MATHER AFB
CALIFORNIA

ADMINISTRATIVE RECORD
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AR File Number 2970

Former Mather Air Force Base
Sacramento, California

FINAL

ANNUAL AND FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING REPORT

Air Force Real Property Agency
Western Region Execution Center

Prepared for
Air Force Center for Engineering and the Environment
Lackland Air Force Base, Texas

Contract FA8903-08-D-8777, Task Order 0034

October 2010

U.S. AIR FORCE

MWH

DEPARTMENT OF THE AIR FORCE
AIR FORCE REAL PROPERTY AGENCY

MEMORANDUM FOR SEE DISTRIBUTION

OCT 0 1 2010

FROM: AFRPA Western Region Execution Center
3411 Olson Street
McClellan CA 95652-1003

SUBJECT: Replacement Pages to Create the Final Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report, former Mather Air Force Base (Mather)

1. Attached are the replacement binder slip sheets and report pages to be filed in your draft final version with instructions to create the Final Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report. Also attached is a compact disk of the entire final report. The report is final as of October 1, 30 days from receipt of the draft final version, per the Federal Facility Agreement.

2. If you have any questions or concerns, please contact me at (916) 643-6420, ext. 203, or Bill Hughes, at (916) 997-1564.

DOUGLAS V. FORTUN
BRAC Environmental Coordinator

Attachments:
1. Replacement pages and slip sheets for creation of Final Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report (MWH, October 2010)
2. Final Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report (MWH, October 2010) CD

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MWH

BUILDING A BETTER WORLD

1 October 2010

AFCEE/EXC, Bldg. 171
2261 Hughes Avenue, Suite 155
Lackland AFB, Texas 78236-9853

Project No. 1951161.34010401

Attention: Stanley Pehl, Environmental Program Manager

Subject: *Final* Annual and Fourth Quarter 2009
Mather Groundwater Monitoring Report
Former Mather Air Force Base, California
Contract FA8903-08-D-8777, Task Order 0034
CDRL Number A001M

Dear Mr. Pehl:

In accordance with our contract, MWH Americas, Inc. (MWH) is submitting the *Final* Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report for the former Mather Air Force Base (Mather), California. This report went final on 30 September 2010, and is being submitted as replacement pages only, along with a compact disc (CD) of the full report.

This report presents a compilation and summary of 2009 groundwater monitoring data at Mather. An executive summary is provided to facilitate review of this document. Performance monitoring data from the groundwater extraction and treatment systems for the Main Base/SAC Area, AC&W, and Site 7 Plumes are evaluated with details on groundwater extraction rates, mass of contaminant removed, compliance with discharge standards, and hydraulic influence. In addition, this report presents results of landfill groundwater compliance monitoring, Northeast Plume monitoring, and monitoring results from off-base water-supply wells located west and south of Mather. The groundwater extraction and treatment system performance evaluations include data on extraction rates, contaminant mass removed, changes in contaminant concentrations and extent, compliance with discharge standards, and hydraulic influence. The Mather Groundwater Monitoring Program section provides an overview of the groundwater monitoring across Mather, including a brief discussion of the groundwater flow regime.

Analytical data are consolidated in five analytical data tables included in Appendix A. These five tables present data for volatile organic compounds, fuel constituents, metals, general mineral constituents, and pesticides and polychlorinated biphenyls. The data within each table are organized alpha-numerically by well.

Copies of this document have been forwarded to the Mather Air Force Real Property Agency (AFRPA) for their use and distribution to various regulatory agencies according to the distribution list.

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Should you have questions or comments, please contact Todd Daniels at (916) 418-8347.

Sincerely,

MWH Americas, Inc.

Brenda Callen

Brenda L. Callen, P.G., PMP
Program Manager

Enclosure

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FINAL

ANNUAL AND FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING REPORT

FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

October 2010

Contract FA8903-08-D-8777
Task Order 0034
CRDL Number A001M

Prepared for:

Air Force Center for Engineering and the Environment
Lackland Air Force Base, Texas

Prepared by:

MWH Americas, Inc.
Sacramento, California

MWH certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract FA8903-08-D-8777 is complete, accurate, and complies with all requirements of the contract.

Certifying Official: Brenda Cullen Date: 10 Oct 2010
Program Manager

Approved By: _____ Date: 2010 October 1
Delivery Order Manager

Approved By: _____ Date: 10/1/2010
Quality Assurance Manager

Note: This document is proprietary, revision-controlled, and is intended strictly for use by AFCEE in performing its environmental mission, including the release of this document to the public if necessary and to the applicable regulatory agencies, and by MWH and its subcontractors in support of specific contractual responsibilities.

FINAL

ANNUAL AND FOURTH QUARTER 2009
MATHER GROUNDWATER MONITORING REPORT
FORMER MATHER AIR FORCE BASE, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
AC&W	Aircraft Control and Warning
AFBCA	Air Force Base Conversion Agency
AFRPA	Air Force Real Property Agency
APPL	Agricultural & Priority Pollutant Laboratory, Inc.
ARAR	Applicable or Relevant and Appropriate Requirement
bgs	below ground surface
BHC	Benzene hexachloride
Boeing	The Boeing Company
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbenzene, and total xylenes
Cal Am	California American Water Company
CCl_4	carbon tetrachloride
CCR	California Code of Regulations
CCV	continuing calibration verification
CFR	Code of Federal Regulations
CO_2	carbon dioxide
COC	contaminant of concern
Contingency Plan	Off-Base Water Supply Contingency Plan
CZA	Capture Zone Analysis
DCA	dichloroethane
DCE	dichloroethene
DCP	dichloropropane
EA Engineering	EA Engineering, Science and Technology
EC	electrical conductivity
EPA	U.S. Environmental Protection Agency
FFS	Focused Feasibility Study
ft/ft	feet per foot
ft/yr	feet per year
GAC	granular activated carbon
gpm	gallons per minute
Granite	Granite Construction Company
GWMPER	Groundwater Monitoring Program Evaluation Report
HSG	hydrostratigraphic
IRCTS	Inactive Rancho Cordova Test Site
IRP	Installation Restoration Program
IT Corp.	International Technology Corporation
lbs/day	pounds per day
LF	Landfill
LMT	Laguna-Mehrten Transition
LWBZ	Lower Water-Bearing Zone
Mather	the former Mather Air Force Base
MBS	Main Base/SAC Area (well designator)
MBSA	Main Base/SAC Area
MCL	maximum contaminant level
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
MWH	MWH Americas, Inc.

ACRONYMS AND ABBREVIATIONS (continued)

ND	non-detected
NEP	Northeast Plume
O&M	Operation and Maintenance
OPS	Operating Properly and Successfully
OU	Operable Unit
PAH	polynuclear aromatic hydrocarbons
PCB	polychlorinated biphenyl
PCE	perchloroethene (or tetrachloroethene)
POL	petroleum, oil and lubricants
PQL	practical quantitation limit
PTE-AF	plant treatment effluent after filter
PTI	plant treatment influent
QA	quality assurance
QC	quality control
ROC	reactive organic compound
ROD	Record of Decision
RPM	Remedial Project Manager
SAC	Strategic Air Command
SAP	Sampling and Analysis Plan
SCWA	Sacramento County Water Agency
STSW	Sacramento Test Site Well
SWBZ	Shallow Water-Bearing Zone
TCE	trichloroethene
TDS	total dissolved solids
Teichert	Teichert Aggregates Company
TPH	total petroleum hydrocarbons
TPH-d, -g	total petroleum hydrocarbons -as diesel, -as gasoline
UTL	upper tolerance limit
VOC	volatile organic compound

EXECUTIVE SUMMARY

In accordance with Task Order 0034, Contract FA8903-08-D-8777, MWH Americas, Inc. (MWH) has prepared this *Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report* for the ongoing groundwater monitoring program at the former Mather Air Force Base (Mather), California. The goal of the quarterly reports is to organize, present, and interpret groundwater monitoring and groundwater treatment system monitoring data to assess the performance of the groundwater components of the remedies selected in the relevant Mather decision documents (Air Force Base Conversion Agency [AFBCA], 1993; AFBCA, 1995; AFBCA, 1996; Air Force Real Property Agency [AFRPA], 2008). The performance assessments document successful performance, identify areas of uncertainty in the distribution and movement of groundwater contamination at Mather, and recommend steps to address significant uncertainty. Additionally, the reports monitor compliance with the applicable cleanup goals, water-quality standards, and approved decision documents. Appendices to the *Annual and Fourth Quarter 2009 Groundwater Monitoring Report* contain extensive summaries of current and historical analytical data and groundwater elevation trends.

The groundwater monitoring program includes remedial performance monitoring of three groundwater extraction and treatment systems that operate on separate plumes: the Aircraft Control and Warning (AC&W) Site, Site 7, and Main Base/Strategic Air Command (SAC) Area plumes. The program also includes Northeast Plume (NEP) monitoring and postclosure monitoring at three closed landfills (LF03, LF04, and WP07) that contain waste beneath engineered landfill caps. The off-base monitoring program has additional objectives that address the chlorinated solvent plume near off-base water-supply wells.

The selected remedial alternatives for the Groundwater Operable Unit (OU) Main Base/SAC Area Plume, Site 7 Plume, and NEP at Mather are documented in the *Superfund Record of Decision (ROD) Soil OU Sites and Groundwater OU Plumes* (AFBCA, 1996) and include groundwater extraction, air stripping with groundwater injection, groundwater monitoring for the Main Base/SAC Area and Site 7 plumes, and long-term monitoring for the NEP. The selected remedial alternative for the AC&W groundwater plume is documented in the AC&W ROD (AFBCA, 1993), as modified by Explanation of Significant Difference (ESD) documents (AFBCA, 1997; AFRPA, 2008) and includes groundwater extraction, air stripping, and injection of treated effluent; injection was supplemented by surface-water discharge in 1997 under authority of the

1997 ESD. A pipeline that discharges treated water from the AC&W treatment system to Mather Lake was constructed in 1997; the injection wells have not been used since the middle of 1997 and were permanently decommissioned in 2009.

Following is a summary of notable results and observations during 2009 for each groundwater monitoring program. The discussions below indicate where changes in contaminant concentration suggest changes in contaminant distribution or remedial progress (or areas where downgradient migration or seasonal fluctuation within the plume[s] may be occurring).

Northeast Plume Monitoring Program. The NEP, with apparent source areas near LF03 and LF04, was selected for a remedial action of long-term monitoring under the Groundwater OU (AFBCA, 1996). The, volatile organic compound (VOC) contamination present at the NEP is addressed under the Groundwater OU; the NEP VOC monitoring also satisfies some Landfill OU groundwater monitoring requirements.

Contaminants of concern (COCs) for the NEP detected above cleanup levels during 2009 are tetrachloroethene (PCE) and cis-1,2-dichloroethene (DCE). COC detections above cleanup levels during 2009 were restricted to four wells, MAFB-132 and -136 (water-table wells near LF04), MAFB-133 (water-table well near LF03), and MAFB-398C (Unit C monitoring well near LF03). The fourth quarter 2009 detection of cis-1,2-DCE at MAFB-398C (8.6 micrograms per liter [µg/L]) was the first time a COC had been detected above the cleanup level at that well. It should be noted, however, that cis-1,2-DCE has consistently been detected at concentrations slightly below the cleanup level at MAFB-398C since the well was installed in 2002. The extent of the plume exceeding cleanup levels has generally decreased since the capping of landfill source areas in 1996. Maximum detections for all NEP COCs are listed in the table below.

Contaminant of Concern	Cleanup Level (µg/L)	Well	Maximum 2009 Detection (µg/L)
cis-1,2-Dichloroethene	6.0	MAFB-132	23
Tetrachloroethene	5.0	MAFB-132	20
Carbon tetrachloride	0.5	___	Not detected
Chloromethane	3.0	___	Not detected
1,2-Dichloropropane	5.0	MAFB-398C	0.51F

Notes:
µg/L – micrograms per liter

The elevation of the water table in the upgradient portion of the plume (including the landfills) has dropped below the channel sands of the Middle Unit of the Laguna Formation (Unit B). Dissolved-phase contaminants beneath the landfills are now restricted to the relatively fine-grained overbank deposits of the Lower Unit of the Laguna Formation (Unit C). Assuming water levels do not rise, this will limit transport of VOCs in the future. The lateral and vertical extents of the maximum contaminant level (MCL) volume of the NEP are adequately characterized by the current monitoring network.

Landfill Postclosure Monitoring Programs. Postclosure monitoring programs are required for Northeast Perimeter Landfills LF03 and LF04, as well as for the landfill at Site 7 (WP07) located on the south side of Mather. Monitoring includes detection monitoring for selected VOCs and non-VOCs, which include metals and general minerals for LF03 and LF04, and metals for WP07. The NEP and Site 7 Plume remedial actions for VOCs were selected under the Groundwater OU and are discussed in Sections 3.0 and 5.0, respectively.

During 2005, background calculations were updated for metals near the Northeast Perimeter Landfills and WP07, and for general mineral constituents for the Northeast Perimeter Landfills. Based on the results from the 2005 sampling events, an evaluation program for nickel and chromium was triggered and initiated at LF03 and LF04. Based on monitoring data collected during the evaluation program, it was recommended that the chromium monitoring program be discontinued and the nickel monitoring program be scaled back in 2009. However, quarterly sampling for chromium and nickel continued during 2009 as the recommended changes were not incorporated into the 2009 sampling plan. Chromium and nickel concentrations were elevated in selected landfill wells during 2009, continuing a cyclic or slug-flow like detection pattern observed in some landfill wells. A historically high detection of nickel at 622 µg/L was observed in LF04 well MAFB-136. The cause of increased concentrations observed in 2009 is not known, but the potential that LF04 is a source of nickel cannot be precluded.

Manganese was detected slightly above background concentrations at MAFB-112 in second quarter 2009 but the result is anomalous based on historical results from the well and manganese results from surrounding wells. Additional evaluation monitoring is not recommended at this time. Vanadium was detected slightly above background concentrations at MAFB-111, -288, and -399 during 2009. However, as documented in the 2007 annual groundwater report (MWH, 2008), the vanadium detections are all trace-level, estimated results.

Vanadium detections appear to be stable and no additional evaluation monitoring is recommended.

AC&W Performance Monitoring. The AC&W treatment system during 2009 consisted of seven active extraction wells and the treatment plant. All treated water in 2009 was discharged to Mather Lake. During 2009, the treatment system operated at an average flow rate of 180 gallons per minute (gpm) with an average trichloroethene (TCE) influent concentration of 6.1 µg/L. The system removed approximately 4.8 pounds of TCE during 2009. Total influent concentrations have declined from a high of 165 µg/L observed in first quarter 1997. The highest TCE concentration observed in the AC&W wells sampled during 2009 was 12M µg/L in extraction wells ACW AT-1 and ACW AT-2. Remediation of the plume is progressing, as indicated by the continued decline in TCE concentrations from samples collected from monitoring wells and extraction wells, particularly in the central and downgradient portions of the plume. Please refer to time-concentration graphs in Appendix C for concentration trends in individual wells.

Site 7 Performance Monitoring. The Site 7 groundwater treatment system consists of two extraction wells (7-EW-01 and 7-EW-02), the groundwater treatment plant, and four injection wells. The extraction wells operated at a combined average flow rate of 65 gpm during 2009 and removed approximately 6 pounds of VOCs from groundwater. The average influent total VOC concentration was approximately 21 µg/L. Decreasing concentration trends in the extraction wells and in nearby monitoring wells show the effectiveness of the groundwater extraction. The maximum COC detections in groundwater wells that monitor the Site 7 Plume are presented in the table below. Detections from perched zone wells are not included in the table. Please refer to time-concentration graphs in Appendix C for concentration trends of TCE, PCE, and carbon tetrachloride (CCl_4) in individual wells.

Contaminant of Concern	Aquifer Cleanup Level (µg/L)	Well	Maximum 2009 Detection (µg/L)
1,1-Dichloroethene	6.0	MAFB-424	1.80
1,2-Dichloroethane	0.5	MAFB-041	8.3M
cis-1,2-Dichloroethene	6.0	MAFB-041	9.0
Benzene	1.0	___	Not detected
1,4-Dichlorobenzene	5.0	MAFB-041	0.33F
Chloromethane	3.0	___	Not detected

Contaminant of Concern	Aquifer Cleanup Level (µg/L)	Well	Maximum 2009 Detection (µg/L)
Vinyl chloride	0.5	___	Not detected
Trichloroethene	5.0	MAFB-446	57
Tetrachloroethene	5.0	MAFB-446	9.4
TPH as diesel	100.0	___	Not detected

Notes:
µg/L – micrograms per liter
TPH – total petroleum hydrocarbons

Five new groundwater monitoring wells were installed in 2008 to support the evaluation of remedial progress. MAFB-444, -446, and -447 were installed in the midsection of the plume. MAFB-444 was installed along the eastern margin of the plume, and quarterly samples through 2009 have not contained VOCs above the cleanup level. MAFB-446 was installed along the axis of the plume, between 7-EW-01 and 7-EW-02, to evaluate cleanup between the extraction wells. Quarterly samples from MAFB-446 have contained TCE up to 57 µg/L. MAFB-447 was installed along the interpreted western margin of the plume. However, quarterly samples collected from this well have contained TCE up to 18 µg/L.

Two new wells were installed near the toe of the plume in 2008. MAFB-445 was installed east of groundwater extraction well 7-EW-1 and the samples from this well have not contained COCs above cleanup levels. MAFB-448 was installed southeast of 7-EW-1 and MAFB-372B. Quarterly samples from MAFB-448 have contained TCE up to 9.0 µg/L, slightly above the cleanup level.

In the perched zone, which occurs at roughly 50 feet below ground surface (about 25 feet above mean sea level), the highest VOC concentrations were observed in samples collected from wells 7-BV-01 and 7-BV-02. Vinyl chloride and benzene were detected above their respective cleanup levels for the underlying aquifer at 7-BV-01 (maximum 2009 detections of 1.3 and 5.3 µg/L, respectively). TCE, vinyl chloride, and 1,2-dichloroethane (DCA) were detected above their respective MCL values for the underlying aquifer at 7-BV-02 (maximum 2009 detections of 14, 0.54, and 3.8 µg/L, respectively).

Main Base/SAC Area Performance Monitoring. The Main Base/SAC Area remedial system consisted in 2009 of 30 active extraction wells, the treatment plant with two air stripping towers to remove VOCs, and four injection wells. During 2009, the Main Base/SAC Area extraction wells operated at a combined average flow rate of 1,640 gpm and removed 108 pounds of

VOCs from groundwater. The entire volume of extracted water was treated and reinjected into deeper aquifer units. Four of the 30 extraction wells (MBS EW-12AB, EW-7ABu, EW-6ABu, and EW-8B) were turned off in February 2010 due to low VOC removal rates and lack of contribution to MCL plume capture (MWH, 2009e).

COCs for the Main Base/SAC Area Plume, and their maximum observed concentrations for 2009, are presented in the table below.

Contaminant of Concern	Cleanup Level (µg/L)	Well	Maximum 2009 Detection (µg/L)
1,2-Dichloroethane	0.5	MAFB-417	0.78
cis-1,2-Dichloroethene	6.0	MAFB-417	4.8
Benzene	1.0	MAFB-338	0.15F
Carbon tetrachloride	0.5	MAFB-439	14
Xylenes	17.0	MAFB-419	0.33F
1,1-Dichloroethene	6.0	MAFB-420	8.8
Chloromethane	3.0	MAFB-214	0.55
Trichloroethene	5.0	MAFB-420	240
Tetrachloroethene	5.0	MBS PZ-50	110
TPH as gasoline	50.0	MAFB-314	35F
TPH as diesel	100.0	___	not detected
Lead	15.0	___	not detected

Notes:
µg/L – micrograms per liter
TPH – total petroleum hydrocarbon

The Main Base/SAC Area Plume is observed in three main hydrostratigraphic units: the water table (includes Units A and Bu), Unit B, and Unit D. The maximum COC detections from wells completed across or just below the water table continue to be observed at the Site 57 source area, where hotspot (10 times the MCL) concentrations are observed for TCE, PCE, and CCl_4, and at groundwater monitoring well MAFB-439, where hotspot concentrations are observed for PCE and CCl_4. The interpreted extent of the Site 57 hot spot appears to be stable, likely due to extraction at MBS EW-1ABu, -2ABu, -4ABu, -5ABu, and -2AR.

The Unit B VOC plume was generally stable during 2009 with the exception of the CCl_4 plume, which decreased notably in volume relative to previous years. Hotspot concentrations of CCl_4 were observed near the northwestern base boundary, at MAFB-218, -220, -222, and -224. The

extent of the plume off base along Old Placerville Road appears to be contracting. Several groundwater extraction wells that operate in this area, including MBS EW-1B, -4B, -6B, and -8B, had samples during 2009 in which VOCs were not detected above cleanup levels or were only slightly above cleanup levels.

Low levels of CCl_4 continue to be observed at the western toe of the plume, near groundwater extraction well MBS EW-12B. The flow rate at MBS EW-12B was increased from 125 gpm to 175 gpm in 2007 to increase the capture zone of the well. The only well in this area with CCl_4 concentrations above the cleanup level in 2009 was MAFB-426, located west of EW-12B.

Characterization of the Southwest Lobe of the Main Base/SAC Area plume continued in 2009. Fifteen private wells downgradient from the Southwest Lobe were sampled for the first time in second quarter 2009 after TCE was detected above the cleanup level in initial samples from monitoring wells MAFB-457Bs and MAFB-458Bd. One of the private wells, OFB-72, had TCE detections up to 3.8 µg/L in 2009 samples; no VOCs were detected at the other private wells. Two additional dual-completion groundwater monitoring wells were installed in fourth quarter 2009 to further characterize the plume. The first, MAFB-460Bs/Bd, was installed between OFB-72 and monitoring wells MAFB-457 and -458. The initial sample collected from the shallow Unit B (Bs) completion at MAFB-460 contained TCE at 3.7 µg/L. The second dual completion well, MAFB-461Bs/Bd was installed west of MAFB-460 and OFB-72, in an area where pumping influence from the private wells was expected to be higher. No VOCs were detected in the initial samples from MAFB-461.

The Unit D plume was defined by detections of TCE, PCE, and CCl_4 above cleanup levels. PCE and CCl_4 were detected at hotspot concentrations beneath the northwest base boundary (along the axis of the plume). One area of concern identified by the 2007 Capture Zone Analysis (MWH, 2007b) was the zone beneath the hotspot in the vicinity of groundwater extraction wells MBS EW-1D and -3D and monitoring well MAFB-180. Two groundwater monitoring wells, MAFB-430 and -435, were installed in deep Unit D during 2007 to address these areas. Monitoring of groundwater elevations at the new wells and existing shallower Unit D wells has shown that hydraulic gradients are upward during winter and early spring months when pumping from large regional supply wells is lowest and downward during the summer when pumping from the supply wells is greatest. The CCl_4 concentration at MAFB-430 was slightly higher in 2009 (0.77 µg/L) than previous results (maximum of 0.64 µg/L in third quarter 2007). CCl_4

concentrations at MAFB-435 reached a high of 2.7 µg/L in second quarter 2009 but decreased to third and fourth quarter 2009 results of 1.9 and 1.1 µg/L, respectively.

Off-Base Water-Supply Well Monitoring. Ten high-volume, off-base groundwater production wells are sampled regularly to monitor for evidence of VOC contaminants originating at Mather. The two Juvenile Hall supply wells and the Moonbeam supply well had wellhead treatment systems during 2009; influent water was treated by granular activated carbon (GAC). A single treatment system processes the combined effluent from both Juvenile Hall wells. Samples have been collected quarterly from the wellhead at both Juvenile Hall wells, while influent and midfluent water samples are collected monthly from the Juvenile Hall and Moonbeam treatment systems. The remaining off-base wells are sampled quarterly at the wellhead. A carbon changeout was performed on the lead Moonbeam vessel in March 2009 after two mid-GAC samples collected in January and February contained CCl_4 at 0.21 µg/L and 0.22 µg/L, respectively. A carbon changeout was performed on the lead Juvenile Hall vessel in October 2009 after two mid-GAC samples collected in July and August contained CCl_4 at 0.20 µg/L and 0.20 µg/L, respectively.

Thirty-two privately owned water supply wells were sampled during 2009, including the 15 private wells regionally downgradient from the Southwest Lobe described above. The TCE detections at OFB-72 were described above. VOC detections in other privately-owned wells that have been sampled annually were consistent with historical results. All detections were below respective MCLs for detected constituents.

1.0 INTRODUCTION

In accordance with Task Order 0034, Contract FA8903-08-D-8777, MWH Americas, Inc. (MWH) has prepared this *Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report* for the Air Force groundwater remediation program at the former Mather Air Force Base (Mather) and vicinity. Groundwater monitoring includes depth-to-groundwater measurements (referred to as gauging) and collection of water samples from groundwater extraction and treatment systems, monitoring wells, piezometers, and private water-supply wells, on and off Mather property.

The objectives of this report are (1) to report the results from fourth-quarter 2009 monitoring, and (2) to review monitoring data for 2009 with respect to patterns of groundwater flow, the distribution of contaminants of concern (COCs), and the performance of the groundwater extraction networks and treatment systems. The report is organized as follows:

- Section 1.0, Introduction, describes Mather, the history of each site/plume and its relevant remedial objectives, and the current understanding of the hydrogeology at Mather.
- Section 2.0, Mather Groundwater Monitoring Program, provides an overview of the 2009 Mather groundwater monitoring program activities. This section presents a brief summary of gauging and sample collection activities, a brief discussion and evaluation of the groundwater elevation and potentiometric surface maps, and a summary of monitoring well maintenance and status for 2009.
- Section 3.0, Landfill Postclosure and Northeast Plume Monitoring Program, discusses the analytical results of samples from wells that monitor the Northeast Plume (NEP) and postclosure monitoring at Landfill (LF) Sites LF03, LF04, and WP07.
- Sections 4.0, 5.0, and 6.0, the Aircraft Control and Warning (AC&W) Site, Site 7, and Main Base/Strategic Air Command (SAC) Area Remedial Performance Monitoring Programs, respectively, discuss performance monitoring results and evaluate the performance of each groundwater extraction and treatment system.
- Section 7.0, Off-base Water-Supply Well Monitoring Program, provides results of samples collected from off-base water-supply wells and discusses analytical results from samples collected from nearby monitoring wells.
- Section 8.0, Analytical Data Quality Summary (fourth quarter 2009), discusses the analytical program, the quality control (QC) results, and how those results impact the groundwater analytical data collected during the fourth quarter of 2009.

- Section 9.0, Summary, Conclusions, and Recommendations, provides key observations in the monitoring results and recommendations for improvements to the remediation systems and monitoring programs.

The following appendices are presented in this report and are organized as follows:

- Appendix A: Analytical results for the last 2 years are presented in Tables A-1 through A-5. The well list in each table is in alphanumeric order by well name.
- Appendix B: Yearly second-quarter groundwater elevation hydrographs for selected wells (grouped by hydrostratigraphic [HSG] unit and study area) are presented in this appendix.
- Appendix C: This appendix presents time–concentration plots for the primary COCs at Mather, tetrachloroethene (PCE), trichloroethene (TCE), and carbon tetrachloride (CCl_4), for wells and treatment system samples.
- Appendix D: This appendix presents an update on the compliance with air emission standards by the Main Base/SAC Area, AC&W, and Site 7 treatment systems.
- Appendix E: This appendix presents the *First Quarter 2009 Analytical Data Report* (provided electronically on a compact disc).
- Appendix F: This appendix presents the *Second Quarter 2009 Analytical Data Report* (provided electronically on a compact disc).
- Appendix G: This appendix presents the *Third Quarter 2009 Analytical Data Report* (provided electronically on a compact disc).
- Appendix H: This appendix presents the *Fourth Quarter 2009 Analytical Data Report* (provided electronically on a compact disc).
- Appendix I: This appendix presents performance evaluation results used to evaluate the accuracy of the laboratory.
- Appendix J: This appendix compares water levels to screen elevations and presents a list of wells that were dry during any quarter of 2009.
- Appendix K: This appendix presents the updated 2009 consultation zone map developed to support implementation of Sacramento County Code, Title 6, Chapter 6.28.
- Appendix L: This appendix describes groundwater monitoring well installation that occurred in 2009.
- Appendix M: This appendix presents the response to agency comments on the Draft version of this report.

The following sections describe Mather and the groundwater monitoring program.

1.1 SITE DESCRIPTION AND BACKGROUND

Mather is located in Sacramento County, partially within the Rancho Cordova city limits, approximately 10 miles east of downtown Sacramento, as shown on Figure 1-1. The former base is south of U.S. Highway 50, a major highway connecting Sacramento and South Lake Tahoe. Mather was closed as an active air base under the Base Realignment and Closure (BRAC) Act on 30 September 1993. At that time, it encompassed 5,845 acres (including 129 acres of easements) in an unsurveyed portion of Township 8 North, Ranges 6 East and 7 East. A site location map is presented as Figure 1-2.

Environmental cleanup at Mather is managed by the Air Force under the Installation Restoration Program (IRP). Remedial investigations and cleanup activities have been implemented under this program for numerous IRP sites. These activities include the installation of groundwater monitoring wells throughout Mather and beyond the Mather property. Approximately 600 wells and piezometers and 39 active extraction wells were included in the monitoring program at Mather during 2009.

Groundwater at Mather and vicinity is contaminated by chemicals used during routine base operations between 1918 and 1993. Several IRP sites have been identified as sources of groundwater contamination. There are five areas of groundwater monitoring at Mather (Figure 1-2):

- AC&W Site Plume: The AC&W Site Plume reportedly resulted from disposal of solvents in a waste disposal pipe or dry well at IRP Site 12 from 1958 to 1966 (see Section 4.0).
- Site 7 Plume: The source area for the Site 7 Plume was a gravel borrow pit into which waste was disposed from 1953 to approximately 1966. The borrow pit was reportedly used to dispose of petroleum oil and lubricant (POL) wastes, empty drums, sludge from plating shops, absorbent sand used for cleaning oil and solvent spills, and at least one load of transformer oil that may have contained polychlorinated biphenyls (PCBs). The Site 7 Groundwater Extraction and Treatment System operation has been interrupted three times since 1998 to accommodate mining and related reclamation (from July 1999 to May 2001, from July 2001 to March 2002, and from April 2003 to mid-December 2006). The extraction and groundwater treatment system resumed operation in December 2006.
- Landfills and NEP: The NEP is in the vicinity of Landfill Sites LF03, LF04, and LF05. The remedial action selected for the NEP is continued monitoring (Air

Force Base Conversion Agency [AFBCA], 1996). Sources of contamination include landfill disposal.

- Main Base/SAC Area Plume: The commingled contaminant plume resulting from sources at several IRP sites is referred to as the Main Base/SAC Area Plume. Multiple source areas of contamination resulted from industrial activities, equipment maintenance, dry cleaning, and fuel storage and delivery.
- The off-base area is identified as the portion of the Main Base/SAC Area and Site 7 Area plumes that have migrated beyond Mather property boundaries. The monitoring program referred to as "Off-Base," is the monitoring of large water-supply wells, selected nearby monitoring wells, and smaller privately owned supply wells in the vicinity of and downgradient from the plumes. The sampling of large supply wells and nearby monitoring wells is governed by the *Off-Base Water Supply Contingency Plan* (Contingency Plan) (AFRPA, 2008). (See Section 7.0, and Figure 7-1 for the off-base municipal and private well locations.)

The following table lists each plume, its governing decision documents, selected remedial action, and current status of the remedial action.

Plume	Decision Document	Remedial Action	Status as of 2009
AC&W	Superfund Record of Decision (ROD): Aircraft Control and Warning Site, Mather Air Force Base, Sacramento County, California. December 1993 AFBCA, 1993. Explanation of Significant Difference (AFBCA, 1997). Explanation of Significant Difference (AFRPA, 2008).	Groundwater extraction, air stripping, groundwater discharge to Mather Lake (AFBCA, 1997), and groundwater monitoring.	Remedial action was in place and operating. Determined to be Operating Properly and Successfully (OPS) in 1998. Continued operations and performance monitoring.
Site 7	Superfund ROD: Soil Operable Unit Sites and Groundwater OU Plumes, Mather Air Force Base, Sacramento County, California. June 1996 (AFBCA, 1996).	Groundwater extraction, air stripping, reinjection, and groundwater monitoring.	The system was restarted in December 2006. The capture zone assessment is presented in Appendix N of the *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e). Continued operations and performance monitoring.
Landfills (LF03, LF04,and WP07)	For LF03 and LF04: Superfund ROD for the Landfill OU Sites (AFBCA, 1995). For WP07: Superfund ROD: Soil OU Sites and Groundwater OU Plumes, Mather Air Force Base, Sacramento County, California. (AFBCA, 1996).	Postclosure groundwater monitoring.	Remedial action was in place. Background concentrations for metals and general mineral constituents have been defined and evaluation monitoring continued at LF04 for nickel.
NEP	Superfund ROD, Soil OU Sites and Groundwater OU Plumes (AFBCA, 1996).	Long-term groundwater monitoring.	Long-term groundwater monitoring. OPS determination was submitted for regulatory review in January 2009.

Plume	Decision Document	Remedial Action	Status as of 2009
MBSA	Superfund ROD: Soil OU Sites and Groundwater OU Plumes, Mather Air Force Base, Sacramento County, California. June 1996 (AFBCA, 1996).	Groundwater extraction, air stripping with off-gas treatment (carbon adsorption), as necessary, reinjection, and groundwater monitoring.	Remedial action was in place and operating. Treatment system operated continuously. One single-completion and two dual-completion groundwater monitoring wells installed in 2009. The capture zone assessment is presented in Appendix M of the *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e). Continued the plan for the discharge of some treated groundwater to surface water.
Off-Base	Superfund ROD: Soil OU Sites and Groundwater OU Plumes, Mather Air Force Base, Sacramento County, California. June 1996 (AFBCA, 1996).	Identify potentially impacted supply wells, develop monitoring plan, identify alternative water-supply options, determine effect of supply well pumping, and mitigate potential vertical migration near supply wells.	*Mather Off-Base Water Supply Contingency Plan, Revision 1* (AFRPA, 2008) in effect and implemented since 1998. Two granular activated carbon (GAC) wellhead treatment systems have been in place since 1997.

1.2 MATHER GROUNDWATER MONITORING

Groundwater monitoring occurred sporadically from 1984 through 1989. Routine groundwater monitoring began in 1990, with groundwater samples collected quarterly and depths to groundwater recorded monthly. In 1993, depths to groundwater were measured every other month. Depths to groundwater were measured quarterly from 1994 through 2006. In 2007 the Air Force committed to semiannual monitoring of water elevation, with the option for more frequent measurements in selected areas as needed to guide decisions. MWH was contracted to perform groundwater monitoring for Mather and vicinity beginning with first quarter 1996.

The objectives of the quarterly groundwater monitoring program are to:

- Monitor seasonal variation in groundwater elevation and gradients within each HSG unit.
- Monitor the extent of contamination and progress toward achieving cleanup levels.
- Evaluate the hydraulic capture of the groundwater extraction wells.

- Evaluate the performance of groundwater extraction and treatment systems, including monitoring of mass removal efficiency and compliance with discharge standards.
- Assess the potential impact of contaminant plumes on the off-base drinking-water-supply wells.
- Monitor groundwater quality in the landfill areas (detection monitoring and evaluation monitoring).
- Monitor groundwater quality in the zones where treated water is injected
- Monitor surface-water quality where treated groundwater is discharged.

Plans for the 2009 groundwater sampling program were described in the *2009 Groundwater Monitoring Program Sampling Plan* (MWH, 2009b). The sampling plan identifies wells from which samples were to be collected in 2009, as well as the analytical methods planned for 2009 to evaluate the presence and extent of COCs. The sampling plan explains the rationale for the selected sample-collection frequencies (i.e., quarterly, semiannually, annually, biennially, or reserved [not sampled]) for each monitoring well.

In addition to the annual groundwater sampling plan, other approved procedural documents identify sample-collection protocols (including diffusion sampling), quality assurance (QA) procedures, and site health and safety practices. These documents include the *Basewide Quality Program Plan for Mather Air Force Base Full Service Remedial Action Contract* (Montgomery Watson, 1997e), the *Basewide Groundwater Monitoring Sampling and Analysis Plan* (SAP) (Montgomery Watson, 1997d) for groundwater monitoring at Mather and vicinity, the Contingency Plan (AFRPA, 2008) for off-base sampling, and the standard operating procedure for passive diffusion bag sampling in Appendix B of the *2004 Groundwater Monitoring Program Evaluation Report* (MWH, 2005). The following four addenda to the Basewide SAP have also been implemented to revise the sampling plans for selected Mather monitoring wells for purposes of meeting site-specific monitoring objectives:

1. *Basewide Groundwater Monitoring SAP for Off-Base Sampling* (Montgomery Watson, 1997f).
2. *Addendum to the Basewide Groundwater Monitoring SAP for Main Base/SAC Area Performance Sampling – Revision 1* (Montgomery Watson, 2000a).
3. *AC&W Site SAP* (Montgomery Watson, 1997b).
4. *Addendum to the Basewide Groundwater Monitoring SAP for Site 7 Performance Sampling* (Montgomery Watson, 1999b).

Specific descriptions of historical and current monitoring activities at the various sites at Mather are provided in Sections 3 through 7.

1.3 HYDROGEOLOGIC SETTING

Mather is situated in the northern half of the Great (Central) Valley physiographic province. The former base is situated on ancient stream terraces south of the American River. The topography of Mather consists of three relatively flat terraces that step progressively lower toward the American River to the north, with elevations on each decreasing gently toward the southwest.

Groundwater in the eastern Sacramento area occurs in Oligocene or younger geologic formations that include thick deposits of fluvial sands and gravels. In the area of Mather, these sediments are present to a depth of approximately 900 feet below ground surface (bgs). Groundwater within these geologic units receives recharge from surficial stream flow and rainfall. Possible significant local recharge sources include the American River, Mather Lake, Morrison Creek, drainage ditches, and numerous settling or recycling ponds and excavations associated with gravel and sand operations south (Teichert Aggregates Company [Teichert]) and west-southwest (Granite Construction Company [Granite]) of Mather. Other potential sources of recharge are the sanitary and storm sewer lines on and near Mather, and flood detention basins, one northeast of Mather (west of Landfill LF03) and one northwest (at the intersection of Systems Parkway and Routier Road). Former recycling ponds northeast of Mather were in use by RMC Lonestar in the 1980s and 1990s, and appear to have been a significant source of recharge during that time period.

Three geologic units are recognized at Mather (from youngest to oldest): the Terrace Gravels, the Laguna Formation, and the Mehrten Formation (Figure 1-3). These units are described below.

Terrace Gravels. Terrace Gravels of Quaternary Age comprise the uppermost geologic unit at Mather. Three distinct terraces were formed by the ancestral American River (from oldest to youngest): the Arroyo Seco Terrace, the “Middle” Terrace (informal name), and the Riverbank Terrace. The Arroyo Seco Terrace, at the highest elevation, underlies the southeastern third of Mather. The Middle Terrace is found northwest of the Arroyo Seco Terrace. The Riverbank

Terrace occurs at the lowest elevation and underlies the northwestern half of Mather. The Terrace Gravels consist primarily of sandy to silty gravel deposited by the northwestward migration of the ancestral American River. The gravels are unconsolidated to weakly cemented, are unsaturated across Mather, and are capped by silt to sandy silt. The Terrace Gravels range in thickness from 5 to 60 feet (Montgomery Watson, 1999d). A soil horizon (locally up to 10 feet thick) has developed above the Terrace Gravels.

Laguna Formation. The Laguna Formation of Tertiary to Quaternary Age underlies the Terrace Gravels across and west of Mather. The ancestral American River eroded its channel into the Laguna Formation, producing an unconformable contact between the Terrace Gravels and the Laguna Formation. The Laguna Formation consists of unconsolidated fluvial silts, sands, and gravels of Pliocene to Pleistocene Age. These sediments were deposited in a westward-thickening wedge by streams draining the Sierra Nevada (California Department of Water Resources, 1964). The coarse sediments of the Laguna Formation represent multiple episodes of channel deposition and are stacked (or aggraded) vertically; the silts and clays represent overbank sediments deposited during floods. The Laguna Formation is exposed east of Mather, where it is estimated to be at least 200 feet thick. Stratigraphic data collected during characterization efforts by MWH suggest the Laguna Formation is more than 350 feet thick beneath portions of Mather. The formation has been informally subdivided into three parts designated Upper, Middle, and Lower Laguna. The Upper Laguna locally underlies the Terrace Gravels and consists predominantly of silt with some interbedded sand. The Middle Laguna beneath the Main Base/SAC Area is characterized by sandy gravel with some sand and silty sand. The Lower Laguna consists predominantly of silt and clay with intermittent sand and gravel channel-fill deposits (Montgomery Watson, 1999d).

Mehrten Formation. The lowermost geologic unit identified at Mather is the late Tertiary Mehrten Formation, a primary source of potable water to water-supply wells on and west of Mather. The Mehrten Formation is composed of fluvial, volcaniclastic sediments consisting primarily of black andesitic sand and interbeds of blue to brown clay. Locally, channels are filled with andesitic gravels. The Mehrten Formation forms a sedimentary wedge that dips and thickens to the west. The Mehrten Formation is 200 feet thick in outcrops east of Mather and thickens westward in the subsurface to about 400 to 500 feet. The Mehrten Formation is locally an excellent source of groundwater (Montgomery Watson, 1999d). The contact between the top of the Mehrten Formation and the bottom of the Laguna Formation is generally not clearly

defined. A transitional zone composed of both granitic Laguna sands and andesitic sands with a thickness of between 60 and 120 feet has been observed (Shlemon, 1967; International Technology Corporation [IT Corp.], 1994).

Functional Hydrostratigraphy at Mather. Four HSG units, A to D, have been designated at Mather. Each unit is described briefly below.

Because the water table slopes generally westward at a slightly smaller angle than the westward dip of the HSGs, the water table beneath Mather transects Units A, B, and C progressively to the east (Figure 1-3, for the area north of the runways). Accordingly, the saturated thickness of these units decreases to the east. The water table occurs in Unit C near Site 7, AC&W, and LF03 and LF04. Unit D and the Mehrten Formation are saturated throughout Mather.

- Unit A (the water table occurs in Unit A in the western portion of Mather and west of Mather) corresponds with the Upper Laguna Formation and consists primarily of overbank deposits of silt and fine sand, but some channel-fill sand and gravel do occur. The sediments are fairly continuous across Mather. In most areas, overbank deposits of Unit A overlie coarse sediment of Unit B, but locally, channel deposits from the two units are continuous from above the water table to the bottom of Unit B (Montgomery Watson, 1999d).
- Unit B corresponds with the Middle Laguna Formation and consists of coarse channel-fill deposits of sandy gravel beneath the Main Base/SAC Area, extending west of Mather. The deposits range in thickness from roughly 20 to 60 feet and are first encountered at depths of roughly 120 feet bgs in the east and 180 feet bgs in the west. In areas south of the runway (i.e., Site 7), the coarse sediments of Unit B transition laterally to finer grained Unit C sediments. Generally, along eastern portions of Mather, Unit A is above the water table or absent, and groundwater is first encountered in Unit B or Unit C. Unit B is the most transmissive unit of the Laguna Formation in areas north of the runway and in areas where the Middle Laguna Formation is characterized by channel-fill deposits of sandy gravel. In the western portions of Mather and extending west off the base, Unit B is divided into two subunits, an upper channel subunit (Unit Bu) and a lower channel subunit (Unit B) (IT Corp., 1996). Unit Bu is only identified as a distinct unit where fine overbank deposits, referred to as the Unit Bu/B aquitard, are present. The Unit Bu/B aquitard is locally discontinuous; in some areas along the Mather boundary the aquitard is not present and Units Bu and B are indistinguishable, allowing effective vertical hydraulic communication throughout the Middle Unit of the Laguna Formation (Montgomery Watson, 1999d). For this reason, the following sections group these subunits together for purposes of describing the nature and extent of COCs. Hydrogeologic Units Bu and B are important to the flow of groundwater and movement of COCs. Because of their high transmissivity, channel-fill

deposits of Units Bu and B provide a primary pathway for the flow of contaminated groundwater beneath and beyond Mather (IT Corp., 1996).

- Unit C is a portion of the Lower Laguna Formation and consists predominantly of silt and clay. Unit C is defined as the vertical interval between Unit B sands and gravels and the uppermost Unit D sands. Unit C may functionally constitute an aquitard because of its persistent extent and thickness and the significant differences in hydraulic head between units lying above and below it. Unit C as defined above is generally 10 to 50 feet thick throughout the area (Montgomery Watson, 1999d). The water table occurs in Unit C in relatively small portions of Mather near LF03, LF04, Site 7; and the AC&W site. Fine-grained sediments at the AC&W and Site 7 areas are also defined as Unit C based on lithology although they are at depths equivalent to Unit B gravels north of the runways.
- Unit D is the other deeper portion of the Lower Laguna Formation and extends from the top of the uppermost sandy channel below Unit B to the beginning of the Laguna-Mehrten Transition (LMT). Unit D consists primarily of fine overbank deposits of silt and clay and less frequent coarse channel deposits that are generally 20 to 40 feet thick. The unit behaves as a confined aquifer. Unit D channel deposits are encountered at approximately 220 to 300 feet bgs and are characterized by sands and silty sands, as opposed to the coarse sands and gravels of Unit B (Montgomery Watson, 1999d). Unit D is interpreted to be approximately 140 to 200 feet thick throughout the site. Volatile organic compound (VOC) contamination has been found in the upper to middle portions of Unit D.
- Underlying Unit D is a transition zone between the Laguna and Mehrten formations. The transition zone is characterized by materials derived from both andesitic source terrains and granitic source materials. The elevation of the top of the LMT zone is interpreted to range from approximately 250 feet below mean sea level (msl) beneath the northwestern portion of Mather near the injection wells for the Main Base/SAC Area treatment system to approximately 380 feet below msl west of Mather near the Oaken Bucket water-supply well (see Section 6.0 of the 2007 Capture Zone Analysis [CZA] report; as well as Appendix B, Cross-Section E-E' [MWH, 2007b]). There are several deep nested monitoring wells installed and/or monitored by Aerojet, Inc. in the upgradient portions of Mather, installed to monitor deep-level VOC and perchlorate contamination associated with the Inactive Rancho Cordova Test Site (IRCTS) plumes with sources hydraulically upgradient of Mather. These wells extend through the Laguna Formation, through the LMT, and several are completed in the underlying Mehrten Formation. Several of these wells are shown in cross-section view on Figure 3-4. Based on the HSG zonal classification of these wells provided by ENSR Consulting and Engineering (former consultant to The Boeing Company [Boeing]), the LMT in the upgradient portions of Mather (beneath the Northeast Perimeter Landfills) is between 70 and 130 feet thick. This is corroborated by the lithologic descriptions in one of the deepest wells at Mather, MAFB-347, drilled to 530 feet and located on the northwest boundary of the Main Base/SAC Area Plume, southeast of the Oaken Bucket water-supply well. Dark green to black andesitic grains are first noted on the log at about 370 feet bgs, which is interpreted to be the beginning of the LMT. Very dark gray andesitic sands are described beginning at about 490 feet depth. Assuming this is near the top of the Mehrten Formation, the LMT would be about 120 feet thick at this location.

Groundwater at Mather is generally encountered between 90 and 110 feet bgs in the Laguna Formation beneath the Riverbank Terrace deposits. The water table beneath Mather is encountered in Unit A, Unit B, or Unit C. The coarse sands and gravels of Units Bu and B of the Middle Laguna Formation are relatively transmissive and apparently continuous through the Main Base and SAC industrial areas, extending west beyond Mather. Consequently, they are important to the flow of groundwater and the transport of COCs. Horizontal conductivity and transmissivity data for Units A, Bu, B/C, and D were compiled from wells installed at Mather and are listed below (Montgomery Watson, 2000b):

Hydrostratigraphic Unit	Hydraulic Conductivity (feet/day)	Transmissivity (feet^2/day)
A	1 to 290 (average [avg] 48)	3 to 3,378 (avg 570)
Bu	2 to 222 (avg 58)	8 to 5,550 (avg 1,550)
B	2 to 350 (avg 82)	24 to 14,000 (avg 2,550)
D	1 to 182 (avg 29)	70 to 8,000 (avg 1,596)

Overall, groundwater beneath Mather flows toward the southwest, conforming with the regional groundwater flow direction. Municipal and agricultural pumping across the basin has created three groundwater “cones of depression” northwest, southwest, and south of Mather. The Elk Grove cone of depression to the southwest influences groundwater flow direction at Mather (Montgomery Watson, 1999d).

2.0 MATHER GROUNDWATER MONITORING PROGRAM

This section provides an overview of the field activities and sample data collected during 2009 for the Mather groundwater monitoring program. More specific and detailed discussions are included in the sections on performance monitoring of the contaminant plumes and landfills (Sections 3.0 to 7.0). Details of the sampling protocols can be found in the *Second Quarter 2001 Basewide Groundwater Monitoring Report* (Montgomery Watson, 2001a), except the protocols for passive diffusion-bag sampling, which can be found in Appendix B of the *2004 Groundwater Monitoring Program Evaluation Report* (GWMPER) (MWH, 2005).

2.1 MONITORING ACTIVITIES

Groundwater monitoring at Mather includes groundwater gauging (measuring depths to groundwater) and sample collection and analysis. The groundwater well reference list for Mather is presented in Table 2-1. Groundwater monitoring activities are summarized in this section for the four quarters of groundwater monitoring conducted during 2009 at Mather and vicinity. Groundwater elevations calculated from depths measured semiannually in 2009 are presented in Table 2-2.

Selected wells were gauged more frequently based on professional judgment to demonstrate plume capture for areas of concern at the Main Base/SAC Area Plume (Section 6). Specifically, the Air Force collected monthly water-level measurements in wells MAFB-180 (Unit D), MAFB-320 (Unit D), MAFB-430 (deep Unit D), and MAFB-435 (deep Unit D) from late 2008 through October 2009 to provide information regarding the seasonal fluctuation in vertical gradient between Unit D and deep Unit D wells in the area around extraction wells MBS EW-1D and EW-3D. The specific wells and the results of the extra measurements are as follows:

Date	MAFB-320	MAFB-430	Head Difference		MAFB-180	MAFB-435	Head Difference
1/1/2008	-14.28	-14.11	0.17		-19.06	-17.45	1.61
4/1/2008	-15.08	-15.55	-0.47		-19.33	-18.38	0.95
10/1/2008	-22.8	-25.27	-2.47		-26.56	-27.8	-1.24
11/26/2008	-17.02	-17.4	-0.38		-22.48	-21.94	0.54
12/30/2008	-15.27	-15.05	0.22		-20.3	-19.42	0.88
1/30/2009	-15.04	-14.86	0.18		-19.45	-19.09	0.36

Date	MAFB-320	MAFB-430	Head Difference		MAFB-180	MAFB-435	Head Difference
3/11/2009	-13.71	-12.98	0.73		-19.03	-17.41	1.62
4/8/2009	-15.27	-14.26	1.01		-20.58	-19.1	1.48
5/18/2009	-17.43	-17.66	-0.23		-22.86	-22.2	0.66
5/29/2009	-19.78	-20.48	-0.70		-24.25	-24.09	0.16
6/19/2009	-21.56	-23.3	-1.74		-25.87	-27.53	-1.66
7/15/2009	-23.97	-27.19	-3.22		-28.73	-30.6	-1.87
8/16/2009	-25.86	-30.95	-5.09		-30.68	-32.49	-1.81
9/8/2009	-25.38	-31.02	-5.64		-29.69	-31.91	-2.22
10/6/2009	-22.26	-26.69	-4.43		-27.42	-27.92	-0.50

Additionally, transducers were installed at the MAFB-180 (Unit D) and MAFB-435 (deep Unit D) well pair in May 2009 to provide continuous water-level data. These results are discussed in Section 6.0.

The sampling plans for the first through fourth quarters of 2009 are presented in Tables 2-3 through 2-6, respectively. The sampling plans list the proposed wells and associated analytes for each quarterly round of sampling. The sampling plans for 2009 were derived from the *2009 Groundwater Monitoring Program Sampling Plan* (MWH, 2009b), and in accordance with the B*asewide Groundwater Monitoring Sampling and Analysis Plan (SAP) for Off-Base Sampling* (Montgomery Watson, 1997f), the *Addendum to the Basewide Groundwater Monitoring SAP for Main Base/SAC Area Performance Sampling – Revision 1* (Montgomery Watson, 2000a), the *Addendum to the Basewide Groundwater Monitoring SAP for Site 7 Performance Sampling* (Montgomery Watson, 1999b), and the *AC&W Site SAP* (Montgomery Watson, 1997b).

Figure 2-1 shows the wells that are monitored in the program. Analytical and water-level data are reviewed quarterly for each monitoring and extraction well in the program. The collection of basewide depth-to-groundwater measurements for potentiometric evaluation transitioned from quarterly to semiannually in 2007; therefore, depth-to-groundwater measurements were collected from each monitoring point during the second and fourth quarters of 2009. Additional water-level measurements were collected as necessary to determine horizontal and vertical gradient patterns in sensitive areas of the monitoring programs. Contaminant concentrations and groundwater elevations are used to evaluate extraction well performance and capture, plume migration, and groundwater flow direction. Decisions concerning sampling frequency are

based on the quarterly analytical results. The sampling frequency decision logic is presented in the Groundwater Monitoring Decision Tree (Figure 2-2). A detailed discussion regarding the Groundwater Monitoring Decision Tree is presented in the 2006 GWMPER (MWH, 2007a). The Extraction Well Shutdown Decision Tree (Figure 2-3) provides the logical criteria used to determine when an extraction well is taken off line. Analytical results are discussed in more detail in the sections on performance monitoring (Sections 3.0 to 7.0), and results from the last eight sampling rounds including fourth quarter 2009 are presented in Appendix A.

Quarterly groundwater sampling events at Mather generally occur in January, April, July, and October of each year. Generally, each quarter begins with sampling the off-base locations and far margins of the plume and working inward to the plume source areas (i.e., beginning with lowest concentration areas and working to higher concentration areas).

2.1.1 First Quarter

Sample Collection. Groundwater samples were collected from 92 monitoring points (including monitoring wells, piezometers, extraction wells, and treatment systems; Table 2-3) during first quarter 2009. Scheduled samples were not collected from the following dry wells: MAFB-083, -112, -140, and -183. MAFB-083 and MAFB-183 were decommissioned in May 2009. In addition, the scheduled sample was not collected from off-base supply well OFB-55 (Westporter) because the well was off line.

2.1.2 Second Quarter

Gauging. The depth to groundwater was gauged at 650 monitoring points (including monitoring wells, piezometers, extraction wells, and biovent wells with submerged screens) from 6 to 8 April 2009. The number above includes dry wells that were gauged to monitor potential water-level rise. Groundwater elevation calculations are listed in Table 2-2.

Sample Collection. The second-quarter sampling event is the annual sampling round at Mather and includes sampling wells that have biennial, annual, semiannual, and quarterly monitoring frequencies. Groundwater samples were collected from 444 monitoring points during second quarter 2009 (Table 2-4). Scheduled samples were not collected from the following dry wells in second quarter 2009: ACW PZ-07, -08, -09, -10, MAFB-121, -123, -130, -160, -197, and MBS

EW-3A. Scheduled samples were also not collected from the following wells: MAFB-105 (well is capped and part of an SVE system), MAFB-360 (a rock is lodged in the well and prevents access), MB-3 (well was off line), OFB-03 (owners did not grant the Air Force permission to collect a sample), OFB-08 (the pump in the well was broken) and OFB-55 (well was off line). Well MAFB-360 was video logged in 2008 to confirm the presence of the rock and an attempt was made to dislodge the rock using a diamond drill bit. However, the bit repeatedly slid off the rock and the rehabilitation efforts were discontinued due to concern that the bit would damage the well casing. Dry wells that were to be sampled should the water table rise sufficiently were retained on the sampling schedule. Such a rise was not expected in several wells, and 25 monitoring wells that were on the sampling schedule were decommissioned in 2009 after years of being dry (Section 2.4).

2.1.3 Third Quarter

Sample Collection. Groundwater samples were collected from 85 monitoring points (Table 2-5) during third quarter 2009. Scheduled samples were not collected from MAFB-140 (well was dry) and OFB-55 (well was off line).

2.1.4 Fourth Quarter

Gauging. The depth to groundwater was gauged at 598 monitoring points over a 72-hour period from 6 to 8 October 2009. The reduction in the number of monitoring points gauged from second to fourth quarter 2009 is due to the decommissioning of 44 groundwater monitoring wells and 8 injection wells in May 2009 (Section 2.4). Groundwater elevation calculations are listed in Table 2-2. Wells that were dry or were inaccessible during the fourth-quarter 2009 gauging event are also shown in Table 2-2.

Sample Collection. Groundwater samples were collected from 113 monitoring points (Table 2-6) during fourth quarter 2009. Scheduled samples were not collected from the following dry wells in fourth quarter 2009: 7-PZ-37, MAFB-112, and MAFB-140.

2.2 EVALUATION OF POTENTIOMETRIC MONITORING AT MATHER

The following sections identify and briefly discuss groundwater elevation trends across Mather. Groundwater elevation contour maps were prepared for the water table and the potentiometric surfaces of HSG units B and D (Figures 2-4 through 2-6). These maps are used to interpret groundwater gradients and flow directions and to compare them to previous quarterly results. For reference, the HSG units are presented on Figure 1-3, which conceptualizes the stratigraphy north of the runways, from the shallowest saturated deposits (Unit A) through the deepest aquifer unit currently monitored at Mather (LMT Zone). Appendix B contains hydrographs of second-quarter groundwater elevations at selected monitoring wells from 1990 through 2009. Also included in Appendix B are historical groundwater elevations of wells in the region surrounding Mather with data back to 1977. Additionally, regional groundwater elevation data were documented as early as 1912 (Bryan, 1923). The plots in Appendix B depict the general regional decline in groundwater levels.

The objective of this section is to provide an overview of the potentiometric trends in groundwater across Mather. Separate sections of this report cover specific areas of interest (i.e., NEP, LF Areas, Main Base/SAC Area Plume, AC&W Plume, Site 7 Plume, and Off-Base supply wells) as needed to support evaluation of the remedial performance.

2.2.1 Water-Table Unit

The water table at Mather occurs in Unit A, Unit B, or Unit C. Figure 2-4 presents the second- and fourth-quarter 2009 groundwater elevation contours for the water table. The average horizontal component of the groundwater gradient at the water table across Mather (outside the apparent effects of pumping) for the second and fourth quarters of 2009 is approximately 0.003 foot per foot (ft/ft), the same as the average gradient observed during 2008. The regional horizontal gradient in the water-table unit is generally oriented toward the southwest. As in previous years, remedial pumping from the Main Base/SAC Area extraction wells at the water table and in shallow Unit B produces a large depression, or trough, in the potentiometric surface that extends roughly 7,000 to 8,000 feet along the northwestern base boundary, into which local groundwater flows are diverted. Local mounding also is evident in 2009, such as the ridge centered on wells MAFB-450 and -259 southwest of the end of the runway. This is likely the result of groundwater mounding due to infiltration from the siltation ponds.

The overall regional decline in water-table elevation continues, despite a period of relative stability or slight increase in water levels observed from approximately 2005 through 2008 in the northeastern, northern, and western portions of Mather (Appendix B, Figures 6, 7, 8, 10, and 11). The temporary increasing trends are likely the result of regional changes in the patterns of groundwater extraction and recharge, and are not attributed to changes in operation at Mather. The continued overall water-level declines have left many wells dry and these wells are no longer useful for evaluating groundwater quality. Appendix J contains a list of wells that were dry during at least one quarter of 2009.

2.2.2 Units B and C

Figure 2-5 shows groundwater potentiometric surface contours for Unit B during the second and fourth quarters of 2009. It should be noted that the water table occurs in Unit C in the AC&W and Site 7 areas and in landfill areas east of the Main Base/SAC Area Plume. The Unit B surface includes potentiometric data from AC&W and landfill area wells with screens placed about 10 to 40 feet below the water-table surface. These landfill and AC&W wells monitor the upper and lower portions, respectively, of the Lower Unit of the Laguna Formation (Unit C). The average horizontal component of the gradient in Unit B across Mather (outside the apparent effects of pumping) in both the second and fourth quarters was approximately 0.002 ft/ft, the same as the average gradient observed during 2008. The potentiometric surface contours for the fourth quarter are generally consistent with second quarter 2009. Groundwater in Unit B generally flows southwest with local deviations near extraction wells associated with the Site 7, AC&W, and Main Base/SAC Area treatment systems.

2.2.3 Unit D

The groundwater potentiometric surface contours for Unit D for second and fourth quarter 2009 are presented on Figure 2-6. The average groundwater gradient in Unit D across Mather (apart from local cones of depression) is approximately 0.002 ft/ft, the same as the average gradient observed during 2008. The groundwater contours for the fourth quarter are consistent with the second quarter of 2009. Groundwater in Unit D generally flows west and southwest, with local deflections toward extraction wells screened in Unit D as part of the Main Base/SAC Area Plume remedy. The westernmost cone of depression in Unit D water levels on Figure 2-6 is

centered on MAFB-327 and represents the influence of the Moonbeam supply well on Unit D water levels.

The top portion of Figure 2-7 shows groundwater potentiometric surface contours for deep Unit D and LMT wells. There are relatively few wells that monitor the deep Unit D and LMT aquifer units, and most of these are limited to the Main Base/SAC Area. However, there are clusters of wells in the vicinity of the Moonbeam supply well (MAFB-345, -349, -349Dd, and -350), and deep wells monitoring the toe of the Off-Base plume (MAFB-353, -387Dd, and -388Dd) that were used to generate this potentiometric surface. Two cones of depression along the northern and western boundaries of the potentiometric surface represent the influence of the Mars and Moonbeam supply wells, respectively. Groundwater mounding occurs due to the injection of treated water from the Main Base/SAC treatment system in the vicinity of injection wells MBS IW-501 through -504).

The lower portion of Figure 2-7 was created by subtracting the Unit D potentiometric surface from the deep Unit D and LMT potentiometric surface, with positive values representing upward gradients and negative values representing downward gradients. Upward gradients (from deeper Unit D and the LMT toward shallower Unit D) are induced along a large portion of the axis of the Main Base/SAC Area Unit D plume as a result of pumping at MBS EW-1D, -2D, -3D, -5D, and -6D. Groundwater injection at the MBS IW-series wells in conjunction with pumping from MBS EW-1D creates a relatively large area of strong upward vertical gradients in this area. Upward hydraulic gradients prevent the Unit D plume from migrating deeper into the aquifer. A more detailed discussion of vertical gradients in Capture-Zone Analysis (CZA) Area 1 (MWH, 2007b and Appnedix M of MWH, 2009e) is provided in Section 6.

2.3 MONITORING WELL MAINTENANCE

The following section describes maintenance tasks performed on groundwater monitoring wells throughout the 2009 calendar year. The maintenance tasks performed during 2009 included resurveying due to surface completion modifications, replacement of well boxes, replacing pumps, installation of passive diffusion bags, and redevelopment of wells. Due to construction activities on and off base, a number of groundwater monitoring well surface completions were compromised and needed to be restored. For all instances where a groundwater monitoring well was resurveyed and a new reference datum was obtained, the new datum was registered into

the project database. The new datum will be used from the time that the old datum changed for all calculations of groundwater elevation. A brief summary of groundwater monitoring well maintenance is provided below. The complete list of groundwater monitoring well maintenance performed during 2009 can be found in Table 2-7.

Groundwater samples at Mather are collected using either a (1) low-flow sampling pump, (2) purge-and-sample method, or (3) passive diffusion-bag sampling method. Where the low-flow method is used, groundwater monitoring wells at Mather are outfitted with a dedicated bladder pump constructed exclusively of Teflon™ and stainless steel parts. Groundwater is pumped to the surface through dedicated Teflon™-lined discharge tubing. Bladder pumps used at Mather were manufactured by QED or Geolog (formerly Geoguard).

Bladder pumps in many of the groundwater monitoring wells at Mather have begun to fail. Bladder pump failure has been attributed to four problems that have been observed during monitoring activities: (1) water infiltration into the air delivery line, (2) check valve wear, (3) torn or separated bladders, and (4) improper attachment of water or air delivery lines. When water infiltrates the air delivery line, two technicians remove the bladder pump from the groundwater monitoring well to extract water from the air supply line. This operation involves manually lifting the pump and associated tubing out of the groundwater monitoring well and placing it on a plastic sheet. The water is driven out of the line with compressed air, and the pump is replaced in the groundwater monitoring well. It is unclear how water enters the air delivery line, but it is suspected that bad seals in the bladder pump or delivery line (flush mounts only) may be possibilities. Bad check valves are indicated when groundwater can be brought to the surface, but then drops back down during each pumping cycle.

If groundwater cannot be purged using the bladder pump, the problem is resolved as soon as possible so the scheduled groundwater samples can be collected. However, if the pump is not repairable, the well is evaluated for passive diffusion-bag sampling. Diffusion sampling requires adequate groundwater in the screened interval (submergence of the bag by a minimum of 2 feet) and may only be used when analytical requirements are limited to VOCs. If diffusion sampling is not compatible with a well's sampling requirements, then the pump is replaced. Table 2-7 lists all wells that were converted to diffusion sampling during 2009.

2.4 GROUNDWATER WELL DECOMMISSIONING

In May 2009, a total of 44 groundwater monitoring and 8 groundwater injection wells were decommissioned at Mather. Table 2-8 summarizes all decommissioned and temporarily abandoned wells at Mather through fourth quarter 2009.

The groundwater monitoring and injection wells were decommissioned by pressure grouting. Well decommissioning was performed in accordance with the California standards for water well destruction and Sacramento County Code Chapter 6.28. Well casing perforation was not performed because the annular space at all of the wells was sealed with grout from the top of the filter pack at the screened interval to ground surface. Each casing, including the filter pack pore space, was completely filled from bottom to top with neat cement grout. The cement grout was prepared by mixing Type I-II Portland cement and water at a ratio of one 47-pound sack of Portland cement to 3.25 gallons of water. No grout additives such as bentonite were used. At each well location, the neat cement grout was applied by tremie pipe under pressure in one continuous grouting operation, with the tremie pipe placed at a depth 5 to 10 feet from the bottom of the well casing.

After grouting each well, the upper portion of the well was excavated or overdrilled (with an auger that was a minimum of 8 inches in diameter larger than the original borehole) to a depth of approximately 5 feet bgs. In case of excavation, the well casings were cut off and removed after soil was excavated to 5 feet bgs. A 2-foot-thick ready mix cement cap was poured at the bottom of each excavation or overdrilled hole to form a cap over the well. The remainder of the excavation or overdrilled hole was backfilled with native soils or appropriate fill as necessary to match surrounding surface conditions. Aboveground infrastructure directly associated with each well was removed, including any bollards, concrete well pads, fences and fence posts, piping, ‘stovepipe’ protective casing, and/or controller panels. Surface restorations were completed to match surrounding conditions, including County and/or airport requirements. For the injection wells, the conveyance piping and any electrical or fiber-optic conduits were cut and sealed with a 2-foot cement grout, after electrical or communication lines were pulled/pushed back about 2 feet from the end of the pipe to facilitate placement of a grout plug. Well decommission report forms for all of the wells decommissioned in May 2009 are presented in Attachment 1 of the *Final Letter Report for Basewide Well and System Decommissioning* (MWH, 2009c).

One additional groundwater monitoring well, MAFB-299, was decommissioned in 2009. MAFB-299 had been damaged by mining activities; the casing was damaged at approximately 20 feet bgs and could not effectively be repaired. MWH, AFRPA, and the County of Sacramento Environmental Management Department concluded the groundwater monitoring well screen and filter pack were located in a single water-bearing unit and due to the circumstances the well was approved to be decommissioned under the Sacramento County Code Chapter 6.28. MAFB-299 was decommissioned on 13 November 2009. The well was overdrilled with an 11.5-inch ARCH drill bit and 12-inch casing to a depth of 25 feet bgs. The overdrilled bore hole was backfilled with neat cement grout. The cement grout was prepared by mixing thirty two 50 pound bags of Type I-II Portland cement and water at a ratio of one 50 pound bag of Portland cement to 3.25 gallons of water. Approximately 25.13 cubic feet of neat cement grout were tremied into the overdrilled section of the well. No grout additives such as bentonite were used.

2.5 SITE 20 PHTHALATE MONITORING

Groundwater monitoring well MAFB-440 was installed in third quarter 2008 to monitor for phthalates in groundwater at Site 20. Site 20 cannot be closed until four consecutive quarters of groundwater monitoring show that phthalates are not detected, MAFB-440 was installed as a dual-completion well, with the upper completion (MAFB-440P) screening a perched-water zone from approximately 25 to 15 feet above msl and the lower completion (MAFB-440) screening the water table from -15 to -30 feet msl. Phthalates were not detected in groundwater samples collected from MAFB-440 and MAFB-440P in third and fourth quarter 2008 and first and second quarter 2009. Sampling for phthalates from these wells was discontinued after second quarter 2009 because the criterion of four consecutive quarters without a detection had been met.

2.6 PRODUCTION WELL STATUS

The following tables present the operating status and production volumes (in millions of gallons) of selected Sacramento County Water Agency (SCWA) and California American Water Company (Cal Am) production wells in the vicinity of Mather (i.e., the area within the domain for the Main Base/SAC Area groundwater model) for 2009.

SCWA PRODUCTION WELL TOTALS

Well Name (SCWA)	Jan 2009 (MG)	Feb 2009 (MG)	Mar 2009 (MG)	Apr 2009 (MG)	May 2009 (MG)	Jun 2009 (MG)	Jul 2009 (MG)	Aug 2009 (MG)	Sep 2009 (MG)	Oct 2009 (MG)	Nov 2009 (MG)	Dec 2009 (MG)	Total (MG)
Branch Center System (combined production totals)													
Juvenile Hall 1 (OFB-51) Juvenile Hall 2 (OFB-52)	2.0655	1.6668	1.6087	3.3147	5.7589	4.8852	6.4000	6.6975	4.3929	2.3590	0.9637	0.9323	**41.0452**
Mather System													
Main Plant (MB-1)	--	--	--	--	--	--	--	--	--	--	--	--	--
Norden (MB-2)	--	--	--	--	--	--	--	--	--	--	--	--	--
Bleckley (MB-3)	--	--	--	--	--	--	--	--	--	--	--	--	--
Femoyer (MB-4)	0.010	0.007	0.063	0.013	0.008	0.026	--	0.034	0.015	--	--	0.021	**0.197**
Mather (FH-1)	1.925	0.930	0.904	2.070	4.402	8.583	15.000	9.086	5.405	0.524	0.294	1.885	**51.008**
Branch (FH-3)	--	--	--	--	--	--	--	--	--	--	--	--	**--**
Kurtz (FH-4)	1.282	0.758	0.830	2.002	1.931	4.757	7.275	4.299	3.355	0.287	0.256	0.894	**27.926**
McRoberts (FH-5)	0.662	0.819	0.727	1.996	1.789	4.057	7.108	3.972	1.965	--	--	--	**23.095**
Plant (FH-6)	1.132	0.675	0.833	1.841	2.085	4.102	7.146	3.821	3.623	0.655	0.015	0.765	**26.693**
Totals	**5.011**	**3.189**	**3.357**	**7.922**	**10.215**	**21.525**	**36.529**	**21.212**	**14.363**	**1.466**	**0.565**	**3.565**	**128.919**

Notes:
System monthly reporting periods range from 26 to 35 days.

-- No flow for period
MG – million gallons
SCWA – Sacramento County Water Agency

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CAL AM PRODUCTION WELL TOTALS

Well Name	Jan 2009 (MG)	Feb 2009 (MG)	Mar 2009 (MG)	Apr 2009 (MG)	May 2009 (MG)	Jun 2009 (MG)	Jul 2009 (MG)	Aug 2009 (MG)	Sep 2009 (MG)	Oct 2009 (MG)	Nov 2009 (MG)	Dec 2009 (MG)	Total (MG)
Branch Center System (combined production totals)													
Southport (OFB-54)	13.042	18.850	16.017	21.640	19.534	18.976	19.964	19.455	15.402	11.550	3.377	0.299	**178.106**
Sutters Gold (OFB-61)	19.829	6.772	10.601	3.671	2.380	5.296	11.399	5.795	1.947	23.482	2.581	20.974	**114.727**
Tally Ho 1 (OFB-58)	0.015	--	0.052	0.085	0.001	0.634	0.086	0.002	0.017	0.025	0.015	--	**0.932**
Tally Ho 2 (OFB-56)	0.008	0.049	31.355	52.369	56.015	53.177	54.616	54.208	51.382	53.143	50.509	27.187	**484.018**
Westporter (OFB-55)	--	--	--	--	--	--	--	--	--	0.040	0.022	0.049	**0.111**
Wildrose (OFB-63)	24.717	23.648	4.887	14.592	13.345	14.030	17.041	16.150	10.698	2.540	12.625	8.737	**163.010**
Chettenham (OFB-66)	--	--	7.092	11.166	13.212	9.082	16.416	7.603	9.866	0.028	0.041	0.084	**74.590**
Gould (OFB-31)	11.223	8.883	13.387	16.457	20.985	24.673	28.184	9.915	7.875	28.383	16.302	0.013	**186.280**
Mars (OFB-27)	20.385	13.126	20.379	21.401	21.683	20.696	19.846	20.563	19.205	9.161	15.373	14.302	**216.120**
Moonbeam (OFB-04)	26.205	22.587	15.713	25.736	8.374	10.204	8.397	25.777	24.902	22.489	7.939	16.839	**215.162**
Nut Plains (OFB-32)	--	1.888	7.385	11.282	31.724	37.818	38.037	38.353	28.808	0.285	4.489	1.212	**201.281**
Oaken Bucket (OFB-49)	0.015	--	0.071	0.081	13.900	16.459	27.797	11.397	3.873	0.216	0.328	0.067	**74.204**
Rockingham (OFB-35)	20.739	18.891	20.754	20.223	20.812	20.156	20.044	20.079	19.637	19.570	18.923	19.527	**239.355**
Countryside (OFB-65)	1.400	1.349	1.757	0.000	2.109	16.711	30.423	34.088	31.416	15.317	0.050	0.021	**134.641**
Caldera (OFB-70)	0.009	0.084	0.314	0.063	29.366	53.155	68.886	67.263	60.606	2.101	0.840	0.000	**282.687**
Montezuma (OFB-71)	0.015	0.021	0.036	0.048	0.039	0.018	0.021	0.036	0.019	0.015	0.000	0.000	**0.268**
Totals	**137.60**	**116.15**	**149.80**	**198.81**	**253.48**	**301.09**	**361.16**	**330.68**	**285.65**	**188.35**	**133.41**	**109.311**	**2,565.49**

Notes:
MG – million gallons
-- No flow for the period

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3.0 LANDFILL POSTCLOSURE AND NORTHEAST PLUME MONITORING PROGRAM

Evaluation of fourth quarter and annual 2009 data for the landfill postclosure and NEP monitoring programs is presented in the following sections. The landfill postclosure programs and the NEP monitoring program are described in Tables 3-1 and 3-2, respectively. Analytical detections in these programs are summarized in Tables 3-3 through 3-5. Section 3.1 provides information on the 2009 status, as well as a summary of the regulatory framework for these monitoring programs. Section 3.2 provides a summary of the hydrogeologic conceptual model for the NEP. Sections 3.3 and 3.4 provide analyses of VOC and non-VOC monitoring results, respectively. Section 3.5 provides recommendations for future NEP monitoring.

3.1 REGULATORY AND STATUTORY FRAMEWORK FOR CURRENT MONITORING PROGRAMS

The status of the landfill postclosure and the NEP groundwater monitoring programs are described in Sections 3.1.1 and 3.1.2, respectively. A description of Applicable or Relevant and Appropriate Requirements (ARARs) for these programs, and how these ARARs affect the current and future status of the monitoring programs, is provided in Section 3.1.3. This section provides a description and framework for current monitoring programs.

3.1.1 Landfill Postclosure Monitoring Programs

The Air Force conducts monitoring programs at three closed and capped landfill sites, LF03, LF04, and WP07. The remedial action construction activities have been completed at these sites, and the landfills currently contain waste under engineered caps constructed as part of the remedial action for each site. The groundwater component of the selected remedies for these closed landfills is postclosure monitoring under the Landfill Operable Unit (OU) for sites LF03 and LF04 (AFBCA, 1995), and under the Soils OU for Site WP07 (AFBCA, 1996). Specific postclosure monitoring requirements for LF03 and LF04 are outlined in the *Closure and Post-Closure Maintenance Plan for the Landfill Operable Unit* (Montgomery Watson, 1996) and for WP07 in the *Closure and Post-Closure Maintenance Plan for the Engineered Cap at Remedial Action Site 7* (Montgomery Watson, 1999c). These plans identified specific postclosure

monitoring wells, and provided the initial sampling frequencies and analytical parameters for postclosure monitoring. Final addendum pages comprising updates to the post-closure maintenance plans were submitted on 24 March 2010. Changes in wells designated as postclosure landfill monitoring wells for all three sites due to changing site conditions (e.g., declining water levels) have been based on Remedial Project Manager (RPM) approval of recommendations presented in the annual groundwater monitoring reports, or in the annual sampling plan documents. Changes to sampling frequencies for landfill wells are based on water-quality results and trends relative to background concentrations for non-VOCs. For non-VOCs, detections above the 95% UTL background concentrations may trigger sample frequency changes through an evaluation monitoring program unless results are judged to be essentially compatible with background and compatible with historical results. Sampling frequencies for VOC analysis are more stringent and dictated by the Groundwater OU remedial actions for the NEP or Site 7 Plume, and the detection monitoring requirements required by the Landfill OU remedies. Sampling frequencies are assessed once per year and presented in the annual Groundwater Monitoring Sampling Plan. Sampling frequencies for 2009 were presented in the 2009 Groundwater Monitoring Program Sampling Plan (MWH, 2009b).

The 2009 groundwater monitoring program for the landfills is presented in Table 3-1. During 2009, samples were collected from 23 out of 25 of the groundwater wells scheduled for sampling and used to monitor postclosure performance of closed Landfills LF03, LF04, and WP07 (Figure 2-1, Table 3-1). Groundwater sampling occurred as scheduled, with the following exceptions:

- Well MAFB-183 (Site 7) was scheduled for annual metals sampling in 2009. However, in accordance with the recommendation presented in the 2008 report (MWH, 2009e), MAFB-183 was decommissioned without additional sampling.
- Piezometer 7-PZ-37 (Site 7) was scheduled for quarterly VOC, total petroleum hydrocarbons (TPH), and metals sampling in 2009. However, the well was not sampled in October 2009 because it was dry.

3.1.2 NEP Monitoring Program

The 2009 groundwater monitoring program for the NEP is presented in Table 3-2. The NEP consists primarily of PCE and cis-1,2-dichloroethene (DCE) and is located in the northeastern portion of Mather (Figure 3-1). The extent of the plume with concentrations above Record of

Decision (ROD) cleanup levels (5.0 micrograms per liter [µg/L] for PCE and 6.0 µg/L for cis-1,2-DCE [AFBCA, 1996]) is restricted to the landfill areas (Figure 3-1 and Figure 2-1). The highest VOC concentrations in the NEP and the apparent source areas for the plume are in the vicinity of LF03 and LF04. Accordingly, near-source NEP monitoring wells selected as part of the NEP monitoring program include many of the postclosure monitoring wells at LF03 and LF04 (Table 3-2).

3.1.3 Applicable or Relevant and Appropriate Requirements – Groundwater Monitoring

The ARARs cited in the RODs governing groundwater monitoring for both the NEP (AFBCA, 1996) and the landfill postclosure monitoring programs (AFBCA, 1995; AFBCA, 1996) include portions of Title 23, Division 3, Chapter 15, Article 5 of the California Code of Regulations (CCR), which describes groundwater monitoring programs for discharges of hazardous wastes to land. The applicable monitoring programs include detection, evaluation, and corrective action monitoring programs. Detection monitoring programs are designed to provide evidence of any new releases to groundwater of contaminants from landfills. Evaluation monitoring programs are designed to provide data to characterize the nature and extent of any groundwater contamination throughout the zone affected by the release, and to provide data to support a determination of the need for corrective action. Corrective action monitoring programs are designed to provide data to evaluate the effectiveness of a prescribed remedial action program.

Title 40 of the Code of Federal Regulations (CFR) Part 258.51, which describes requirements for monitoring systems at municipal solid waste landfills, is also cited in the landfill ROD (AFBCA, 1995) as being an ARAR for LF04. Part 258.51 of 40 CFR specifies that groundwater monitoring systems must be installed that consist of a sufficient number of wells, installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer that (1) represent the quality of background groundwater that has not been affected by leakage from a unit, and (2) represent the quality of groundwater passing the relevant point of compliance specified by the Director of an approved state under CFR Part 258.40(d), or at the waste management unit boundary in unapproved states. Neither the landfill ROD (AFBCA, 1995), nor the *Closure and Post-Closure Maintenance Plan for the Landfill Operable Unit* (Montgomery Watson, 1996) specify a relevant point of compliance for water quality monitoring at the landfills. However, compliance points for groundwater monitoring are typically and appropriately

considered to be located on or near the line formed by the intersection of the vertical plane(s) passing through the downgradient landfill boundaries with the water table. Point-of-compliance wells are defined as water table wells installed along or nearest the downgradient landfill boundaries. In this case, these are the downgradient landfill boundary wells that fulfill detection monitoring requirements at landfills LF03, LF04, and WP07. These include boundary wells MAFB-398 and -133 at LF03, MAFB-132 and -136 at LF04, and wells 7-PZ-37, 7-PZ-37P, MAFB-149, -284, -413, and -424 at WP07.

The landfills are known or suspected sources for VOC groundwater contamination for the NEP and the Site 7 Plume. Remedial actions have been selected for both these VOC plumes. As such, the requirements for corrective action monitoring for VOCs in groundwater plumes beneath LF03, LF04, and WP07 are fulfilled under the monitoring requirements of the Groundwater OU remedial actions (AFBCA, 1996).

The selected remedy for the NEP is long-term monitoring. Accordingly, the NEP monitoring program (the performance monitoring program) is the corrective action monitoring program for the remedy. The ROD states the following: *"Monitoring will be conducted pursuant to Title 23, CCR, Section 2550.10 (Corrective Action Monitoring) for at least one year from the date that [cleanup levels] are attained."* (AFBCA, 1996). As of 2009, cleanup levels had not been attained for all COCs. Concentrations of COCs identified for the NEP above cleanup levels in 2009 were restricted to wells MAFB-132 (cis-1,2-DCE and PCE), MAFB-133 (PCE), MAFB-136 (cis-1,2-DCE and PCE), and MAFB-398C (cis-1,2-DCE), but historically have included other downgradient wells. This is discussed in more detail in Section 3.3.

Monitoring for new VOC releases from the landfills is also required under detection monitoring requirements per the ARARs. Detection monitoring under the landfill postclosure monitoring programs at LF03 and LF04 began in the fourth quarter of 1996; postclosure monitoring at WP07 began in the second quarter 2001. As such, VOC monitoring near the landfills satisfies the dual requirements for detection and corrective action monitoring for VOCs. Detection and/or evaluation monitoring for non-VOCs is also part of the postclosure monitoring programs at LF03, LF04, and WP07. Non-VOCs (including inorganics) are discussed separately in relation to postclosure monitoring requirements under the Chapter 15 ARARs. The monitoring objectives of the non-VOC postclosure monitoring programs at LF03, LF04, and WP07 include the following:

- Monitor for potential new releases of non-VOCs to determine if the landfills are a source of non-VOC water quality impairment (detection monitoring).
- Evaluate the extent and migration of the contaminants for any contaminants detected above background values (evaluation monitoring).

Calculated upper background range concentrations for metals and general mineral constituents for Northeast Perimeter Landfills LF03 and LF04 are discussed in Section 3.4 and presented in Tables 3-6 and 3-7, respectively. Calculated upper background concentrations for metals in the groundwater near WP07 are also discussed in Section 3.4 and presented in Table 3-8.

The Air Force recognizes that VOC corrective action monitoring under the NEP and WP07 monitoring programs does not eliminate the need for continued detection monitoring at a minimum frequency of at least once every 5 years at LF03, LF04, and WP07 to monitor for potential new releases of VOCs. The requirements for VOC detection monitoring are fulfilled under the VOC monitoring program specified for downgradient landfill boundary wells at LF03, LF04, and WP07. Specifically, VOC monitoring in 2009 was conducted at LF03 boundary wells MAFB-398, -398C, and -399 semiannually, and at MAFB-133 on a quarterly basis. VOC monitoring in 2009 was conducted at LF04 boundary wells MAFB-132 and -136 quarterly, and at MAFB-400 semiannually. VOC monitoring in 2009 was conducted at WP07 boundary wells 7-PZ-37 (first three quarters only), 7-PZ-37P, MAFB-149, -284, -413, and -424 quarterly, and at 7-BV-13 and MAFB-044 semiannually (Table 3-1).

The sections below discuss monitoring results for VOCs and non-VOCs. Analytical results from the last 2 years are presented in Appendix A. Section 3.3 is subdivided to provide discussions of VOC results for the NEP under the NEP monitoring program and the landfill postclosure monitoring programs. VOC results in wells sampled under the WP07 (Site 7) postclosure detection monitoring program are discussed in Sections 3.3 and 5.0. Section 3.4 provides a discussion of non-VOC results, including a discussion of calculated upper-background-range values for metals and general mineral constituents for the landfill monitoring programs, and a comparison of results for these constituents observed during 2009.

3.2 HYDROGEOLOGIC CONCEPTUAL MODEL

This section presents a summary of the hydrogeologic conceptual model for the NEP, which is discussed in detail in the 2008 annual report (MWH, 2009e). Since about 2005, the water table beneath the landfills has been at or just below the base of the Middle Unit of the Laguna Formation (Unit B), within the overbank deposits of the Lower Unit of the Laguna Formation (Unit C). Since 2005, the only areas where VOCs in the NEP have exceeded cleanup levels are beneath and immediately downgradient of the landfills, where declining water levels have resulted in the occurrence of dissolved-phase contaminants being restricted to the very fine-grained overbank deposits of Unit C. These overbank deposits form an approximately 130-foot-thick aquitard between the Unit B sands and the uppermost transmissive channel deposits of the LMT zone. The aquitard limits the downward movement of contaminants through the Lower Unit of the Laguna Formation despite downward gradients in the upper portion of the saturated zone. Because of the relatively low hydraulic conductivity of the overbank deposits, significant or rapid lateral or vertical movement of the NEP maximum contaminant level (MCL) volume is unlikely; less dilution may occur in the aquifer, resulting in a smaller but potentially more highly concentrated plume than in the past.

The overall groundwater gradient is from northeast to southwest; however, local groundwater gradient directions south of LF03 near MAFB-133 and -111, and south-southwest of LF04 near MAFB-399, -113, and -112 are consistently to the south. The overall orientation of the NEP is northeast-southwest (Figure 3-1) despite the consistent southerly groundwater gradient near the landfills. Contaminant transport has historically been aligned with the southwesterly stratigraphic orientation of the lower gravel layer of Unit B in this area.

3.3 VOC MONITORING RESULTS

Groundwater samples collected from wells that monitor the NEP and Site 7 are analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method SW8260B. The following subsections present the fourth quarter 2009 monitoring results for VOCs for those wells sampled under landfill postclosure monitoring requirements. These results therefore pertain to VOC contaminant distribution associated with the NEP (relevant to the LF03 and LF04 postclosure programs) or the Site 7 Plume (relevant to the WP07 postclosure program). Section 3.3.1 presents results for the NEP, and Section 3.3.2 presents results for the

postclosure monitoring programs for Landfills LF03, LF04, and WP07. NEP VOC results are presented graphically on Figure 3-1, a map view of the concentrations of PCE and cis-1,2-DCE above cleanup levels at the water table.

3.3.1 NEP Monitoring – VOCs

PCE and cis-1,2-DCE are the two COCs identified in the ROD for the NEP that have been consistently detected above cleanup levels. The NEP isoconcentration contours (PCE and cis-1,2-DCE) for the water table, together with the water-table surface elevation contours as interpreted through the fourth quarter of 2009, are presented on Figure 3-1.

As in previous years, PCE concentrations at or above the cleanup level of 5.0 µg/L were restricted to the area in the vicinity of MAFB-132 and -136 in the fourth quarter of 2009 (Figure 3-1). The maximum PCE concentration detected in 2009 from any NEP monitoring well was 20 µg/L in well MAFB-132 during the fourth quarter of 2009. PCE concentrations observed during 2009 in well MAFB-132 (ranging from 14M to 20 µg/L) showed no discernible trend, fluctuating within the same range as concentrations observed over the past 5 years. PCE concentrations have fluctuated around the cleanup level in wells MAFB-133 and -136 since about the fourth quarter of 2003. PCE concentrations exceeded the cleanup level at MAFB-133 in the third quarter of 2009, but concentrations were below the cleanup level in the samples collected during the first, second, and fourth quarters. The PCE concentrations in MAFB-136 in 2009 (5.3 to 8.2 µg/L) was within the range of historical concentrations at the well (up to 15 µg/L). See Appendix C for a history of PCE concentrations in NEP wells.

Consistent with historical data, cis-1,2-DCE was detected at concentrations above the cleanup level (6.0 µg/L) at shallow wells MAFB-132 and -136 in 2009 (Figure 3-1). The general distribution of cis-1,2-DCE has historically corresponded to the extent of PCE contamination in the NEP. The maximum concentration of cis-1,2-DCE detected in 2009 from any NEP monitoring well was 23 µg/L in well MAFB-132 during the fourth quarter of 2009. The cis-1,2-DCE concentrations in well MAFB-132 appear to have stabilized during 2009 after declining from 34 µg/L in the second quarter of 2006. Similar to PCE, 2009 concentrations of cis-1,2-DCE in MAFB-136 (5.2 to 6.4 µg/L) were within the historical range for this well (up to 7.9 µg/L). There were no significant changes in the concentration of cis-1,2-DCE in the deeper C-zone well MAFB-400, indicating there is no significant downward migration at this location. However,

cis-1,2-DCE was detected at concentrations of 5.9 and 8.6 µg/L in the 2009 semiannual samples from C-zone well MAFB-398C; this is the first time cis-1,2-DCE has been detected above the cleanup level in the C-zone within the NEP. The upward trend does indicate the potential for downward vertical migration of the plume into Unit C. The Air Force will continue monitoring at this location to determine if upward concentrataion trends continue or whether the detections are the result of a temporary spike. No additional C-zone monitoring wells are proposed at this time.

Other COCs identified in the ROD for the NEP are CCl_4, chloromethane, and 1,2-dichloropropane (DCP). These other COCs have not been detected above aquifer cleanup concentrations except for one carbon tetrachloride detection (MAFB-152 in fourth quarter of 1998) since the remedy was selected in 1996. During the fourth quarter of 2009, 1,2-DCP was detected at a concentration of 0.51F µg/L in well MW-398C, but was below the reporting limit (1 µg/L) during the second quarter 2009. The cleanup level for 1,2-DCP is 5.0 µg/L. Chloromethane and CCl_4 were not detected in the NEP monitoring wells during 2009. Though TCE is not a COC for the landfills, it was detected at 5.1 µg/L in the fourth quarter 2009 sample from well MAFB-132; the MCL for TCE is 5 µg/L. The fourth quarter 2009 TCE result is within the range of historical detections at MAFB-132 (refer to the time-concentration graph in Appendix C).

Although not a COC for the NEP, concentrations of 1,1-DCE have been closely monitored in NEP well MAFB-411, located along the southeastern edge of the runway approximately 1.7 miles southwest of the Northeast Perimeter Landfills (Figure 2-1). During 2007, 1,1-DCE was detected in this well above the MCL of 6.0 µg/L. Concentrations of 1,1-DCE have since decreased; 1,1-DCE was not detected in the single sample collected during 2009. In the vicinity, 1,1-DCE has not been detected in wells upgradient or cross-gradient of well MAFB-411 (MAFB-275, -277, -406, -409, or -412). However, 1,1-DCE has been consistently detected in downgradient well MAFB-424 at concentrations less than 2.0 µg/L. The source for 1,1-DCE detected in groundwater is not known. MAFB-411 will continue to be monitored for further detections until at least four successive results are below 6.0 ug/L.

The nearest drinking water receptor wells where exposure could potentially occur from the NEP are Main Base wells MB-3 and MB-4, located approximately 6,000 feet and 5,000 feet, respectively, from where the plume concentrations are above cleanup levels. Both MB-3 and

MB-4 are screened in deeper aquifer units than where the NEP contaminants are found. Both these wells are off line due to perchlorate detections in supply wells MB-1, MB-2, and MB-3 in 1997. Perchlorate in groundwater is attributed to historical activities at the IRCTS, not to Air Force activity at Mather. Sacramento County kept these wells on standby status in 2009 for emergency water supply and no flow was reported from the wells during 2009.

3.3.2 Landfill Postclosure Monitoring – VOCs

VOCs near the landfill sites at Mather are monitored both to satisfy requirements for performance monitoring for the Groundwater OU remedies and detection monitoring under the Landfill OU (LF03 and LF04) and Soil OU (WP07) remedies. Analytical requirements for all constituents (including VOCs) in landfill monitoring wells are shown in Table 3-1. The following subsections summarize notable results for VOCs with regard to detection monitoring for new releases in each of the three postclosure monitoring programs.

Landfill LF03. Analytical results for samples collected from wells that monitor LF03 are presented in Table A-1, Appendix A. The distribution of VOCs in the vicinity of LF03 is illustrated on Figure 3-1 and discussed in Section 3.3.1, NEP Monitoring. PCE was the only COC with detections above the cleanup level in any LF03 postclosure monitoring well during 2009. PCE was detected at 5.4 µg/L in well MAFB-133 during the third quarter of 2009, which is within the range of historical detections of PCE in this well (Appendix C). PCE concentrations were below the cleanup level in samples collected from well MAFB-133 during the first, second, and fourth quarters of 2009. The concentration of cis-1,2-DCE in the fourth-quarter 2009 sample from well MAFB-398C (8.6 µg/L) represents the first exceedance of the cleanup level for cis-1,2-DCE in any of the deeper C-zone monitoring wells. There were continued minor detections of TCE in several LF03 wells, consistent with historical detections. TCE is not a COC for the landfills, but low concentrations have been detected in historic monitoring in some NEP wells. TCE can be a breakdown product of PCE; the 2009 TCE detections do not indicate a potential new release from the landfill.

Landfill LF04. Analytical results for samples collected from wells that monitor LF04 are presented in Table A-1, Appendix A. The distribution of VOCs in the vicinity of LF04 is illustrated on Figure 3-1 and discussed in Section 3.2.2, NEP Monitoring. PCE concentrations in well MAFB-132 fluctuated during 2009. Concentrations of cis-1,2-DCE were stable at or below

concentrations reported in 2008. The fourth-quarter 2009 TCE concentration in well MAFB-132 (5.1 µg/L) exceeded the MCL (5 µg/L). TCE is not a COC for the landfills, but low concentrations have been detected in historic monitoring in some NEP wells. TCE can be a breakdown product of PCE; the 2009 TCE detections do not indicate a potential new release from the landfill. An overall upward trend in PCE and cis-1,2-DCE is evident in well MAFB-136 since the fourth quarter of 2003 (Appendix C). However, it is unclear whether concentrations observed in 2009 continue this trend. PCE concentrations have declined somewhat from recent higher values observed in the fourth quarter 2008 and first quarter 2009. PCE and cis-1,2-DCE concentrations should continue to be monitored as evidence of potentially continuing VOC contributions to the NEP from LF04.

Dry Wells and Data Quality Objectives. Continued overall decline in water levels has resulted in several NEP or landfill postclosure water-table monitoring wells either becoming dry or soon to become dry. These wells are no longer useful for evaluating groundwater quality. Appendix J contains a list of wells that were dry during at least one quarter of 2009. Assuming continuation of the overall decline in water levels, these wells are not expected to recover. Two upgradient NEP monitoring wells (MAFB-075 and MAFB-110) and one upgradient LF03 postclosure monitoring well (MAFB-130) are dry. In addition, upgradient LF03 postclosure well MAFB-131 had less than 1 foot of water in the screened interval during the fourth quarter 2009 and this well is expected to go dry during 2010. Wells MAFB-075, -110, and -131 are currently on reserve sampling status and MAFB-130 is on a biennial sampling status. None of these upgradient wells are used to define the NEP boundaries and these wells are not being considered for replacement.

Based on current water levels, other wells that are expected to go dry in either 2010 or 2011 include cross-gradient LF-04 well MAFB-140 and downgradient LF03 wells MAFB-111 and -112. Wells MAFB-112 and -140 are currently part of an evaluation monitoring program for nickel as discussed below in Section 3.4. Both wells have had historical detections of nickel above background concentrations. Both wells should be considered for replacement on this basis as the evaluation monitoring requirement specifies at least one crossgradient and one downgradient well from triggering wells.

With respect to VOCs, wells MAFB-111 and -112 are currently on biennial sampling status and both wells had historic PCE detections in 2009 ranging from 1.1 µg/L (MAFB-111) to 0.74 µg/L

(MAFB-112). MAFB-112 is co-located with MAFB-399, a deeper Unit C monitoring well screened 25 feet lower than MAFB-112 in the finer-grained overbank deposits. MAFB-140 is currently on reserve sampling status and historically had only low-level detections of PCE less than 1.0 µg/L. All three of these wells (MAFB -111, -112, and -140) have been used to define the southern boundary of the NEP PCE plume. However, based on the body of historical data, which includes over 10 years of PCE detections below the aquifer cleanup level in wells MAFB-111 and -112, it is not critical to replace any of these wells on the basis of VOC monitoring. However, as a group the loss of these three wells represents the loss of downgradient and cross gradient monitoring for the PCE plume. Given that long-term monitoring is the selected remedy for the NEP, it will be difficult to document the long term success of the remedy without reestablishing some form of downgradient monitoring capacity in the upper portions of the saturated zones. Wells MAFB-112 and -140 will be further evaluated for replacement under the performance-based remediation contract during 2010 and the evaluation will be documented in the 2010 annual groundwater monitoring report.

Landfill WP07. Site 7 is located on the southern side of Mather (Figure 1-2). The sampling frequencies and analytical schedule for the postclosure monitoring program for 2009 are presented in Table 3-1. Like the LF03 and LF04 postclosure programs, sampling for VOCs in these WP07 wells fulfills the dual requirement for detection monitoring for the landfill to identify any new releases, as well as corrective action monitoring for VOCs to monitor the effectiveness of the remedial action for the underlying Site 7 Plume. VOC results for WP07 are discussed in Section 5.1.1, which describes the distribution of the Site 7 Plume.

3.4 NON-VOC MONITORING RESULTS

The following subsections present results for non-VOCs for sampling conducted under the postclosure monitoring programs. These subsections present the calculated background values versus observed concentrations of metals and general mineral constituents at LF03 and LF04, and for metals at WP07.

3.4.1 Northeast Perimeter Landfills – Calculated Background Concentrations for Metals and General Mineral Constituents

Background concentrations for metals and general mineral constituents are presented in Tables 3-6 and 3-7, respectively. Background concentrations were calculated from wells upgradient of the Northeast Perimeter Landfills to determine whether the landfills are contributing significant amounts of these constituents to the groundwater. The background concentration statistics for metals were calculated using the analytical results collected between fourth quarter 1996 through second quarter 2005, and for general mineral constituents through fourth quarter 2005. Background calculations were based on data from wells MAFB-005, -075, -110, and -131. These wells were selected because (1) they are located hydraulically upgradient of LF03 and LF04, (2) they have been sampled for Title 22 metals, and (3) historical data indicate they were not affected by contamination. Wells used to compare to these background concentrations are those listed under the postclosure monitoring programs in Table 3-1 or other NEP monitoring wells listed in Table 3-2.

Based on persistent detections of chromium and/or nickel in wells MAFB-112, -132, and -136, and evaluation monitoring program has been ongoing since the first quarter 2006 at LF04 for these two metals. Wells used in the evaluation monitoring program include MAFB-111, -112, 129, -132, -136, -140, -288, and -400. Results of the evaluation monitoring program are discussed below and presented in Figures 3-2 and 3-3.

The table below is a comparison of analytical results from 2009 for metals versus calculated background values, showing results above background for these constituents in postclosure monitoring wells. Note that the upper background concentrations for the Site 7 Landfill (WP07) are also included on the table for comparison to Site 7 monitoring well results. Results for WP-07 are discussed in more detail below in Section 3.4.2. Table 3-8 provides calculated upper background concentrations for metals at Site 7. Metals were not detected above the background range in the perched aquifer at Site 7.

LANDFILL WELLS BACKGROUND METALS COMPARISON

Well	Landfill	Constituent Above Background (Maximum Detected Concentration – Quarter Detected)				Reference
		Chromium	Nickel	Manganese	Vanadium	
Background Value (µg/L) = >		NE Landfills – 10.0 WP07 – 24.0	NE Landfills – 3.9 WP07 – <40.0	NE Landfills – 653 WP07 – 5,848	NE Landfills – 8.7 WP07 – 50.0	
MAFB-111	LF03	—	—	—	11F µg/L – 2Q09	Table 3-6
MAFB-112	LF03	—	113 µg/L – 3Q09	797 µg/L – 2Q09	—	Table 3-6
MAFB-131[a]	LF03	41 µg/L – 2Q09	33F µg/L – 2Q09	—	23F µg/L – 2Q09	Table 3-6
MAFB-140	LF04	—	18F µg/L – 2Q09	—	—	Table 3-6
MAFB-398	LF03	—	4.0F µg/L – 2Q09	—	—	Table 3-6
MAFB-399	LF03	—	—	—	11F µg/L – 2Q09	Table 3-6
MAFB-400	LF03	11 µg/L – 4Q09	—	—	—	Table 3-6
MAFB-005[a]	LF04	14 µg/L – 2Q09	11F µg/L – 2Q09			Table 3-6
MAFB-132	LF04	73 µg/L – 3Q09	401 µg/L – 2Q09	—	—	Table 3-6
MAFB-136	LF04	201 µg/L – 1Q09	622 µg/L – 2Q09	—	—	Table 3-6
MAFB-288	LF04	—	—	—	9.1F µg/L – 2Q09	Table 3-6
7-PZ-37	WP07	28 µg/L – 2Q09	—	—	—	Table 3-8

Notes:
[a] MAFB-005 and -131 are background wells.
The 95 percent UTL (upper tolerance limit) is an estimate of the upper range of concentrations that are naturally occurring.
< – less than
µg/L – micrograms per liter
--- dashed symbol indicates the analyte was not detected above the background value in 2009.
NE – northeast

All other constituents are below calculated upper background values.

Chromium was detected above the background concentration range of 10 µg/L in five wells at LF03 and LF04 (including background well MAFB-005) in 2009. Maximum chromium concentrations in wells MAFB-132 (73 µg/L), MAFB-136 (201 µg/L), and MAFB-400 (11 µg/L) in 2009 were among the highest concentrations for these wells since 2001, continuing a cyclic or possibly slug-like pattern of detections (see Figure 3-2). The fourth-quarter 2009 sample was the first from well MAFB-400 to contain chromium above the background concentration range and the result is an historical high for this well. The source of chromium in groundwater at LF03 and LF04 was determined to be corrosion of the stainless steel well screens and not a result of a release from the landfills (MWH, 2008, Appendix L). Therefore, the 2008 report recommended discontinuing quarterly sampling for chromium (MWH, 2009e, to be applied beginning in 2010).

Nickel was detected above the background concentration range of 3.9 µg/L in six wells at LF03 and LF04 (including background well MAFB-005) in 2009. Similar to chromium, maximum nickel concentrations in MAFB-132 (401 µg/L) and MAFB-136 (622 µg/L) in 2009 were among the highest concentrations for these wells in several years (see Figure 3-3). The second quarter

2009 sample from MAFB-140 (18F µg/L) was the first sample to contain nickel above the background concentration range. The maximum detection of nickel in well MAFB-136 is the historical high for this well. After a period of stable and relatively low nickel concentrations in wells MAFB-132 and -136 from 2004 through 2008 (Figure 3-3), nickel concentrations in both wells have increased sharply, suggesting a cyclic or slug-like flow pattern. Corrosion of the stainless steel well screens was investigated as the source for nickel in groundwater, but results were inconclusive (MWH, 2009e). Although the cause for the recent elevated nickel concentrations is not known, the potential that LF04 is a source for nickel cannot be ruled out.

Manganese was detected in the annual (second quarter) 2009 sample from well MAFB-112 at a concentration of 797 µg/L. This concentration represents a significant increase from the sample collected in the second quarter of 2008 (estimated 4.7 µg/L). The 2009 result is above the 95 percent upper tolerance limit (UTL) estimate of the upper background concentration for manganese (653 µg/L) for the Northeast Landfills area. However, the result appears anomalous. In 39 historical samples for manganese collected from this well since the fourth quarter of 1996, manganese was never detected at a concentration greater than 84.5 µg/L. In addition, historical manganese concentrations in surrounding wells do not suggest the result in well MAFB-112 is reasonable. Historical concentrations of manganese in well MAFB-111 have ranged from nondetect to a maximum of 176 µg/L. Historical concentrations of manganese in well MAFB-133 have ranged from non detect to a maximum of 82 µg/L, and historical concentrations of manganese in well MAFB-288 have ranged from non detect to a maximum of 6.5 µg/L. Therefore, the well will remain on its annual monitoring schedule unless the 2010 result confirms a result above background concentrations.

Vanadium was detected above the background concentration of 8.7 µg/L in four wells at LF03 and LF04 in 2009. Maximum vanadium concentrations in wells MAFB-111 (11F µg/L), MAFB-288 (9.1F µg/L), and MAFB-399 (11F µg/L) are not considered representative of an actual release, based on conclusions from a rigorous background evaluation for vanadium presented in the 2007 groundwater monitoring report (MWH, 2008). The evaluation pointed out that the background value for vanadium was based on available trace-level results reported by the laboratory. Trace level results indicate an instrument response to low levels of dissolved vanadium in groundwater but the actual values are not rigorously quantifiable because the values are below the calibration range of the instrument. Overall, the instrument response to levels of vanadium in the background wells happened to be quantified in a range from 6 to

13 µg/L with an average of about 9.0 µg/L that was used as the background value. As such, detections above background ranging from 9 to 13 µg/L do not appear significant enough to suggest a actual release from the landfill that should trigger a formal evaluation monitoring program for vanadium, given the uncertainly in the values on which the background is based.

The vanadium concentration in the annual sample from well MAFB-131 was 23F µg/L. However, MAFB-131 is an upgradient background well. The source for the somewhat elevated vanadium concentration in well MAFB-131 above the previously calculated background value is therefore not from the landfills, but may represent a natural variability in vanadium concentrations not observed in the data set used to calculate background. If this result is repeated during 2010, a recalculation of the background value for vanadium will be considered.

3.4.2 Site 7 Landfill – Background Concentrations for Metals

MWH calculated background concentrations for metals for WP07 (Table 3-8) to determine whether WP07 is contributing significant amounts of metals to groundwater. Results above background were included in the summary table above in Section 3.4.1. The background concentrations were calculated using the analytical results from the following regional water-table wells: MAFB-148, -183, and -254. These wells were selected as background wells because they are located hydraulically upgradient of WP07 and have been sampled for Title 22 metals.

As shown in Table 3-8, metals concentrations in samples from Site 7 wells were generally within the calculated background range. The only exception was chromium, which was detected above the background concentration (background = 24 µg/L) in one sample from well 7-PZ-37 (28 µg/L in the second quarter 2009). Chromium was detected at the same concentration in the second-quarter 2008 sample from well 7-PZ-37. Although chromium was above background in well 7-PZ-37 (screened from -6.2 to -22.2 feet msl) during the second quarters of 2008 and 2009, it is not likely that this is attributable to a release from WP07 (MWH, 2009e). Chromium has not been detected above 10 µg/L in overlying perched water, monitored by well 7-PZ-37P (screened from 26 to 11 feet msl), since the first quarter of 2001. The concentration of chromium in perched water from well 7-BV-13 (screened in perched zone water from 35 to 20 feet msl) has never been higher than 2.3 µg/L. In addition, chromium values in other postclosure water-table wells adjacent to 7-PZ-37 (MAFB-149, -284, and 413) ranged from 2.9 to 6.1 µg/L during the

same quarter, indicating that the results from 7-PZ-37 are somewhat anomalous and not high enough above background to warrant a full evaluation monitoring program for chromium.

Because the chemical profiles of the regional groundwater and perched-zone water are so dissimilar at Site 7, separate background values were calculated for each water type. Total dissolved solids (TDS) in the perched zone are higher than in the underlying regional groundwater, likely resulting from former infiltration of meteoric water through, or in contact with, the fill material in WP07. Except as noted above, water-table results did not exceed water-table background concentrations and perched-zone concentrations did not exceed perched-zone background concentrations. Metals concentrations in the perched zone are below calculated upper background concentrations for the water-table aquifer.

Postclosure monitoring requirements for WP07 in 2009 also include biennial monitoring for polyaromatic hydrocarbons (PAH), PCBs, and pesticides (Table 3-1). There have been no detections of these analytes in postclosure monitoring wells. The background value for these compounds is assumed to be zero, since these compounds are not naturally occurring in groundwater. Any detection observed would indicate a release from the landfill or some other upgradient source. It is recommended that the sampling frequency be reduced to once every 5 years.

3.5 RECOMMENDATIONS FOR NEP MONITORING

Historical data trends, current groundwater levels, and the hydrogeologic conceptual model indicate the MCL volume is isolated to a few wells in close proximity to Landfills LF03 and LF04 and is not expected to expand. However, the detection of cis-1,2-DCE above the cleanup level in the fourth-quarter 2009 sample at C-zone well MAFB-398C indicates chemicals (or their breakdown products) have migrated vertically.

The current monitoring of the upgradient NEP monitoring wells is adequate to meet the corrective action monitoring requirements specified in the ROD. Specific changes that are recommended to the monitoring programs include:

- Reduce sampling in the evaluation monitoring wells for chromium to an annual frequency and for nickel to a semiannual frequency. These changes should be

implemented in 2011 since the 2010 sampling plan is already finalized and sampling has been completed through the third quarter 2010.

- Reduce sampling for PAHs, PCBs, and pesticides in groundwater at Site 7 to every 5 years.
- Wells MAFB-112 and -140 will be further evaluated for replacement under the performance-based remediation contract during 2010 and the evaluation will be documented in the 2010 annual groundwater monitoring report..

4.0 AC&W REMEDIAL PERFORMANCE MONITORING PROGRAM

This section discusses the AC&W Plume using data collected through fourth quarter 2009. Detections of TCE, the COC for the AC&W Plume, observed in 2009 are compiled in Table 4-1. The locations of extraction, injection, and monitoring wells that are part of the AC&W groundwater extraction and treatment system, as well as TCE isoconcentration contours and the water-table surface as interpreted in fourth quarter 2009, are shown on Figure 4-1.

4.1 AC&W PLUME REMEDIAL HISTORY

A detailed description of the groundwater extraction and treatment system for the AC&W Plume, as well as a full description of historical operations, was provided in the annual monitoring reports through 2007. The reader is referred to Section 4.11 of the *Annual and Fourth Quarter 2007 Groundwater Monitoring Report* (MWH, 2008) for a detailed description of the system and historical operations.

4.2 AC&W TREATMENT SYSTEM AND PLUME MONITORING

The performance of the groundwater extraction and treatment system for the AC&W Plume has been monitored since December 1994 to ensure compliance with discharge requirements and to ensure the objectives of the remedial action are met. The primary objectives of the remedial action as stated in the ROD or Explanation of Significant Difference are as follows:

- Remediation: Remove contaminant mass from the groundwater plume and remediate the plume to the aquifer cleanup level for TCE (5.0 µg/L)
- Comply with discharge requirements for the treated water
- Comply with air-emission requirements

Secondary objectives have also been adopted for the remedial action; these are management strategies being used to meet the primary ROD objectives and include:

- Capture: Capture the contaminant plume and extract the contaminated groundwater for remediation
- System Performance: Balance objectives of mass removal and mitigation of water-level decline consistent with contaminant capture and cleanup

Monitoring of water quality in extraction wells, Mather Lake, and groundwater monitoring wells is conducted to evaluate the effects of extraction on the plume and of discharge to the receiving water at Mather Lake. The objectives of the water quality monitoring are to:

- Demonstrate that the zones of influence of the extraction wells, in conjunction with water-level measurements, are adequate to capture (at a minimum) the plume that exceeds 5.0 µg/L of TCE
- Monitor remediation of the plume by monitoring changes in contaminant concentrations
- Assess whether the treatment system is removing contaminants effectively
- Demonstrate that treated groundwater does not exceed discharge standards and that its discharge does not degrade the receiving water quality

Additional monitoring of water quality and water levels was also added to the program to evaluate potential impacts of nearby pumping from extraction well EX-2, prior to when it began pumping in 2006 as a part of the perchlorate cleanup associated with the Inactive Rancho Cordova Test Site. The following sections describe monitoring activities and results for 2009.

4.2.1 Operations, Maintenance, and Monitoring of Extraction Wells, Groundwater Treatment Plant, and Injection Wells

The AC&W Plume Treatment System in 2009 consisted of seven active extraction wells and the treatment plant with one air stripper. All treated water was discharged to Mather Lake (irrigation use of up to 50 gpm of the treated water near Mather Lake occurred from approximately 1998 to 2003, when the treated water system was isolated from the irrigation system).

Extraction Wells. Table 4-2 presents the quarterly average flow rate, TCE concentrations, and yearly mass removed for each of the seven active AC&W extraction wells. TCE concentrations declined in 2009, and the total mass removed during the year (4.8 pounds) was less than that removed during 2008 (6.2 pounds). For the second consecutive year, TCE concentrations at groundwater extraction wells ACW EW-2 and ACW-EW-3 were below the aquifer cleanup level of 5.0 µg/L. TCE concentrations at ACW EW-4 have been below the cleanup level since 2006 and a recommendation to discontinue operation at this well was made in the 2008 Annual Groundwater Monitoring Report (MWH, 2009e). ACW EW-4 was turned off in February 2010.

The downgradient extent of the TCE MCL volume is captured by EW-6R (Figure 4-1). Before 2007, the concentration of TCE in extraction well ACW EW-6R had been very steady, ranging from 19 µg/L to 29 µg/L since first quarter 2002 (Appendix C). The flow rate at the well was increased from approximately 10 gallons per minute [gpm] to 40 gpm in late August 2006; concentrations increased to 32JM µg/L during the second quarter of 2007 and have since declined steadily to 7.7M µg/L, the lowest concentration observed in the well since the second quarter of 1999 (Appendix C). The decrease in concentration at EW-6R likely resulted from a combination of decreased local concentrations and increased dilution from the larger capture zone associated with the higher pumping rate.

Groundwater Treatment Plant. During 2009, water samples were collected quarterly from the air stripper influent for VOC and general minerals analysis. Water samples were collected biweekly from the air stripper effluent for VOC analysis and quarterly for total petroleum hydrocarbons as diesel (TPH-d) and general minerals analysis. Weekly system operation and maintenance (O&M) activities were conducted to check system operations, download data collected by the treatment system computer, and maintain the system components. A summary of 2009 analytical detections is shown in Table 4-1. Analytical results for all sampling events is provided in Appendix A. Table 4-2 presents the average flow rate at the treatment plant, quarterly influent sampling results (TCE concentrations ranging from 5.6 to 6.9 µg/L), and the total TCE mass removed in 2009 (4.78 pounds). TCE was detected in the AC&W system effluent water on 10 December 2009 at 0.20BFµg/L. The B flag denotes that TCE was also detected in the method blank, in this case at 0.22F µg/L. TCE also was detected at similar concentrations in the Main Base/SAC Area and Site 7 treatment system effluent samples collected on the same date. Therefore, the TCE detection in the effluent sample is likely due to laboratory contamination. No VOCs were detected in the subsequent biweekly effluent sample.

The TCE mass removed by the pump-and-treat system is calculated to evaluate system performance. The total mass of TCE removed by the system since startup of continuous full-scale operation is presented on Figure 4-2. The total TCE mass was calculated by summing the incremental mass of TCE removed from 7 February 1995 through 15 October 2009. The system has removed approximately 468 pounds of TCE through 15 October 2009 with 1.4 billion gallons of groundwater removed.

Mather Lake Discharge. Field parameters and total VOC concentrations for the receiving water at Mather Lake (ACW R-2) and the AC&W treatment system effluent collected during quarterly sampling are presented in Table 4-3. TCE was not detected in any effluent samples or from the receiving water location R-2 during 2009. During 2009, biweekly samples were collected from the effluent discharge to Mather Lake and they met the total VOC discharge treatment standards (total monthly median of 0.5 µg/L or less with any one sample not to exceed 1.0 µg/L). Results from the biweekly sampling events are reported in Appendix A. Mather Lake is inspected biweekly for any unusual conditions (algae blooms, turbidity, foams, etc.) resulting from the discharge of the treated groundwater.

The 1997 ESD authorized up to 50 gpm to be used for irrigation near Mather Lake. It is believed that the treated water was used at times between 1998 and 2003, after which the treated water source was isolated from the irrigation system because the irrigation system had also connected to a potable water source.

4.2.2 Plume Monitoring and Distribution

The TCE distribution in the AC&W Plume based on fourth-quarter 2009 results is shown in map view on Figure 4-1. Appendix C presents time-concentration graphs illustrating TCE concentrations for samples collected from about 1996 to the present from all AC&W wells.

A detailed description of the hydrologic conceptual model, hydrostratigraphic zones, historical source area investigations, hypotheses on contaminant fate and transport, etc., is provided in Section 4.4.1.1 of the *Annual and Fourth Quarter 2007 Groundwater Monitoring Report* (MWH, 2008). The reader is referred to that report for additional historical context.

Regional groundwater flow at the AC&W Site is predominantly to the southwest, at a gradient of approximately 0.002 ft/ft during fourth quarter 2009, with flow lines deflected both south and west toward the operating extraction wells along the length of the plume (ACW AT-1, ACW AT-2, ACW EW-1, ACW EW-2, ACW EW-3, ACW EW-4, and ACW EW-6R).

Currently, the highest TCE concentrations are in the upgradient portions of the plume, around extraction wells ACW AT-1 and AT-2, and groundwater monitoring well MAFB-453C. TCE concentrations at piezometers ACW PZ-09C and PZ-10 declined from 13 and 14M µg/L in

second quarter 2008 to 0.22F and 3.1 μg/L in second quarter 2009. As summarized in previous year-end reports, concentration trends within the past 2 years indicate that TCE concentrations along the centerline of the plume were, in general, stable or declining (Table A-1, Appendix C).

Among the most critical water quality data to monitor in conjunction with water-level data to document compliance with the objective of plume capture are results from wells located along the downgradient margins or toe of the AC&W Plume. These wells include MAFB-302 and -433; piezometers ACW PZ-02, ACW PZ-05; and newly installed well MAFB-455 (Figure 4-1). TCE was not detected in MAFB-302, MAFB-455, or ACW PZ-02 during 2009. TCE was detected at concentrations ranging from 0.34F to 0.73 μg/L in quarterly samples from ACW PZ-05 during 2009. One trace TCE detection (0.25F μg/L) was reported in three samples collected from MAFB-433 during 2009. The TCE detections at MAFB-433 and ACW PZ-05 are at the low end of the historical range of observed concentrations for each well.

As shown on Figure 4-1, and as in previous reporting periods, groundwater flow is deflected toward pumping extraction wells in the upgradient and downgradient portions of the plume. The entire area encompassed by the 5.0-μg/L TCE contour has been interpreted to lie within the capture radius of the extraction system (as indicated by groundwater flow directions interpreted from the potentiometric surface).

The operation of Boeing extraction well EX-2 (located northeast of the AC&W Plume and screened in Unit D) since 2006 has induced a downward gradient from Unit C to Unit D near the head of the plume, but annual sampling from the Unit D wells (MAFB-067, -068, and -069) does not indicate that TCE is migrating downward.

Multi-year groundwater trends are depicted in hydrographs generated from annual and second-quarter groundwater levels across Mather (Appendix B Figures 30 to 35). The hydrographs for the water table, deeper Unit C, and Unit D wells show an overall trend of declining groundwater levels. Water levels have declined most rapidly at Unit D wells; MAFB-069 in particular had a greater than a 6-foot decline from second quarter 2008 to second quarter 2009 (Appendix B, Figure 35). As a result of declining water levels in the AC&W area, many water table/Unit C monitoring wells have gone dry as the water table has declined below the base of the screened interval, particularly the older wells installed in areas peripheral to the plume. As noted in Section 2.4, several dry wells were decommissioned in 2009; those wells are shown on Figure

4-1. Upgradient water-table wells MAFB-401, -402, 403, and -408 are projected to go dry within the next few years if decreasing water-level trends continue. The water-table elevation at the upgradient portion of the AC&W plume has decreased approximately 9 feet since the startup of EX-2 in 2006. None of these upgradient water-table wells had detections of TCE above the cleanup level in 2009These data (and the body of historical data from these wells) establish the upgradient extent of the plume. As such, the Air Force does not consider replacement wells necessary if and when these wells go dry. Continued monitoring from this area of the aquifer will be unnecessary.

4.3 CONCLUSIONS AND RECOMMENDATIONS

The AC&W groundwater extraction and treatment system is effectively remediating contaminated groundwater at the site. The entire MCL plume is interpreted to lie within the capture zone of the extraction wells. Furthermore, TCE concentrations at groundwater monitoring and extraction wells are stable or declining. One groundwater extraction well, ACW EW-4, was turned off in early 2010 as a result of a recommendation in the *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e). EW-4 was no longer removing significant amounts of TCE and was not contributing to capture of the MCL volume. It is recommended that the extraction and treatment system continue to operate at the 2009 set points in 2010, with the exception that EW-4 remains off-line, as recommended in the 2008 annual report.

Groundwater monitoring for 2010 will take place in accordance with the *2010 Groundwater Monitoring Program Sampling Plan* (MWH, 2010). The sampling plan implements recommendations to revise the downgradient performance monitoring program at AC&W; the monitoring of the plume edge has been shifted regionally upgradient to ACW PZ-03, ACW PZ-04, and MAFB-455 as of first quarter 2010. Monitoring at ACW PZ-05, MAFB-302, and MAFB-433 changed to reserved status, meaning the wells would not be scheduled for another sampling for 5 years, although the frequency could change based on interpretation of future monitoring results.

The effluent sample from the AC&W treatment system has been sampled quarterly for TPH-d since the second quarter of 2003. There have been no detections in any of the samples. It is

recommended that TPH-d sampling be discontinued and that this be reflected in the 2011 Mather Groundwater Sampling Plan for AC&W.

5.0 SITE 7 REMEDIAL PERFORMANCE MONITORING PROGRAM

This section describes the Site 7 Plume based on monitoring data through fourth quarter 2009. Additionally, this section discusses the performance of the groundwater extraction and treatment system for the Site 7 Plume for 2009. COCs, their respective cleanup levels identified for the Site 7 Plume, and a summary of COC detections for 2009 are shown in Table 5-1. The portion of the Site 7 VOC Plume that exceeds cleanup levels is approximately 4,100 feet long and 1,300 feet wide at its widest point. The VOC plume has migrated off Mather to the southwest, approximately 3,900 feet beyond the southern property boundary near the Site 7 disposal area. The interpreted downgradient extent of the plume is approximately 3,500 feet upgradient from the nearest water-supply well (see Figure 2-1). A detailed discussion of the site conceptual model was most recently presented in the *Annual and Fourth Quarter 2007 Mather Groundwater Monitoring Report* (MWH, 2008). Updated hydrogeologic cross sections were presented in the *Site 7 Capture Zone Analysis* (Appendix N of the *Fourth Quarter and Annual 2008 Mather Groundwater Monitoring Report* [MWH, 2009e]).

5.1 SITE 7 PLUME REMEDIAL HISTORY

The gravel borrow pit at Site 7 was reportedly used to dispose of wastes, including POL wastes, from 1953 to 1966. The gravel borrow pit was originally excavated to a depth of approximately 40 feet. Other wastes reportedly disposed include empty drums, sludge from plating shop dip tanks, absorbent sand used for cleaning oil and solvent spills, paint chips, waste paint and thinners, and at least one load of transformer oil that may have contained PCBs. The former disposal area was brought up to grade in 1998 and 1999 by receiving soils excavated from the West Ditch (Site 15), the South Ditch (Site 85), and from other IRP cleanup activities. An engineered cap was constructed over the former disposal area in 1999. VOCs in the vadose zone at Site 7 were initially remediated by vapor extraction until volatile contaminant concentrations had decreased significantly. In April 2007, the treatment system was converted to bioventing to address less volatile hydrocarbons.

The material disposed into the gravel pit that is now the Site 7 Landfill (WP07) is the suspected source for the Site 7 VOC groundwater plume. In 1995, a cancer risk to humans was estimated at 9.7×10^{-5} for exposure to contaminants in the groundwater at maximum concentrations of COCs measured in samples of groundwater collected from the Site 7 Plume before remediation

(AFBCA, 1996). Although the cancer risk was within the risk management range (10^{-6} to 10^{-4}), the Air Force opted to remediate the Site 7 Plume because the estimated risk was near the 1×10^{-4} threshold and the plume extended beyond Mather in the direction of private drinking water wells.

Postclosure groundwater monitoring is required under the Soils OU for the closed Site 7 Landfill WP07 (AFBCA, 1996). Postclosure monitoring results for VOCs and non-VOCs are discussed in Section 3.0. Because a remedial action has been selected for the Site 7 Plume (groundwater extraction and treatment), corrective action monitoring is required under the Groundwater OU Remedial Action (AFBCA, 1996). Performance monitoring of the Site 7 Plume remedy is conducted as the corrective action monitoring program for VOCs for the selected remedy.

The remedial action selected for the Site 7 Plume in the Groundwater OU ROD (AFBCA, 1996) is remediation by groundwater extraction, treatment by air stripping, and injection back into the aquifer through wells. Long-term monitoring and on-base institutional controls supplement active remediation. The treatment system was constructed according to the *Remedial Action Work Plan for Phase I Groundwater Remediation for Main Base/SAC Industrial Area OU* (Montgomery Watson, 1997a) and the *Preliminary Engineering Report for Phase I Groundwater Remediation of Main Base/SAC Industrial Area Plume and Groundwater Remediation of Site 7 Plume* (Montgomery Watson, 1997c). The extraction system design was modified to reduce the number of extraction wells to two. Construction of the Site 7 treatment facility was completed in October 1998. Groundwater flow modeling in 1993 and 1994 to support the *Focused Feasibility Study* (FFS) (IT Corp., 1995) suggested that three wells cumulatively pumping 150 gpm would capture the Site 7 Plume. Subsequent plume characterization and modeling by MWH suggested that two extraction wells would suffice. Between 1998 and 2004, the system operated for three separate periods, each using a different extraction well. The following is a brief description of each period.

Groundwater was extracted initially from only one well during the initial phase of the operation. However, this well (FFS-EW7-1) was destroyed in July 1999 because of gravel mining in the area.

One extraction well (7-EW-1) and seven performance monitoring wells (MAFB-370, -371C, -371D, -372B, -372D, -373C, and -373D) were installed across the leading edge of the Site 7

Plume during fourth quarter 2000. Startup of the extraction well and restart and proveout of the treatment system began in early April 2001. However, Granite began mining in the vicinity of 7-EW-1 in July 2001, and consequently the conveyance piping was removed and the system taken off line on 27 July 2001 to accommodate mining in the area.

An additional six monitoring wells (MAFB-391, -392, -393, -394, -395, and -396), four piezometers (7-PZ-38P, -39B, -40B, and -41B), and one extraction well (7-EW-2) were installed during the first quarter of 2002. The treatment system was restarted in March 2002 with extraction from 7-EW-2. However, the treatment system was taken off line on 18 April 2003 to accommodate the aqueduct construction for rerouting Morrison Creek and other mining and reclamation activities.

The Site 7 groundwater extraction treatment system resumed operation with the two remaining wells (7-EW-01 and 7-EW-02) in December 2006. Several monitoring wells at the toe of the Site 7 Plume (single-completion monitoring well MAFB-370, and dual-completion monitoring wells MAFB-371C and D, -372B and D, and -373C and D) were rehabilitated and sampled during the third and fourth quarters of 2006 as part of system startup activities. Monitoring well rehabilitation and startup activities were described in Appendix M of the *Annual and Fourth Quarter 2006 Mather Groundwater Monitoring Report* (MWH, 2007c).

The groundwater extraction and treatment system for the Site 7 Plume, including extraction wells, injection wells, and conveyance piping, is shown on Figure 5-1.

5.2 SITE 7 TREATMENT SYSTEM AND PLUME MONITORING

The objectives of the Site 7 monitoring program are to document progress and gauge effectiveness of the installed remedial action by:

- Evaluating the hydraulic influence imposed by the groundwater extraction system (capture) by monitoring physical drawdown and interpreting potentiometric surfaces.
- Monitoring compliance with discharge treatment standards by sampling and analyzing influent and effluent from the treatment system. Influent concentrations are used to calculate air emissions from the treatment system.

- Evaluating changes in plume dimensions and COC concentrations, particularly within areas with relatively high concentrations and near plume boundaries.
- Quantifying mass removal from the plume by measuring contaminant concentrations and extraction well flow rates.

The Site 7 Plume monitoring network consists of groundwater monitoring wells and piezometers completed in a perched aquifer and in HSG Units A, B, C, and D in addition to the two operating extraction wells, four injection wells, and the treatment plant.

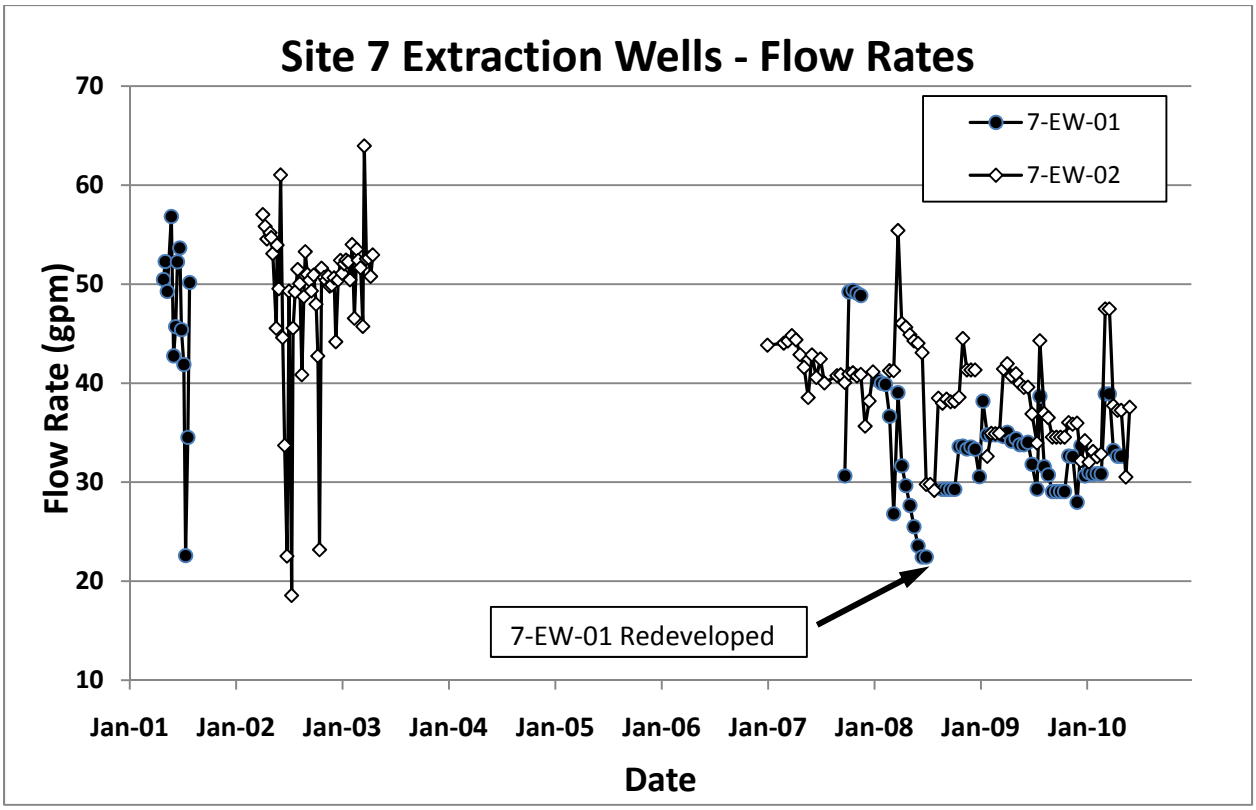
The following sections describe monitoring activities and results for 2009.

5.2.1 Operations, Maintenance, and Monitoring of Extraction Wells, Groundwater Treatment Plant, and Injection Wells

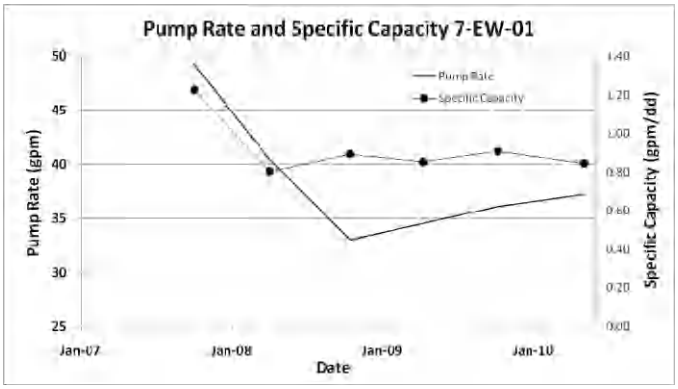
The Site 7 Plume Groundwater Treatment System, including the extraction wells, injection wells, and the treatment plant, operated in general accordance with the *Operations and Maintenance Manual for the Groundwater Extraction and Treatment System for the Site 7 Plume* (Montgomery Watson, 1999a). The Site 7 system consists of two extraction wells, a treatment plant with one air stripper, and four injection wells.

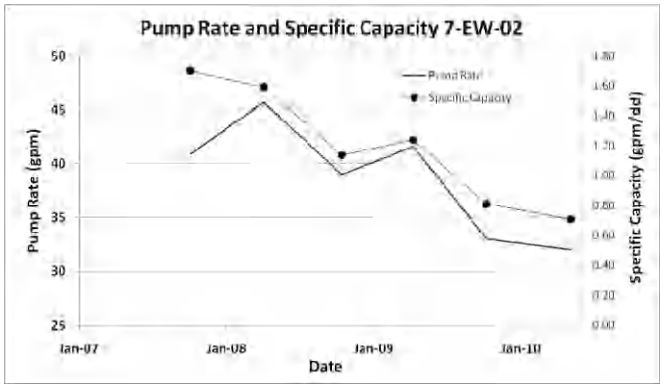
Extraction Wells. The 2009 analytical results for samples collected at groundwater extraction wells 7-EW-01 and 7-EW-02 are presented on Table 5-1. Samples collected from the wellheads were analyzed for VOCs, TPH as gasoline (TPH-g), TPH-d, and general minerals. Total VOC concentrations, quarterly average flow rates, and the yearly mass removal for each well are presented in Table 5-2. Of the two extraction wells, 7-EW-2, which is closer to the Site 7 source area, removed the most mass (4.71 pounds). Extraction well 7-EW-1 removed approximately 1.44 pounds of VOCs during 2009.

Extraction rates for the Site 7 system since 2001 are shown on the graph below. Extraction rates were approximately 50 gpm (the original design rate) during initial periods of operation from 2001 to 2003. However, pumping rates of 50 gpm can no longer be sustained in the wells due to excessive drawdown caused by a combination of declining regional water levels and declines in the specific capacity of the wells as discussed below. Current extraction rates are between 33 to 35 gpm for both wells. Extraction well 7-EW-01 was redeveloped in July of 2008 following a sharp decline in sustainable pumping rates as shown below.



Extraction rates vs. specific capacity for the period between October 2007 and May 2010 are shown on the graphs below to illustrate current performance of the wells and to assess the need for additional well maintenance.





Specific capacity stabilized at about 0.80 gpm per foot of drawdown in well 7-EW-01 following redevelopment and the current flow rates are sufficient to capture the downgradient portion of the Site 7 plume, as demonstrated in the 2009 Site 7 CZA which assumed a flow rate of 34 gpm. The specific capacity of extraction well 7-EW-02 declined about 60 percent, from 1.7 to 0.71 gpm per foot of drawdown, from fourth quarter 2007 to second quarter 2010, and it is recommended that this well be redeveloped. MWH is planning to redevelop this well in 2010.

Groundwater Treatment Plant. Table 5-2 presents the quarterly averaged flow rate, quarterly cumulative VOC influent concentrations, and total mass removed in 2009 by the Site 7 Treatment Plant. Water samples were collected quarterly from the air stripper influent for VOC, TPH, and general minerals analysis. Water samples were collected biweekly from the air stripper effluent for VOCs and TPH-g and quarterly for TPH-d and general minerals analysis. Results for the 2009 quarterly sampling events are presented in Table 5-1. Results from all sampling events in 2008 and 2009 are provided in Appendix A. TCE was detected in the 10 December 2009 biweekly sample from the Site 7 system effluent at 0.17 BF µg/L. The B flag denotes that TCE was also detected in the method blank, in this case at 0.22F µg/L. Therefore, the TCE detection in the effluent sample is likely due to laboratory contamination. No VOCs were detected in the subsequent biweekly effluent sample.

Figure 5-3 illustrates the cumulative volume of water treated and VOC mass removed by the Site 7 Treatment System, as well as the historical system influent concentration. Through 2009, the system had removed 41 pounds of VOCs from 164 million gallons of water.

Injection Wells. In 2009, all four injection wells received treated water from the groundwater treatment system. The quarterly average flow rates for each injection well are presented in Table 5-2. In early fourth quarter 2009 the motorized flow control valve at 7-IW-02 malfunctioned and the injection well was off line for the remainder of the quarter. It is anticipated that the valve will be repaired in first quarter 2010. The capacity of the injection wells is sufficient to accommodate all of the treated groundwater. Groundwater sample collection is not required for the injection wells because the injected water is treated to discharge treatment standards, as verified by the analytical data from the air stripper effluent samples.

5.2.2 Plume Monitoring and Distribution

The Site 7 Plume consists of a groundwater plume below the vadose zone with TCE, PCE, cis-1,2-DCE, and 1,2-DCA above cleanup levels. Figure 5-1 shows isoconcentration contours for TCE, PCE, cis-1,2-DCE, and 1,2-DCA, contamination in the groundwater plume. A potential source for the groundwater plume is a perched-water zone beneath the engineered landfill cap with TCE, 1,2-dichloroethane (1,2-DCA), and occasionally vinyl chloride, TPH-d, and benzene concentrations above established cleanup levels for the underlying groundwater plume. Extraction of the perched water as source control has been deemed impractical (MWH, 2009a). Figure 5-2 shows isoconcentration contours for contamination in the perched zone. Figures 5-3 through 5-5 illustrate the conceptual model of the site in a series of three hydrogeological cross sections.

Perched Zone. The highest VOC concentrations in the perched zone, likely an intermediate source for the Site 7 Plume, continue to be observed in samples collected from wells 7-BV-01 and 7-BV-02. Well 7-BV-01 had detections of benzene and vinyl chloride at 5.3 and 1.3 µg/L in second quarter 2009, respectively; however, neither compound was detected in the fourth-quarter 2009 sample. Well 7-BV-02 had detections of TCE, vinyl chloride, and 1,2-DCA at 14, 0.54, and 3.8 µg/L, respectively, in fourth quarter 2009. VOC concentrations are generally declining at this well (Appendix C). Monitoring will continue to help evaluate whether the perched water continues to be a significant source in the future.

Groundwater Plume. Elevated VOC concentrations continued to be observed in 2009 at wells 7-PZ-37 and MAFB-041, which are directly downgradient from the landfill cap. TCE was detected at 23 µg/L at 7-PZ-37, and TCE, cis-1,2-DCE, and 1,2-DCA were detected at 35, 9, and 8.3M µg/L, respectively, in MAFB-041 during second quarter 2009. Note that contaminant concentrations in 7-PZ-37 near the Mather boundary have generally decreased since 2006. Contaminant concentrations in MAFB-41, about 350 feet further downgradient, have exhibited a more erratic pattern, with 2008 and 2009 concentrations similar to 2002-2003 levels after several intervening years of lower concentrations (Appendix C).

Elevated TCE concentrations were also observed in the mid-plume area near extraction well 7-EW-02 (23M µg/L) and adjacent monitoring well MAFB-394 (24M µg/L). The potentiometric

contours on Figure 5-1 suggest that the capture zone from 7-EW-02 extends to wells MAFB-393 and -396, and includes most, if not all of the plume width in the vicinity of 7-EW-2.

MAFB-446 was installed in the mid-plume area between 7-EW-02 and 7-EW-01 during 2008. MAFB-446 was installed along the axis of the plume to gauge remedial progress between the extraction wells. TCE and PCE were detected at concentrations up to 57M and 9.4 µg/L, respectively, in samples collected at MAFB-446 in 2009. The "M" indicates that matrix effects were present in the sample analysis. MAFB-444, where TCE was detected at 1.4 µg/L during 2009, constrains the MCL volume to the east. The baseline sample for MAFB-447, collected in fourth quarter 2008, contained TCE at 10 µg/L. Concentrations increased at the well, with a maximum concentration of 18M µg/L in the fourth-quarter 2009 sample.

Despite the declining capacity noted above, groundwater extraction well 7-EW-01 continued to effectively remove mass from the toe of the plume during 2009. TCE concentrations continued to decrease at MAFB-372B, located south of 7-EW-1. Since 7-EW-01 was returned to service in late 2006, TCE concentrations at MAFB-372B have decreased from 13 µg/L to 6.7 µg/L. Two new groundwater monitoring wells were installed in 2008 at the southern and southeastern areas near the toe of the plume. MAFB-445 was installed in Unit B approximately 750 feet east of 7-EW-01. TCE has not been detected above the cleanup level in five samples collected at MAFB-445 since the well was installed. MAFB-448 was installed southeast of MAFB-372B in an attempt to bound the downgradient extent of the plume above cleanup levels. However, the baseline sample for MAFB-448 contained TCE slightly above the cleanup level (7.1 µg/L). TCE concentrations increased slightly at MAFB-448 during 2009, with a maximum concentration of 9.0M µg/L reported in the fourth quarter sample. The limited water-level data available in this area (Figure 5-1) suggest that MAFB-448 is within the capture zone of 7-EW-01.

5.3 CONCLUSIONS AND RECOMMENDATIONS

The Site 7 Groundwater Extraction and Treatment System successfully operated in 2009 to remove mass from the groundwater contaminant plumes. Monitoring continued at five new groundwater monitoring wells that were installed in 2008. Water-level and concentration data from these wells have been used to characterize the VOC plumes and to show that the southern toe of the plume is likely captured by extraction well 7-EW-02.

It should be noted that an emergent marsh has been constructed as part of required mining reclamation to the west of the Site 7 Plume with some overlap of the plume margin. The marsh encompasses about 40 acres and has water depths of up to about 3 feet. The area is visible on Figure 2-1 as a lighter-colored roughly triangular shape between MAFB-300 and MAFB-370. As a result of the impoundment of water, MAFB-300 is not easily accessible. The surface impoundment of water will result in increased recharge to the underlying water table. The increased recharge will likely create a groundwater mound and will change groundwater flow near the southwestern portion of the Site 7 plume. Beginning in second quarter 2010, the Air Force will begin collecting quarterly groundwater levels from several wells at Site 7, potentially including MAFB-371C, -373C, -370, and -447, to evaluate the impacts of the marsh on groundwater levels. Alternatively, it may be sufficient to observe an indicator well, such as MAFB-447, monthly to discern if and how rapidly the marsh may be affecting water levels and to discern whether additional observations in other wells are warranted. The Air Force may decide to incorporate the emergent marsh into the Site 7 groundwater flow model and perform a calibration. However, the additional water level data will be the current priority. Once adequate data has been collected, the model may be updated.

Temporarily abandoned groundwater monitoring wells MAFB-286, MAFB-256, and MAFB-262 should be rehabilitated and redeveloped as funding allows. These wells were temporarily abandoned due to impending mining activities. MAFB-286, screened in Unit C to the west of the upgradient portion of the plume, would be the most useful of the three wells for constraining the MCL boundary between existing wells MAFB-391 and -393. MAFB-256 and -262 are screened in the perched zone and Unit D, respectively, and are a lower priority because they are not expected to be located in contaminated portions of the aquifer. However, all these wells will be required to be rehabilitated so they can be either used or abandoned.

6.0 MAIN BASE/SAC AREA REMEDIAL PERFORMANCE MONITORING PROGRAM

This section discusses the remediation history of the Main Base/SAC Area Plume and describes the groundwater extraction and treatment system. Additionally, this section discusses the performance monitoring for the groundwater extraction and treatment system for the Main Base/SAC Area Plume for 2009. COCs and their respective cleanup levels identified for the Main Base/SAC Area Plume, and a summary of COC detections for 2009, are shown in Table 6-1.

The Main Base/SAC Area Plume is about 3.4 miles long and consists of two commingled plumes. Contaminants have been found in monitoring wells in three HSG units of the Laguna Formation as deep as 260 feet bgs (approximately 185 feet below the water table). The deepest contamination occurs below the northwest base boundary and continues downgradient to the southwest.

6.1 MAIN BASE/SAC AREA PLUME REMEDIAL HISTORY

The remedial action for the Main Base/SAC Area Plume as outlined in the *Superfund Record of Decision: Soil Operable Unit Sites and Groundwater Operable Unit Plumes* (AFBCA, 1996), includes groundwater extraction, air stripping with off-gas treatment (carbon adsorption) as necessary, reinjection, and groundwater monitoring. The remedial system is installed and has been operating since 1998.

Construction of Phase I of the groundwater extraction and treatment system for the Main Base/SAC Area Plume was completed in early spring 1998. The Main Base/SAC Area system began continuous operation in April 1998. Phase I of groundwater remediation of the Main Base/SAC Area Plume emphasized mass removal from “hot spots” in the Main Base/SAC Area Plume that were identified on Mather property. A hot spot is defined as an area having contaminant concentrations at least 10 times the cleanup level for one or more contaminants. Twelve extraction wells were initially installed as part of the Phase I Main Base/SAC Area treatment system.

As part of the initial Phase II/III system expansion, completed in January 2000, 12 additional extraction wells were installed and connected to the system. The Phase II wells were installed in

hot spots that extended beyond Mather, and the Phase III extraction wells were installed to more aggressively remediate groundwater near source areas at Mather, particularly at Sites 23C and 57. During second quarter 2001, three additional Phase III extraction wells (EW-6ABu, EW-7B, and EW-3D) were installed to complete the Phase III system expansion. The three new extraction wells were brought on line during the third quarter of 2001.

During second quarter 2002, eight extraction wells (EW-4Bu, -4D, -5D, -6D, -9B, -10B, -11B, and -12AB) were installed as part of the Phase IV expansion of the Main Base/SAC Area remedial action. The objective of the Phase IV expansion was to augment the existing extraction system, primarily in the off-base portions of the Main Base/SAC Area Plume, and to increase the area of hydraulic capture imparted by the extraction wells installed under the previous three groundwater remediation phases. The Phase IV extraction wells were brought on line in September 2002.

A supplemental Phase IV extraction well, MBS EW-12B, was installed in September 2004 to capture the toe of the plume in Unit B. Startup for EW-12B occurred in May 2005 but damage to the sump in the bottom of the well prevented the well from running continuously. A packer was installed in the sump to keep sediment from entering the screen from deeper in the sump, and the well was redeveloped in early December 2005. With the exception of routine maintenance issues, EW-12B has run continuously since that time. MBS EW-1A and EW-2A were replaced by two new wells, MBS EW-7ABu and EW-2AR, which began operation in March 2005.

Extraction well MBS EW-13BuB was installed near the intersection of Happy Lane and Kiefer Boulevard in late 2007, and began operation in April 2008. The purpose of MBS EW-13BuB was to address the known extent of the Southwest Lobe of the Main Base/SAC Area Plume that was beyond the capture of the other extraction wells. MBS EW-13BuB has screened intervals in the Bu, shallow B (Bs), and deep B (Bd) HSG units. A focused CZA for the Southwest Lobe was submitted in 2009 (MWH, 2009d).

Figure 6-1 shows the layout of the groundwater extraction and treatment system as of December 2009, including extraction wells, injection wells, and underground piping.

6.2 MAIN BASE/SAC AREA TREATMENT SYSTEM AND PLUME MONITORING

The objectives of the Main Base/SAC Area monitoring program are to document progress and gauge effectiveness of the installed remedial action by:

- Evaluating the hydraulic influence imposed by the groundwater extraction system (capture) by monitoring physical drawdown and interpreting potentiometric surfaces.
- Monitoring compliance with discharge treatment standards by sampling and analyzing influent and effluent from the treatment system. Influent concentrations are used to calculate air emissions from the treatment system.
- Evaluating changes in plume dimensions and COC concentrations, particularly within areas of higher concentrations and near plume boundaries.
- Quantifying mass removal from the plume by measuring contaminant concentrations and extraction well flow rates.

The Main Base/SAC Area Plume monitoring network consists of groundwater monitoring wells and piezometers completed in HSG Units A, B, and D in addition to the 30 extraction wells operating in 2009, four injection wells, and the treatment plant.

With the exception of adding diffusion sampling methodology to selected wells, the performance of the groundwater extraction and treatment system for the Main Base/SAC Area Plume during 2009 was monitored in general accordance with the *Addendum to the Basewide Groundwater Monitoring SAP for Main Base/SAC Area Performance Sampling – Revision-1* (Main Base/SAC Area SAP Addendum [Montgomery Watson, 2000a]). Main Base/SAC Area performance monitoring during 2009 was conducted in accordance with the sampling plan presented in the *2009 Groundwater Monitoring Program Sampling Plan* (MWH, 2009b). Diffusion sampling was conducted in accordance with the diffusion sampling standard operating procedure contained in Appendix B of the *2004 Groundwater Monitoring Program Evaluation Report* (MWH, 2005).

Detections of COCs for wells that monitor the Main Base/SAC Area Plume are presented in Table 6-1. Analytical results for all groundwater samples collected in 2008 and 2009 are presented in Tables A-1 through A-4 in Appendix A. Isoconcentration contours for individual and composite COC concentrations in the water table and HSG Units B and D are presented on Figures 6-2 through 6-12. Appendix C provides time-concentration plots of TCE, PCE, and CCl_4 for all individual wells.

6.2.1 Operations, Maintenance, and Monitoring of Extraction Wells, Groundwater Treatment Plant, and Injection Wells

The Main Base/SAC Area Plume Groundwater Treatment System, including extraction wells, injection wells, and the treatment plant, operated in general accordance with the *Operations and Maintenance Manual for the Groundwater Extraction and Treatment System for the Main Base/SAC Area Plume* (Montgomery Watson, 1998).

Extraction Wells. During 2009, monitoring of the extraction wells included depth-to-groundwater measurements and collection of groundwater samples from the following 30 active Main Base/SAC Area extraction wells, organized by HSG position:

- Extraction wells screened across the water table and Unit Bu: EW-1ABu, -1Bu, -2AR, -2ABu, -4ABu, -4Bu, -5ABu, -6ABu, -7ABu, -12AB, and -39ABuB
- HSG Unit Bu/B: EW-1B, -2B, -3B, -4B, -5B, -6B, -7B, -8B, -9B, -10B, -11B, -12B, and -13BuB
- HSG Unit D: EW-1D, -2D, -3D, -4D, -5D, and -6D

The following wells shown on Figure 6-1 are no longer used for extraction and did not operate in 2009: 39EW02, 19EW01, EW-1A (replaced by EW-7ABu), -2A (replaced by EW-2AR), -3A, -4A, -5A, and -3Bu.

Groundwater samples collected from the extraction wells during 2009 were analyzed for VOCs by EPA Method SW8260B; this method includes analyses for BTEX constituents (benzene, toluene, ethylbenzene, and total xylenes) for selected extraction wells (in accordance with the 2009 sampling plan) that are located near known or suspected fuel source areas (Montgomery Watson, 2001b). Electrical conductivity (EC), pH, temperature, and turbidity were recorded during the sample collection process at each well but are not tabulated in this report. Table 6-2 presents the quarterly average flow rate and volatile COC concentration and the yearly mass removed for each extraction well.

Groundwater Treatment Plant. Table 6-2 also presents the quarterly average flow rate, quarterly influent concentrations, and total mass removed for 2009 by the Main Base/SAC Area Treatment Plant. Water samples were collected quarterly from the air stripper influent and analyzed for VOCs, TPH, general minerals, and metals. Water samples were collected biweekly

from the air stripper effluent for VOCs and quarterly for TPH, perchlorate, general minerals, and metals analyses.

Figure 6-12 shows the cumulative VOC mass removed, volume of water treated, and influent concentrations for the Main Base/SAC Area treatment plant. By the end of 2009, the plant had treated nearly 7.3 billion gallons of water and had removed approximately 3,492 pounds of VOCs since operation began in 1998. The average air emission discharge rate from the strippers for 2009 was 0.25 pound per day (lbs/day) of reactive organic compounds (ROCs) plus PCE (which is not regulated as an ROC for the Mather program) and the maximum observed emission rate was 0.31 lbs/day of ROCs plus PCE, well under the air ROC emission standard of 10 lbs/day. Additional discussion of air emissions compliance is presented in Appendix D.

During 2009, the treatment system effluent complied with discharge standards. The biweekly effluent analytical results are provided in Appendix A. TCE was detected in the 10 December 2009 effluent sample at 0.21FB µg/L. The B flag denotes that TCE was also detected in the method blank, in this case at 0.22F µg/L. TCE also was detected at similar concentrations in the AC&W and Site 7 treatment system effluent samples collected on the same date. Therefore, the TCE detection in the effluent sample is likely due to laboratory contamination. No VOCs were detected in the subsequent biweekly effluent sample.

Injection Wells. In 2009, all four injection wells received treated water from the groundwater treatment system. The quarterly average flow rates for each injection well are presented in Table 6-2. The injection capacity of the system was sufficient to handle the entire volume of treated groundwater. Water sample collection is not required from the injection wells because the injected water is treated to discharge treatment standards, as verified by the analytical data from the air stripper effluent samples.

6.2.2 Plume Monitoring and Distribution

Changes in plume distributions for the water table/Unit Bu and HSG Units B and D are discussed below. Included are brief updates for each of the four areas of concern identified in the Main Base/SAC Area CZA (MWH, 2007b). A 2009 analytical detection summary for wells that monitor the Main Base/SAC Area Plume is provided in Table 6-1. Time-concentration plots of TCE, PCE, and CCl_4 for the monitoring wells through fourth quarter 2009 are presented in

Appendix C. For a generalized view of the conceptual model through the northern and central portions of the Main Base/SAC Area Plume, please refer to hydrogeologic cross sections M1 and M2 included in Appendix M of the *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e).

Water Table. Figures 6-2 through 6-5 illustrate the distribution of TCE, PCE, CCl_4, and 1,1-DCE at the water table beneath Mather, respectively. The compounds above were the only COCs detected above cleanup levels in the water-table portion of the Main Base/SAC Area Plume in 2009. The wells shown on these figures are screened in Units A, Bu, and B. The size and distribution of the water-table COC plumes in 2009 were generally consistent with previous years. Notable changes to the water-table COC plumes are described below.

In the regionally upgradient direction, COCs were only detected above cleanup levels at groundwater monitoring well MAFB-405 (TCE at 27 µg/L) and groundwater extraction well MBS 39ABuB (PCE at 5.9 µg/L). Two active extraction wells in this area, MBS EW-12AB and MBS EW-7ABu, did not have any COC detections above cleanup levels during 2009. The *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e) contained a recommendation to discontinue groundwater extraction at those wells; they were turned off in February 2010.

One new water-table monitoring well, MAFB-436, was installed near the intersection of Lemay Street and Macready Avenue (Figures 6-2 to 6-5). MAFB-436 was installed to delineate the upgradient extent of contamination, primarily TCE and CCl_4, observed at MAFB-414. The baseline sample collected from MAFB-436 in fourth quarter 2009 contained PCE at 4.3 µg/L; no other COCs were detected.

Water-table monitoring well MAFB-439 was installed in 2008 to replace MAFB-160, which has been dry since 2002. Before going dry, MAFB-160 routinely had detections of PCE and CCl_4 above hotspot concentrations (10 times the cleanup level). A baseline sample from MAFB-439 collected in fourth quarter 2008 contained PCE and CCl_4 at 33 and 7.2 µg/L, respectively. MAFB-439 was sampled quarterly in 2009 and PCE and CCl_4 were detected at concentrations up to 77M and 14 µg/L, respectively. The source for the COCs at MAFB-439 is unclear; the well is roughly cross-gradient from Site 59, downgradient from Site 29, and upgradient from Site 18. COCs were not detected above cleanup levels in 2009 samples at water-table monitoring wells

MAFB-033, -090, or -212, located south to southwest from MAFB-439. The groundwater elevation contours on Figures 6-2 through 6-5 indicate the direction of flow in this area is to the south-southeast, which is likely due to the pumping from the underlying aquifer by Unit B groundwater extraction wells MBS EW-2B and -3B.

The TCE, PCE, and CCl_4 MCL and hotspot plumes in the Site 57 area were stable in 2009, a result of groundwater extraction in this source area. Five extraction wells (MBS EW-1ABu, -2ABu, -4ABu, -5ABu, and -2AR) continued to extract relatively high concentrations of TCE, PCE, and CCl_4 (Table 6-1) and all were effective at removing mass from the plume (Table 6-2). Extraction well MBS EW-6ABu, also located near the Site 57 source area, has not had any COC detections above cleanup levels since fourth quarter 2003. The *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e) contained a recommendation to discontinue groundwater extraction MBS EW-6ABu and the well was turned off in February 2010.

An area of TCE contamination above cleanup levels persists in the vicinity of water-table wells MAFB-247 and -417, located east of the Site 57 source area (Figure 6-2). The northern portion of this lobe, near MAFB-417, is likely captured by the Site 57 source area extraction wells. TCE was detected at 5.3M µg/L in a sample collected from MAFB-247 in April 2009, which is consistent with historical results. It is noteworthy that CCl_4, which had consistently been detected above the cleanup level at MAFB-247 since 1996, was not detected in the April 2009 sample. Although the interpreted fate of contaminants at MAFB-247 is subject to some uncertainty related to interpretation of the groundwater gradients, the concentrations observed at the well are low and the mass of any uncaptured contamination is likely to be negligible. Installation of additional monitoring wells in this area is not warranted as long as COCs are close to aquifer cleanup levels.

Groundwater samples collected from groundwater extraction well MBS EW-1Bu show that the well is no longer effectively remediating the Main Base/SAC Area plume. COCs have not been detected above cleanup levels in four consecutive samples at this well, and a second quarter 2007 TCE detection at 5.3 µg/L is the only result above the cleanup level since 2004. Low concentrations, combined with a relatively low flow rate, resulted in the removal of only approximately 0.1 pound of VOCs at this well during 2009. Extraction well MBS EW-4Bu, located east of EW-1Bu, is sufficient to contain the plume in this area. It is recommended that MBS EW-1Bu be turned off upon concurrence with this report by the remedial project managers.

The interpreted extent of the MCL volume (primarily TCE; Figure 6-2) at the southwesternmost extent of water-table contamination increased slightly relative to previous years. Baseline samples collected from groundwater monitoring well MAFB-452Bu, which was installed in late 2008 but not sampled until 2009, provided better definition of the TCE and PCE plumes in this area. TCE and PCE were detected at MAFB-452Bu at concentrations up to 19 and 5.7M µg/L, respectively, during 2009. Additionally, a sample from MAFB-425 contained TCE at 5.1 µg/L, slightly above the cleanup level.

Dry Water-Table Wells and Data Quality Objectives. Continued overall decline in water levels have left many former water-table wells dry leaving them no longer useful for evaluating groundwater quality. Appendix J contains a list of wells that were dry during at least one quarter of 2009. Assuming continued decline of water levels, these wells are not expected to recover. The primary water-quality data objectives for in-plume water-table wells are to monitor progress toward cleanup and/or to serve as performance monitoring wells for adjacent extraction wells if applicable. Objectives for remaining wells include definition of the boundaries of the MCL volumes for the plume(s). There are three primary areas for the Main Base/SAC Area Plume where dry water-table wells may be impacting these data-quality objectives and where selected dry wells may potentially need to be replaced. Each area is discussed separately below.

The first area includes six dry wells located southwest of the Site 57 area and west of the former base boundary. The dry wells include MAFB-121, -122, -123, -124, -159, and MBS PZ-59. Two of the wells, MAFB-123 and -159 are co-located with former Unit B wells (MAFB-176 and MAFB-174, respectively) that have been reclassified as water-table wells as water levels have declined. These former Unit B wells have replaced wells MAFB-123 and -159 to monitor the upper portion of the saturated aquifer. Monitoring wells MAFB-122 and -124 have had consistent historical detections of TCE and PCE below the MCL (well concentrations are less than 2.5 µg/L) and are no longer useful as in-plume or boundary wells. These two wells are assigned reserve sampling status in the 2010 Sampling Plan but water levels are not expected to recover in the future. Piezometer MBS PZ-59 had no detections of VOCs during a discretionary sampling event in 2002 and is not part of the routine water-quality sampling program. The remaining well, MAFB-121, had TCE at concentrations between 5 and 10 µg/L before the well went dry in 2008. This well is co-located with a Unit B well, MAFB-173, but there is approximately 37 feet of vertical separation between the base of the screen for MAFB-121 (-14.8 ft msl) and the top of the screen for MAFB-173 (-51.3 ft msl). Well MAFB-121 will be

further evaluated for replacement under the performance-based remediation contract in the 2010 annual groundwater monitoring report.

The second area includes in-plume and boundary defining water-table wells in the Site 57 Area. The dry water-table wells and piezometers include MAFB-201, -202, -203, -204, -206, -208, -209, -210, MBS PZ-01, and PZ-04. In addition, fourth-quarter 2009 water level data indicates that only 1.4 feet of water remained above the base of the screen for well MAFB-207, and as such, this well is expected to become dry in 2010 or 2011. Well MAFB-208 is currently on reserve status, piezometers MBS PZ-01 and PZ-04 are not part of the sampling program, and the remaining wells are currently on a biennial sampling schedule. All of these wells were designed as in-plume, plume-boundary, or extraction well performance monitoring wells when water levels were about 10 feet higher than current levels. As water levels have declined, the Air Force has installed three replacement water-table wells; MAFB-417 (replacing MAFB-208), MAFB-418 (replacing former piezometer MBS PZ-03), and MAFB-420 (replacing former piezometer MBS PZ-02. It is important to note that all of the remaining wells, MAFB-201, -202, -203, -204, -206, -207, -209, and -210 are co-located with Unit-B wells (MAFB-216, -217, -218, -219, -223, -224, -225, and -226, respectively). The Unit-B wells in this area are designed to monitor coarse sand and gravels of the middle unit of the Laguna Formation (Unit B channel fill deposits) whereas the water-table wells are designed to monitor finer-grained silt and silty sand of the overlying upper unit of the Laguna Formation (Unit A overbank deposits). The declining water table is encroaching upon the stratigraphic boundary between Unit A and Unit B. An important consideration in replacing water-table wells in this area is to ensure that replacement wells are screened in the remaining saturated portion (if any) of Unit A. Among the higher priority wells to consider for replacement are in-plume wells MAFB-207 and -210 (for TCE and CCl_4, respectively, Figures 6-2, and 6-4), and downgradient boundary defining wells MAFB-201 and -202. Well MAFB-201 also serves as a performance monitoring well for nearby extraction well MBS EW-1ABu. Based on a stratigraphic analysis, there appears to be an adequate thickness remaining in the saturated interval of Unit A beneath wells MAFB-202, -207, and -210 to consider a viable replacement well. A replacement well for MAFB-201 is more problematic as the current water table elevation is within 1 to 2 feet of the boundary between Unit A and Unit B at this location. These wells will be further evaluated for replacement under the performance-based remediation contract in the 2010 annual groundwater monitoring report.

The third area includes 7 dry wells in upgradient areas north of the Site 18/59 area in the general vicinity of the intersection of Macready Ave and Old Placerville Road. The dry wells in this area include MAFB-033, -092, -160, -187, -188, -212, and -244. Well MAFB-160 has already been replaced with well MAFB-439 and well MAFB-188 has already been replaced by well MAFB-419. The remaining hydraulically upgradient wells in this group, MAFB-092, -187, and -244 do not have historical VOC detections and these wells are neither in-plume nor plume boundary defining wells for the water table with respect to the VOC plume. However, replacements for wells MAFB-092 and -187 may be viable as these two wells are of potential significance for TPH monitoring related to releases from Site 29. The remaining two wells, MAFB-033 and MAFB-212 are currently on biennial and reserve sampling status, respectively. Historic contaminant concentrations in well MAFB-212 have been below cleanup levels since the second quarter 2002. In addition, this well is co-located with Unit B well MAFB-228 and a replacement well for MAFB-212 would encroach within about 15 vertical feet of the underlying Unit B well. As such, a replacement well is not being considered for well MAFB-212. Well MAFB-033 has monitored a portion of the upgradient TCE plume. TCE concentrations in this well declined from a high of 240 µg/L in the fourth quarter 2001 to 6.9 µg/L in the second quarter 2009. This well is an in-plume well with respect to TCE (Figure 6-2) and also serves as a boundary well for the CCl_4 plume (Figure 6-4). Well MAFB-033 is also co-located with an underlying Unit B well (MAFB-101). However, a replacement well with a 10 foot screen interval would result in a vertical separation of as much as 27 feet. These wells (MAFB-033, -092, and -187) will be further evaluated for replacement under the performance-based remediation contract in the 2010 annual groundwater monitoring report.

Unit B. Figures 6-6 through 6-8 illustrate the distribution of TCE, PCE, and CCl_4, respectively, in Unit B. The above compounds were the only COCs detected above cleanup levels during 2009 in Unit B of the Main Base/SAC Area Plume. These figures do not include data from wells that are screened across the water table or monitoring wells that are screened in Unit Bu. These plume maps depict fourth-quarter 2009 results and results from other wells not sampled during the fourth quarter but sampled within the previous 2 years. Notable results from 2009 are discussed below.

COC concentrations in several Unit B groundwater extraction wells along Old Placerville Road continued to decline in 2009. These wells include MBS EW-1B, -4B, -6B, and -8B. The second-quarter 2009 sample collected at MBS EW-1B was the second consecutive sample where no

COCs were detected above cleanup levels; the previous sample was collected in second quarter 2008. The only COC above the cleanup level at EW-4B in 2009 was PCE, detected at 5.5 μg/L in second quarter 2009. The past three consecutive samples from EW-6B, dating back to fourth quarter 2007, have not contained COCs above cleanup levels. The *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e) contained a recommendation to stop extraction at EW-8B because COCs had not been detected above cleanup levels since 2004 and the well was no longer contributing to the capture of the MCL volume. EW-8B was turned off in February 2010.

The interpreted extent of the Unit B CCl_4 MCL volume (Figure 6-8) generally decreased in 2009 relative to 2008. Several wells at which CCl_4 was detected slightly above the MCL in 2008 declined in 2009. At the regionally upgradient portion of the plume, this decline was observed at groundwater monitoring wells MAFB-282, -249, -229, and extraction well MBS EW-2B. For the western portion of the plume (beyond the base boundary) the decline was observed at groundwater monitoring wells (in order from east to west, in the direction of the regional gradient) MAFB-175, -364B, -261, -381B, -346Bd, -312, and -330. At the upgradient portion of the Southwest Lobe, declining CCl_4 concentrations were observed at MAFB-171, -167, MBS PZ-55B, MAFB-266, and -268.

One notable increase in the CCl_4 concentration was at MAFB-426, where the fourth-quarter 2009 detection of 1.5 μg/L was an all-time high. The previous maximum concentration at MAFB-426 was 0.92 μg/L from a sample collected in fourth quarter 2007. MAFB-426 is located near the western extent of capture for extraction well MBS EW-12B and, as such, is in an area of relatively flat horizontal hydraulic gradient (i.e., the stagnation zone). The residual contamination in this area, which has been observed since the well was installed in 2005, was present before operation of EW-12B. The CCl_4 plume is adequately bounded in the regionally downgradient direction by groundwater monitoring wells MAFB-354B, -388B, and -427.

The Main Base/SAC Area Plume CZA (MWH, 2007b) identified one area (Area 3) where the Unit B MCL volume was both undefined and uncaptured. Since the 2007 CZA report was issued, several new groundwater monitoring wells and one new extraction well have been installed in this area, also known as the Southwest Lobe of the Main Base/SAC Area Plume. The installation of three triple-completion monitoring wells (MAFB-429Bu/Bs/Bd, MAFB-431Bd/Ds/Dd, and MAFB-434Bu/Bs/Bd) and groundwater extraction well MBS EW-13BuB were

described in the *Annual and Fourth Quarter 2007 Groundwater Monitoring Report* (MWH, 2008). Three additional dual-completion groundwater monitoring wells (MAFB-449Bs/Bd, -457Bs\Bd, and -458Bs\Bd) were installed in 2008 in an attempt to delineate the VOC (primarily TCE) plume exceeding cleanup levels. All three wells were constructed with a screened interval in the shallow Unit B (Bs) gravels and another in the deep Unit B sands. No COCs have been detected above cleanup levels at the easternmost well, MAFB-449, or at MAFB-457Bd and MAFB-458Bs. TCE has been detected above the cleanup level at MAFB-457Bs and MAFB-458Bd, most recently at 10 and 5.5 µg/L, respectively, in fourth quarter 2009.

In response to the detections at MAFB-457Bs and -458Bd, 16 additional off-base wells (OFB-69 through OFB-83; Figure 2-1 and Figure 7-1) were sampled for VOCs in second quarter 2009 to supplement the existing monitoring data in this area. One well, OFB-72, had detections of PCE, TCE, and cis-1,2-DCE at 0.51, 3.8, and 0.49F J µg/L, respectively. A confirmation sample from OFB-72 contained PCE, TCE, and cis-1,2-DCE at 0.52, 3.6M, and 0.35F µg/L, respectively. OFB-72 is owned by Teichert and operates intermittently, filling a holding tank with water that is used to fill water trucks for dust control on the mining haul roads. OFB-72 was sampled quarterly for the remainder of 2009 and TCE concentrations remained stable. OFB-80 was also sampled quarterly and TCE was not detected at this well. One additional off-base well, OFB-85, was sampled in fourth quarter 2009 and no VOCs were detected.

As a result of the TCE detections at OFB-72, two dual-completion groundwater monitoring wells (MAFB-460Bs/Bd and MAFB-461Bs/Bd) were installed at the Southwest Lobe in fourth quarter 2009 (Appendix L). Both wells were constructed with screened intervals in shallow and deep Unit B, similar to regionally upgradient monitoring wells MAFB-449Bs/Bd, -457Bs/Bd, and -458Bs/Bd. MAFB-460 and -461, along with other Southwest Lobe monitoring wells are shown in cross-sectional view on Figure 6-13. MAFB-460 was located between the observed TCE detections at MAFB-457Bs and MAFB-458Bd and off-base well OFB-72. Baseline samples collected from MAFB-460Bs and MAFB-460Bd in fourth quarter 2009 contained TCE at 3.7 and 0.29F µg/L, respectively. MAFB-461 was located west of MAFB-460 and closer to several off-base pumping wells (OFB-72, OFB-80, and OFB-85). No VOCs were detected in the baseline samples from MAFB-461Bs or MAFB-461Bd. The new wells help to define the MCL volume, the boundary of which lies between MAFB-457/-458 and MAFB-460.

Unit D. Figures 6-10 through 6-12 illustrate the Unit D MCL plumes for TCE, PCE, and CCl_4, respectively, for fourth quarter 2009. No other COCs were detected above cleanup levels during 2009 in Unit D. The majority of the MCL volume in Unit D decreased or remained stable in 2009 as a result of continued groundwater extraction and removal of VOCs (Table 6-2) by the Main Base/SAC Area extraction system.

One area of uncertainty identified in the *Main Base/SAC Area Plume Capture-Zone Analysis* (CZA; MWH, 2007b) was the deeper portion of Unit D beneath groundwater monitoring well MAFB-102 and extraction wells MBS EW-1D, -2D, and -3D; this area was designated in the report as Area 1. Two wells were installed in 2007 to monitor this area. The first, MAFB-430, was installed between, and deeper than, MBS EW-1D and EW-3D. CCl_4 was detected at 0.77 µg/L in the second-quarter 2009 sample from MAFB-430, which is the highest detection at the well through 2009. The second well, MAFB-435, was installed near the intersection of Routier Road and Old Placerville Road (co-located with MAFB-180), to provide vertical constraint to the PCE and CCl_4 concentrations observed at MAFB-180. PCE and CCl_4 were detected above cleanup levels in all four samples collected from MAFB-435 in 2009. PCE and CCl_4 concentrations observed at MAFB-435 have been as high as 15M µg/L (third quarter 2009) and 2.7 µg/L (second quarter 2009), respectively, but decreased to 9.1 and 1.1 µg/L, respectively, in fourth quarter 2009. COC concentrations at MAFB-435 are roughly an order of magnitude less than those observed in MAFB-180.

In late 2008, the Air Force began measuring water levels more frequently from several wells in Area 1 to better understand seasonal patterns in the vertical gradient. Hand-measured water levels are presented in the table below. Water elevations, including measurements calculated from pressure transducer logs for one well pair, MAFB-180 and -435, are presented on Figure 6-14.

Date	MAFB-320	MAFB-430	Head Difference		MAFB-180	MAFB-435	Head Difference
1/1/2008	-14.28	-14.11	0.17		-19.06	-17.45	1.61
4/1/2008	-15.08	-15.55	**-0.47**		-19.33	-18.38	0.95
10/1/2008	-22.8	-25.27	**-2.47**		-26.56	-27.8	**-1.24**
11/26/2008	-17.02	-17.4	**-0.38**		-22.48	-21.94	0.54
12/30/2008	-15.27	-15.05	0.22		-20.3	-19.42	0.88
1/30/2009	-15.04	-14.86	0.18		-19.45	-19.09	0.36

Date	MAFB-320	MAFB-430	Head Difference		MAFB-180	MAFB-435	Head Difference
3/11/2009	-13.71	-12.98	0.73		-19.03	-17.41	1.62
4/8/2009	-15.27	-14.26	1.01		-20.58	-19.1	1.48
5/18/2009	-17.43	-17.66	**-0.23**		-22.86	-22.2	0.66
5/29/2009	-19.78	-20.48	**-0.70**		-24.25	-24.09	0.16
6/19/2009	-21.56	-23.3	**-1.74**		-25.87	-27.53	**-1.66**
7/15/2009	-23.97	-27.19	**-3.22**		-28.73	-30.6	**-1.87**
8/16/2009	-25.86	-30.95	**-5.09**		-30.68	-32.49	**-1.81**
9/8/2009	-25.38	-31.02	**-5.64**		-29.69	-31.91	**-2.22**
10/6/2009	-22.26	-26.69	**-4.43**		-27.42	-27.92	**-0.50**

Note: head differences corresponding to downward gradients are in bold font.

MAFB-320 is located adjacent to MBS EW-1D, but is screened below the extraction well, from -123.25 to -138.25 ft msl. MAFB-430 is located approximately 300 feet east-northeast of MBS EW-3D and is screened from -183.46 to -193.46 feet msl (deep Unit D). The October 2008 head in MAFB-320 was greater than the head in MAFB-430 (a difference of approximately 2.5 feet); the direction of the vertical gradient was downward. Since that time, the head difference between the wells has ranged from -0.38 to 1.01 feet (negative values corresponding to downward gradients). The gradient direction varies through time and is likely controlled by seasonal patterns of regional pumping. During times of upward gradient, the risk for downward migration of contaminants (from the depth of MAFB-320 to the depth of MAFB-430, in this case) is minimized.

Figure 6-14 illustrates water-level trends in MAFB-180 and MAFB-435. Both MAFB-180 (screened from -97.13 to -112.13 feet msl) and MAFB-435 (screened from -175.25 to -185.25 feet msl) are located near the intersection of Routier Road and Old Placerville Road. The hydrographs for MAFB-180 and MAFB-435 indicate that gradients were upward during the winter and early spring months of 2009, when water levels were highest. Gradients were downward during the period of lowest water levels, corresponding roughly to June through October 2009 when regional pumping was presumably greater. The gradient neutralized in late fall, and by the end of the year the gradient direction was once again upward. The implication of this focused water-level study is that the potential for downward contaminant migration (Unit D to deep Unit D) does exist. However, the relatively low concentrations of PCE and CCl_4 (approximately twice the aquifer cleanup level) mean that dilution, which would be associated

with any downward migration to deeper water-bearing zones, would prevent subsequent contaminant migration at concentrations significantly exceeding cleanup levels in Area 1.

Another location identified as an area of uncertainty in the 2007 CZA (MWH, 2007b) was the area around Unit D groundwater monitoring wells MAFB-102 and FFS MW15-6 (CZA Area 2). Two new monitoring wells, MAFB-441 and MAFB-442, were installed to characterize the horizontal and vertical extents, respectively, of TCE and CCl_4 detections at MAFB-102 and FFS MW15-6. No notable VOC detections have been reported in samples collected since fourth quarter 2008 at MAFB-441 or MAFB-442. It should be noted that 2009 VOC detections at MAFB-102 and FFS MW15-6 were within historical ranges with the exception of an all-time high CCl_4 detection (2.5 μg/L) at FFS MW15-6. The previous maximum concentration was 1.0 μg/L, observed in third quarter 2001, fourth quarter 2005, and second quarter 2008.

The western lobe of the Unit D CCl_4 MCL volume decreased in 2009 relative to 2008. CCl_4 was not detected during 2009 at groundwater monitoring wells MAFB-327 and -332 and extraction well MBS EW-6D, all of which had CCl_4 detections above the cleanup level in 2008. The only monitoring well in this area with CCl_4 concentrations above aquifer cleanup levels during 2009 was MAFB-318. The area around MAFB-318 was identified in the 2007 CZA (MWH, 2007b) as CZA Area 4, a location where capture was uncertain. Quarterly samples from MAFB-318 contained CCl_4 at concentrations ranging from 0.65J to 4.0 μg/L; the third-quarter 2009 detection at 4.0 μg/L was an all-time high for this well. The current understanding is that contamination at MAFB-318 is captured by the Moonbeam Way supply well, which is equipped with a granular activated carbon (GAC) wellhead treatment system operated by the Air Force in 2009. Several Unit D groundwater monitoring wells, including MAFB-388Ds, -443 (installed as a result of the 2007 CZA), -336, and -382D, are located regionally downgradient from MAFB-318, and CCl_4 has not been detected above the cleanup level at any of these wells.

6.3 CONCLUSIONS AND RECOMMENDATIONS

The treatment system is effectively removing mass from the Main Base/SAC Area Plume and provides hydraulic control for the majority of the plume. Continued monitoring activities at the two deep Unit D Area 1 wells (MAFB-430 and -435) revealed that the wells are near the vertical extent of the MCL boundary. The extent of Southwest Lobe has now been defined by new wells MAFB-460 and MAFB-461.

Four Main Base/SAC Area Plume groundwater extraction wells were turned off in early 2010 as a result of recommendations made in the *Annual and Fourth Quarter 2008 Groundwater Monitoring Report* (MWH, 2009e). The four wells were MBS EW-12AB, MBS EW-7Abu, MBS EW-6Abu, and MBS EW-8B. The Main Base/SAC Area Plume groundwater extraction is successfully implementing the remedy, and should generally continue to operate using the same flow-rate set points for the remaining 26 extraction wells. The only exception is the recommendation to stop extraction at MBS EW-1Bu. EW-1Bu no longer removes significant VOC mass and is not necessary for capture of the MCL volume.

Groundwater sampling should continue according to the sampling frequencies outlined in the *2010 Mather* Groundwater *Monitoring Program Sampling Plan* (MWH, 2010). Water level and vertical gradient trends at the new Area 1 wells (MAFB-430 and MAFB-435) have been established and the additional water-level monitoring there is no longer warranted unless the Air Force receives information that Cal-Am is changing the pumping patterns at nearby supply wells (particularly the Mars Way well). More-frequent monitoring of water levels is warranted at the newest Southwest Lobe wells (MAFB-460 and MAFB-461). Pumping patterns of private wells in this area have not been established and frequent monitoring of water levels (i.e., via pressure transducers with data loggers) at the monitoring wells may help to qualitatively understand their impacts. It is recommended that pressure transducers be placed in wells MAFB-457Bs, -458Bd, -460Bs, and -461Bs during 2010 to establish water-level trends in this area and to understand the impacts of pumping wells that may impact plume migration.

Selected dry water-table monitoring wells will be further evaluated for replacement under the performance-based remediation contract in the 2010 annual groundwater monitoring report. These wells include: MAFB-033, -092, -121, -187, -201, -202, -207, and -210.

7.0 OFF-BASE WATER-SUPPLY WELL MONITORING PROGRAM

Of the 10 drinking-water wells included in the Off-Base Monitoring Program, eight are owned by California American Water Company (Cal Am) and two are owned by the County of Sacramento (Figure 7-1). Of the wells owned by Cal Am, samples were scheduled to be collected in 2009 from OFB-4 (influent sample for GAC treatment system) monthly, and from OFB-27, -31, -32, -49, -54, -55, and -56 quarterly. The two county wells (OFB-51 and OFB-52) were scheduled to be sampled quarterly, and the treatment system associated with these two wells was scheduled to be sampled monthly. All samples were analyzed for VOCs using EPA Method 524.2.

The analytical results (shown in Table 7-1 for quarterly samples and Table A-1 for all samples) for 2009 are summarized below. Detailed descriptions of supply well monitoring, including monthly maintenance activities at the GAC systems, are provided in monthly *Off-base Wellhead Treatment System and Supply Well Sampling* reports. Note that minor detections of trihalomethanes, which are not identified as COCs originating from Mather, are not described below. Refer to the monthly reports for more details on trihalomethane detections.

7.1 SUPPLY WELL MONITORING AND MAINTENANCE

- **OFB-4 – Moonbeam:** This well continued to operate with a dual-canister GAC system during 2009 to remediate CCl_4 present in extracted water. The GAC system treated water at an average flow rate of 412 gpm during 2009. CCl_4 was detected in monthly influent samples at concentrations ranging from nondetect to 0.26 µg/L. The average CCl_4 concentration was 0.17 µg/L, which is consistent with historical results. A carbon changeout was performed on the lead vessel in March 2009 after two mid-GAC samples collected in January and February contained CCl_4 at 0.21 µg/L and 0.22 µg/L, respectively. Per the Contingency Plan (AFRPA, 2008), changeouts are only performed if contaminants in the mid-GAC samples are greater than the practical quantitation limit (PQL) (0.20 µg/L for CCl_4 using EPA Method 524.2).
- **OFB-27 – Mars:** PCE concentrations ranged from nondetect to 0.066FM µg/L in samples collected from the Mars Way supply well in 2009. TCE was detected in the first-, second-, and third-quarter 2009 samples at estimated concentrations of 0.051FB µg/L, 0.044F µg/L, and 0.045F µg/L, respectively.
- **OFB-31 – Gould:** PCE was detected in the first-, second-, and third-quarter sample at estimated concentrations ranging from 0.10F µg/L to 0.18F µg/L. TCE was only detected in the third-quarter 2009 sample at an estimated concentration of 0.072FM µg/L. The PCE and TCE detections are well below the respective MCLs for each compound and do not warrant further actions, based on the requirements set forth in the Contingency Plan (AFRPA, 2008).

- **OFB-32 – Nut Plains:** Chloroform was detected in the first-quarter 2009 sample an estimated concentration of 0.042F µg/L. No other VOCs were detected during 2009.
- **OFB-49 – Oaken Bucket:** The only contaminant detections at the Oaken Bucket supply well in 2009 were minor detections of trihalomethanes, which is consistent with historical results.
- **OFB-54 – South Port:** No VOCs were detected in 2009. These results are consistent with historical data.
- **OFB-55 – Westporter:** No VOCs were detected in fourth-quarter 2009 sample. Note that the Westporter well was off line from the beginning of the year through September (refer to the in-text table at the end of Section 2)**.**
- **OFB-56 – Tallyho #2:** No VOCs were detected in 2009. These results are consistent with historical data.

Drinking-water wells OFB-51 (Juvenile Hall No. 1) and OFB-52 (Juvenile Hall No. 2) are owned by the County of Sacramento and supply water to the County's Branch Center complex. One dual-canister GAC treatment system serves both wells. Groundwater samples are collected quarterly from OFB-51 and OFB-52. Samples from the influent and from between the GAC vessels (mid-GAC) were collected and analyzed monthly in 2009. The 2009 analytical results from these wells are as follows:

- **OFB-51 – Juvenile Hall No. 1:** The primary contaminant detected in the OFB-51 wellhead samples during 2009 was CCl_4, which was detected in each of the quarterly samples at concentrations ranging from 0.47 µg/L to 0.64J µg/L. No other VOCs were detected during 2009 (Table 7-1).
- **OFB-52 – Juvenile Hall No. 2:** The primary contaminant detected in the OFB-52 wellhead samples during 2009 was CCl_4, which was detected in first-, second-, and third-quarter samples at concentrations ranging from 0.19F µg/L to 0.46J µg/L. Minor detections of PCE, TCE, and cis-1,2-DCE were also reported in one or more 2009 samples (Table 7-1).
- **OFB-51/52 – Treatment System Sampling:** The treatment system is equipped with a dual-canister GAC system that treated water at an average flow rate of 79 gpm during 2009. Monthly samples were collected from the treatment system influent, mid-GAC, and effluent (treatment system effluent sample is only collected when there is a detection in the mid-GAC) and analyzed using EPA Method 524.2 for drinking water. CCl_4 was detected in all but the October monthly treatment system influent samples at concentrations ranging from 0.28 µg/L to 0.55J µg/L. Minor detections of PCE, TCE, and cis-1,2-DCE were also reported in one or more influent samples in 2009. A carbon changeout was performed on the lead vessel in October 2009 after two mid-GAC samples collected in July and August contained CCl_4 at 0.20 µg/L and 0.20 µg/L, respectively. Effluent samples collected in January, August, and September 2009 had no VOC detections.

Analytical results, including those from all 10 supply wells in the program, are reported in monthly letter reports to the AFRPA, regulatory agencies, Sacramento County Department of Water Resources, and Cal Am. The monthly reports include results from monthly samples collected at the wellhead, between GAC canisters, and from treated effluent.

7.2 ANNUAL MONITORING OF PRIVATE WATER-SUPPLY WELLS

Annual samples were collected from 32 of 38 scheduled private water-supply wells during 2009 (Figure 7-1). Note that none of the wells listed in the Happy Lane and Old Placerville Road vicinity are used for potable water supply; in the 1980's the Air Force paid Citizens Utilities Company of California (now Cal Am) to install a water main to serve those well owners. OFB-08, OFB-11, OFB-41, and OFB-42 were not operable during 2009, and the owner of OFB-03 did not grant permission to sample the well. OFB-84 was not operable during the 2009 sampling; it was recently constructed and power had not yet been connected to the pump motor. Wells numbered OFB-69 and above were sampled for the first time by AFRPA in 2009. Analytical data from the wells sampled are presented in Table A-1 and notable detections are summarized below:

- **OFB-06 –4294 Happy Lane:** No VOCs were detected in 2009. The results are consistent with historical results. The well pump was removed after the 2003 sampling event. Sampling has been accomplished with a bailer since 2004.
- **OFB-07 – 4274 Happy Lane:** TCE and PCE were detected at concentrations of 3.7 µg/L and 0.39F µg/L, respectively, during second quarter 2009. This well is utilized for irrigation and fish ponds; it is not used as a potable water supply.
- **OFB-09 – 4095 Happy Lane:** TCE and PCE were detected at 0.55 µg/L and 0.17F µg/L. The results are consistent with historical results. The all-time-high TCE detection at this well was 71 µg/L in 1996, but the well has been below the MCL since 2001. The decline in TCE at this well was likely a result of infiltration of water from the Granite siltation ponds nearby.
- **OFB-12 – 4016 Happy Lane:** TCE and CCl_4 were reported at 3.2 µg/L and 0.14F µg/L, respectively. The results are consistent with historical data. This well is used for irrigation purposes; it is not used as a potable water supply.
- **OFB-17 – 3900 Happy Lane:** VOCs were not detected during 2009. Historically, minor detections of TCE were reported in samples collected from this well.
- **OFB-24 – 9970 Old Placerville Road:** PCE was reported at 0.28F µg/L in the sample collected in second quarter 2009. Historically, detections of PCE and CCl_4 have been sporadic in this well. PCE has ranged from nondetect to 24 µg/L, and CCl_4 has ranged from nondetect to 2.9 µg/L. This well is used for irrigation purposes; it is not used as a potable water supply.

- **OFB-39 – 9760 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-40 – 9880 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-43 –9932 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-46 –10180 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-47 –10221 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-48 –10175 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-53 – 10204 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-57 –9815 Jackson Highway:** VOCs were not detected during 2009, consistent with historical results.
- **OFB-67 – 9721 Farm Lane:** VOCs were not detected during 2009, consistent with previous results.
- **OFB-68 – 4575 Bradshaw Road:** VOCs were not detected during 2009, consistent with previous results.
- **OFB-69:** VOCs were not detected during 2009.
- **OFB-70:** VOCs were not detected during 2009.
- **OFB-71:** VOCs were not detected during 2009.
- **OFB-72:** PCE and TCE were detected in the second-, third-, and fourth-quarter samples at concentrations ranging from 0.46FM µg/L to 0.52 µg/L and 3 µg/L to 3.8 µg/L, respectively. Minor detections of cis-1,2-DCE were also reported in the second and third quarter 2009 samples. Water from this well is used for dust control on mining roads; it is not used as a potable water supply.
- **OFB-73:** VOCs were not detected during 2009.
- **OFB-74:** VOCs were not detected during 2009.
- **OFB-75:** VOCs were not detected during 2009.
- **OFB-76:** VOCs were not detected during 2009.
- **OFB-77:** VOCs were not detected during 2009.
- **OFB-78:** VOCs were not detected during 2009.
- **OFB-79:** VOCs were not detected during 2009.
- **OFB-80:** VOCs were not detected during 2009.
- **OFB-81:** VOCs were not detected during 2009.
- **OFB-82:** VOCs were not detected during 2009.

- **OFB-83:** Minor detections of chloroform were reported in the second quarter 2009 sample.
- **OFB-85:** VOCs were not detected during 2009.

7.3 OFF-BASE PLUME DISTRIBUTIONS

The Main Base/SAC Area Plume extends westward off base (Section 6.0) and is found in the water table and HSG Units B and D. The distribution of contaminants and the configuration of the off-base portion of the Main Base/SAC Area Plume during 2009 are shown on Figures 6-2 through 6-11. Refer to Section 6 for a description of the Main Base/SAC Area Plume.

The Site 7 Plume also extends off base southwestward from the Site 7 Landfill (Section 5.0), and is found in the water table and HSG Units B and C. The distribution of contaminants and configuration of the Site 7 Plume is shown on Figure 5-1. Refer to Section 5 for a description of the Site 7 Plume.

8.0 ANALYTICAL DATA QUALITY SUMMARY

This section summarizes the QA/QC results for samples collected and data generated in support of AC&W, Main Base/SAC Area, Landfill, Site 7, and Off-Base groundwater monitoring, as well as AC&W, Main Base/SAC Area, Site 7, and Off-Base treatment system performance monitoring for the first through fourth quarters of 2009. The data quality was evaluated by examining the field and analytical programs. Sampling and analytical protocols for groundwater and performance monitoring during 2009 were established in the *Basewide Groundwater SAP* (Montgomery Watson, 1997b), *the AC&W Site SAP* (Montgomery Watson, 1997a), *Basewide Groundwater Monitoring SAP for Off-Base Sampling* (Montgomery Watson, 1997c), the *Addendum to the Basewide Groundwater Monitoring SAP for Main Base/SAC Area Performance Sampling – Revision 1* (Montgomery Watson, 2000a), and the *Addendum to the Basewide Groundwater Monitoring SAP for Site 7 Performance Sampling* (Montgomery Watson, 1999a). During 2009 sampling at Mather, an overall completeness of 99.97 percent was achieved, surpassing the goal of 95 percent.

8.1 FIELD PROGRAM

The analytical data quality summary provided in this section addresses samples collected for groundwater monitoring and treatment system performance for the AC&W, Main Base/SAC Area, Landfill, Site 7, and Off-Base sites during the first through fourth quarters. The groundwater samples were collected as described in Section 1.5 of the SAP for each monitoring program (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a).

8.1.1 AC&W Performance and Groundwater Monitoring 2009

- First-quarter performance and groundwater monitoring of the AC&W pump-and-treat system consisted of 10 monitoring and extraction well samples (all wells were sampled using diffusion samplers), seven air stripper performance monitoring samples, one pipeline effluent sample, and three field duplicate samples that were collected from 08 January to 24 March 2009.
- Second-quarter performance and groundwater monitoring of the AC&W pump-and-treat system consisted of 40 monitoring and extraction well samples (including 23 wells sampled using diffusion samplers), eight air stripper performance monitoring samples, one pipeline effluent sample, seven field duplicate samples, and two trip blank samples that were collected from 2 April to 25 June 2009.

- Third-quarter performance and groundwater monitoring of the AC&W pump-and-treat system consisted of eight monitoring and extraction well samples (all wells were sampled using diffusion samplers), seven air stripper performance monitoring samples, one pipeline effluent sample, and two field duplicate samples that were collected from 9 July to 17 September 2009.
- Fourth-quarter performance and groundwater monitoring of the AC&W pump-and-treat system consisted of nine monitoring and extraction well samples (all wells were sampled using diffusion samplers), eight air stripper performance monitoring samples, one pipeline effluent sample, and three field duplicate samples that were collected from 1 October to 22 December 2009.

8.1.2 Main Base/SAC Area Performance and Groundwater Monitoring 2009

- First-quarter performance and groundwater monitoring of the Main Base/SAC Area pump-and-treat system consisted of 33 monitoring and extraction well samples (including 27 wells sampled using diffusion samplers), seven air stripper performance monitoring samples, five field duplicate samples, and four trip blank samples that were collected from 8 January to 25 March 2009.
- Second-quarter performance and groundwater monitoring of the Main Base/SAC Area pump-and-treat system consisted of 278 monitoring and extraction well samples (including 122 wells sampled using diffusion samplers), eight air stripper performance monitoring samples, 27 field duplicate samples, and 18 trip blank samples that were collected from 2 April to 25 June 2009.
- Third-quarter performance and groundwater monitoring of the Main Base/SAC Area pump-and-treat system consisted of 28 monitoring and extraction well samples (including 22 wells sampled using diffusion samplers), seven air stripper performance monitoring samples, four field duplicate samples, and four trip blank samples that were collected from 9 July to 17 September 2009.
- Fourth-quarter performance and groundwater monitoring of the Main Base/SAC Area pump-and-treat system consisted of 47 monitoring and extraction well samples (including 30 wells sampled using diffusion samplers), eight air stripper performance monitoring samples, four field duplicate samples, and eight trip blank samples that were collected from 1 October to 22 December 2009.

8.1.3 Postclosure Landfill Groundwater Monitoring 2009 (Including Select Northeast Plume Wells)

- First-quarter postclosure landfill groundwater monitoring consisted of 15 monitoring well samples, five field duplicate samples, and four trip blank samples that were collected from 26 January to 3 February 2009.
- Second-quarter postclosure landfill groundwater monitoring consisted of 31 monitoring well samples, four field duplicate samples, and eight trip blank samples that were collected from 13 April to 19 May 2009.

- Third-quarter postclosure landfill groundwater monitoring consisted of 14 monitoring well samples, four field duplicate samples, and one trip blank sample that were collected from 13 July to 16 July 2009.
- Fourth-quarter postclosure landfill groundwater monitoring consisted of 23 monitoring well samples, three field duplicate samples, and three trip blank samples that were collected from 19 October to 1 December 2009.

8.1.4 Site 7 Performance and Groundwater Monitoring 2009

- First-quarter performance and groundwater monitoring of the Site 7 pump-and-treat system consisted of five monitoring well samples (all wells were sampled using diffusion samplers), seven air stripper performance monitoring samples, two field duplicate samples, and five trip blank samples that were collected from 8 January to 19 March 2009.
- Second-quarter performance and groundwater monitoring of the Site 7 pump-and-treat system consisted of 31 monitoring well samples (including 22 wells sampled using diffusion samplers), eight air stripper performance monitoring samples, five field duplicate samples, and eight trip blank samples that were collected from 3 April to 26 June 2009.
- Third-quarter performance and groundwater monitoring of the Site 7 pump-and-treat system consisted of five monitoring well samples (all wells were sampled using diffusion samplers), seven air stripper performance monitoring samples, two field duplicate samples, and six trip blank samples that were collected from 9 July to 17 September 2009.
- Fourth-quarter performance and groundwater monitoring of the Site 7 pump-and-treat system consisted of five monitoring well samples (all wells were sampled using diffusion samplers), eight air stripper performance monitoring samples, two field duplicate samples, and six trip blank samples that were collected from 1 October to 22 December 2009.

8.1.5 Off-Base Treatment System Monitoring 2009

- First-quarter Off-Base treatment system monitoring consisted of 17 GAC treatment system effluent/influent/mid-GAC samples, 17 Off-Base groundwater monitoring samples (including four wells sampled using diffusion samplers), four field duplicate samples, and six trip blank samples that were collected from 14 January to 31 March 2009.
- Second-quarter Off-Base treatment system monitoring consisted of 12 GAC treatment system influent/mid-GAC samples, 55 Off-Base groundwater monitoring samples (including seven wells sampled using diffusion samplers), eight field duplicate samples, and seven trip blank samples that were collected from 14 April to 30 June 2009.
- Third-quarter Off-Base treatment system monitoring consisted of 18 GAC treatment system effluent/influent/mid-GAC samples, 19 Off-Base groundwater

monitoring samples (including four wells sampled using diffusion samplers), four field duplicate samples, and seven trip blank samples that were collected from 15 July to 29 September 2009.

- Fourth-quarter Off-Base treatment system monitoring consisted of 12 GAC treatment system influent/mid-GAC samples, 20 Off-Base groundwater monitoring samples (including six wells sampled using diffusion samplers), four field duplicate samples, and five trip blank samples that were collected from 12 October to 29 December 2009.

8.2 ANALYTICAL PROGRAM

Analytical chemistry services were provided by Agriculture and Priority Pollutants Laboratories, Inc. (APPL), located in Fresno, California. APPL is certified by the Department of Health Services through the Environmental Laboratory Accreditation Program to perform hazardous waste analyses, as well as VOCs analysis by EPA drinking water Method 524.2. Samples were analyzed by APPL in accordance with the SAPs (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a), with the exceptions noted in this section. Upon review, the data were found to be usable for their intended purpose. The Data Qualifier Summary Tables (Tables E-1, F-1, G-1, and H-1) included in Appendix E (First Quarter 2009) through Appendix H (Fourth Quarter 2009) summarize the analytical data quality review, and documents results outside of QC limits identified during the review process.

8.3 QC RESULTS

Data were reviewed and qualified using the criteria established in the SAPs. The following sections summarize the data review process in terms of the precision, accuracy, representativeness, completeness, and comparability criteria as defined in Section 4.2 of the AFCEE *Quality Assurance Project Plan* (AFCEE, 2005) and Appendix B of the respective SAPs (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a). An assessment of data usability for the first through fourth quarters 2009 is provided in Tables E-1, F-1, G-1, and H-1.

8.3.1 Precision and Accuracy

Precision and accuracy were evaluated from field and laboratory QC samples as well as analytical calibrations. The calculated relative percent difference from matrix spike and matrix spike duplicate (MS/MSD) and field and laboratory duplicate pairs provided information on the

precision of chemical analyses and field sampling procedures. Field duplicate precision results for the first through fourth quarters 2009 are presented in Tables E-2, F-2, G-2, and H-2. Evaluation of the percent recoveries of spiked analytes in laboratory control samples, MS/MSD, and surrogates provided information on accuracy. Additionally, the initial and continuing calibration results and interference check solutions provided information on analytical accuracy. Acceptance criteria for these parameters are provided in Appendix B, Section 7.0 of the SAPs (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a). Acceptance criteria (control limits) were met except as noted in Tables E-1, F-1, G-1, and H-1. In addition, these tables provide an assessment of the usability of specific qualified data. Although many sample results are qualified with 'M,' 'J,' 'B,' 'F,' or 'UJ,' these qualifiers do not have a significant impact to data quality. During the first through fourth quarters, a total of six sample results were qualified with the 'R' flag due to calibration problems:

- During the first quarter 2009, the 'R' flag was applied to the sodium results for the 7-PTE, 7-PTI, and field duplicate of 7-PTI samples collected on 4 February 2009. The associated continuing calibration verification (CCV) recovery was below project control limits, indicating a possible low bias of the data. The sample results were detected, but the CCV deviation possibly caused lower recovery of sodium. The first quarter 2009 represented historical lows for the 7-PTE and 7-PTI samples. Sodium is not a COC for the Site 7 groundwater plume and the data are not critical in satisfying project-specific data quality objectives.
- During the second quarter 2009, the 'R' flag was applied to the alpha-benzene hexachloride (BHC) result for the 7-PZ-37P field duplicate sample collected on 15 April 2009. The associated CCV recovery was above project control limits, indicating a possible high bias of the data. The sample result was ND, indicating that the CCV deviation did not have a significant impact to the data quality.
- During the second quarter 2009, the 'R' flag was applied to the vinyl chloride result for the MB-4 sample collected on 2 June 2009. The associated initial calibration recovery was above project control limits, indicating a possible high bias of the data. The sample result was ND, indicating that the deviation did not have a significant impact to the data quality.
- During the fourth quarter 2009, the 'R' flag was applied to the manganese result for the MAFB-133 sample collected on 27 October 2009. The associated CCV recovery was 89.9 percent, just below the lower project control limit of 90 percent, indicating a possible low bias of the sample data. The sample results were ND and should be considered invalid. Manganese is part of compliance monitoring and includes well MAFB-133 (i.e., detection monitoring for the landfills). The background concentration for manganese is 653 µg/L. Between the fourth quarter 2005 and the fourth quarter 2009, 17 parent samples and 15 field duplicate samples were collected and analyzed for manganese from well MAFB-133. Of these samples, only one had a detectable manganese result (trace value of 3.0 ppb during the second quarter 2007), with all other results reported as ND (reporting limit of 15 ppb). As such, it is reasonable to conclude

that the invalid ND sample result for the fourth quarter 2009 does not represent a sample that otherwise may have had manganese at a concentration above the background concentration.

After evaluation of the data validation findings for data collected during 2009, it was determined that the data flags applied due to precision or accuracy noncompliance did not have an effect on the usability of the data in satisfying project-specific data quality objectives.

8.3.2 Representativeness

Representativeness was assessed through the evaluation of method blank samples, trip blank samples, and continuing calibration blanks. These samples were collected and data were evaluated as described in the SAPs (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a). In the event samples revealed concentrations of analytes also detected in an associated blank sample, the 'B' flag was applied to indicate the presence of the analyte in the blank as well as in the sample. There were no detected concentrations of target analytes in blanks above the PQLs in 2009, except as indicated in Tables E-1, F-1, G-1, and H-1. After evaluation of the data validation findings, it was determined that the data flags applied due to blank contamination did not have an effect on the usability of the data in satisfying project-specific data quality objectives

8.3.3 Comparability

Comparability of the data was ensured by having project personnel follow standardized field procedures described in the Field Sampling Plan and having the laboratory follow EPA analytical methods. The data were then evaluated for comparability of detection limits and associated dilution factors.

Deviations from the SAP. Deviations from the SAP include the following:

- An insufficient number of MS/MSD samples for VOCs by EPA Method 8260 were analyzed for the Main Base/SAC Area performance and groundwater monitoring program for the second quarter 2009. Specifically, a MS/MSD pair was not associated with 11 VOC samples during the second quarter. As additional samples or analyses for a well are collected during future sampling, the number of MS/MSD samples needed will be more closely scrutinized so that this discrepancy does not recur.

- During fourth quarter 2009, the VOCs by EPA Method 8260 analytical batch H091016A contained 25 environmental samples, more than the maximum 20 environmental samples per analytical batch. The laboratory has been contacted so that this discrepancy does not recur.

8.3.4 Completeness

The completeness of the data is the measure of the amount of valid data for each method, matrix, and analyte (expressed as a percentage). Completeness of data was evaluated by validating all the project data, ensuring that all the analytical requests were met, noting whether samples were received in proper condition, and verifying that analyses were performed within the appropriate holding times.

Chain-of-Custody Records. The field team leader and analytical coordinator reviewed all chain-of-custody records for compliance with the SAPs (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a). Upon receipt of samples, APPL verified sample receipt and condition. APPL then sent a "Verification of Sample Receipt/Condition" form to MWH by e-mail transmission. The MWH analytical coordinator reviewed these forms to ensure that the laboratory recorded the correct information. All samples scheduled for analysis were analyzed as planned.

Holding Times. Appendix B, Section 5.0 of the SAPs (Montgomery Watson, 1997a, 1997b, 1997c, 1999a, and 2000a) provides a summary of holding time criteria used to evaluate groundwater and QC samples. Method-specified holding times were met for all sample analyses during 2009, except for total sulfide samples collected during the first, second, and fourth quarters, as outlined in tables E-1, F-1, and H-1, respectively. Four of the seven samples were analyzed within 6 hours of the method-specific holding time of 24 hours for unpreserved samples. All positive results were qualified with the 'J' flag and all ND results were qualified with the 'UJ' flag. After evaluation of the data validation findings, it was determined that the data flags applied to the four samples due to holding time noncompliance did not have an effect on the usability of the data in satisfying project-specific data quality objectives.

Three total sulfide samples collected during fourth quarter 2009 under the post-closure landfill monitoring program (for wells MAFB-132, MAFB-136, and MAFB-399) were analyzed 7 days

outside of the method-specific holding time of 24 hours for unpreserved samples. All samples were ND, so were qualified with the 'R' flag and should be considered invalid.

Total sulfide is part of compliance monitoring and includes wells MAFB-132, -136, and 399 (i.e., detection monitoring for the landfills). The background concentration for total sulfide is 4.0 mg/L. Between the fourth quarter 1996 and the fourth quarter 2009, the following samples were collected from these wells and analyzed for total sulfide; 40 parent samples and 8 field duplicates in well MAFB-132, 38 parent samples from well MAFB-136, and 22 parent samples and 1 field duplicate from well MAFB-399. Of these samples, 8 samples from well MAFB-132 had detectable total sulfide concentrations (maximum of 0.78 mg/L), 9 samples from well MAFB-136 had detectable total sulfide concentrations (maximum of 1.2 mg/L), and no samples from well MAFB-399 had detectable concentrations of total sulfides. All other results were reported as ND (reporting limit ranging from 0.2 to 1.0 mg/L). As such, it is reasonable to conclude that the invalid ND sample results for the fourth quarter 2009 from wells MAFB-132, 136, and 399 do not represent samples that otherwise may have had total sulfide concentration at a concentration above the background concentration.

Completeness Goals. Completeness was calculated as the number of valid results divided by the number of possible individual analyte results, expressed as a percentage. Overall completeness for the Mather 2009 sampling (99.97 percent) exceeded the project goal of 95 percent. Quarterly completeness results are as follows:

- During first quarter 2009, overall completeness (99.99 percent) exceeded the project goal of 95 percent. Analyte-specific completeness goals of 95 percent were met for all analytes with the exception of sodium by EPA Method 6010 (50.0 percent), as discussed in Section 8.3.1. A full listing of completeness results by method and analyte for the first quarter is provided in Table E-3.
- During second quarter 2009, overall completeness (99.98 percent) exceeded the project control goal of 95 percent. Analyte-specific completeness goals of 95 percent were met for all analytes with the exception of alpha-BHC by EPA Method 8270 (80.0 percent), as discussed in Section 8.3.1. A full listing of completeness results by method and analyte for the second quarter is provided in Table F-3.
- During third quarter 2009, overall completeness (100 percent) exceeded the project goal of 95 percent. Analyte-specific completeness goals of 95 percent were met for all analytes. A full listing of completeness results by method and analyte for the third quarter is provided in Table G-3.

- During fourth quarter 2009, overall completeness (99.93 percent) exceeded the project goal of 95 percent. Analyte-specific completeness goals of 95 percent were met for all analytes with the exception of total sulfide by EPA Method 376.1 (66.7 percent), as discussed in Section 8.3.4. A full listing of completeness results by method and analyte for the fourth quarter is provided in Table H-3.

8.4 CONCLUSIONS

Although many sample results are qualified with 'M,' 'J,' 'B,' 'F,' or 'UJ,' these qualifiers do not have a significant impact to data quality. As discussed in Sections 8.3.1 and 8.3.4, data that are qualified with the 'R' flag did not have an impact on project-specific data quality objectives being met.

Unless noted otherwise, analytical data collected in support of this report are considered accurate, precise, representative, comparable, and complete and are usable for their intended purposes.

9.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This section highlights observations noted in monitoring programs at Mather during 2009. These programs are landfill postclosure performance monitoring and NEP monitoring; performance monitoring of groundwater extraction and treatment systems for the AC&W, Site 7, and Main Base/SAC Area plumes; and off-base water-supply well monitoring.

9.1 NORTHEAST PLUME AND LANDFILLS

A summary of activities and observations based on monitoring performed in 2008 are as follows:

- Fourth quarter 2009 began the 14th year of postclosure sample collection and analysis at closed LF03 and LF04 and represented the thirty-fifth quarterly postclosure sampling round for the landfill at Site 7. Landfill postclosure monitoring wells were sampled quarterly, semiannually, or annually for the required list of analytes.
- Groundwater levels in all accessible NEP and landfill monitoring wells were measured semiannually.
- The lateral and vertical extents of the downgradient boundary of the MCL volume of the NEP are adequately characterized by the current monitoring network.
- For the NEP, concentrations of COCs at or above cleanup levels in 2009 were restricted to the area in the vicinity of MAFB-132, -133, -136, and -398C. PCE and cis-1,2-DCE were detected at concentrations ranging from 14 to 20 µg/L, and 17 to 23 µg/L, respectively, at MAFB-132 in four quarterly samples during 2009. PCE was detected slightly above the cleanup level (5.4 µg/L) at MAFB-133 in the third quarter of 2009, but was below the cleanup level for the remainder of the year. The fourth-quarter 2009 sample from Unit C monitoring well MAFB-398C contained cis-1,2-DCE at 8.6 µg/L.
- At WP07, the highest concentrations of VOCs in groundwater were observed in the upgradient portions of the plume, at wells 7-PZ-37 and MAFB-041 and in the mid-plume area near well MAFB-446.
- For Landfills LF-03 and LF-04 during 2009, constituents detected above background concentrations included chromium, nickel, manganese, and vanadium. As discussed in Section 3.0, the manganese and vanadium results are anomalous or have been otherwise interpreted as not indicative of a landfill release. There were no general mineral constituents detected above the upper 95th percentile background concentration.

- Chromium and nickel concentrations were elevated in selected landfill wells during 2009, continuing a cyclic or slug-flow like detection pattern observed in some landfill wells. A historically high detection of nickel at 622 µg/L was observed in LF04 well MAFB-136. The cause of increased concentrations observed in 2009 is not known, but the potential that LF04 is a source of nickel cannot be precluded.
- For WP07 during 2009, chromium was detected above background in well 7-PZ-37. Summary concentration details and background values are provided in Section 3.3.1.

Based upon the observations in 2009 and historical groundwater monitoring data, the following measures are recommended for the groundwater monitoring for the landfill sites at Mather:

- With one exception as noted below, the current monitoring of the upgradient NEP monitoring wells is adequate to meet the corrective action monitoring requirements specified in the ROD, and no changes to the monitoring programs are recommended beyond what was proposed in the sampling plan for 2010. Continue to collect and analyze samples from landfill monitoring wells using the prescribed frequencies dictated by landfill postclosure monitoring requirements as outlined in the sampling program.
- Reduce sampling in the evaluation monitoring wells for chromium to an annual frequency and for nickel to a semiannual frequency. These changes should be implemented in 2011 since the 2010 sampling plan is already finalized and sampling has been completed through the third quarter 2010.
- Wells MAFB-112 and -140 will be further evaluated for replacement under the performance-based remediation contract during 2010 and the evaluation will be documented in the 2010 annual groundwater monitoring report..

9.2 AC&W PLUME

Observations based on monitoring performed in 2009 are as follows:

- Sampling and evaluating analytical results from groundwater monitoring wells continued. Monitoring provided data for (1) evaluation of groundwater elevations, (2) verification of plume capture, and (3) progress of TCE remediation.
- The AC&W treatment system operated at an average flow rate of 180 gpm during 2009 and the system removed approximately 4.8 pounds of TCE.
- No VOCs were detected in the biweekly air stripper effluent samples (with the exception of one minor detection that is likely attributable to laboratory contamination) or the quarterly receiving water samples collected near the discharge area of Mather Lake (ACW R2) during 2009. Biweekly inspections of Mather Lake have indicated no visible detrimental effect on the receiving waters since discharge to the lake began in 1997.

- The highest concentration of TCE detected in the AC&W Plume during 2009 was 12M µg/L at extraction wells ACW AT-1 and AT-2. Remediation of the plume is progressing with declines in the TCE concentrations in monitoring and extraction wells. TCE concentrations in extraction wells ACW EW-2, EW-3, and EW-4 have declined below the MCL. As discussed in Section 4, ACW EW-4 was taken off-line in early 2010.
- Based on water-level data from 1997 through 2009 from several AC&W wells screened across the water table, in deeper portions of Unit C, and in Unit D, the rates of water-level decline in these units ranged from about -1.2 to -1.7 ft/yr during that time. If this rate of decline continues, upgradient water-table monitoring wells MAFB-401, -402, -403, and -408 will only remain viable for 1 to 2 years. However, at the wells mentioned above, TCE was not detected above the cleanup level in samples collected during 2009. The Air Force will not recommend replacement of these wells when they go dry because the body of historical data from current wells is sufficient to characterize this portion of the aquifer and establish the upgradient extent of the plume.

Based on the results of AC&W performance monitoring data, the following activities are recommended for monitoring and system operations:

- Continue to operate the AC&W groundwater extraction and treatment system under 2009 operational parameters, with the exception of ACW EW-4, which will remain off line.
- Continue to collect samples during 2010 at planned frequencies using analytical methods outlined in the *2010 Mather Groundwater Monitoring Program Sampling Plan* (MWH, 2010).
- The effluent sample from the AC&W treatment system has been sampled quarterly for TPH-d since the second quarter of 2003. There have been no detections in any of the samples. It is recommended that TPH-d sampling be discontinued and that this be reflected in the 2011 Mather Groundwater Monitoring Sampling Plan for AC&W.

9.3 SITE 7 PLUME

Following is a summary of monitoring at the Site 7 plume in 2009:

- The Site 7 groundwater Extraction Treatment System operated with two extraction wells during 2009. The extraction wells operated at a combined average flow rate of 65 gpm and removed approximately 6 pounds of VOCs from groundwater.
- The highest observed VOC concentrations in 2009 were at upgradient water-table wells 7-PZ-37 and MAFB-041 and mid-plume well MAFB-446.

- In the perched zone, which occurs at roughly 50 feet bgs (about 25 feet above msl), the highest concentration of VOCs were observed in samples collected from wells 7-BV-01 and 7-BV-02.
- Regionally downgradient well MAFB-448 has had TCE detections up to 9.0M μg/L but groundwater contour maps show that flow directions near the well are toward extraction well 7-EW-01.
- Granite constructed and has filled a 40-acre emergent marsh on the west side of the Site 7 Plume footprint. Water depths in the marsh are up to 3 feet. The marsh will result in increased recharge to the underlying aquifer and will change groundwater flow direction to some extent.

Based on the results of Site 7 performance monitoring data, the following activities are recommended for monitoring and system operations:

- Additional water level data will be collected in wells MAFB-371C, -373C, -370, and -447, to evaluate the impacts of the emergent marsh on groundwater levels. The Air Force recommends beginning with monthly readings in well MAFB-447, to discern if and how rapidly the marsh may be affecting water levels and to discern whether additional observations (and the frequency of the observations) in the other wells are warranted.
- Wells MAFB-286, MAFB-256, and MAFB-262 should be rehabilitated so that they may either be used or abandoned.

9.4 MAIN BASE/SAC AREA PLUME

The performance of the Main Base/SAC Area groundwater treatment system was evaluated during 2009 by collecting samples from the extraction wells and monitoring wells according to the schedule outlined in the *2009 Mather Groundwater Program Sampling Plan* (MWH, 2009b). The following observations for the Main Base/SAC Area Plume were based on data collected during 2009:

- The Main Base/SAC Area treatment system consisted of 30 active extraction wells in 2009, the treatment plant, and four injection wells. In 2009, the treatment plant received an average of 1,640 gpm and removed 108 pounds of VOCs from groundwater. All of the treated water was reinjected into deep aquifer units. The Main Base/SAC Area groundwater treatment system complied with all discharge treatment standards.
- COC concentrations in samples collected from most in-plume performance monitoring well locations and extraction wells decreased during the year, suggesting that groundwater extraction and treatment is effectively reducing VOC concentrations in the aquifer, most notably in the Site 23C and Site 57 areas.

- Overall, the size of the Main Base/SAC Area Plume continues to decrease. The leading edge of the Southwest Lobe was better defined by new multiple-completion monitoring wells MAFB-460Bs/Bd and -461Bs/Bd.
- Groundwater potentiometric surface maps indicate that the hot spots of the Main Base/SAC Area Plume within each HSG unit are captured. The majority of the plume above cleanup levels is captured.

Based on results of the evaluation of the Main Base/SAC Area monitoring data, the following activities are recommended for performance monitoring and system operations.

- Continue to evaluate water-level trends in all Main Base/SAC Area Plume monitoring, extraction, and injection wells.
- Continue to collect samples at all monitoring and extraction wells at frequencies outlined in the *2010 Mather Groundwater Monitoring Program Sampling Plan (*MWH, 2010).
- Stop extraction of groundwater at MBS EW-1Bu. The well has more than four consecutive samples with COC detections below cleanup levels and is no longer necessary for capture of the MCL plume.
- Selected dry water-table monitoring wells will be further evaluated for replacement under the performance-based remediation contract in the 2010 annual groundwater monitoring report. These wells include: MAFB-033, -092, -121, -187, -201, -202, -207, and -210.

9.5 OFF-BASE WATER-SUPPLY WELLS

Ten high-volume off-base groundwater production wells were sampled quarterly to monitor for evidence of VOC contaminants originating at Mather. Influent and mid-GAC samples were collected monthly for the wellhead treatment systems at the Juvenile Hall supply wells and the Moonbeam supply well. As in years past, CCl_4 was the primary contaminant detected at the treatment systems during 2009. A carbon changeout was performed on the lead Moonbeam vessel in March 2009 after two mid-GAC samples collected in January and February contained CCl_4 at 0.21 µg/L and 0.22 µg/L, respectively. A carbon changeout was performed on the lead Juvenile Hall vessel in October 2009 after two mid-GAC samples collected in July and August contained CCl_4 at 0.20 µg/L and 0.20 µg/L, respectively.

Samples were also collected from 32 privately owned water supply wells during 2009. Sixteen of those private wells were sampled for the first time in 2009 and are downgradient from the

Southwest Lobe of the Main Base/SAC Area Plume. Only one of those wells, OFB-72, had significant detections of COCs (TCE up to 3.8 μg/L).

Based on 2009 monitoring results, the following changes to the off-base sampling program are proposed as follows:

- Continue to collect samples at planned frequencies using analytical methods outlined in the 2010 *Mather Groundwater Monitoring Program Sampling Plan* (MWH, 2010). Evaluate the requirement per the off-base contingency plan to continue GAC treatment at Moonbeam.
- Evaluate the requirement per the off-base contingency plan to continue GAC treatment at Moonbeam.

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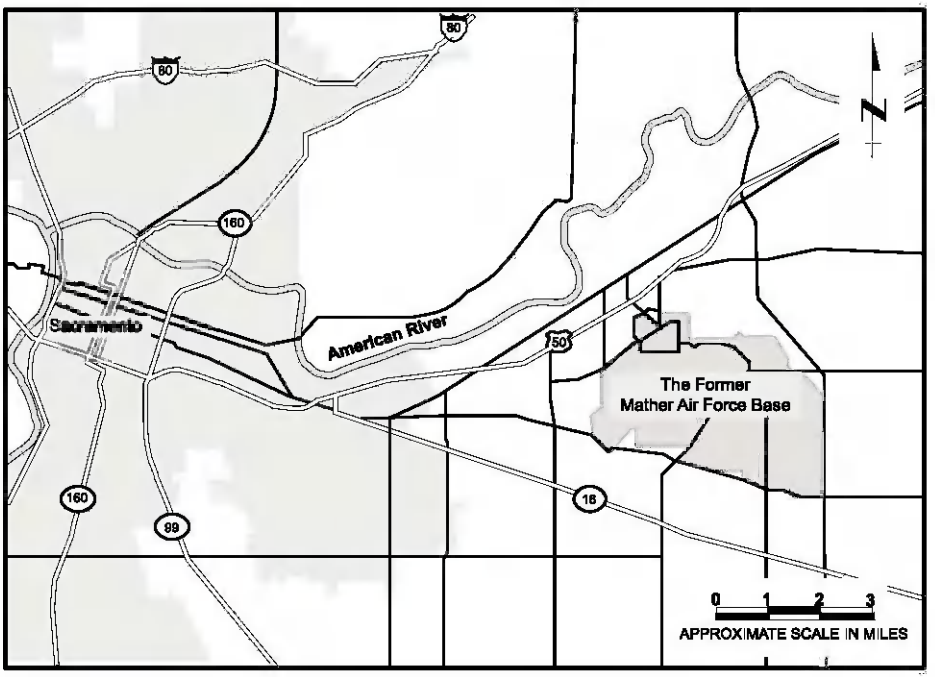
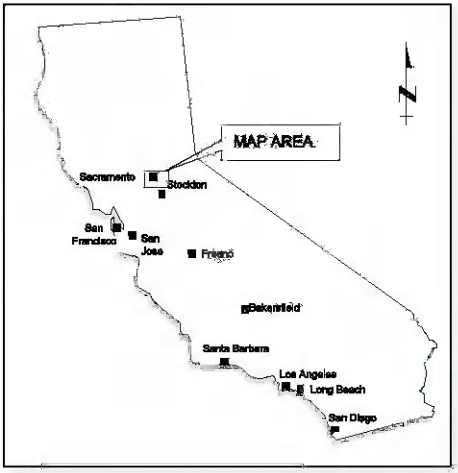
FIGURES





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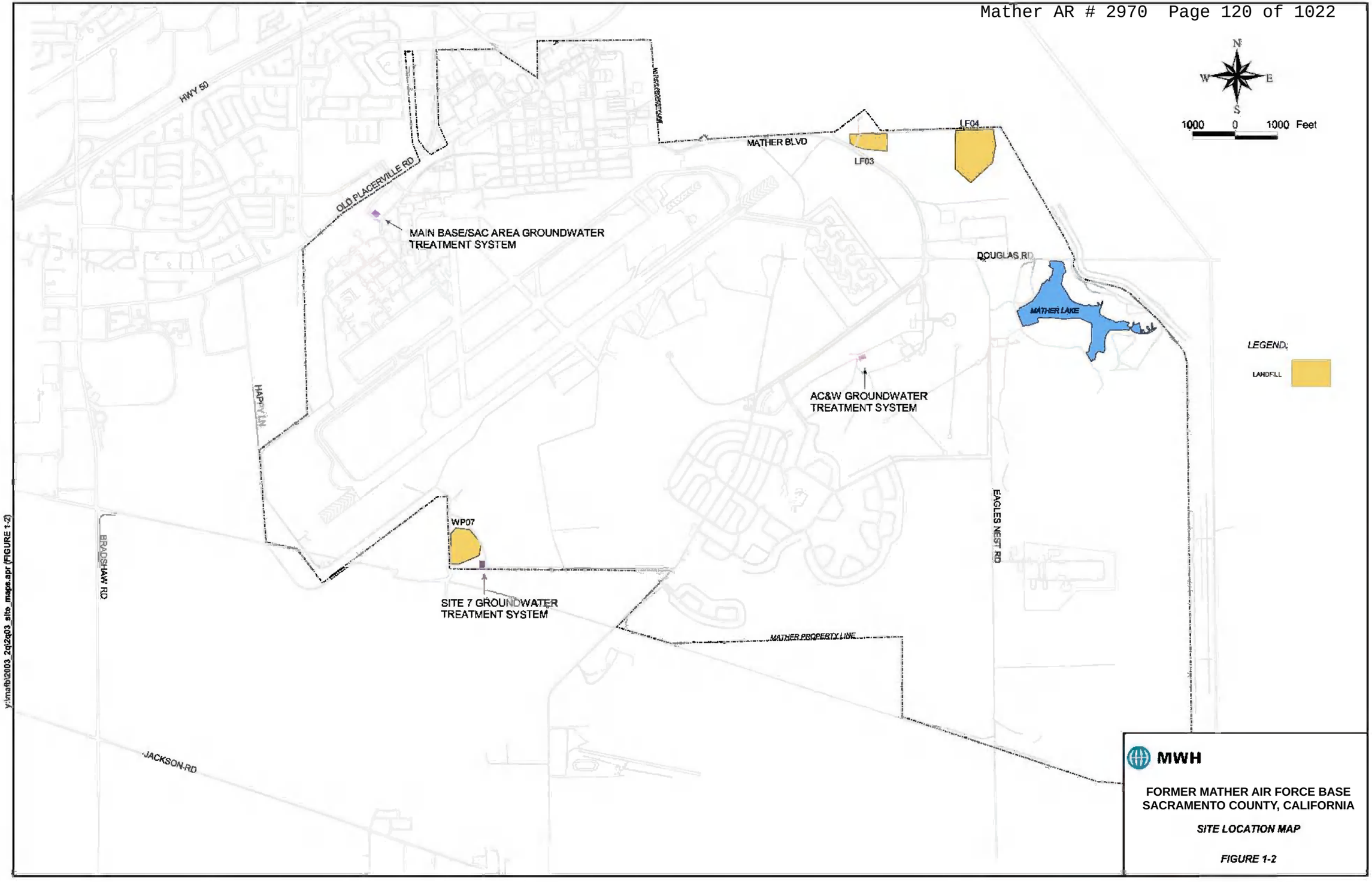
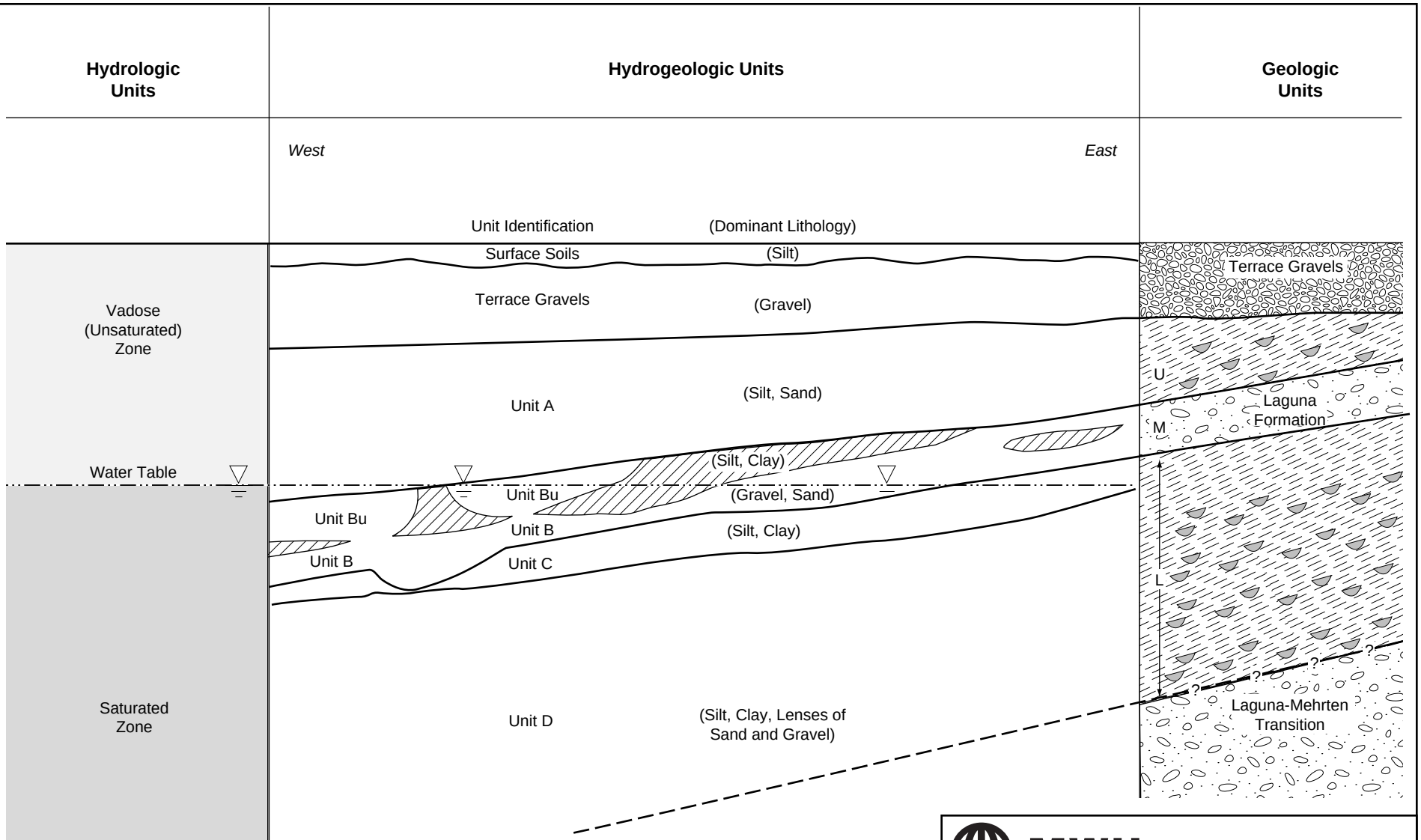
MWH

FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA
REGIONAL LOCATION MAP

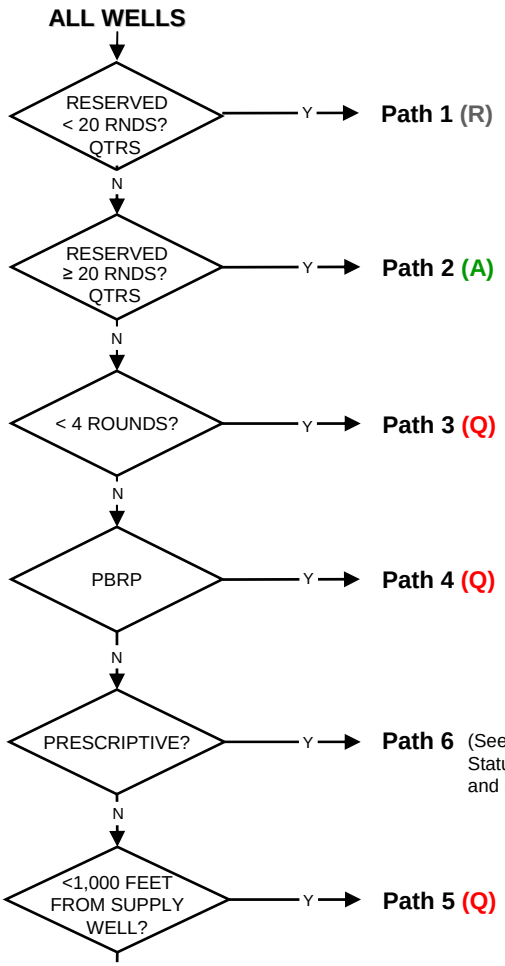
FIGURE 1-1


N
W
E
S
1000 0 1000 Feet
HWY 50
OLD PLACERVILLE RD
MATHER BLVD
LF03
LF04
MAIN BASE/SAC AREA GROUNDWATER TREATMENT SYSTEM
DOUGLAS RD
MATHER LAKE
AC&W GROUNDWATER TREATMENT SYSTEM
HAPPY LN
WP07
SITE 7 GROUNDWATER TREATMENT SYSTEM
BRADSHAW RD
EAGLES NEST RD
MATHER PROPERTY LINE
JACKSON RD
LEGEND:
LANDFILL
MWH
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA
SITE LOCATION MAP
FIGURE 1-2
y:\mafb\2003_2q\2q03_site_maps.apr (FIGURE 1-2)


Hydrologic Units
Hydrogeologic Units
Geologic Units
West
East
Unit Identification
(Dominant Lithology)
Surface Soils
(Silt)
Terrace Gravels
(Gravel)
Vadose (Unsaturated) Zone
Unit A
(Silt, Sand)
Water Table
(Silt, Clay)
Unit Bu
(Gravel, Sand)
Unit Bu
Unit B
(Silt, Clay)
Unit B
Unit C
Saturated Zone
Unit D
(Silt, Clay, Lenses of Sand and Gravel)
Terrace Gravels
U
Laguna Formation
M
L
Laguna-Mehrten Transition
LEGEND
Geologic Units
U Upper Laguna Unit
M Middle Laguna Unit
L Lower Laguna Unit
Groundwater Surface (Water Table)
Modified from: IT Corporation, 1996b
P:\IFO Graphics\MATHER\2003\03-03\1-3 ConHydUnits.ai1-3 ConHydUnits.ai
MWH
FORMER MATHER AIR FORCE BASE,
SACRAMENTO COUNTY, CALIFORNIA
GENERALIZED HYDROGEOLOGIC CROSS SECTION
NORTH OF RUNWAYS
FIGURE 1-3

LOCID	HYDRO UNIT	GRID ID	LOCID	HYDRO UNIT	GRID ID	LOCID	HYDRO UNIT	GRID ID
7-IW-01	B	M11	MAFB-228	B	L5	MAFB-421	WT/B	M5
7-IW-02	B	N11	MAFB-229	B	M5	MAFB-422	WT/Bu	N6
7-IW-03	B	N11	MAFB-230	B	M4	MAFB-423	WT/Bu	M7
7-IW-04	B	N11	MAFB-231	B	N4	MAFB-423B	B	M7
7-PZ-23	B	N11	MAFB-232	WT/B	O4	MAFB-424	WT/C	N9
7-PZ-24	B	N10	MAFB-233	WT/B	P3	MAFB-425	WT	K9
7-PZ-25	B	N11	MAFB-234	B	N4	MAFB-426	B	F8
7-PZ-26	B	N11	MAFB-235	D	L5	MAFB-427	B	F9
7-PZ-37	WT	M11	MAFB-239	D	K7	MAFB-428	WT/B	L4
7-PZ-37P	PERCH	M11	MAFB-240	D	K6	MAFB-429Bd	Bd	J10
7-PZ-38P	PERCH	M11	MAFB-241	D	K6	MAFB-429Bs	Bs	J10
7-PZ-39	C	M12	MAFB-242	D	K5	MAFB-429Bu	WT/Bu	J10
7-PZ-40	C	L12	MAFB-243	D	K5	MAFB-430	LMT	K5
7-PZ-41	C	L12	MAFB-244	WT	M4	MAFB-431Bd	Bd	J10
ACW AT-1	C	T7	MAFB-245 (A)	WT/Bu	M6	MAFB-431Dd	Dd	J10
ACW AT-2	C	S7	MAFB-246	WT/Bu	L5	MAFB-431Ds	Ds	J10
ACW EW-1	C	S8	MAFB-247	WT/B	L7	MAFB-432	WT/C	S8
ACW EW-2	C	S8	MAFB-248	WT/B	M6	MAFB-433	WT/C	R9
ACW EW-3	C	R8	MAFB-249	B	N5	MAFB-434Bd	Bd	J11
ACW EW-4	C	R9	MAFB-250	D	N4	MAFB-434Bs	Bs	J11
ACW EW-5	C	R8	MAFB-251	WT	K4	MAFB-434Bu	WT/Bu	J11
ACW EW-6R	C	R9	MAFB-252 (A)	WT	M4	MAFB-435	Dd	K5
ACW PZ-01	C	R9	MAFB-253 (A)	WT	N3	MAFB-436	WT	M5
ACW PZ-02	C	R9	MAFB-254 (A)	WT/B	N10	MAFB-437Dd	Dd	I5
ACW PZ-03	C	R9	MAFB-255 (A)	WT/B	M11	MAFB-437Ds	Ds	I5
ACW PZ-04	C	R9	MAFB-256	PERCH	L11	MAFB-438	WT	U3
ACW PZ-05	C	R9	MAFB-258	WT/Bu	K9	MAFB-439	WT	L4
ACW PZ-06	WT/C	R8	MAFB-259	Bu	I10	MAFB-440	WT	M9
ACW PZ-06C	C	R8	MAFB-260	Bu	I9	MAFB-440P	PERCH	M9
ACW PZ-07	WT/C	S8	MAFB-261	Bu	H8	MAFB-441	D	M7
ACW PZ-07C	C	S8	MAFB-262	D	L11	MAFB-442	D	L6
ACW PZ-08	WT/C	S8	MAFB-263	Bu	H7	MAFB-443	D	F9
ACW PZ-08C	C	S8	MAFB-264	WT/Bu	L5	MAFB-444	B	L12
ACW PZ-09	WT/C	S7	MAFB-265	B	L5	MAFB-445	B	L13
ACW PZ-09C	C	S7	MAFB-266	B	K8	MAFB-446	C	L12
ACW PZ-10	WT	T7	MAFB-267	B	I10	MAFB-447	C	L12
ACW PZ-10C	C	T7	MAFB-268	B	I9	MAFB-448	B	L13
FFS EW15-1	NA	J8	MAFB-269	B	H8	MAFB-449Bd	Bd	J12
FFS EW15-2	NA	J8	MAFB-270	B	G6	MAFB-449Bs	Bs	J12
FFS MW15-1	NA	J8	MAFB-271	B	I5	MAFB-450	WT/Bu	J9
FFS MW15-2	NA	J8	MAFB-272	B	J4	MAFB-451	B	K9
FFS MW15-3	NA	J8	MAFB-273	B	K4	MAFB-452B	B	K8
FFS MW15-6	D	L6	MAFB-274	B	M4	MAFB-452Bu	WT/Bu	K8
MAFB-005	WT/B	V3	MAFB-275 (A)	WT/Bu	N6	MAFB-453	WT	S7
MAFB-006	WT/B	P2	MAFB-276	WT/B	P6	MAFB-453C	C	S7
MAFB-012	WT/B	Q4	MAFB-277	WT/B	P6	MAFB-454	WT	S8
MAFB-013	WT/B	Q4	MAFB-278	WT/B	R5	MAFB-454C	C	S8
MAFB-022 (A)	WT/B	U5	MAFB-280	B	O3	MAFB-455	WT	R9
MAFB-026 (A)	WT/B	S4	MAFB-281	B	O3	MAFB-456	WT	R9
MAFB-033	WT/Bu	L5	MAFB-282	B	N4	MAFB-456C	C	R9
MAFB-034 (A)	WT	L5	MAFB-283	B	M11	MAFB-457Bd	Bd	J11
MAFB-037 (A)	WT/Bu	L7	MAFB-284	B	M11	MAFB-457Bs	Bs	J11
MAFB-039	PERCH	M10	MAFB-285	C	L11	MAFB-458Bd	Bd	J11
MAFB-041	B	M11	MAFB-286	C	L11	MAFB-458Bs	Bs	J11
MAFB-042	WT/B	M11	MAFB-288	B	T5	MAFB-459D	D	F8
MAFB-043	C	M10	MAFB-289	WT/B	R4	MAFB-459Dd	Dd	F8
MAFB-044	PERCH	M10	MAFB-290	D	I4	MAFB-460Bd	Bd	H12
MAFB-046	PERCH	K11	MAFB-291	D	J4	MAFB-460Bs	Bs	H12
MAFB-047	WT/Bu	K7	MAFB-292	D	K4	MAFB-461Bd	Bd	H12
MAFB-048	WT	K5	MAFB-293	D	G6	MAFB-461Bs	Bs	H12
MAFB-050 (A)	WT/C	T7	MAFB-294	D	U5	MB-3	NA	O3
MAFB-051 (A)	WT/C	T7	MAFB-295 (A)	D	L11	MB-4	NA	P3
MAFB-052 (A)	WT/C	S8	MAFB-296	D	I4	MBS 19EW01	B	L4
MAFB-053	C	S8	MAFB-297	C	J13	MBS 19MW01	Bu	L4
MAFB-054	WT/C	S7	MAFB-299 (D)	B	L13	MBS 19MW02	Bu	L4
MAFB-056	D	M11	MAFB-300	C	K12	MBS 19MW03	D	L4
MAFB-058	D	M11	MAFB-301	C	R8	MBS 19MW04	D	L4
MAFB-059	B	K11	MAFB-302	C	R9	MBS 39ABuB	WT/B	N4
MAFB-060	D	K7	MAFB-303	C	R8	MBS 39MW01	WT	N4
MAFB-061	D	K7	MAFB-304	C	R9	MBS 39MW02	WT	M4
MAFB-062	D	K6	MAFB-305	C	R8	MBS 39MW03	Bu	M4
MAFB-063	D	K5	MAFB-306	C	R9	MBS 39MW04	Bu	M4
MAFB-064	D	V4	MAFB-307 (A)	WT/B	R5	MBS EW-10B	B	I7
MAFB-065	D	V3	MAFB-308	B	L4	MBS EW-11B	B	G7
MAFB-066	Dd	P3	MAFB-309	B	I4	MBS EW-12AB	WT/B	N4
MAFB-067	D	T7	MAFB-310	B	H5	MBS EW-12B	B	F8
MAFB-068	D	T7	MAFB-311	B	F6	MBS EW-13BuB	Bu	J10
MAFB-069	D	T7	MAFB-312	B	G8	MBS EW-1A	WT	N4
MAFB-070	D	S8	MAFB-313	B	I6	MBS EW1ABu	WT/Bu	K7
MAFB-071	D	S8	MAFB-314	D	L4	MBS EW-1B	B	K5
MAFB-072	D	S7	MAFB-315	D	I4	MBS EW-1Bu	WT/Bu	K8
MAFB-073	B	P3	MAFB-316	D	H5	MBS EW-1D	D	L4
MAFB-074 (A)	WT/C	S7	MAFB-317	D	F6	MBS EW-2A	WT	K6
MAFB-075	WT/B	V3	MAFB-318	D	G8	MBS EW2ABu	WT/Bu	K6
MAFB-077 (A)	WT/C	S8	MAFB-319	D	I5	MBS EW-2AR	WT/A	K6
MAFB-078	D	S8	MAFB-320	D	L4	MBS EW-2B	B	M5
MAFB-079 (A)	WT/C	S9	MAFB-321	Dd	I5	MBS EW-2Bu	Bu	K7
MAFB-080	D	S9	MAFB-322	B	G5	MBS EW-2D	D	K5
MAFB-081 (A)	WT/C	T9	MAFB-323	B	F7	MBS EW-3A	WT	K6
MAFB-082	WT/C	T8	MAFB-324	B	I5	MBS EW-3B	B	L5
MAFB-083 (A)	WT/C	T7	MAFB-325	B	I4	MBS EW-3Bu	Bu	J9
MAFB-084 (A)	WT/C	S8	MAFB-326	D	G5	MBS EW-3D	D	K5
MAFB-085 (A)	WT/B	J9	MAFB-327	D	F7	MBS EW-4A	WT/B	N4
MAFB-086 (A)	WT/B	K8	MAFB-328	D	I5	MBS EW4ABu	WT/Bu	K6
MAFB-087 (A)	WT	K6	MAFB-329	D	I4	MBS EW-4B	B	K5
MAFB-088 (A)	WT	L6	MAFB-330	B	G9	MBS EW-4Bu	WT/Bu	K8
MAFB-089 (A)	WT	L5	MAFB-331	B	F8	MBS EW-4D	D	N4
MAFB-090	WT/Bu	L5	MAFB-332	D	H7	MBS EW-5A	WT/B	N4
MAFB-091 (A)	WT	M4	MAFB-333 (A)	WT/C	V8	MBS EW5ABu	WT/Bu	L6
MAFB-092	WT	M4	MAFB-334 (A)	WT/B	V8	MBS EW-5B	B	J6
MAFB-093	WT/B	P4	MAFB-335 (A)	WT/C	U8	MBS EW-5D	D	J5
MAFB-094	WT/B	O4	MAFB-336	D	G9	MBS EW6ABu	WT	K6
MAFB-095 (A)	WT	N4	MAFB-337	Dd	G5	MBS EW-6B	B	I6
MAFB-096	WT/B	P4	MAFB-338	Dd	I5	MBS EW-6D	D	G7
MAFB-097	WT/B	O4	MAFB-339	WT/B	N4	MBS EW7ABu	WT/Bu	N4
MAFB-099	WT	M5	MAFB-340	WT/B	N4	MBS EW-7B	B	K6
MAFB-101	B	L5	MAFB-341	WT/B	N4	MBS EW-8B	B	J6
MAFB-102	D	L6	MAFB-342	WT/B	N4	MBS EW-9B	B	K8
MAFB-103	D	K8	MAFB-343	WT/B	N4	MBS IW-501	LMT	L4
MAFB-104	D	J6	MAFB-344	WT/B	N3	MBS IW-502	LMT	L4
MAFB-105	WT	M5	MAFB-345	Dd	H8	MBS IW-503	LMT	L4
MAFB-106 (A)	WT	N3	MAFB-346Bd	Bd	H8	MBS IW-504	LMT	M4
MAFB-107	WT/B	R4	MAFB-346Bs	Bs	H8	MBS PZ-01	WT	K6
MAFB-108	WT/B	P4	MAFB-346D	D	H8	MBS PZ-02 (A)	WT	K6
MAFB-109	WT/C	U3	MAFB-347	LMT	H6	MBS PZ-03 (A)	WT	L6
MAFB-110	WT/B	S3	MAFB-348B	B	H6	MBS PZ-04	WT	L6
MAFB-111	WT/B	S4	MAFB-348Dd	Dd	H6	MBS PZ-05	B	K5
MAFB-112	WT/C	T5	MAFB-348Ds	D	H6	MBS PZ-06	B	L5
MAFB-113 (A)	WT/B	T5	MAFB-349	LMT	G7	MBS PZ-07	B	M5
MAFB-115	WT/B	Q5	MAFB-350	LMT	F7	MBS PZ-08	B	M5
MAFB-116	WT/B	P5	MAFB-351Bd	B	F7	MBS PZ-09	B	N4
MAFB-118	C	M11	MAFB-351Bs	B	F7	MBS PZ-10	B	N4
MAFB-121	WT	J8	MAFB-351D	D	F7	MBS PZ-11	B	K5
MAFB-122	WT	J6	MAFB-352D	Dd	I5	MBS PZ-12	LMT	L4
MAFB-123	WT	I8	MAFB-352LM	LMT	I5	MBS PZ-13	Dd	L4
MAFB-124	WT	I7	MAFB-353	LMT	E9	MBS PZ-14	LMT	L4
MAFB-125	WT/B	P5	MAFB-354B	B	E9	MBS PZ-15	LMT	M4
MAFB-126	WT/B	Q4	MAFB-354D	D	E9	MBS PZ-16	B	M5
MAFB-127	WT/C	R6	MAFB-355B	B	E8	MBS PZ-17	D	K6
MAFB-128	WT/B	S6	MAFB-355D	D	E8	MBS PZ-18	D	K5
MAFB-129	WT/C	S6	MAFB-356B	B	F10	MBS PZ-19	WT	K6
MAFB-130	WT/B	S4	MAFB-356Dd	Dd	F10	MBS PZ-20	Bu	K7
MAFB-131	WT/B	S3	MAFB-356Ds	Ds	F10	MBS PZ-21	WT/Bu	K8
MAFB-132	WT/B	U4	MAFB-357D	D	N4	MBS PZ-22	WT/Bu	K8
MAFB-133	WT/B	T4	MAFB-357Dd	Dd	N4	MBS PZ-37	B	I6
MAFB-136	WT/B	U4	MAFB-357Ds	Ds	N4	MBS PZ-38	B	I6
MAFB-137 (A)	WT/C	U4	MAFB-358B	B	N4	MBS PZ-39	B	I6
MAFB-139	WT/C	T5	MAFB-358D	D	N4	MBS PZ-40	B	J5
MAFB-140	WT/C	U4	MAFB-359	WT/Bu	K7	MBS PZ-41	B	J5
MAFB-141	WT/B	U5	MAFB-360	B	K6	MBS PZ-42D	B	J6
MAFB-142 (A)	WT/C	U13	MAFB-361	B	K7	MBS PZ-42S	B	J6
MAFB-143 (A)	WT/C	U13	MAFB-362	B	K6	MBS PZ-43	B	K5
MAFB-144 (A)	WT/C	U13	MAFB-363	B	K6	MBS PZ-44	B	K7
MAFB-145	WT/C	M10	MAFB-364B	B	J7	MBS PZ-46	B	L6
MAFB-147(B*)	B	M11	MAFB-364D	D	J7	MBS PZ-47	B	K6
MAFB-148	B	M10	MAFB-365B	B	J7	MBS PZ-48D	B	L5
MAFB-149	WT/B	M10	MAFB-365D	D	J7	MBS PZ-48S	B	L5
MAFB-150	WT/B	P3	MAFB-366B	B	J5	MBS PZ-49D	LMT	L4
MAFB-151	WT/B	R4	MAFB-366D	D	J5	MBS PZ-49S	B	L4
MAFB-152	WT/B	Q5	MAFB-367	D	I6	MBS PZ-50D	LMT	M4
MAFB-154	WT/B	P3	MAFB-368B	B	H7	MBS PZ-50S	Dd	M4
MAFB-155	WT/B	O3	MAFB-368D	D	H7	MBS PZ-51	D	L5
MAFB-156	WT	K5	MAFB-369	D	I7	MBS PZ-52	D	M4
MAFB-157	WT	J6	MAFB-370	C	K13	MBS PZ-53	D	M4
MAFB-158	WT/Bu	K7	MAFB-371C	C	K13	MBS PZ-54	D	L4
MAFB-159	WT	J7	MAFB-371D	D	K13	MBS PZ-55B	B	K8
MAFB-160	WT	L4	MAFB-372B	B	L13	MBS PZ-55Bu	Bu	K8
MAFB-161 (A)	WT	L4	MAFB-372D	D	L13	MBS PZ-57B	B	N4
MAFB-162	WT	N3	MAFB-373C	C	K13	MBS PZ-57D	D	N4
MAFB-163	WT	N3	MAFB-373D	D	K13	MBS PZ-58	D	J5
MAFB-164	B	K5	MAFB-374	D	N3	MBS PZ-59	WT/A	H8
MAFB-165	B	K6	MAFB-375	D	K4	MBS PZ-59B	B	H8
MAFB-166	B	K7	MAFB-376	D	K5	OFB-03	NA	H10
MAFB-167	B	K7	MAFB-377	D	I8	OFB-04	NA	F7
MAFB-168	WT/Bu	K8	MAFB-378B	B	L3	OFB-06	NA	J9
MAFB-169	B	L6	MAFB-378D	D	L3	OFB-07	NA	J9
MAFB-170	B	K6	MAFB-379B	B	J5	OFB-08	NA	J9
MAFB-171	B	K7	MAFB-379D	D	J5	OFB-09	NA	J9
MAFB-172	WT/Bu	J9	MAFB-380B	B	I5	OFB-11	NA	I8
MAFB-173	B	J8	MAFB-380D	D	I5	OFB-12	NA	I8
MAFB-174	Bu	J7	MAFB-381B	B	H8	OFB-17	NA	J7
MAFB-175	B	J6	MAFB-381D	D	H8	OFB-23	NA	I6
MAFB-176	Bu	I8	MAFB-382B	B	G9	OFB-24	NA	I6
MAFB-177	B	I7	MAFB-382D	D	G9	OFB-30	NA	K3
MAFB-178	D	O3	MAFB-383B	B	J9	OFB-31	NA	K3
MAFB-179	D	Q4	MAFB-383D	D	J9	OFB-32	NA	L3
MAFB-180	D	K5	MAFB-384B	WT/B	N4	OFB-35	NA	N2
MAFB-181	D	J6	MAFB-384D	D	N4	OFB-37	NA	O2
MAFB-183 (A)	WT/C	M9	MAFB-385B	B	H5	OFB-38	NA	P2
MAFB-184	PERCH	M10	MAFB-385D	D	H5	OFB-39	NA	H14
MAFB-185	PERCH	M10	MAFB-386B	B	H10	OFB-40	NA	I15
MAFB-186 (A)	WT	M4	MAFB-386D	D	H10	OFB-41	NA	I14
MAFB-187	WT	M4	MAFB-387B	B	E9	OFB-42	NA	I14
MAFB-188	WT	M4	MAFB-387Dd	Dd	E9	OFB-43	NA	J14
MAFB-189	PERCH	M10	MAFB-387Ds	Ds	E9	OFB-44	NA	J15
MAFB-190 (A)	WT/C	R8	MAFB-388B	B	F8	OFB-45	NA	J15
MAFB-191	D	R8	MAFB-388Dd	Dd	F8	OFB-46	NA	L15
MAFB-192 (A)	WT/C	T6	MAFB-388Ds	Ds	F8	OFB-47	NA	L15
MAFB-193	C	S8	MAFB-389	WT/B	Q6	OFB-48	NA	M15
MAFB-194	C	S8	MAFB-390	WT/B	Q7	OFB-49	NA	G5
MAFB-195	C	S9	MAFB-391	C	L11	OFB-51	NA	F9
MAFB-196	C	T7	MAFB-392	C	M11	OFB-52	NA	G9
MAFB-197	WT/C	Q9	MAFB-393	C	L11	OFB-53	NA	L15
MAFB-198	C	Q9	MAFB-394	C	L11	OFB-54	NA	C8
MAFB-199	WT/Bu	K7	MAFB-395	C	L12	OFB-55	NA	C9
MAFB-200	WT	K7	MAFB-396	B	M12	OFB-56	NA	D10
MAFB-201	WT/Bu	K7	MAFB-397	Dd	L3	OFB-57	NA	H13
MAFB-202	WT	L6	MAFB-398	WT/B	S4	OFB-58	NA	B9
MAFB-203	WT	K6	MAFB-398C	C	S4	OFB-60	NA	B6
MAFB-204	WT	K6	MAFB-399	C	T5	OFB-61	NA	A8
MAFB-205	WT	K6	MAFB-400	C	U4	OFB-62	NA	A8
MAFB-206	WT	L6	MAFB-401	WT/C	T7	OFB-63	NA	A10
MAFB-207	WT	L6	MAFB-402	WT/C	T7	OFB-65	NA	K2
MAFB-208	WT	L6	MAFB-403	WT/C	T7	OFB-67	NA	G11
MAFB-209	WT	L6	MAFB-404	WT/B	O4	OFB-68	NA	H11
MAFB-210	WT	L6	MAFB-405	WT/B	N4	OFB-69	NA	G14
MAFB-211	WT	K5	MAFB-406	WT/B	P7	OFB-70	NA	G14
MAFB-212	WT	L5	MAFB-406	WT/B	P7	OFB-71	NA	G13
MAFB-213 (A)	WT	N4	MAFB-407	WT/Bu	M4	OFB-72	NA	H12
MAFB-214	WT	N4	MAFB-408	WT/C	T7	OFB-73	NA	G13
MAFB-215	B	K7	MAFB-409	WT/B	O7	OFB-74	NA	G14
MAFB-216	B	K7	MAFB-410	WT/A	L5	OFB-75	NA	G14
MAFB-217	B	L6	MAFB-411	WT/B	N8	OFB-76	NA	H13
MAFB-218	B	K6	MAFB-412	WT/B	O8	OFB-77	NA	G13
MAFB-219	B	K6	MAFB-413	WT/B	M11	OFB-78	NA	G13
MAFB-220	B	K6	MAFB-414	WT	M5	OFB-79	NA	H12
MAFB-221	Bu	K5	MAFB-415	WT/B	N4	OFB-80	NA	H12
MAFB-222	B	K5	MAFB-416	WT/B	N3	OFB-81	NA	G13
MAFB-223	B	L6	MAFB-417	WT/B	L6	OFB-82	NA	G14
MAFB-224	B	L6	MAFB-418	WT	L6	OFB-83	NA	G14
MAFB-225	B	L6	MAFB-419	WT/B	M4	OFB-84	NA	G14
MAFB-226	B	L6	MAFB-420	WT	K6	OFB-85	NA	G12
MAFB-227	B	L5						

TIER 1



Wells that have remained on Reserved status are re-evaluated every 5 years

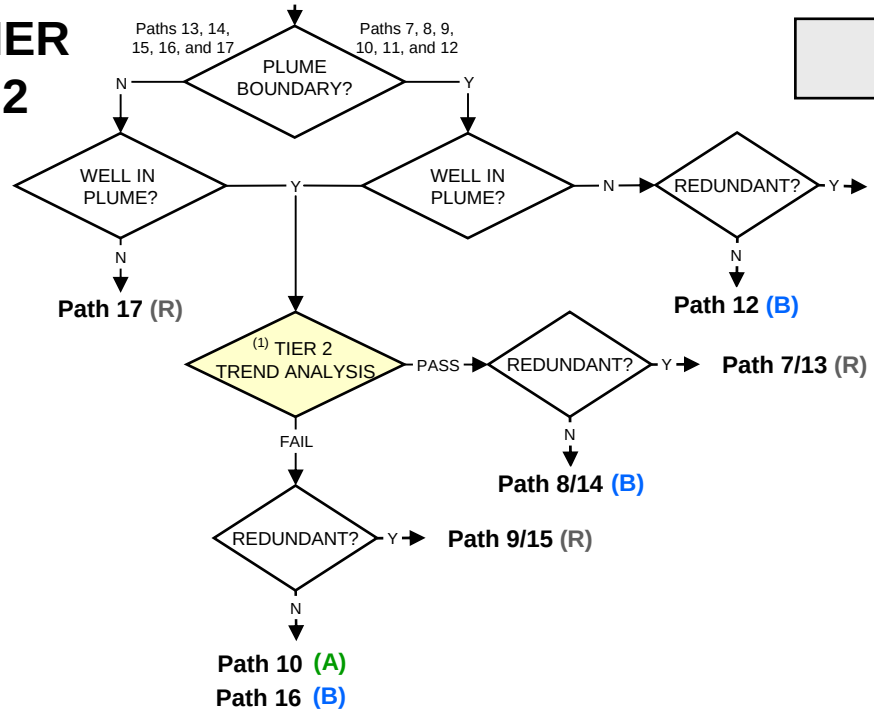
New wells and wells with less than 4 sampling events are placed on quarterly status

Plume boundary and receptor pathway (PBRP) wells that provide critical information concerning plume migration and early warning for receptors are placed on quarterly status

Prescriptive sampling wells are those whose sampling frequencies are chosen according to program mandates such as the Landfill and Off Base wells

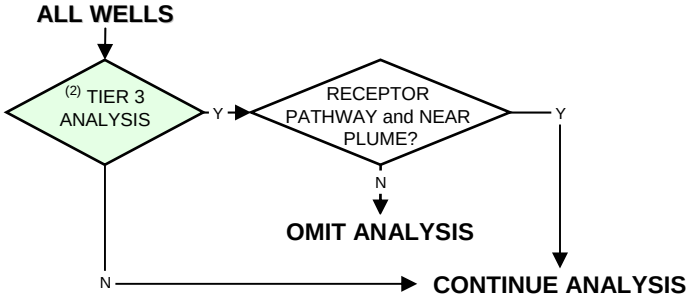
Wells that are near to supply wells and provide early warning of plume migration are given quarterly status

TIER 2



Wells that provide information on the plume boundary location

TIER 3



MWH

FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

GROUNDWATER MONITORING DECISION TREE

FIGURE 2-2

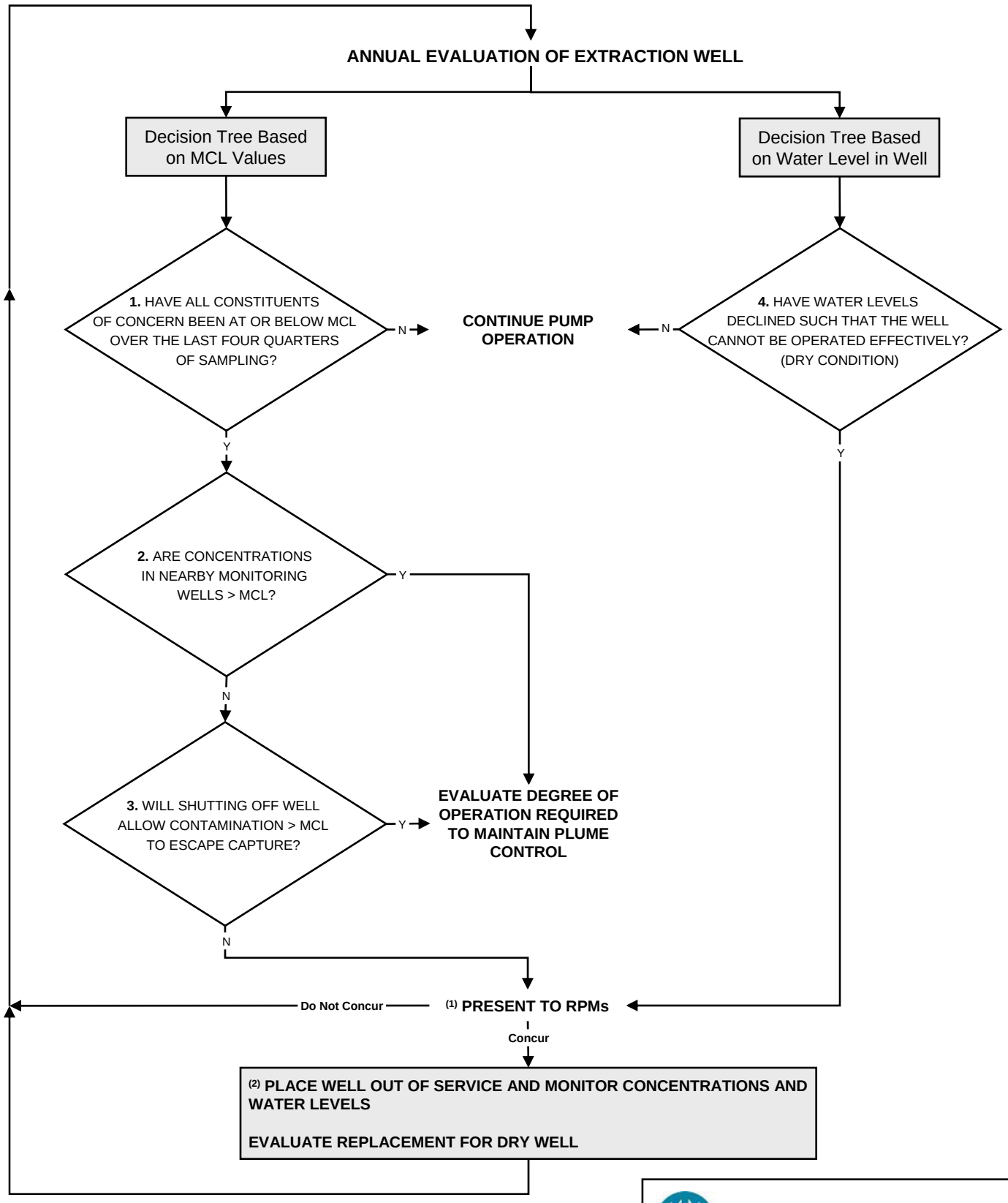
EXPLANATION

Q = Quarterly
S = Semi-annual
A = Annual
B = Biennial
R = Reserved

(1) TIER 2 TREND ANALYSIS
PASS: Decreasing, stable, or increasing at < one half of MCL/YR (if concentration is below the MCL) or increasing at < 25% of concentration per year (90% confidence).
FAIL: Increasing at > one half MCL/YR (if concentration is below the MCL) or increasing at > 25% of concentration per year, no trend or insufficient data.

(2) TIER 3 ANALYSIS – Each analytical suite by well
HVOCS: 4 sampling events with NDs in last 4 sampling events
Lead, TPH, BTEX: 4 most recent sampling events: < MDL, or < background levels, or outside established plume areas.

NOTE: Sampling frequencies for any well may be adjusted according to professional judgment at any time.



NOTES:

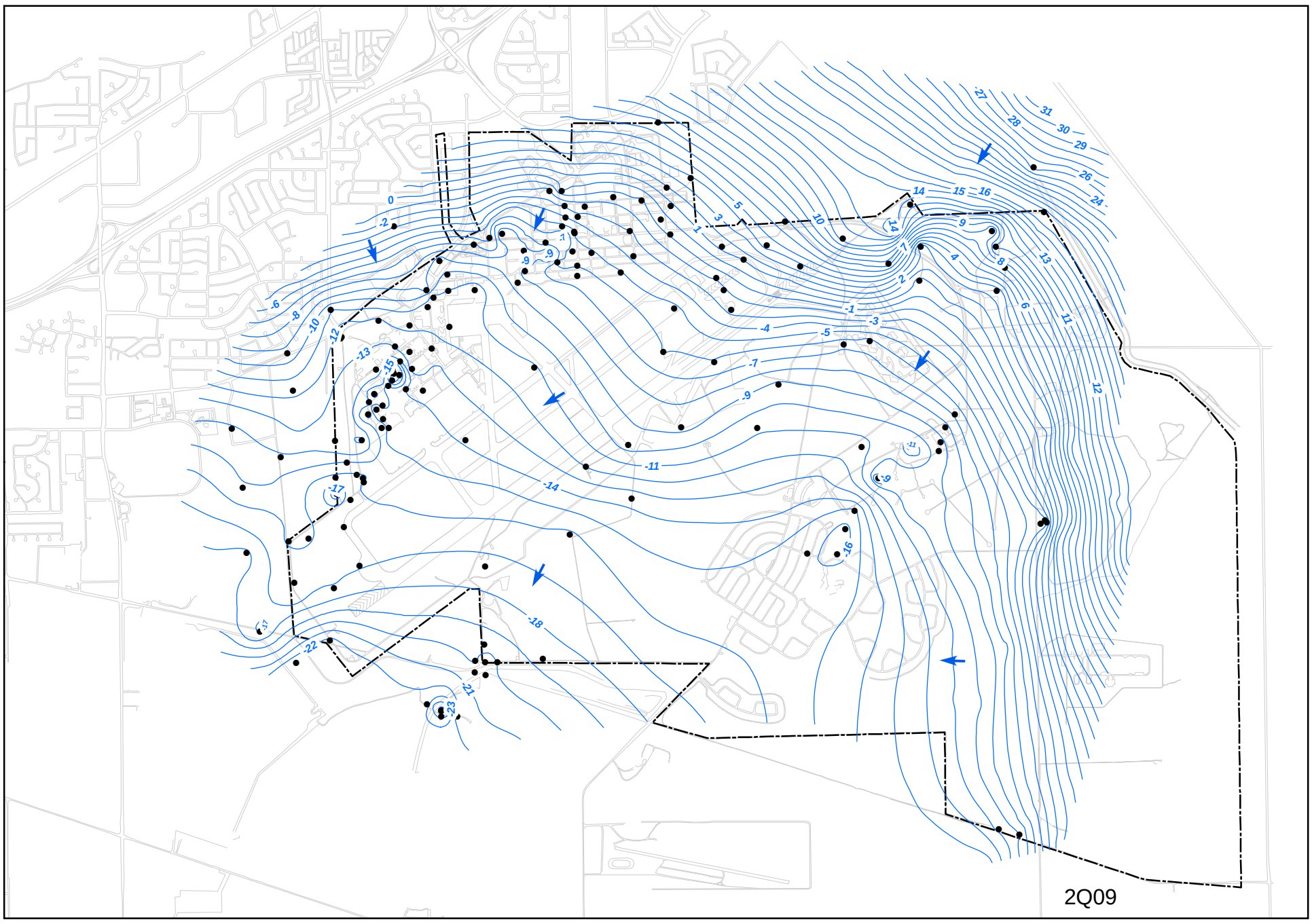
(1) RPMs may override decision criteria by mutual agreement.
(2) Extended cleanup times or other economic considerations may override well shut off decision.

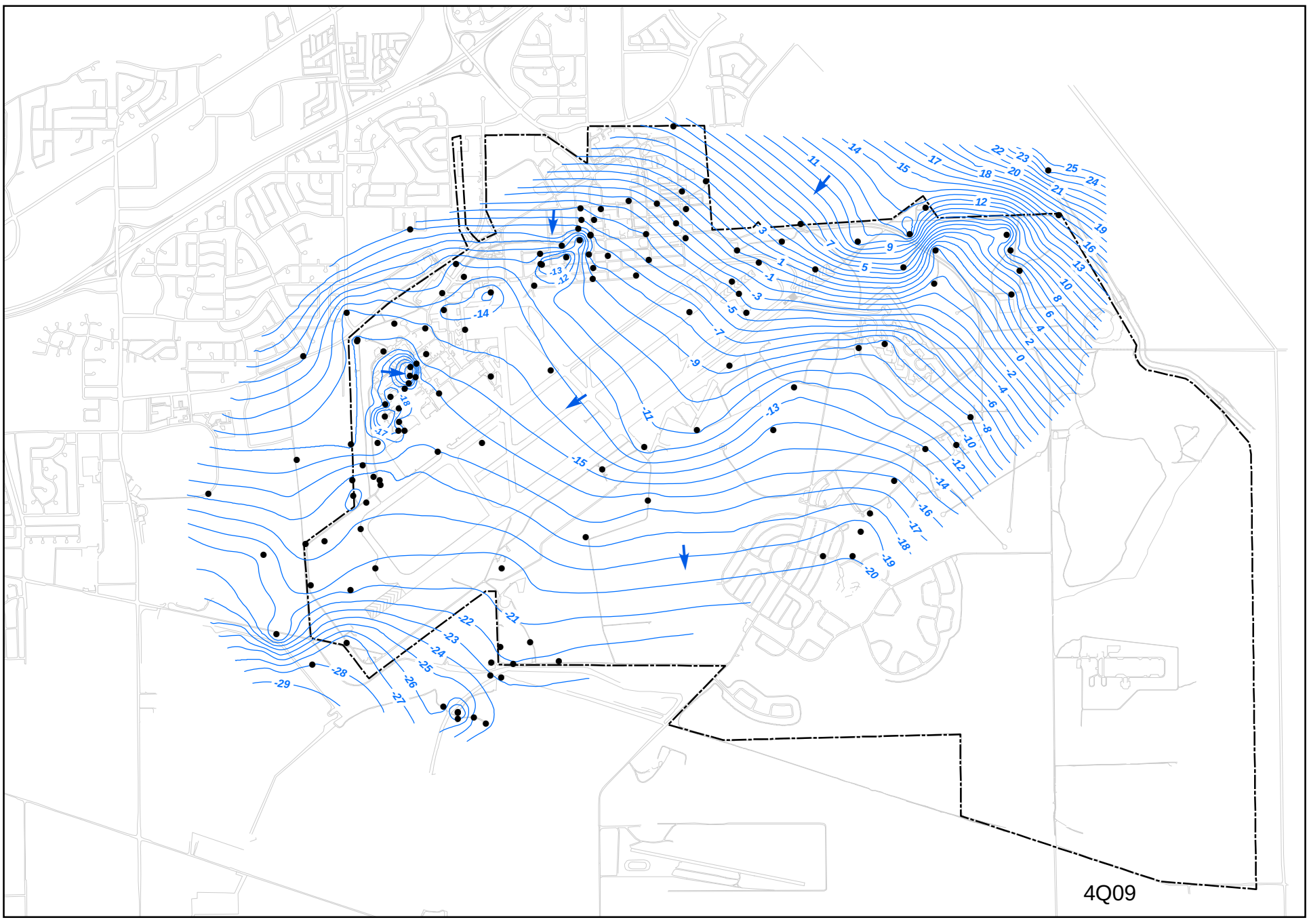
Adapted from: Annual and Fourth Quarter Sitewide Groundwater Monitoring Report, March 28, 2003.

MWH

FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA
EXTRACTION WELL SHUTDOWN DECISION TREE

FIGURE 2-3





LEGEND:

- GROUNDWATER WELLS
- WATER TABLE SURFACE CONTOURS
- MATHER PROPERTY LINE
- APPROXIMATE GROUNDWATER FLOW DIRECTION

N

0 1,500 3,000 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA	
TITLE:		FIGURE NO.:
SECOND AND FOURTH QUARTER 2009 WATER TABLE SURFACE CONTOURS		**2-4**

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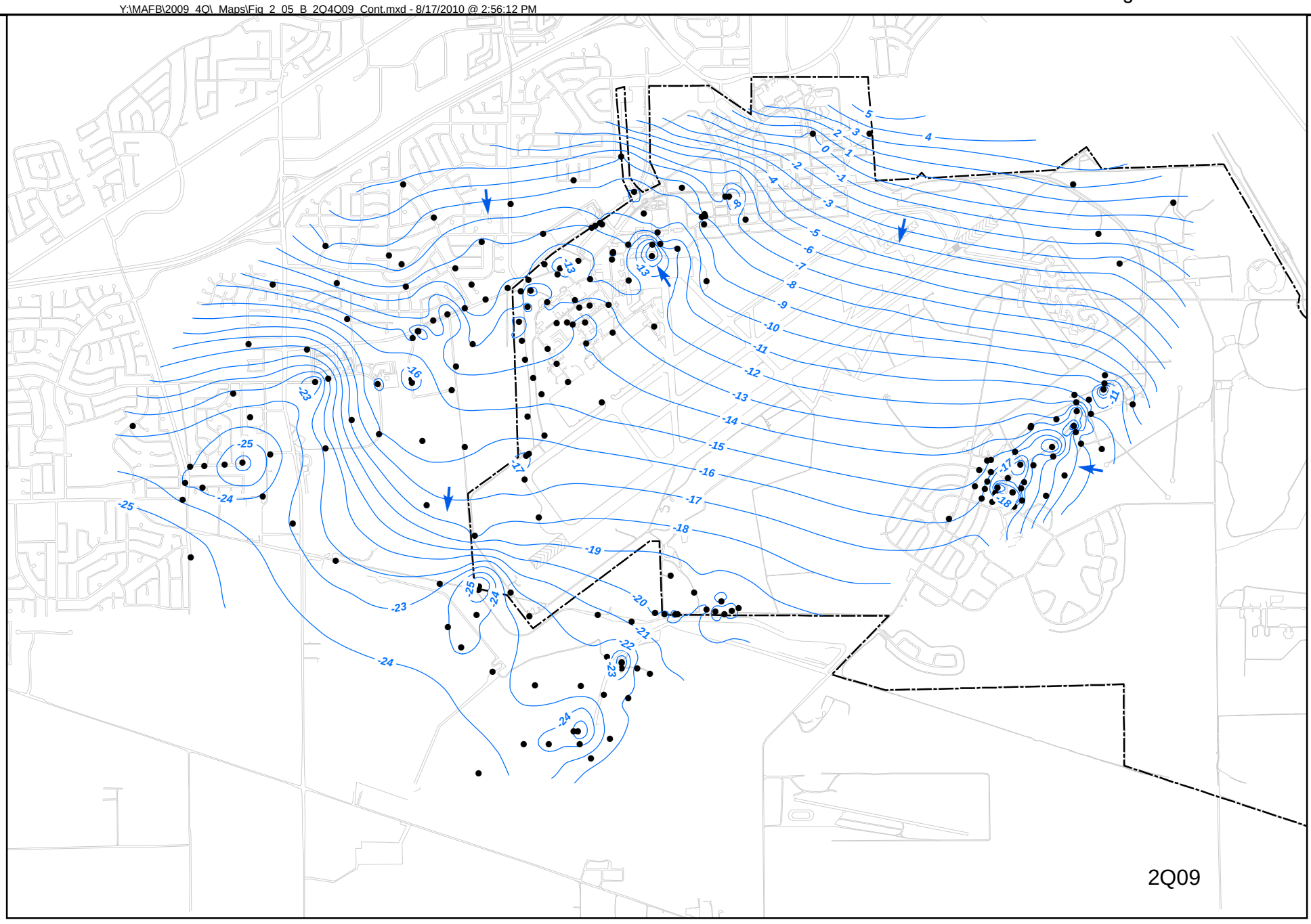
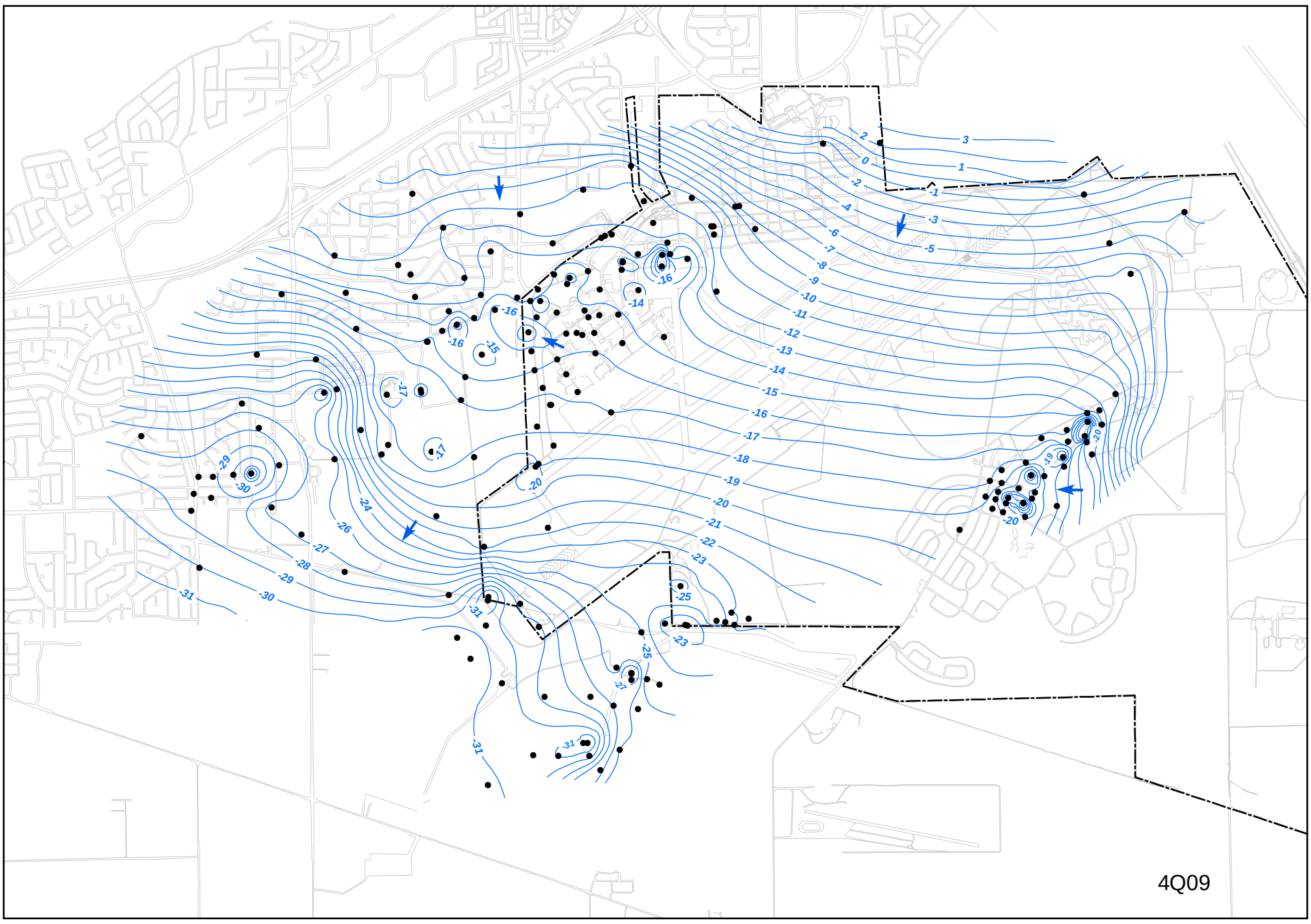




LEGEND:

- GROUNDWATER WELLS
- POTENTIOMETRIC SURFACE CONTOUR (FT MSL)
- MATHER PROPERTY LINE
- APPROXIMATE GROUNDWATER FLOW DIRECTION

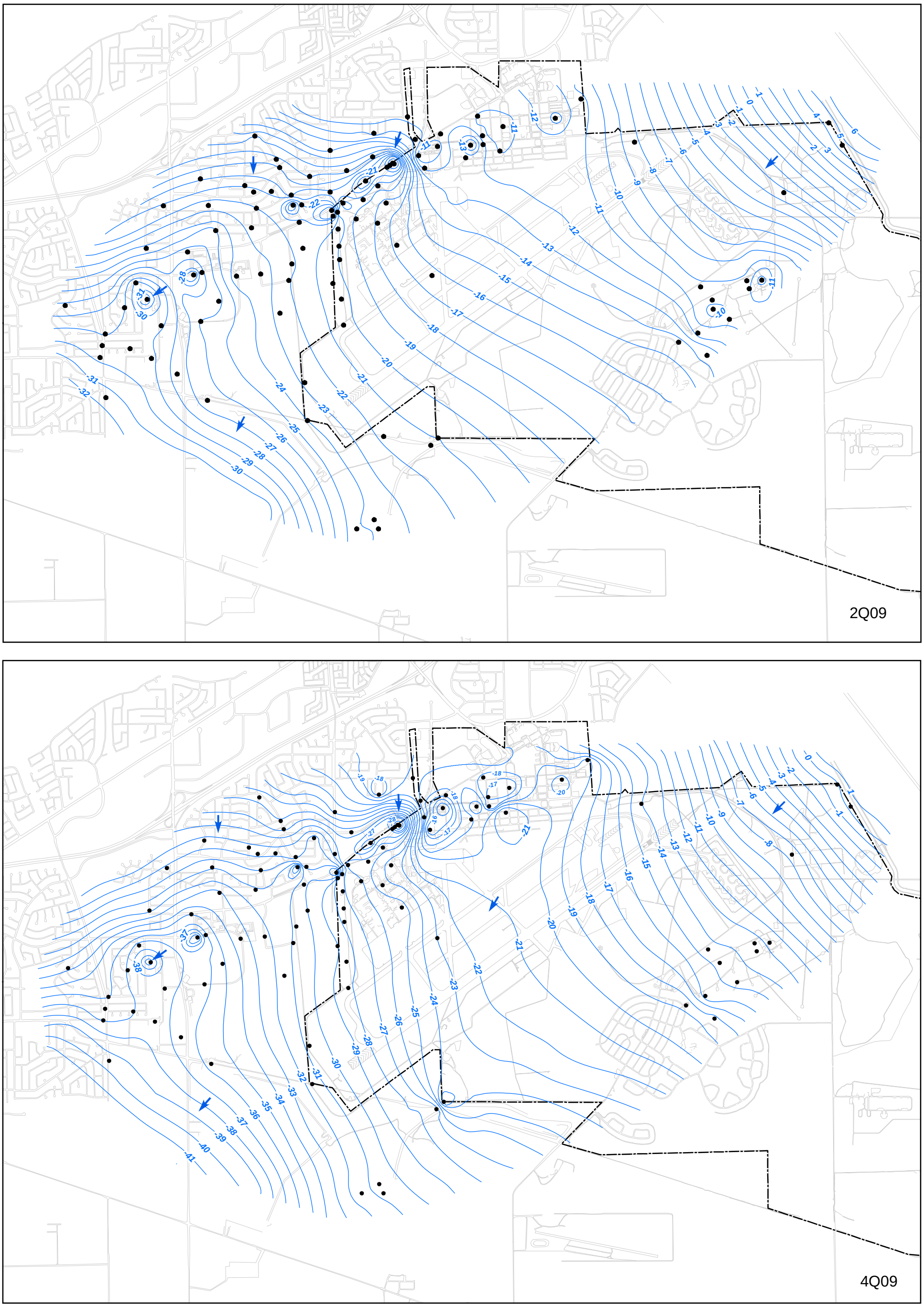
N

0 1,500 3,000 Feet

MWH

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	FIGURE NO.:
SECOND AND FOURTH QUARTER 2009 UNIT B/C POTENTIOMETRIC SURFACE CONTOURS	**2-5**



LEGEND:

- GROUNDWATER WELLS
- POTENTIOMETRIC SURFACE CONTOUR (FT MSL)
- MATHER PROPERTY LINE
- APPROXIMATE GROUNDWATER FLOW DIRECTION

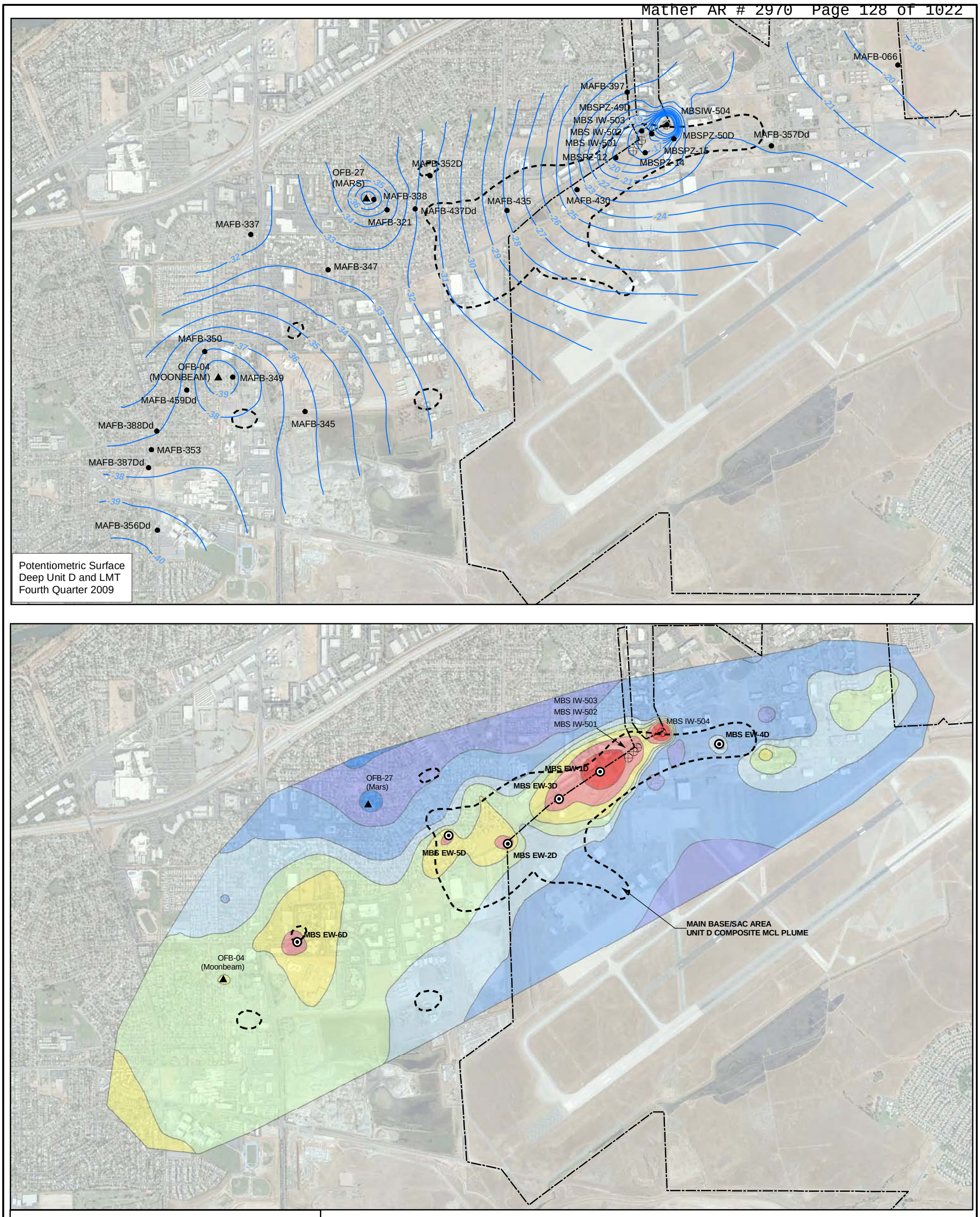
N

0 1,500 3,000 Feet

MWH

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA	
TITLE:		FIGURE NO.:
SECOND AND FOURTH QUARTER 2009 UNIT D POTENTIOMETRIC SURFACE CONTOURS		**2-6**



Potentiometric Surface
Deep Unit D and LMT
Fourth Quarter 2009

LEGEND:

- Groundwater Injection Well
- Groundwater Production Well
- Groundwater Extraction Well
- Unit D Composite MCL Plume (4Q09)

DIFFERENTIAL FLOW GRADIENTS (FT)

- >5
- 2-5 — Upward Vertical Gradient
- 0-2
- -1-0
- -1-(-2) — Downward Vertical Gradient
- -2-(-5)
- -5-(-8)
- > -8

N

0 1,000 2,000 4,000 Feet

MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	FIGURE NO.:

LMT POTENTIOMETRIC SURFACE CONTOURS AND UNIT D TO DEEP UNIT D/LMT DIFFERENTIAL SURFACE CONTOURS FOURTH QUARTER 2009

2-7

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

LOCID	DATE	PCE	cis-1,2-DCE
MAFB-005	5/14/09	1.5	<0.50
MAFB-013	4/29/09	0.31F	<0.50
MAFB-109	5/5/09	2.1	<0.50
MAFB-111	4/23/09	1.1	<0.50
MAFB-112	5/19/09	0.74	<0.50
MAFB-129	4/21/09	<0.50	<0.50
MAFB-131	5/18/09	0.65	<0.50
MAFB-132	10/22/09	**20**	**23**
MAFB-133	10/27/09	4.3	2.3
MAFB-136	10/22/09	**6**	5.5
MAFB-151	4/29/09	0.22F	<0.50
MAFB-288	4/23/09	0.71	0.64
MAFB-398	12/1/09	1.8	1.8
MAFB-398C	10/27/09	4.1	**8.6**
MAFB-399	10/22/09	3.0	2.8
MAFB-400	10/22/09	2.6	2.0
MAFB-411	4/21/09	2.1	<0.50
MAFB-412	4/20/09	<0.50	<0.50
MAFB-438	10/22/09	3.5	1.0

Legend:

- Groundwater Monitoring Well
- Abandoned Well
- Gray wells have data greater than two years old and were not used for contouring.
- 4Q09 Water Table Surface Contours (ft. msl)
- cis-1,2-DCE Isoconcentration Contours (ug/L)
- PCE Isoconcentration Contours (ug/L)
- Landfills
- Mather Property Line

NOTES:
1) Only data that is two years old or newer were used for the VOC contours. (Values at MCL or above are bolded)

2) Data units = ug/L.

QUALIFIERS:
F = RESULT IS BELOW THE REPORTING LIMIT
M = MATRIX EFFECT PRESENT

N

0 200 400 800 1,200 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE: **PCE AND CIS-1,2-DCE ISOCONCENTRATION CONTOURS NORTHEAST PLUME AREA FOURTH QUARTER 2009**

FIGURE NO.: **3-1**

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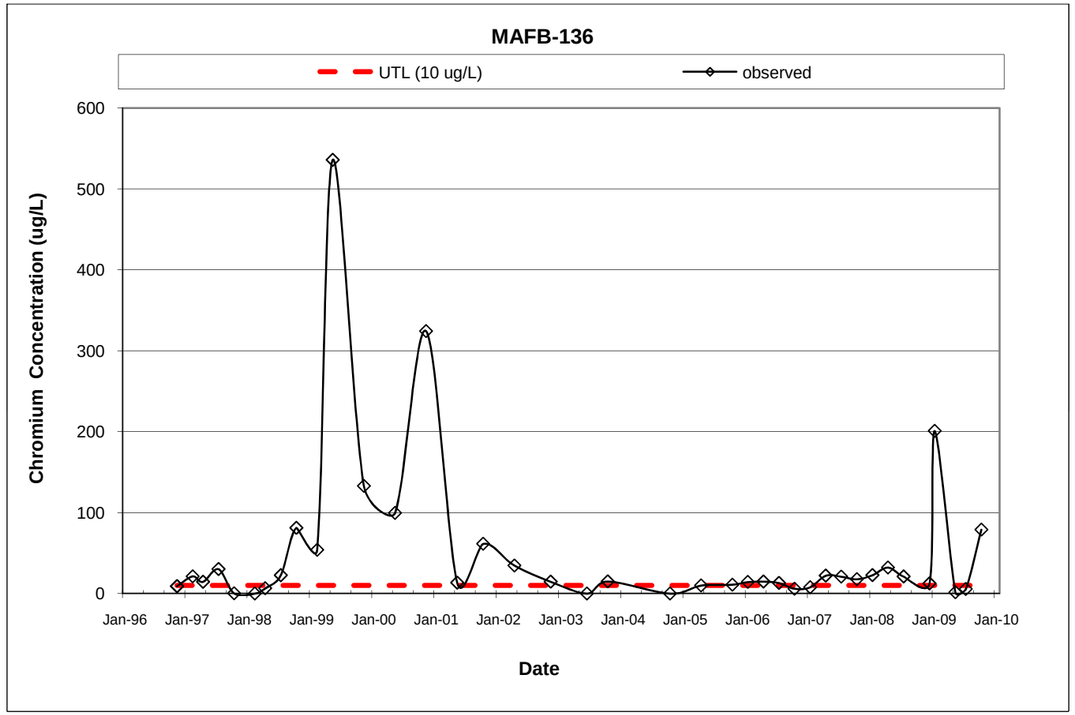
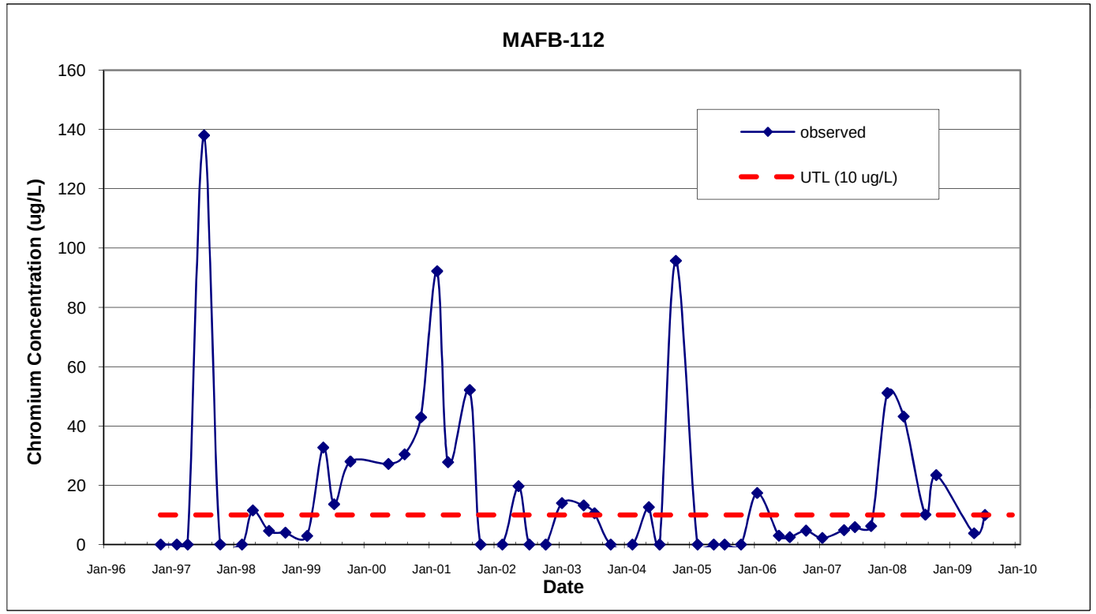
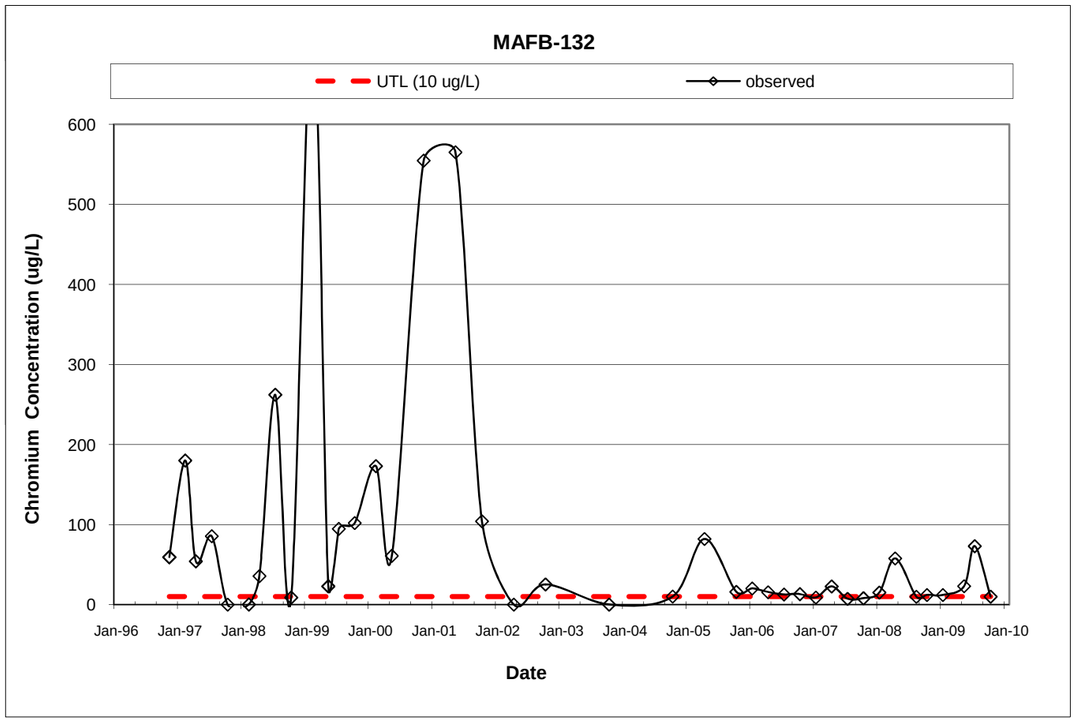
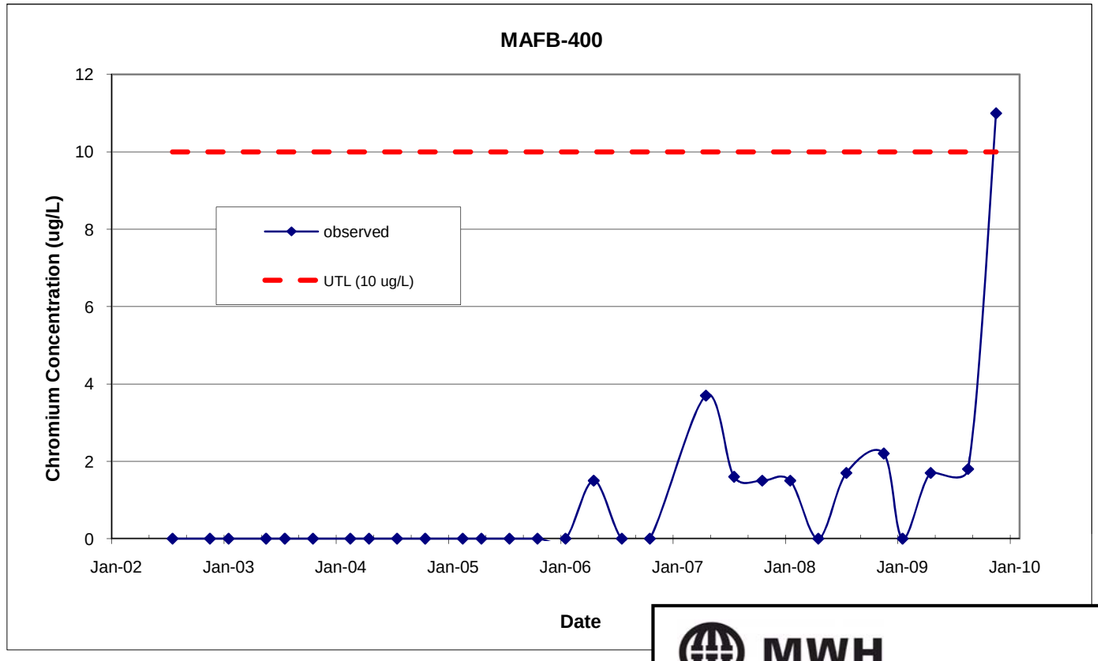








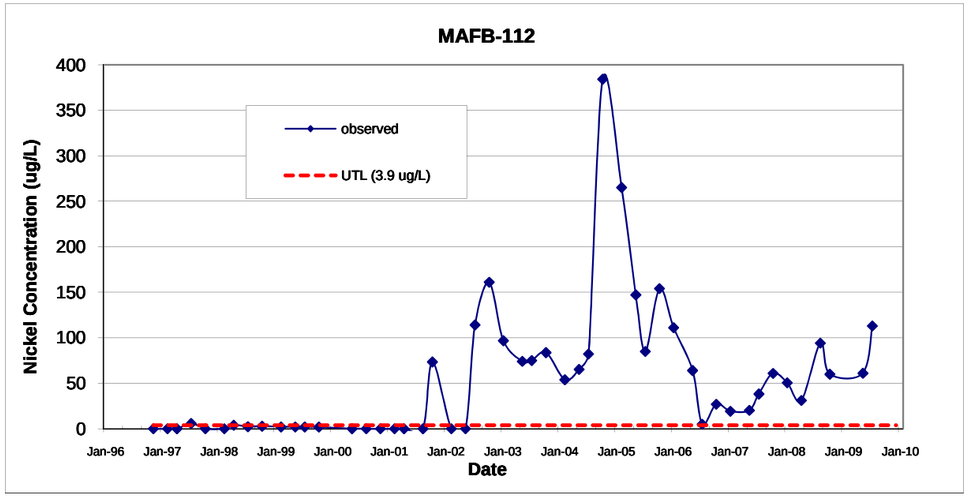
MWH

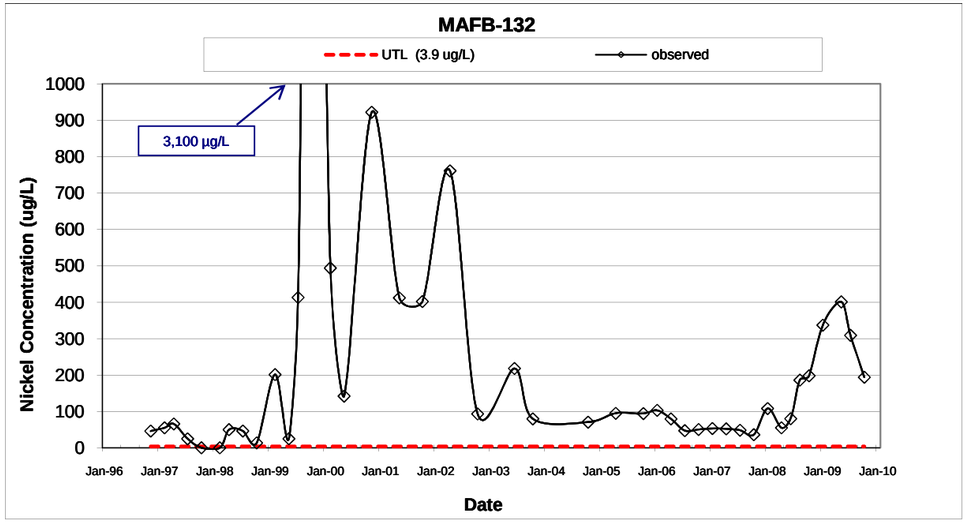
FORMER MATHER AIR FORCE BASE
SACRAMENTO, CALIFORNIA

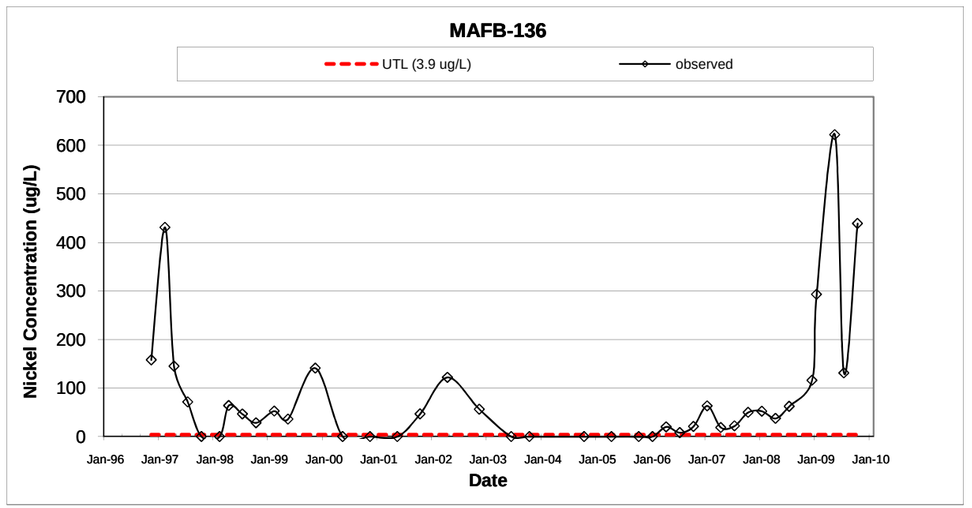
CHROMIUM CONCENTRATION
NORTHEAST PLUME EVALUATION
MONITORING PROGRAM

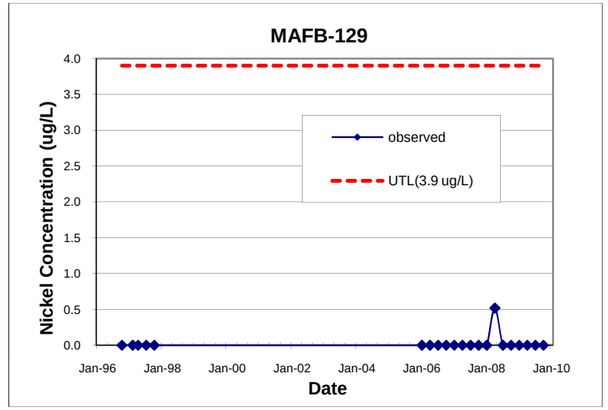
FIGURE 3-2

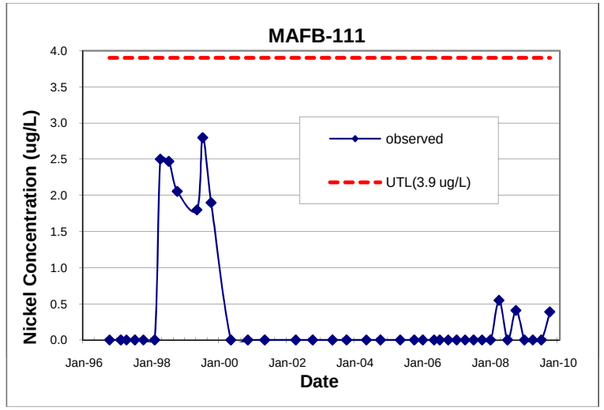
Mather AR # 2970 Page 130 of 1022

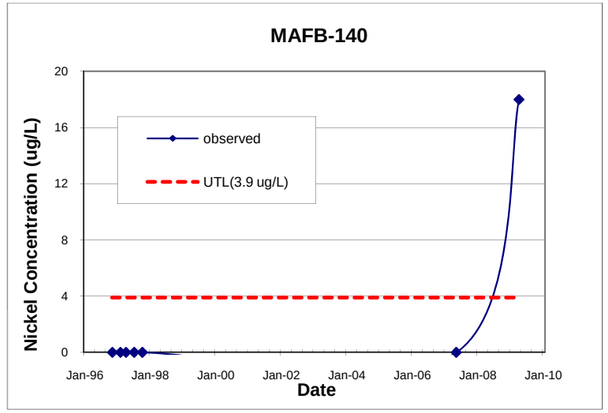


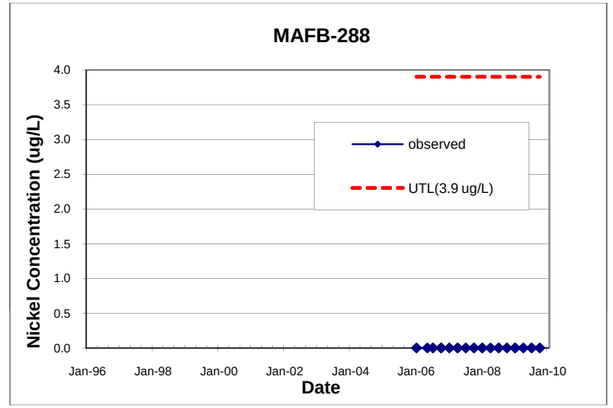


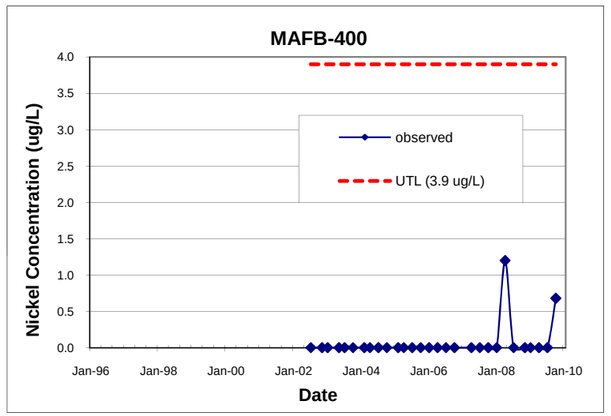












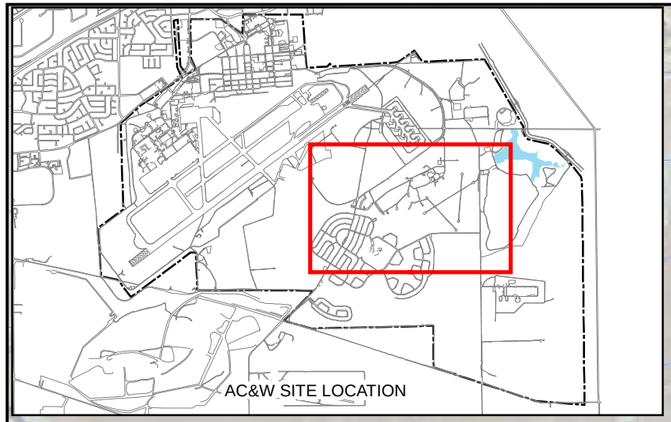
MWH

FORMER MATHER AIR FORCE BASE
SACRAMENTO, CALIFORNIA

NICKEL CONCENTRATION
NORTHEAST PLUME EVALUATION
MONITORING PROGRAM

FIGURE 3-3

Mather AR # 2970 Page 131 of 1022



AC&W Treatment System

Discharge to Mather Lake

MAFB-192
MAFB-050
ACWIW-4
MAFB-408
MAFB-401
MAFB-051
ACW PZ-10C
ACW PZ-10
ACW AT-1
MAFB-069
MAFB-068
ACWIW-7
MAFB-072
MAFB-054
ACW PZ-09
ACW PZ-09C
MAFB-453
MAFB-453C
MAFB-402
MAFB-067
MAFB-403
ACW IW-1
MAFB-074
ACW AT-2
MAFB-083
MAFB-196
MAFB-071
MAFB-053
ACW EW-1
ACWIW-5
MAFB-084
MAFB-193
MAFB-454
MAFB-454C
ACW PZ-08C
ACW PZ-08
MAFB-82
ACW AT-3
MAFB-070
MAFB-052
ACWIW-8
ACW PZ-06
ACW PZ-06C
ACW EW-2
ACW PZ-07
ACW PZ-07C
ACW IW-6
MAFB-303
MAFB-077
MAFB-432
MAFB-078
MAFB-194
MAFB-301
MAFB-190
MAFB-191
ACW EW-3
MAFB-305
ACW EW-5
ACW PZ-02
ACWPZ-01
ACW EW-4
MAFB-456
MAFB-456C
MAFB-306
ACWPZ-04
ACWPZ-03
ACWEW-6
ACW EW-6R
ACWIW-2
MAFB-195
MAFB-079
MAFB-080
ACWIW-3
MAFB-81
MAFB-302
ACW PZ-05
MAFB-433
MAFB-455
MAFB-304
MAFB-197
MAFB-198

-11 -12 -10 -9 -8 -7 -6 -18 -20 -19 -21 -22 -17 -16 -15 -14 -13 -23

LEGEND:

- Groundwater Injection Well
- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Abandoned Well

Gray wells have data greater than 2 years old and were not used for contouring.

- Unit B GW contours (4Q09)
- TCE Plume (≥5.0 ug/L)
- AC&W GW Treatment System piping

LOCID	UNIT	DATE	TCE
ACW AT-1	C	4/17/09	**12M**
ACW AT-2	C	4/17/09	**12M**
ACW AT-3	C	6/12/08	<0.50M
ACW EW-1	C	4/17/09	**6.0M**
ACW EW-2	C	4/17/09	3.3M
ACW EW-3	C	4/17/09	4.0M
ACW EW-4	C	4/17/09	0.68M
ACW EW-6R	C	4/17/09	**7.7M**
ACW PZ-02	C	4/27/09	<0.50
ACW PZ-05	C	10/23/09	0.44F
ACW PZ-06	WT/C	4/24/08	<0.50
ACW PZ-06C	C	4/24/09	0.51
ACW PZ-07C	C	4/24/09	0.49F
ACW PZ-08C	C	4/24/09	0.17F
ACW PZ-09	WT/C	4/24/08	0.25FM
ACW PZ-09C	C	4/23/09	0.22F
ACW PZ-10C	C	4/23/09	3.1
MAFB-053	C	4/24/09	2.0
MAFB-067	D	4/22/09	<0.50
MAFB-068	D	4/22/09	<0.50
MAFB-069	D	4/22/09	<0.50
MAFB-078	D	4/24/09	<0.50
MAFB-191	D	6/15/09	<0.50
MAFB-193	C	5/4/09	<0.50
MAFB-194	C	4/24/09	3.2
MAFB-196	C	4/24/09	2.1
MAFB-198	C	5/4/09	<0.50
MAFB-301	C	4/27/09	2.7
MAFB-302	C	4/27/09	<0.50
MAFB-306	C	5/4/09	1.8
MAFB-401	WT/C	4/22/09	4.3
MAFB-402	WT/C	4/22/09	1.9
MAFB-403	WT/C	4/22/09	2.8
MAFB-408	WT/C	4/22/09	0.49F
MAFB-432	WT/C	4/24/09	**8.0**
MAFB-433	WT/C	10/23/09	<0.50
MAFB-453	WT	10/23/09	2.7
MAFB-453C	C	10/23/09	**11**
MAFB-454	WT	10/23/09	1.0
MAFB-454C	C	10/23/09	**5.5**
MAFB-455	WT	10/23/09	<0.50
MAFB-456	WT	10/23/09	0.42F
MAFB-456C	C	10/23/09	0.98

N

0 500 1,000 Feet

MWH

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE: **AC&W Site Groundwater Treatment System Layout and TCE Plume**

Fourth Quarter 2009

FIGURE NO.: **4-1**

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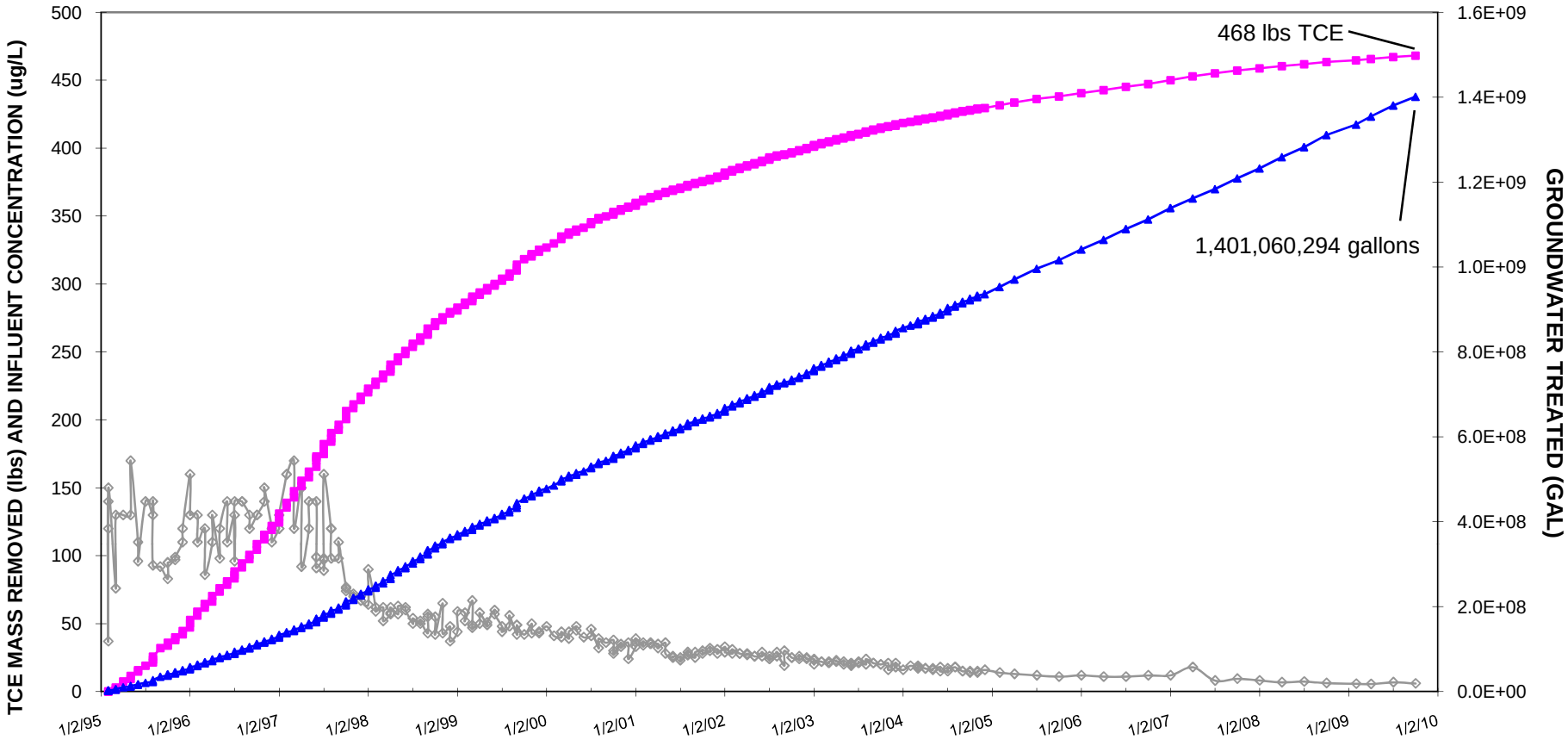


MWH

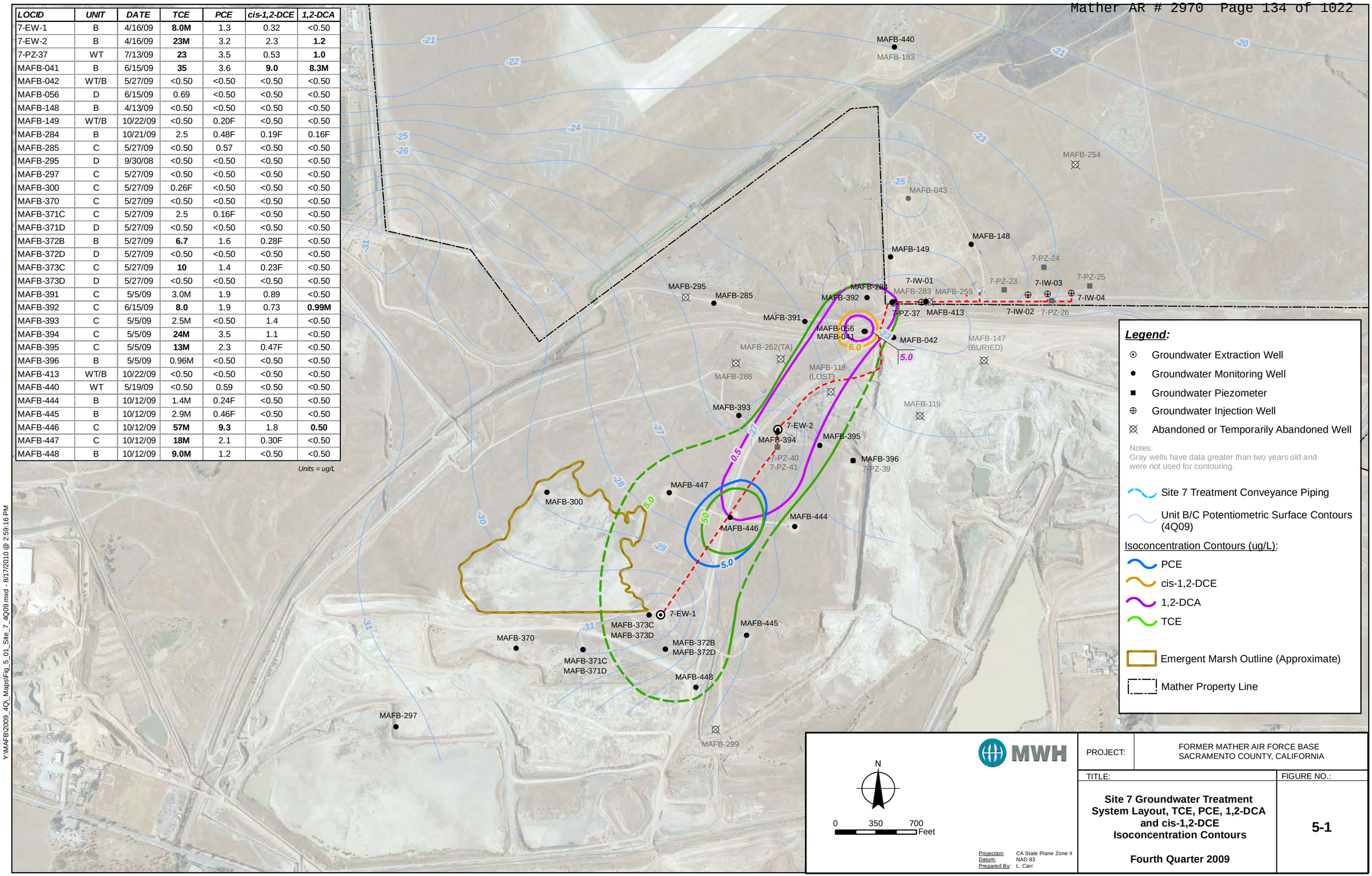
MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

AC&W
TREATMENT SYSTEM CUMULATIVE TCE MASS REMOVED, INFLUENT CONCENTRATION AND GROUNDWATER TREATED
FIGURE 4-2

Mather AR # 2970 Page 133 of 1022

LOCID	UNIT	DATE	TCE	PCE	cis-1,2-DCE	1,2-DCA
7-EW-1	B	4/16/09	**8.0M**	1.3	0.32	<0.50
7-EW-2	B	4/16/09	**23M**	3.2	2.3	**1.2**
7-PZ-37	WT	7/13/09	**23**	3.5	0.53	**1.0**
MAFB-041	B	6/15/09	**35**	3.6	**9.0**	**8.3M**
MAFB-042	WT/B	5/27/09	<0.50	<0.50	<0.50	<0.50
MAFB-056	D	6/15/09	0.69	<0.50	<0.50	<0.50
MAFB-148	B	4/13/09	<0.50	<0.50	<0.50	<0.50
MAFB-149	WT/B	10/22/09	<0.50	0.20F	<0.50	<0.50
MAFB-284	B	10/21/09	2.5	0.48F	0.19F	0.16F
MAFB-285	C	5/27/09	<0.50	0.57	<0.50	<0.50
MAFB-295	D	9/30/08	<0.50	<0.50	<0.50	<0.50
MAFB-297	C	5/27/09	<0.50	<0.50	<0.50	<0.50
MAFB-300	C	5/27/09	0.26F	<0.50	<0.50	<0.50
MAFB-370	C	5/27/09	<0.50	<0.50	<0.50	<0.50
MAFB-371C	C	5/27/09	2.5	0.16F	<0.50	<0.50
MAFB-371D	D	5/27/09	<0.50	<0.50	<0.50	<0.50
MAFB-372B	B	5/27/09	**6.7**	1.6	0.28F	<0.50
MAFB-372D	D	5/27/09	<0.50	<0.50	<0.50	<0.50
MAFB-373C	C	5/27/09	**10**	1.4	0.23F	<0.50
MAFB-373D	D	5/27/09	<0.50	<0.50	<0.50	<0.50
MAFB-391	C	5/5/09	3.0M	1.9	0.89	<0.50
MAFB-392	C	6/15/09	**8.0**	1.9	0.73	**0.99M**
MAFB-393	C	5/5/09	2.5M	<0.50	1.4	<0.50
MAFB-394	C	5/5/09	**24M**	3.5	1.1	<0.50
MAFB-395	C	5/5/09	**13M**	2.3	0.47F	<0.50
MAFB-396	B	5/5/09	0.96M	<0.50	<0.50	<0.50
MAFB-413	WT/B	10/22/09	<0.50	<0.50	<0.50	<0.50
MAFB-440	WT	5/19/09	<0.50	0.59	<0.50	<0.50
MAFB-444	B	10/12/09	1.4M	0.24F	<0.50	<0.50
MAFB-445	B	10/12/09	2.9M	0.46F	<0.50	<0.50
MAFB-446	C	10/12/09	**57M**	**9.3**	1.8	**0.50**
MAFB-447	C	10/12/09	**18M**	2.1	0.30F	<0.50
MAFB-448	B	10/12/09	**9.0M**	1.2	<0.50	<0.50

Units = ug/L



Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Injection Well
- Abandoned or Temporarily Abandoned Well

Notes:
Gray wells have data greater than two years old and were not used for contouring.

- Site 7 Treatment Conveyance Piping
- Unit B/C Potentiometric Surface Contours (4Q09)

Isoconcentration Contours (ug/L):

- PCE
- cis-1,2-DCE
- 1,2-DCA
- TCE

- Emergent Marsh Outline (Approximate)
- Mather Property Line

MWH

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

PROJECT: FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

TITLE: **Site 7 Groundwater Treatment System Layout, TCE, PCE, 1,2-DCA and cis-1,2-DCE Isoconcentration Contours**

Fourth Quarter 2009

FIGURE NO.: **5-1**

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LOCA	UNIT	DATE	TCE	1,2-DCA
7-BV-01	NA	10/19/09	0.25F	<0.50
7-BV-02	NA	10/21/09	**14**	**3.8**
7-BV-04	NA	10/19/09	<0.50	<0.50
7-BV-06	NA	10/19/09	<0.50	<0.50
7-BV-07	NA	10/21/09	3.3	<0.50
7-BV-08	NA	10/21/09	4.3	<0.50
7-BV-13	NA	10/21/09	3.8	<0.50
7-PZ-37P	WT/PERCH	10/21/09	2.7	<0.50
7-PZ-38P	WT/PERCH	5/12/09	0.19F	<0.50
MAFB-039	WT/PERCH	4/14/04	<0.50M	<0.50
MAFB-044	WT/PERCH	10/21/09	<0.50	<0.50
MAFB-184	WT/PERCH	4/14/04	<0.50M	<0.50
MAFB-189	WT/PERCH	4/11/07	<0.50M	<0.50
MAFB-440P	WT/PERCH	5/19/09	<0.50	<0.50

Data Units: µg/L

LEGEND

- TCE MCL ISOCONCENTRATION CONTOUR (ug/L)
- 1,2-DCA MCL ISOCONCENTRATION CONTOUR (ug/L)
- PERCHED ZONE GROUNDWATER SURFACE ELEVATION CONTOUR (4Q09) (FT MSL). CONTOURS WERE GENERATED FROM GROUNDWATER ELEVATION DATA OBTAINED FROM WELLS SCREENED IN THE PERCHED ZONE.
- SVE/BIOVENT WELL (PARTIALLY SUBMERGED) OR GROUNDWATER MONITORING WELL/PIEZOMETER SAMPLED QUARTERLY OR SEMI-ANNUALLY
- PERCHED GROUNDWATER MONITORING WELL (NOT SAMPLED) - FORMER BIOVENT WELL
- MATHER PROPERTY LINE
- LANDFILL CAP OUTLINE

N

0 100 200 400 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

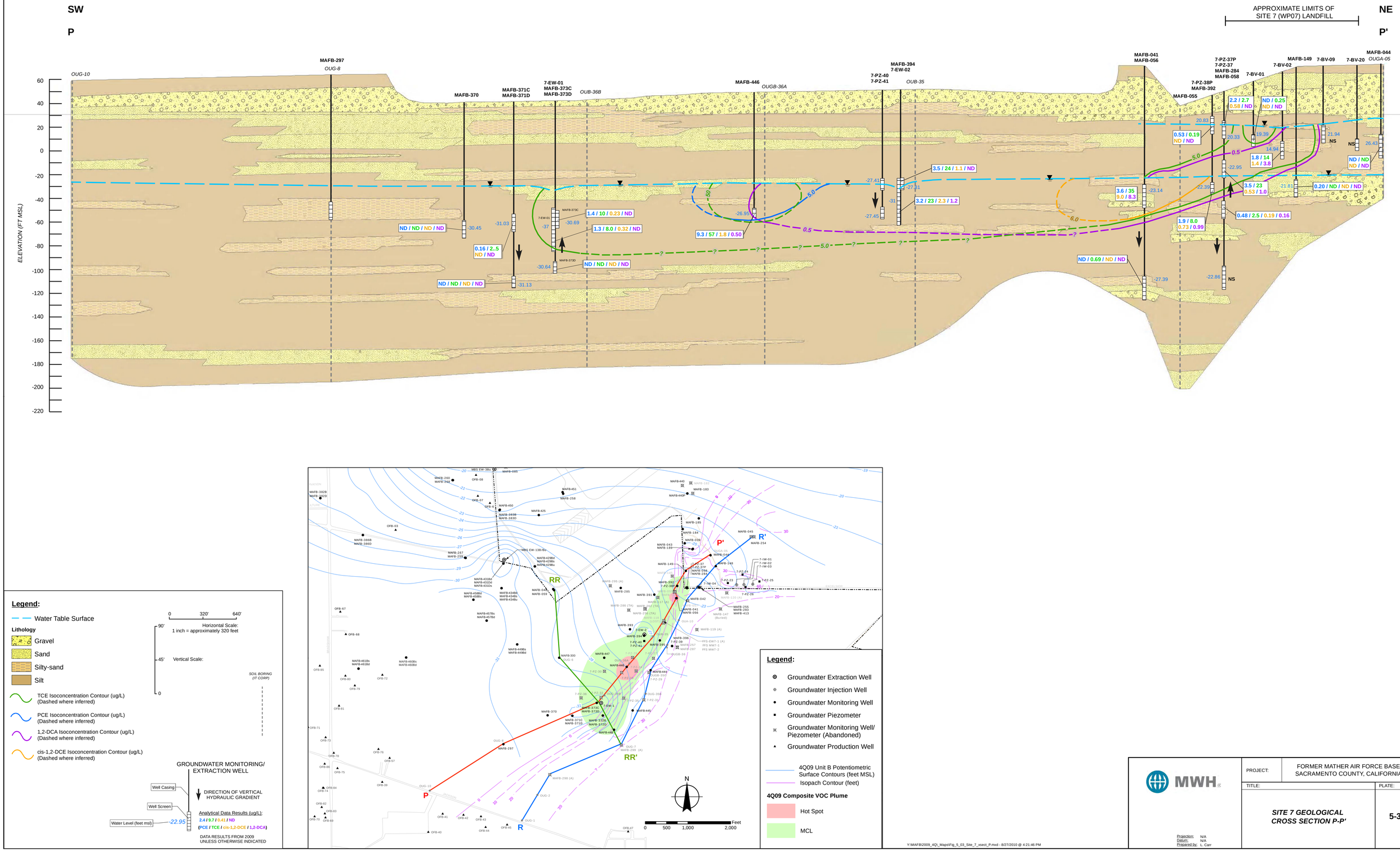
MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE: **TCE AND 1,2-DCA ISOCONCENTRATION CONTOURS SITE 7 PERCHED ZONE FOURTH QUARTER 2009**

FIGURE NO.: **5-2**

Y:\MAFB\2009 4Q\ Maps\Fig 5 02 Site 7 PERCH 4Q09.mxd - 3/29/2010 @ 10:40:39 AM



Legend:

Water Table Surface

Lithology

- Gravel
- Sand
- Silty-sand
- Silt

TCE Isoconcentration Contour (ug/L) (Dashed where inferred)

PCE Isoconcentration Contour (ug/L) (Dashed where inferred)

1,2-DCA Isoconcentration Contour (ug/L) (Dashed where inferred)

cis-1,2-DCE Isoconcentration Contour (ug/L) (Dashed where inferred)

Horizontal Scale: 1 inch = approximately 320 feet (0, 320', 640')

Vertical Scale: 90', 45', 0

SOIL BORING (IT CORP)

GROUNDWATER MONITORING/ EXTRACTION WELL

Well Casing

Well Screen

Water Level (feet msl) -22.95

DIRECTION OF VERTICAL HYDRAULIC GRADIENT

Analytical Data Results (ug/L):
2.4 / 9.7 / 0.41 / ND
(PCE / TCE / cis-1,2-DCE / 1,2-DCA)

DATA RESULTS FROM 2009 UNLESS OTHERWISE INDICATED

Legend:

- Groundwater Extraction Well
- Groundwater Injection Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Monitoring Well/ Piezometer (Abandoned)
- Groundwater Production Well

4Q09 Unit B Potentiometric Surface Contours (feet MSL)

Isopach Contour (feet)

4Q09 Composite VOC Plume

Hot Spot

MCL

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MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	PLATE:
SITE 7 GEOLOGICAL CROSS SECTION P-P'	**5-3**

Projection: N/A
Datum: N/A
Prepared by: L. Carr

R

R'

APPROXIMATE LIMITS OF SITE 7 (WP07) LANDFILL

ELEVATION (FT MSL)

80 60 40 20 0 -20 -40 -60 -80 -100 -110 -120 -140 -160 -180

OU-1 OUG-02 MAFB-299 (A) OUG-7 MAFB-445 OUG-35B MAFB-444 OUGB-35G MAFB-395 7-PZ-39 OUB-36 OUA-10 MAFB-042 OUGB-31 MAFB-255 MAFB-413 MAFB-283 7-BV-13 7-BV-19 MAFB-148 MAFB-254

PERCHED WATER TABLE

0.9 / 3.8 / 0.18 / ND

NS

ND / ND / ND / ND (APRIL 2004)

ND / ND / ND / ND

2.3 / 13 / 0.47 / ND

-24.40

-22.06

-21.34

-22.80

ND / ND / ND / ND

-21.32

-25.98

-28.32

0.24 / 1.4 / ND / ND

5.0

ND / 0.62 / ND / ND (APRIL 2002)

-21.91

ND / ND / ND / ND (MAY 2002)

0.46 / 2.9 / ND / ND

-28.38

ND / 0.26 / ND / ND (OCTOBER 2003)

ND / ND / ND / ND

Legend:

- Water Table Surface
- Groundwater Well
- GW Well (Temp. Abandoned)
- SOIL BORING

Lithology

- Gravel
- Sand
- Silty Sand
- Silt

TCE Isoconcentration Contour (ug/L) (Dashed where inferred)

90' 45' 0

Vertical Scale: 1 inch = 45 feet

0 320' 640'

Horizontal Scale: 1 inch = approximately 320 feet

SOIL BORING (IT CORP)

GROUNDWATER MONITORING/ EXTRACTION WELL

DIRECTION OF VERTICAL HYDRAULIC GRADIENT

Well Casing

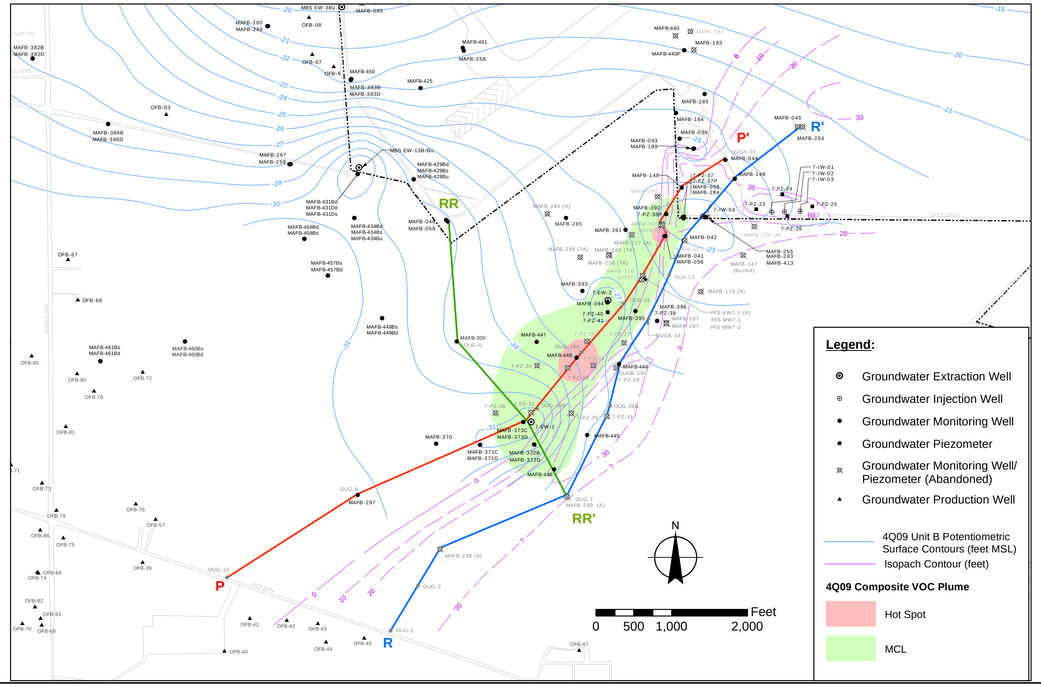
Well Screen

-25.98

Water Level (feet msl)

Analytical Data Results (ug/L):
2.4 / 9.7 / 0.41 / ND
(PCE / TCE / cis-1,2-DCE / 1,2-DCA)

DATA RESULTS FROM 2009 UNLESS OTHERWISE INDICATED



Legend:

- Groundwater Extraction Well
- Groundwater Injection Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Monitoring Well/ Piezometer (Abandoned)
- Groundwater Production Well

4Q09 Unit B Potentiometric Surface Contours (feet MSL)

Isopach Contour (feet)

4Q09 Composite VOC Plume

Hot Spot

MCL

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE: ***SITE 7 GEOLOGICAL CROSS SECTION R-R'***

PLATE: 5-4

Projection: N/A
Datum: N/A
Prepared by: L. Carr

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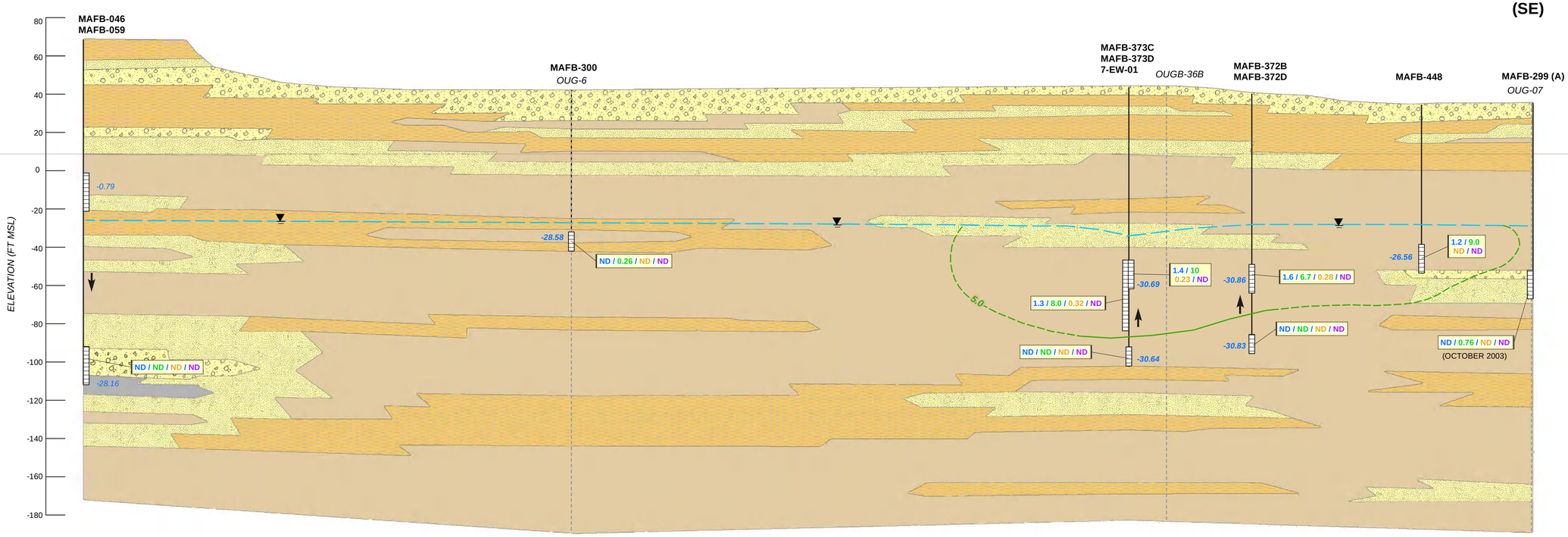
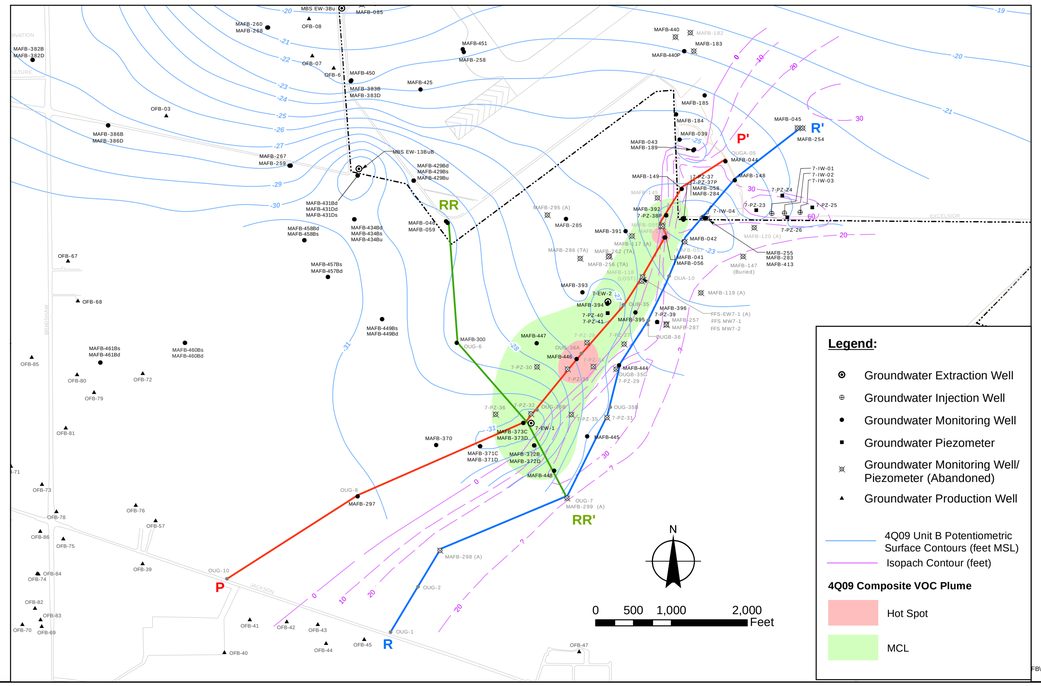
RR (NW) — RR' (SE)





Legend:

- TCE Isoconcentration Contour (ug/L) (Dashed where uncertain)
- Groundwater Surface

Lithology

- gravel
- sand
- silty-sand
- silt
- clay

Horizontal Scale: 1 inch = approximately 320 feet (0, 320', 640')

Vertical Scale: 1 inch = 30 feet (90', 45', 0)

SOIL BORING (IT CORP)

GROUNDWATER MONITORING/ EXTRACTION WELL

Well Casing

Well Screen

-34.45

Water Level (feet msl)

DIRECTION OF VERTICAL HYDRAULIC GRADIENT

Analytical Data Results (ug/L):
2.4 / 9.7 / 0.41 / ND
(PCE / TCE / cis-1,2-DCE / 1,2-DCA)

DATA RESULTS FROM 2009 UNLESS OTHERWISE INDICATED

Legend:

- Groundwater Extraction Well
- Groundwater Injection Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Monitoring Well/ Piezometer (Abandoned)
- Groundwater Production Well
- 4Q09 Unit B Potentiometric Surface Contours (feet MSL)
- Isopach Contour (feet)

4Q09 Composite VOC Plume

- Hot Spot
- MCL

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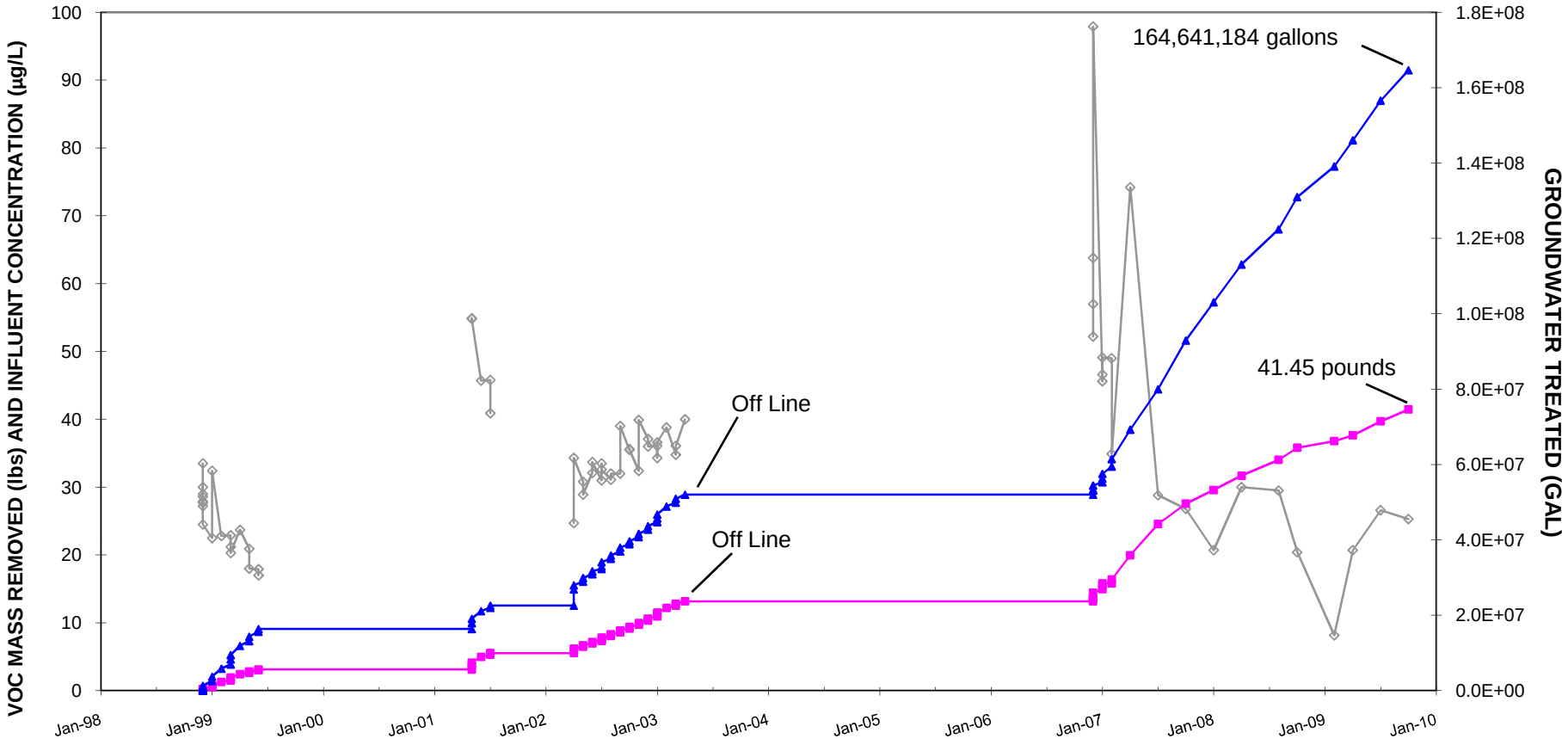
MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	PLATE:
SITE 7 GEOLOGICAL CROSS SECTION RR-RR'	**5-5**

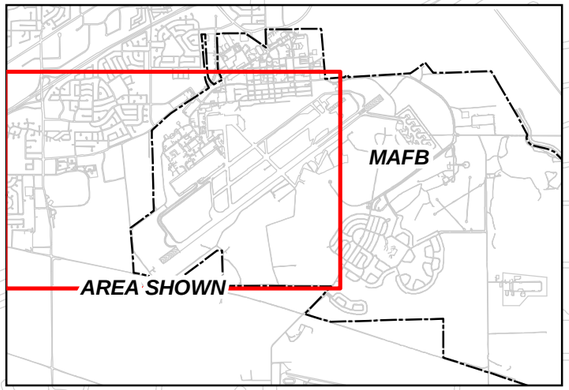
Projection: N/A
Datum: N/A
Prepared by: L. Carr



MWH

MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

SITE 7 TREATMENT SYSTEM CUMULATIVE VOLATILE ORGANIC COC MASS REMOVED, INFLUENT CONCENTRATION AND GROUNDWATER TREATED
FIGURE 5-6



MAIN BASE/SAC AREA
TREATMENT SYSTEM

POTENTIAL

MBS PZ-57B
MBS PZ-57D
MBS EW-4A
MBS EW-5A
MBS IW-504
MBS PZ-53
MBS PZ-54
MBS PZ-15
MBS EW-4D
MBS PZ-09
MBS EW-12AB
MBS PZ-49D
MBS IW-503
MBS IW-502
MBS IW-501
MBS PZ-50S
MBS PZ-50D
MBS EW-1A
(MBS EW-7ABu)
MBS PZ-49S
MBS PZ-14
MBS PZ-13
MBS PZ-12
MBS 39EW02
POTENTIAL DISCHARGE
TO IRRIGATION
MBS 19EW01
MBS EW-1D
MBS 39ABuB
MBS PZ-10
MBS PZ-52
MBS PZ-11
MBS PZ-16
MBS EW-3D
MBS PZ-07
MBS PZ-51
MBS EW-3B
MBS PZ-08
MBS PZ-05
MBS EW-2B
MBS PZ-06
MBS PZ-48S
MBS PZ-48D
MBS EW-1B
MBS PZ-18
MBS EW-5D
MBS PZ-58
MBS PZ-41
MBS PZ-43
MBS PZ-40
MBS EW-4B
MBS PZ-39
MBS EW-8B
MBS EW-2D
MBS PZ-17
MBS PZ-42D
MBS EW4ABu
MBS EW-2A
(MBS EW-2AR)
MBS PZ-03
MBS PZ-42S
MBS EW-3A
MBS EW-5B
MBS PZ-47
MBS PZ-04
MBS EW-7B
MBS PZ-38
MBS PZ-46
MBS EW-6B
MBS PZ-01
MBS EW5ABu
MBS PZ-37
MBS PZ-02
MBS EW6ABu
MBS EW2ABu
MBS PZ-19
MBS EW1ABu
MBS PZ-44
MBS EW-10B
MBS EW-6D
MBS EW-11B
MBS PZ-20
MBS PZ-21
MBS PZ-22
MBS EW-4Bu
MBS PZ-55Bu
MBS PZ-55B
MBS PZ-59B
MBS PZ-59
MBS EW-1Bu
MBS EW-9B
MBS EW-12B
MBS EW-3Bu
MBS EW-13BuB

0 500 1,000 2,000 Feet

1 inch = 1,000 feet

LEGEND:

GROUNDWATER TREATMENT SYSTEM PIPELINE

MATHER PROPERTY LINE

GROUNDWATER WELL TYPES:

PIEZOMETER
EXTRACTION
INJECTION

WELL LABEL COLOR CODE:

Black = Piezometers
Blue = Phase I
Green = Phase II/III
Red = Phase IV
Purple = Phase IV Supplemental

MWH

FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

MAIN BASE/SAC AREA EXTRACTION WELL, INJECTION WELL, AND PIEZOMETER LOCATIONS

FIGURE 6-1

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LOCID	DATE	TCE
MAFB-033	5/21/09	**6.9**
MAFB-047	5/8/09	<0.50
MAFB-048	5/20/09	0.21F
MAFB-090	5/26/09	<0.50
MAFB-094	5/6/09	3.1
MAFB-096	5/6/09	1.2
MAFB-097	4/28/08	1.9
MAFB-106	5/1/08	<0.50
MAFB-121	4/15/08	**6.0**
MAFB-122	5/21/09	0.24F
MAFB-123	5/29/09	<0.50
MAFB-124	4/11/08	<0.50
MAFB-155	5/6/09	0.26F
MAFB-159	5/29/09	0.26F
MAFB-162	4/30/08	<0.50
MAFB-168	5/13/09	4.5
MAFB-172	4/30/09	0.49FJ
MAFB-174	4/30/09	0.48FJ
MAFB-176	4/30/09	3.2J
MAFB-199	5/11/09	0.37F
MAFB-200	5/4/09	1.9
MAFB-201	5/13/09	0.63
MAFB-202	5/29/09	0.27F
MAFB-203	5/21/09	**26**
MAFB-204	5/21/09	0.49FJ
MAFB-205	5/14/09	0.94
MAFB-206	5/26/09	2.3
MAFB-207	5/29/09	**11**
MAFB-209	5/28/09	1.3
MAFB-210	5/28/09	0.25F
MAFB-211	5/20/09	3.1
MAFB-212	5/29/09	0.45F
MAFB-214	5/18/09	2.6
MAFB-221	5/22/09	0.45F
MAFB-232	4/30/09	2.8J
MAFB-246	4/30/09	0.49F
MAFB-247	4/29/09	**5.3**
MAFB-248	4/30/09	**6.9**
MAFB-251	6/15/09	<0.50
MAFB-258	4/29/09	2.2
MAFB-259	4/24/09	<0.50
MAFB-260	4/24/09	<0.50
MAFB-264	5/14/09	**15**
MAFB-339	5/28/09	1.1
MAFB-340	5/7/09	0.18FJ
MAFB-341	5/8/09	<0.50
MAFB-342	5/7/09	0.25FJ
MAFB-344	6/15/09	<0.50
MAFB-359	5/13/09	1.1
MAFB-384B	5/8/09	0.72
MAFB-404	5/22/09	1.2
MAFB-405	5/22/09	**27**
MAFB-407	5/8/09	<0.50
MAFB-410	5/20/09	<0.50
MAFB-414	5/26/09	**6.7**
MAFB-415	5/22/09	<0.50
MAFB-416	4/30/08	<0.50
MAFB-417	5/21/09	**12**
MAFB-418	5/22/09	**39**
MAFB-419	5/21/09	<0.50
MAFB-420	5/28/09	**270**
MAFB-421	11/4/08	1.8
MAFB-422	5/1/09	1.4
MAFB-423	4/29/09	1.4M
MAFB-425	5/4/09	**5.1**
MAFB-428	5/21/09	<0.50
MAFB-429Bu	4/30/09	<0.50
MAFB-434Bu	5/1/09	<0.50
MAFB-436	12/1/09	<0.50
MAFB-439	10/29/09	0.24F
MAFB-450	10/26/09	<0.50
MAFB-452Bu	10/28/09	**18**
MBS 39ABuB	4/17/09	0.39F
MBS EW-12AB	4/17/09	0.39F
MBS EW1ABu	4/17/09	**68**
MBS EW-1Bu	4/16/09	2
MBS EW2ABu	4/15/09	**43**
MBS EW-2AR	4/15/09	**10**
MBS EW-3Bu	4/15/09	0.26F
MBS EW-4A	4/17/09	<0.50
MBS EW4ABu	4/15/09	**20**
MBS EW-4Bu	4/16/09	**18**
MBS EW-5A	4/18/08	0.19F
MBS EW5ABu	4/15/09	**68**
MBS EW6ABu	4/17/09	0.95
MBS EW7ABu	4/17/09	0.26F
MBS PZ-55Bu	5/13/09	**8.5**

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Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Abandoned Well
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

4Q09 Water Table Elevation Contours (ft. msl)

Mather Property Line

TCE Plume:

- ≥ 50 *ug*/L
- ≥ 5 *ug*/L - 50 *ug*/L

(DASHED WHERE UNCERTAIN)

N

0 600 1,200 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA UNIT A/WATER TABLE TCE ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009

FIGURE NO.:

6-2

LOCID	DATE	PCE
MAFB-033	5/21/09	0.68
MAFB-047	5/8/09	<0.50
MAFB-048	5/20/09	**5.3**
MAFB-090	5/26/09	<0.50UJ
MAFB-094	5/6/09	<0.50
MAFB-096	5/6/09	<0.50
MAFB-097	4/28/08	<0.50
MAFB-106	5/1/08	<0.50
MAFB-121	4/15/08	0.38F
MAFB-122	5/21/09	0.91
MAFB-123	5/29/09	<0.50
MAFB-124	4/11/08	<0.50
MAFB-155	5/6/09	<0.50
MAFB-159	5/29/09	<0.50
MAFB-162	4/30/08	<0.50
MAFB-168	5/13/09	1.6
MAFB-172	4/30/09	<0.50UJ
MAFB-174	4/30/09	<0.50
MAFB-176	4/30/09	<0.50
MAFB-199	5/11/09	<0.50
MAFB-200	5/4/09	0.99J
MAFB-201	5/13/09	0.28F
MAFB-202	5/29/09	0.37F
MAFB-203	5/21/09	**12**
MAFB-204	5/21/09	<0.50
MAFB-205	5/14/09	<0.50
MAFB-206	5/26/09	<0.50UJ
MAFB-207	5/29/09	0.49F
MAFB-209	5/28/09	<0.50
MAFB-210	5/28/09	<0.50
MAFB-211	5/20/09	0.43F
MAFB-212	5/29/09	<0.50
MAFB-214	5/18/09	1.7
MAFB-221	5/22/09	<0.50
MAFB-232	4/30/09	<0.50
MAFB-246	4/30/09	<0.50UJ
MAFB-247	4/29/09	<0.50
MAFB-248	4/30/09	<0.50UJ
MAFB-251	6/15/09	<0.50
MAFB-258	4/29/09	0.32F
MAFB-259	4/24/09	<0.50
MAFB-260	4/24/09	<0.50
MAFB-264	5/14/09	0.72
MAFB-339	5/28/09	1.9
MAFB-340	5/7/09	1.7J
MAFB-341	5/8/09	0.57
MAFB-342	5/7/09	0.73J
MAFB-344	6/15/09	0.21F
MAFB-359	5/13/09	0.47F
MAFB-384B	5/8/09	0.8
MAFB-404	5/22/09	<0.50
MAFB-405	5/22/09	4.1
MAFB-407	5/8/09	0.41F
MAFB-410	5/20/09	0.44F
MAFB-414	5/26/09	2.6J
MAFB-415	5/22/09	0.23F
MAFB-416	4/30/08	<0.50
MAFB-417	5/21/09	2.4
MAFB-418	5/22/09	**5.3**
MAFB-419	5/21/09	<0.50
MAFB-420	5/28/09	**83**
MAFB-421	11/4/08	3.2J
MAFB-422	5/1/09	<0.50
MAFB-423	4/29/09	<0.50
MAFB-425	5/4/09	1.3J
MAFB-428	5/21/09	2.4
MAFB-429Bu	4/30/09	<0.50
MAFB-434Bu	5/1/09	<0.50
MAFB-436	12/1/09	4.3
MAFB-439	10/29/09	**77M**
MAFB-450	10/26/09	<0.50M
MAFB-452Bu	10/28/09	**5.4M**
MBS 39ABuB	4/17/09	**5.9**
MBS EW-12AB	4/17/09	1.2
MBS EW1ABu	4/17/09	**19**
MBS EW-1Bu	4/16/09	0.59
MBS EW2ABu	4/15/09	**13**
MBS EW-2AR	4/15/09	**8.0**
MBS EW-3Bu	4/15/09	0.28F
MBS EW-4A	4/17/09	0.44F
MBS EW4ABu	4/15/09	**7.6**
MBS EW-4Bu	4/16/09	**6.0**
MBS EW-5A	4/18/08	3.3
MBS EW5ABu	4/15/09	**18**
MBS EW6ABu	4/17/09	1.0
MBS EW7ABu	4/17/09	2.5
MBS PZ-55Bu	5/13/09	3.5

Units = ug/L

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Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Abandoned Well
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Water Table Elevation Contours (ft. msl) (4Q09)

PCE Plume:

- ≥ 5 *ug*/L - 50 *ug*/L
- ≥ 50 *ug*/L

(DASHED WHERE UNCERTAIN)

N

0 500 1,000 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA UNIT A/WATER TABLE PCE ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009

FIGURE NO.: **6-3**

LOCID	DATE	CCl_4
MAFB-033	5/21/09	<0.50
MAFB-047	5/8/09	<0.50
MAFB-048	5/20/09	<0.50
MAFB-090	5/26/09	<0.50
MAFB-094	5/6/09	<0.50
MAFB-096	5/6/09	<0.50
MAFB-097	4/28/08	0.39F
MAFB-106	5/1/08	<0.50
MAFB-121	4/15/08	<0.50
MAFB-122	5/21/09	<0.50
MAFB-123	5/29/09	<0.50
MAFB-124	4/11/08	<0.50
MAFB-155	5/6/09	<0.50
MAFB-159	5/29/09	<0.50
MAFB-162	4/30/08	<0.50
MAFB-168	5/13/09	<0.50
MAFB-172	4/30/09	<0.50
MAFB-174	4/30/09	<0.50
MAFB-176	4/30/09	<0.50UJ
MAFB-199	5/11/09	<0.50
MAFB-200	5/4/09	<0.50
MAFB-201	5/13/09	<0.50
MAFB-202	5/29/09	<0.50
MAFB-203	5/21/09	**1.9**
MAFB-204	5/21/09	<0.50
MAFB-205	5/14/09	<0.50
MAFB-206	5/26/09	<0.50
MAFB-207	5/29/09	**4.0**
MAFB-209	5/28/09	0.35F
MAFB-210	5/28/09	0.82
MAFB-211	5/20/09	<0.50
MAFB-212	5/29/09	<0.50
MAFB-214	5/18/09	<0.50
MAFB-221	5/22/09	<0.50
MAFB-232	4/30/09	<0.50UJ
MAFB-246	4/30/09	**6.3J**
MAFB-247	4/29/09	<0.50
MAFB-248	4/30/09	**2.8J**
MAFB-251	6/15/09	<0.50
MAFB-258	4/29/09	<0.50
MAFB-259	4/24/09	<0.50
MAFB-260	4/24/09	<0.50
MAFB-264	5/14/09	**2.7**
MAFB-339	5/28/09	<0.50
MAFB-340	5/7/09	<0.50
MAFB-341	5/8/09	<0.50
MAFB-342	5/7/09	<0.50
MAFB-344	6/15/09	<0.50
MAFB-359	5/13/09	<0.50
MAFB-384B	5/8/09	<0.50
MAFB-404	5/22/09	<0.50
MAFB-405	5/22/09	0.22F
MAFB-407	5/8/09	<0.50
MAFB-410	5/20/09	**2.6**
MAFB-414	5/26/09	**1.5**
MAFB-415	5/22/09	<0.50
MAFB-416	4/30/08	<0.50
MAFB-417	5/21/09	**1.9**
MAFB-418	5/22/09	**3.1**
MAFB-419	5/21/09	<0.50
MAFB-420	5/28/09	0.38F
MAFB-421	11/4/08	<0.50
MAFB-422	5/1/09	<0.50
MAFB-423	4/29/09	<0.50
MAFB-425	5/4/09	<0.50
MAFB-428	5/21/09	0.44F
MAFB-429Bu	4/30/09	<0.50
MAFB-434Bu	5/1/09	<0.50
MAFB-436	12/1/09	<0.50
MAFB-439	10/29/09	**14**
MAFB-450	10/26/09	<0.50
MAFB-452Bu	10/28/09	<0.50
MBS 39ABuB	4/17/09	<0.50
MBS EW-12AB	4/17/09	<0.50
MBS EW1ABu	4/17/09	<0.50
MBS EW-1Bu	4/16/09	<0.50
MBS EW2ABu	4/15/09	<0.50
MBS EW-2AR	4/15/09	**7.2**
MBS EW-3Bu	4/15/09	<0.50
MBS EW-4A	4/17/09	<0.50
MBS EW4ABu	4/15/09	**5.6**
MBS EW-4Bu	4/16/09	<0.50
MBS EW-5A	4/18/08	<0.50UJ
MBS EW5ABu	4/15/09	**7.3**
MBS EW6ABu	4/17/09	<0.50
MBS EW7ABu	4/17/09	<0.50
MBS PZ-55Bu	5/13/09	<0.50

Units = ug/L

Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Abandoned Well
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Water Table Elevation Contours (ft. msl) (4Q09)

CCl_4 Plume:

- ≥ 0.5 *ug*/L - 5.0 *ug*/L
- ≥ 5.0 *ug*/L

DASHED WHERE UNCERTAIN

N

MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	FIGURE NO.:
MAIN BASE/SAC AREA UNIT A/WATER TABLE CCl_4 ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009	**6-4**

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

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LOCID	DATE	1,1-DCE
MAFB-033	5/21/09	<0.50
MAFB-047	5/8/09	<0.50
MAFB-048	5/20/09	<0.50
MAFB-090	5/26/09	<0.50
MAFB-094	5/6/09	<0.50
MAFB-096	5/6/09	<0.50
MAFB-097	4/28/08	<0.50
MAFB-106	5/1/08	<0.50
MAFB-121	4/15/08	<0.50
MAFB-122	5/21/09	<0.50
MAFB-123	5/29/09	<0.50
MAFB-124	4/11/08	<0.50
MAFB-155	5/6/09	<0.50
MAFB-159	5/29/09	<0.50
MAFB-162	4/30/08	<0.50
MAFB-168	5/13/09	<0.50
MAFB-172	4/30/09	<0.50
MAFB-174	4/30/09	<0.50
MAFB-176	4/30/09	<0.50
MAFB-199	5/11/09	<0.50
MAFB-200	5/4/09	<0.50
MAFB-201	5/13/09	<0.50
MAFB-202	5/29/09	<0.50
MAFB-203	5/21/09	3.1
MAFB-204	5/21/09	<0.50
MAFB-205	5/14/09	<0.50
MAFB-206	5/26/09	0.70
MAFB-207	5/29/09	<0.50
MAFB-209	5/28/09	<0.50
MAFB-210	5/28/09	<0.50
MAFB-211	5/20/09	<0.50
MAFB-212	5/29/09	<0.50
MAFB-214	5/18/09	<0.50
MAFB-221	5/22/09	<0.50
MAFB-232	4/30/09	<0.50
MAFB-246	4/30/09	<0.50
MAFB-247	4/29/09	<0.50
MAFB-248	4/30/09	0.50J
MAFB-251	6/15/09	<0.50
MAFB-258	4/29/09	<0.50
MAFB-259	4/24/09	<0.50
MAFB-260	4/24/09	<0.50
MAFB-264	5/14/09	0.57
MAFB-339	5/28/09	<0.50
MAFB-340	5/7/09	<0.50
MAFB-341	5/8/09	<0.50
MAFB-342	5/7/09	<0.50
MAFB-344	6/15/09	<0.50
MAFB-359	5/13/09	<0.50
MAFB-384B	5/8/09	<0.50
MAFB-404	5/22/09	<0.50
MAFB-405	5/22/09	<0.50
MAFB-407	5/8/09	<0.50
MAFB-410	5/20/09	<0.50
MAFB-414	5/26/09	<0.50
MAFB-415	5/22/09	<0.50
MAFB-416	4/30/08	<0.50
MAFB-417	5/21/09	<0.50
MAFB-418	5/22/09	**6.8**
MAFB-419	5/21/09	<0.50
MAFB-420	5/28/09	**8.8**
MAFB-421	11/4/08	<0.50
MAFB-422	5/1/09	<0.50
MAFB-423	4/29/09	<0.50
MAFB-425	5/4/09	<0.50
MAFB-428	5/21/09	<0.50
MAFB-429Bu	4/30/09	<0.50
MAFB-434Bu	5/1/09	<0.50
MAFB-436	12/1/09	<0.50
MAFB-439	10/29/09	<0.50
MAFB-450	10/26/09	<0.50
MAFB-452Bu	10/28/09	<0.50
MBS 39ABuB	4/17/09	<0.50
MBS EW-12AB	4/17/09	<0.50
MBS EW1ABu	4/17/09	1.6
MBS EW-1Bu	4/16/09	<0.50
MBS EW2ABu	4/15/09	1.1
MBS EW-2AR	4/15/09	0.7
MBS EW-3Bu	4/15/09	<0.50
MBS EW-4A	4/17/09	<0.50
MBS EW4ABu	4/15/09	1.2
MBS EW-4Bu	4/16/09	0.37F
MBS EW-5A	4/18/08	<0.50
MBS EW5ABu	4/15/09	**6.2**
MBS EW6ABu	4/17/09	<0.50
MBS EW7ABu	4/17/09	<0.50
MBS PZ-55Bu	5/13/09	<0.50

UNits = ug/L

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Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Abandoned Well
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Water Table Elevation Contours (ft. msl) (4Q09)

1,1-DCE Plume:

≥ 6.0 *ug*/L

Mather Property Line

N

0 500 1,000 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE: **MAIN BASE/SAC AREA UNIT A/WATER TABLE 1,1-DCE ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009**

FIGURE NO.: **6-5**

LOCID	DATE	TCE
MAFB-059	5/1/09	<0.50
MAFB-101	5/20/09	<0.50
MAFB-164	5/14/09	<0.50
MAFB-167	5/8/09	**13**
MAFB-170	5/11/09	0.37F
MAFB-171	5/11/09	**6.2**
MAFB-173	4/30/09	3.2J
MAFB-175	4/29/09	1.0M
MAFB-177	5/11/09	1.3
MAFB-215	5/4/09	**16M**
MAFB-216	5/14/09	**5.2**
MAFB-217	5/20/09	**16**
MAFB-218	5/21/09	**12**
MAFB-220	5/14/09	**12**
MAFB-222	5/19/09	4.6
MAFB-223	5/18/09	**16**
MAFB-224	5/20/09	**20**
MAFB-227	5/14/09	**12**
MAFB-228	5/28/09	0.17F
MAFB-229	5/8/09	1.8
MAFB-230	5/11/09	<0.50
MAFB-231	5/8/09	1.3
MAFB-249	4/29/09	**10M**
MAFB-261	4/21/09	<0.50
MAFB-263	4/21/09	<0.50
MAFB-265	4/30/09	**17J**
MAFB-266	5/13/09	**6.9**
MAFB-267	4/24/09	<0.50
MAFB-268	4/24/09	2.8
MAFB-269	4/21/09	<0.50
MAFB-270	4/14/09	<0.50
MAFB-271	10/14/09	<0.20
MAFB-273	5/6/09	<0.50
MAFB-274	5/8/09	<0.50
MAFB-282	5/7/09	**8.8J**
MAFB-308	5/21/09	<0.50
MAFB-311	4/14/09	<0.50
MAFB-312	4/14/09	<0.50
MAFB-313	4/30/09	0.21FJ
MAFB-322	10/14/09	<0.20
MAFB-323	4/14/09	<0.20
MAFB-324	10/14/09	<0.20
MAFB-330	10/12/09	0.66
MAFB-331	4/13/09	<0.50
MAFB-346Bd	4/21/09	0.23F
MAFB-346Bs	4/21/09	<0.50
MAFB-348B	5/1/09	<0.50
MAFB-354B	10/19/09	<0.50
MAFB-356B	4/13/09	<0.50
MAFB-358B	5/7/09	<0.50
MAFB-361	5/11/09	1.3
MAFB-362	5/18/09	4.0
MAFB-363	5/14/09	0.51
MAFB-364B	4/29/09	2.3M
MAFB-365B	4/29/09	0.94M
MAFB-366B	5/4/09	<0.50
MAFB-368B	4/21/09	<0.50
MAFB-378B	10/26/09	<0.50
MAFB-379B	5/6/09	<0.50
MAFB-380B	4/20/09	<0.50
MAFB-381B	4/21/09	0.17F
MAFB-382B	10/29/09	0.21FJ
MAFB-383B	4/30/09	0.20FJ
MAFB-386B	4/14/08	<0.50
MAFB-387B	4/13/09	<0.50
MAFB-388B	4/13/09	<0.50
MAFB-423B	4/29/09	**5.3M**
MAFB-426	10/12/09	<0.50
MAFB-427	4/13/09	<0.50
MAFB-429Bd	4/30/09	**23J**
MAFB-429Bs	4/30/09	**13J**
MAFB-431Bd	5/1/09	**16**
MAFB-434Bd	10/26/09	**18**
MAFB-434Bs	5/1/09	<0.50
MAFB-449Bd	10/12/09	<0.50
MAFB-449Bs	10/13/09	0.36F
MAFB-451	10/28/09	**16**
MAFB-452B	10/28/09	**48**
MAFB-457Bd	10/23/09	<0.50
MAFB-457Bs	10/12/09	**10**
MAFB-458Bd	10/12/09	**5.5**
MAFB-458Bs	10/23/09	4.4
MAFB-460Bd	11/30/09	0.29F
MAFB-460Bs	11/30/09	3.7
MAFB-461Bd	12/1/09	<0.50
MAFB-461Bs	12/1/09	<0.50
MBS EW-10B	4/15/09	0.79
MBS EW-11B	4/15/09	<0.50
MBS EW-12B	4/15/09	<0.50
MBS EW-13BuB	10/15/09	**17**
MBS EW-1B	4/16/09	0.79
MBS EW-2B	4/15/09	**6.5**
MBS EW-3B	4/17/09	**5.5**
MBS EW-4B	4/17/09	0.53
MBS EW-5B	4/15/09	<0.50
MBS EW-6B	4/15/09	0.34F
MBS EW-7B	4/16/09	0.33F
MBS EW-8B	4/15/09	<0.50
MBS EW-9B	4/16/09	**6.0**
MBS PZ-11	5/6/09	<0.50
MBS PZ-37	4/29/09	<0.50
MBS PZ-38	5/1/09	0.33F
MBS PZ-39	5/28/09	<0.50
MBS PZ-42D	5/6/09	<0.50
MBS PZ-42S	5/6/09	<0.50
MBS PZ-44	5/19/09	1.3
MBS PZ-55B	5/13/09	**13**

Units = ug/L

Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Abandoned Well
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Unit B Potentiometric Surface Contours (ft. msl) (4Q09)

TCE Plume:

≥ 5 *ug*/L - 50 *ug*/L

DASHED WHERE UNCERTAIN

Mather Property Line

N

0 750 1,500 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA UNIT B TCE ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009

FIGURE NO.:

6-6

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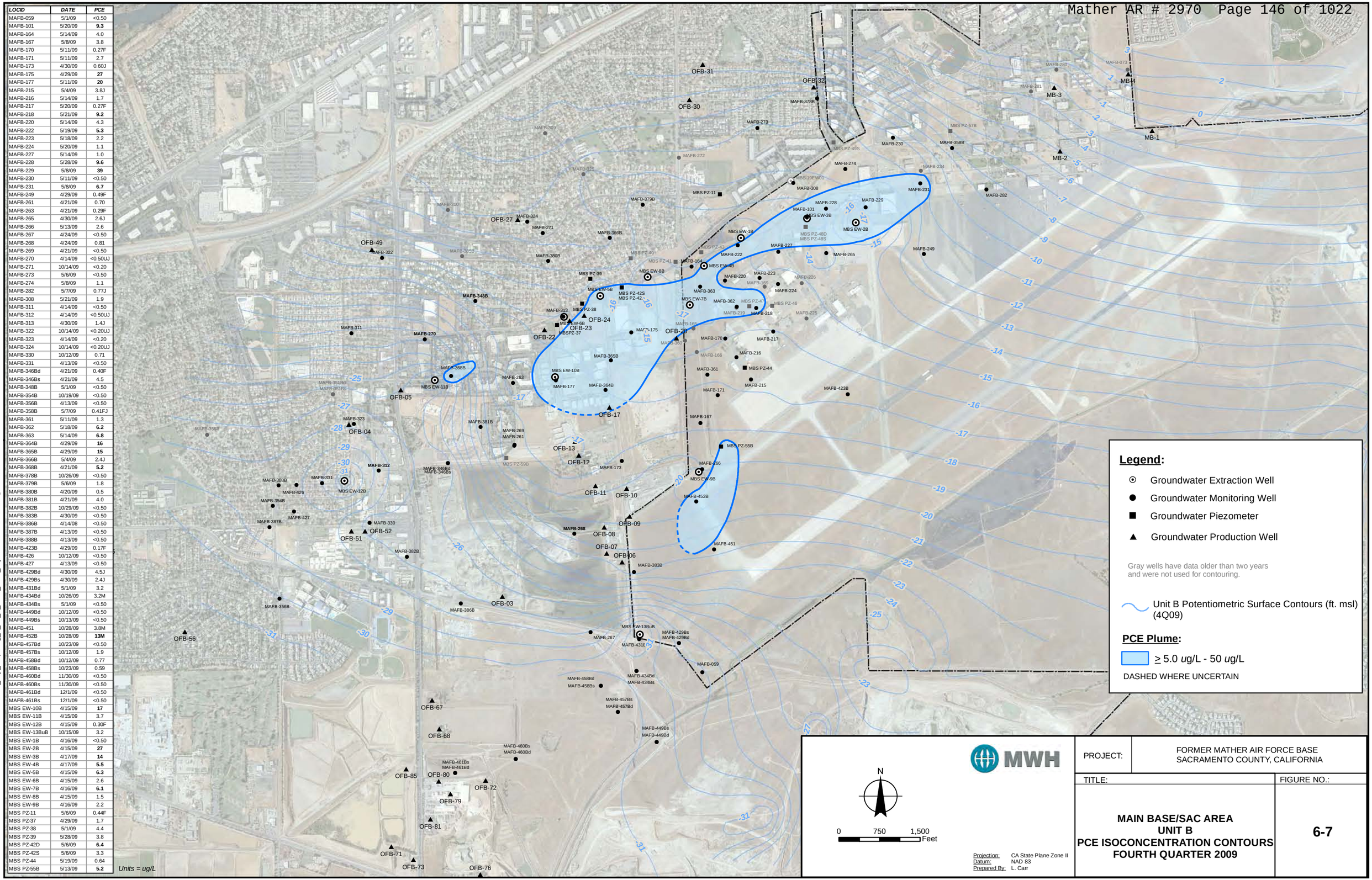
LOCID	DATE	PCE
MAFB-059	5/1/09	<0.50
MAFB-101	5/20/09	**9.3**
MAFB-164	5/14/09	4.0
MAFB-167	5/8/09	3.8
MAFB-170	5/11/09	0.27F
MAFB-171	5/11/09	2.7
MAFB-173	4/30/09	0.60J
MAFB-175	4/29/09	**27**
MAFB-177	5/11/09	**20**
MAFB-215	5/4/09	3.8J
MAFB-216	5/14/09	1.7
MAFB-217	5/20/09	0.27F
MAFB-218	5/21/09	**9.2**
MAFB-220	5/14/09	4.3
MAFB-222	5/19/09	**5.3**
MAFB-223	5/18/09	2.2
MAFB-224	5/20/09	1.1
MAFB-227	5/14/09	1.0
MAFB-228	5/28/09	**9.6**
MAFB-229	5/8/09	**39**
MAFB-230	5/11/09	<0.50
MAFB-231	5/8/09	**6.7**
MAFB-249	4/29/09	0.49F
MAFB-261	4/21/09	0.70
MAFB-263	4/20/09	0.29F
MAFB-265	4/30/09	2.6J
MAFB-266	5/13/09	2.6
MAFB-267	4/24/09	<0.50
MAFB-268	4/24/09	0.81
MAFB-269	4/21/09	<0.50
MAFB-270	4/14/09	<0.50UJ
MAFB-271	10/14/09	<0.20
MAFB-273	5/6/09	<0.50
MAFB-274	5/8/09	1.1
MAFB-282	5/7/09	0.77J
MAFB-308	5/21/09	1.9
MAFB-311	4/14/09	<0.50
MAFB-312	4/14/09	<0.50UJ
MAFB-313	4/30/09	1.4J
MAFB-322	10/14/09	<0.20UJ
MAFB-323	4/14/09	<0.20
MAFB-324	10/14/09	<0.20UJ
MAFB-330	10/12/09	0.71
MAFB-331	4/13/09	<0.50
MAFB-346Bd	4/21/09	0.40F
MAFB-346Bs	4/21/09	4.5
MAFB-348B	5/1/09	<0.50
MAFB-354B	10/19/09	<0.50
MAFB-356B	4/13/09	<0.50
MAFB-358B	5/7/09	0.41FJ
MAFB-361	5/11/09	1.3
MAFB-362	5/18/09	**6.2**
MAFB-363	5/14/09	**6.8**
MAFB-364B	4/29/09	**16**
MAFB-365B	4/29/09	**15**
MAFB-366B	5/4/09	2.4J
MAFB-368B	4/21/09	**5.2**
MAFB-378B	10/26/09	<0.50
MAFB-379B	5/6/09	1.8
MAFB-380B	4/20/09	0.5
MAFB-381B	4/21/09	4.0
MAFB-382B	10/29/09	<0.50
MAFB-383B	4/30/09	<0.50
MAFB-386B	4/14/08	<0.50
MAFB-387B	4/13/09	<0.50
MAFB-388B	4/13/09	<0.50
MAFB-423B	4/29/09	0.17F
MAFB-426	10/12/09	<0.50
MAFB-427	4/13/09	<0.50
MAFB-429Bd	4/30/09	4.5J
MAFB-429Bs	4/30/09	2.4J
MAFB-431Bd	5/1/09	3.2
MAFB-434Bd	10/26/09	3.2M
MAFB-434Bs	5/1/09	<0.50
MAFB-449Bd	10/12/09	<0.50
MAFB-449Bs	10/13/09	<0.50
MAFB-451	10/28/09	3.8M
MAFB-452B	10/28/09	**13M**
MAFB-457Bd	10/23/09	<0.50
MAFB-457Bs	10/12/09	1.9
MAFB-458Bd	10/12/09	0.77
MAFB-458Bs	10/23/09	0.59
MAFB-460Bd	11/30/09	<0.50
MAFB-460Bs	11/30/09	<0.50
MAFB-461Bd	12/1/09	<0.50
MAFB-461Bs	12/1/09	<0.50
MBS EW-10B	4/15/09	**17**
MBS EW-11B	4/15/09	3.7
MBS EW-12B	4/15/09	0.30F
MBS EW-13BuB	10/15/09	3.2
MBS EW-1B	4/16/09	<0.50
MBS EW-2B	4/15/09	**27**
MBS EW-3B	4/17/09	**14**
MBS EW-4B	4/17/09	**5.5**
MBS EW-5B	4/15/09	**6.3**
MBS EW-6B	4/15/09	2.6
MBS EW-7B	4/16/09	**6.1**
MBS EW-8B	4/15/09	1.5
MBS EW-9B	4/16/09	2.2
MBS PZ-11	5/6/09	0.44F
MBS PZ-37	4/29/09	1.7
MBS PZ-38	5/1/09	4.4
MBS PZ-39	5/28/09	3.8
MBS PZ-42D	5/6/09	**6.4**
MBS PZ-42S	5/6/09	3.3
MBS PZ-44	5/19/09	0.64
MBS PZ-55B	5/13/09	**5.2**

Units = ug/L



Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Unit B Potentiometric Surface Contours (ft. msl) (4Q09)

PCE Plume:

≥ 5.0 *ug*/L - 50 *ug*/L

DASHED WHERE UNCERTAIN

N

0 750 1,500 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA
UNIT B
PCE ISOCONCENTRATION CONTOURS
FOURTH QUARTER 2009

FIGURE NO.:

6-7

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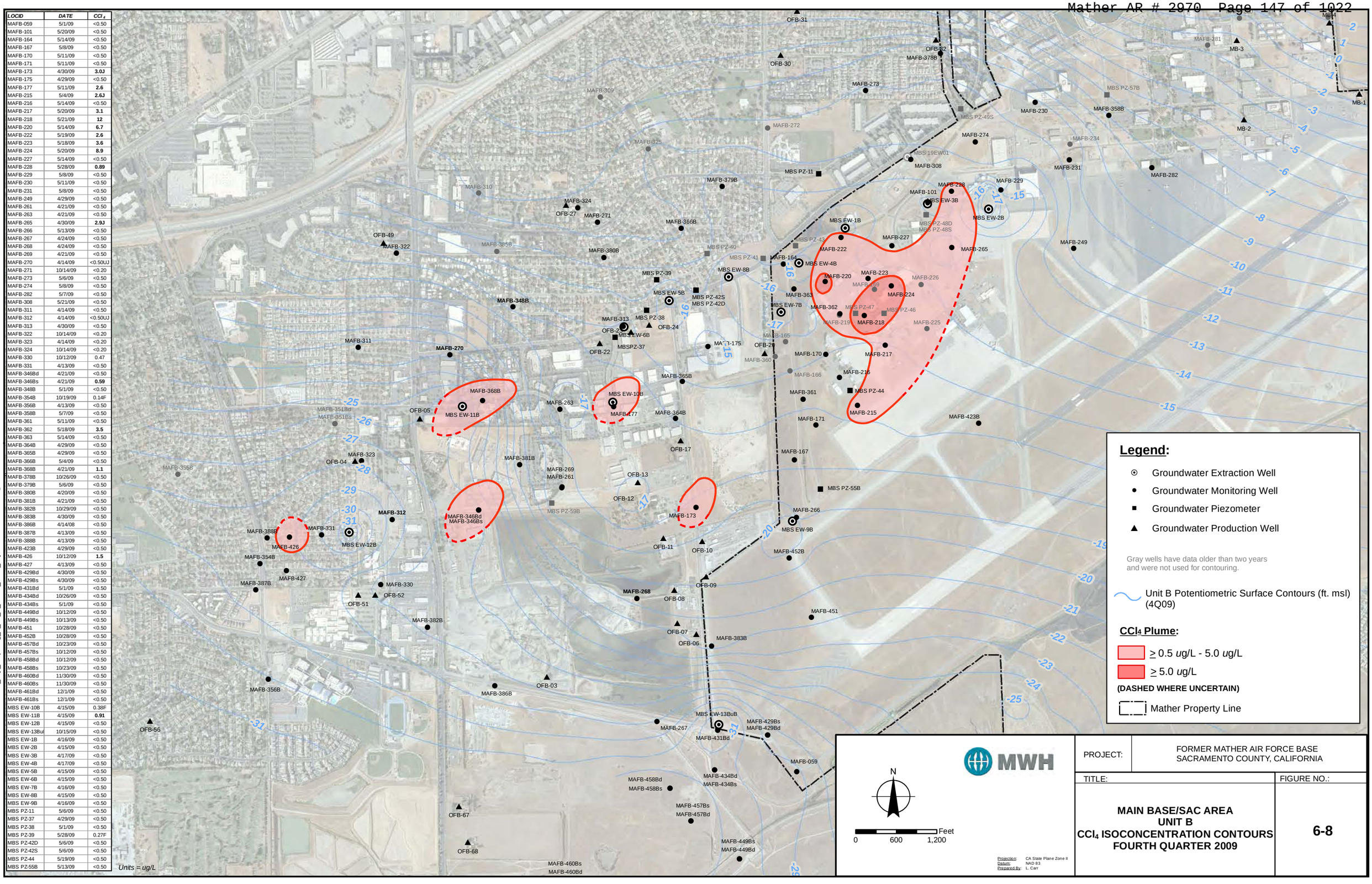
LOCID	DATE	CCl_4
MAFB-059	5/1/09	<0.50
MAFB-101	5/20/09	<0.50
MAFB-164	5/14/09	<0.50
MAFB-167	5/8/09	<0.50
MAFB-170	5/11/09	<0.50
MAFB-171	5/11/09	<0.50
MAFB-173	4/30/09	**3.0J**
MAFB-175	4/29/09	<0.50
MAFB-177	5/11/09	**2.6**
MAFB-215	5/4/09	**2.6J**
MAFB-216	5/14/09	<0.50
MAFB-217	5/20/09	**3.1**
MAFB-218	5/21/09	**12**
MAFB-220	5/14/09	**6.7**
MAFB-222	5/19/09	**2.6**
MAFB-223	5/18/09	**3.6**
MAFB-224	5/20/09	**8.9**
MAFB-227	5/14/09	<0.50
MAFB-228	5/28/09	**0.89**
MAFB-229	5/8/09	<0.50
MAFB-230	5/11/09	<0.50
MAFB-231	5/8/09	<0.50
MAFB-249	4/29/09	<0.50
MAFB-261	4/21/09	<0.50
MAFB-263	4/21/09	<0.50
MAFB-265	4/30/09	**2.9J**
MAFB-266	5/13/09	<0.50
MAFB-267	4/24/09	<0.50
MAFB-268	4/24/09	<0.50
MAFB-269	4/21/09	<0.50
MAFB-270	4/14/09	<0.50UJ
MAFB-271	10/14/09	<0.20
MAFB-273	5/6/09	<0.50
MAFB-274	5/8/09	<0.50
MAFB-282	5/7/09	<0.50
MAFB-308	5/21/09	<0.50
MAFB-311	4/14/09	<0.50
MAFB-312	4/14/09	<0.50UJ
MAFB-313	4/30/09	<0.50
MAFB-322	10/14/09	<0.20
MAFB-323	4/14/09	<0.20
MAFB-324	10/14/09	<0.20
MAFB-330	10/12/09	0.47
MAFB-331	4/13/09	<0.50
MAFB-346Bd	4/21/09	<0.50
MAFB-346Bs	4/21/09	**0.59**
MAFB-348B	5/1/09	<0.50
MAFB-354B	10/19/09	0.14F
MAFB-356B	4/13/09	<0.50
MAFB-358B	5/7/09	<0.50
MAFB-361	5/11/09	<0.50
MAFB-362	5/18/09	**3.5**
MAFB-363	5/14/09	<0.50
MAFB-364B	4/29/09	<0.50
MAFB-365B	4/29/09	<0.50
MAFB-366B	5/4/09	<0.50
MAFB-368B	4/21/09	**1.1**
MAFB-378B	10/26/09	<0.50
MAFB-379B	5/6/09	<0.50
MAFB-380B	4/20/09	<0.50
MAFB-381B	4/21/09	<0.50
MAFB-382B	10/29/09	<0.50
MAFB-383B	4/30/09	<0.50
MAFB-386B	4/14/08	<0.50
MAFB-387B	4/13/09	<0.50
MAFB-388B	4/13/09	<0.50
MAFB-423B	4/29/09	<0.50
MAFB-426	10/12/09	**1.5**
MAFB-427	4/13/09	<0.50
MAFB-429Bd	4/30/09	<0.50
MAFB-429Bs	4/30/09	<0.50
MAFB-431Bd	5/1/09	<0.50
MAFB-434Bd	10/26/09	<0.50
MAFB-434Bs	5/1/09	<0.50
MAFB-449Bd	10/12/09	<0.50
MAFB-449Bs	10/13/09	<0.50
MAFB-451	10/28/09	<0.50
MAFB-452B	10/28/09	<0.50
MAFB-457Bd	10/23/09	<0.50
MAFB-457Bs	10/12/09	<0.50
MAFB-458Bd	10/12/09	<0.50
MAFB-458Bs	10/23/09	<0.50
MAFB-460Bd	11/30/09	<0.50
MAFB-460Bs	11/30/09	<0.50
MAFB-461Bd	12/1/09	<0.50
MAFB-461Bs	12/1/09	<0.50
MBS EW-10B	4/15/09	0.38F
MBS EW-11B	4/15/09	**0.91**
MBS EW-12B	4/15/09	<0.50
MBS EW-13BuB	10/15/09	<0.50
MBS EW-1B	4/16/09	<0.50
MBS EW-2B	4/15/09	<0.50
MBS EW-3B	4/17/09	<0.50
MBS EW-4B	4/17/09	<0.50
MBS EW-5B	4/15/09	<0.50
MBS EW-6B	4/15/09	<0.50
MBS EW-7B	4/16/09	<0.50
MBS EW-8B	4/15/09	<0.50
MBS EW-9B	4/16/09	<0.50
MBS PZ-11	5/6/09	<0.50
MBS PZ-37	4/29/09	<0.50
MBS PZ-38	5/1/09	<0.50
MBS PZ-39	5/28/09	0.27F
MBS PZ-42D	5/6/09	<0.50
MBS PZ-42S	5/6/09	<0.50
MBS PZ-44	5/19/09	<0.50
MBS PZ-55B	5/13/09	<0.50

Units = ug/L



Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Unit B Potentiometric Surface Contours (ft. msl) (4Q09)

CCl_4 Plume:

- ≥ 0.5 *ug*/L - 5.0 *ug*/L
- ≥ 5.0 *ug*/L

(DASHED WHERE UNCERTAIN)

Mather Property Line

N

0 600 1,200 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA UNIT B CCl_4 ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009

FIGURE NO.: **6-8**

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LOCID	DATE	TCE
FFS MW15-6	5/20/09	**7.5**
MAFB-060	5/8/09	0.28F
MAFB-061	5/20/09	0.24F
MAFB-062	5/11/09	0.33F
MAFB-063	5/14/09	<0.50
MAFB-102	5/20/09	**8.0**
MAFB-104	4/29/09	1.7M
MAFB-180	5/6/09	<0.50
MAFB-181	5/4/09	<0.50
MAFB-235	5/14/09	0.28F
MAFB-239	5/11/09	0.89
MAFB-240	5/13/09	4.6
MAFB-242	5/19/09	**14**
MAFB-243	5/14/09	0.97
MAFB-250	5/22/09	0.64
MAFB-290	5/4/09	<0.50
MAFB-291	5/6/09	<0.50
MAFB-292	5/6/09	<0.50
MAFB-293	10/23/09	<0.50
MAFB-296	10/29/09	0.17F
MAFB-314	5/21/09	0.65
MAFB-318	10/19/09	<0.50
MAFB-319	10/14/09	<0.20
MAFB-320	5/21/09	<0.50
MAFB-321	10/14/09	<0.20
MAFB-326	10/14/09	<0.20
MAFB-327	4/14/09	<0.20
MAFB-328	10/14/09	<0.20
MAFB-329	5/4/09	<0.50
MAFB-332	4/21/09	<0.50
MAFB-336	10/12/09	0.15F
MAFB-337	10/14/09	<0.20
MAFB-338	10/14/09	<0.20
MAFB-346D	4/21/09	<0.50
MAFB-348Dd	5/1/09	<0.50
MAFB-348Ds	5/1/09	0.33F
MAFB-351D	4/21/09	<0.50
MAFB-352D	5/4/09	<0.50
MAFB-354D	10/19/09	<0.50
MAFB-357D	5/7/09	0.95J
MAFB-357Dd	5/7/09	1.2J
MAFB-357Ds	5/7/09	0.42FJ
MAFB-358D	5/7/09	<0.50
MAFB-364D	4/29/09	<0.50
MAFB-365D	4/29/09	0.18FM
MAFB-366D	5/4/09	<0.50
MAFB-367	5/1/09	<0.50
MAFB-368D	4/21/09	<0.50
MAFB-369	4/29/09	0.23FM
MAFB-374	5/28/09	<0.50
MAFB-375	5/6/09	<0.50
MAFB-376	5/6/09	<0.50
MAFB-377	4/30/09	3.0J
MAFB-378D	10/26/09	<0.50
MAFB-379D	5/6/09	<0.50
MAFB-380D	4/20/09	<0.50
MAFB-381D	4/21/09	<0.50
MAFB-382D	4/14/09	<0.50
MAFB-383D	4/22/08	<0.50
MAFB-384D	5/8/09	<0.50
MAFB-385D	4/20/09	<0.50
MAFB-386D	4/30/09	<0.50
MAFB-387Dd	4/13/09	<0.50
MAFB-387Ds	4/13/09	<0.50
MAFB-388Dd	4/13/09	<0.50
MAFB-388Ds	10/12/09	<0.50
MAFB-397	10/26/09	<0.50
MAFB-430	5/18/09	<0.50
MAFB-431Dd	5/1/09	1.2
MAFB-431Ds	5/1/09	0.64
MAFB-435	10/19/09	<0.50
MAFB-437Dd	4/20/09	<0.50
MAFB-437Ds	4/20/09	<0.50
MAFB-441	10/28/09	<0.50
MAFB-442	10/26/09	0.16F
MAFB-443	10/12/09	<0.50
MAFB-459D	10/19/09	<0.50
MAFB-459Dd	10/19/09	<0.50
MBS EW-1D	4/17/09	0.61
MBS EW-2D	4/16/09	2.3
MBS EW-3D	4/16/09	1.9
MBS EW-4D	4/17/09	0.55
MBS EW-5D	4/15/09	<0.50
MBS EW-6D	4/15/09	<0.50
MBS PZ-13	5/19/09	<0.50
MBS PZ-50D	5/8/09	<0.50
MBS PZ-50S	5/8/09	0.25F
MBS PZ-51	5/18/09	2.7
MBS PZ-52	5/20/09	<0.50
MBS PZ-53	5/28/09	<0.50
MBS PZ-54	5/19/09	<0.50
MBS PZ-58	5/4/09	<0.50

UNITS = ug/L

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Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Unit D Potentiometric Surface Contours (FT MSL) (4Q09)

TCE Plume:

≥ 5.0 *u*g/L (DASHED WHERE UNCERTAIN)

Mather Property Line

N

0 600 1,200 2,400 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

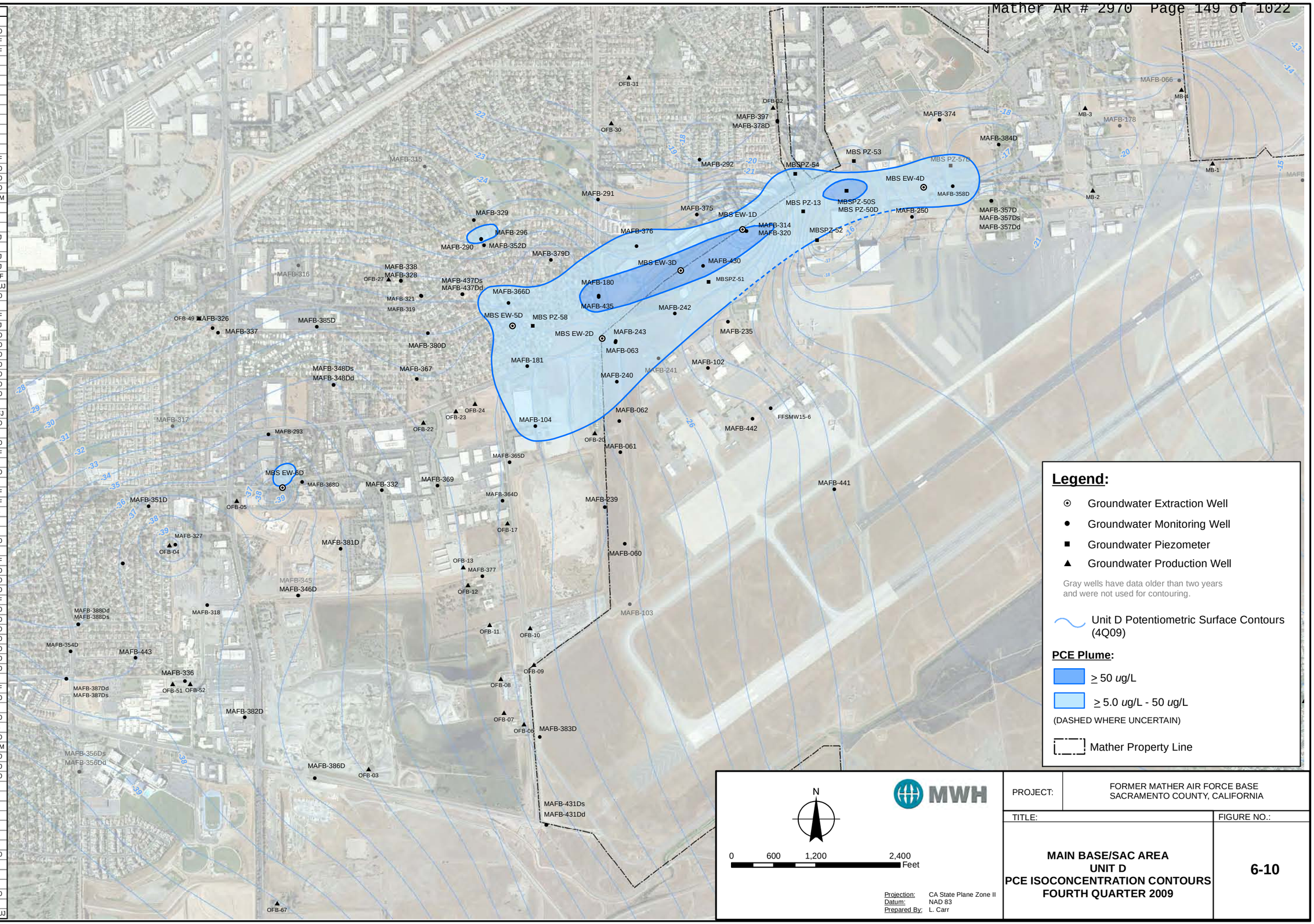
TITLE:

MAIN BASE/SAC AREA
UNIT D
TCE ISOCONCENTRATION CONTOURS
FOURTH QUARTER 2009

FIGURE NO.:

6-9

LOCID	DATE	PCE
FFS MW15-6	5/20/09	4.4
MAFB-060	5/8/09	<0.50
MAFB-061	5/20/09	0.36F
MAFB-062	5/11/09	0.22F
MAFB-063	5/14/09	**6.2**
MAFB-102	5/20/09	0.55
MAFB-104	4/29/09	**7.2**
MAFB-180	5/6/09	**91**
MAFB-181	5/4/09	**37J**
MAFB-235	5/14/09	0.6
MAFB-239	5/11/09	0.65
MAFB-240	5/13/09	**9**
MAFB-242	5/19/09	**43**
MAFB-243	5/14/09	2.6
MAFB-250	5/22/09	0.31F
MAFB-290	5/4/09	<0.50
MAFB-291	5/6/09	<0.50
MAFB-292	5/6/09	<0.50
MAFB-293	10/23/09	0.18FM
MAFB-296	10/29/09	**6.7**
MAFB-314	5/21/09	**93**
MAFB-318	10/19/09	2.0
MAFB-319	10/14/09	0.28J
MAFB-320	5/21/09	**34**
MAFB-321	10/14/09	0.53J
MAFB-326	10/14/09	0.20J
MAFB-327	4/14/09	0.076F
MAFB-328	10/14/09	<0.20UJ
MAFB-329	5/4/09	<0.50
MAFB-332	4/21/09	2.1
MAFB-336	10/12/09	0.15F
MAFB-337	10/14/09	0.26J
MAFB-338	10/14/09	<0.20
MAFB-346D	4/21/09	<0.50
MAFB-348Dd	5/1/09	<0.50
MAFB-348Ds	5/1/09	<0.50
MAFB-351D	4/21/09	<0.50
MAFB-352D	5/4/09	<0.50
MAFB-354D	10/19/09	<0.50
MAFB-357D	5/7/09	1.4J
MAFB-357Dd	5/7/09	0.22FJ
MAFB-357Ds	5/7/09	<0.50
MAFB-358D	5/7/09	**12J**
MAFB-364D	4/29/09	<0.50
MAFB-365D	4/29/09	0.24F
MAFB-366D	5/4/09	**32J**
MAFB-367	5/1/09	<0.50
MAFB-368D	4/21/09	1.3
MAFB-369	4/29/09	0.18F
MAFB-374	5/28/09	0.49F
MAFB-375	5/6/09	0.94
MAFB-376	5/6/09	**19**
MAFB-377	4/30/09	3.8J
MAFB-378D	10/26/09	<0.50
MAFB-379D	5/6/09	3
MAFB-380D	4/20/09	0.25F
MAFB-381D	4/21/09	<0.50
MAFB-382D	4/14/09	<0.50
MAFB-383D	4/22/08	<0.50
MAFB-384D	5/8/09	0.21F
MAFB-385D	4/20/09	<0.50
MAFB-386D	4/30/09	<0.50
MAFB-387Dd	4/13/09	<0.50
MAFB-387Ds	4/13/09	<0.50
MAFB-388Dd	4/13/09	<0.50
MAFB-388Ds	10/12/09	<0.50
MAFB-397	10/26/09	<0.50
MAFB-430	5/18/09	3.5
MAFB-431Dd	5/1/09	0.20F
MAFB-431Ds	5/1/09	<0.50
MAFB-435	10/19/09	**9.1**
MAFB-437Dd	4/20/09	<0.50
MAFB-437Ds	4/20/09	0.94
MAFB-441	10/28/09	<0.50
MAFB-442	10/26/09	<0.50M
MAFB-443	10/12/09	<0.50
MAFB-459D	10/19/09	<0.50
MAFB-459Dd	10/19/09	<0.50
MBS EW-1D	4/17/09	**42**
MBS EW-2D	4/16/09	**30**
MBS EW-3D	4/16/09	**56**
MBS EW-4D	4/17/09	**25**
MBS EW-5D	4/15/09	**5.7**
MBS EW-6D	4/15/09	**5**
MBS PZ-13	5/19/09	0.99
MBS PZ-50D	5/8/09	<0.50
MBS PZ-50S	5/8/09	**110**
MBS PZ-51	5/18/09	**36**
MBS PZ-52	5/20/09	**5.4**
MBS PZ-53	5/28/09	<0.50
MBS PZ-54	5/19/09	**7.7**
MBS PZ-58	5/4/09	<0.50UJ



Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Unit D Potentiometric Surface Contours (4Q09)

PCE Plume:

- ≥ 50 *ug*/L
- ≥ 5.0 *ug*/L - 50 *ug*/L

(DASHED WHERE UNCERTAIN)

Mather Property Line

N

0 600 1,200 2,400 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA UNIT D PCE ISOCONCENTRATION CONTOURS FOURTH QUARTER 2009

FIGURE NO.:

6-10

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LOCID	DATE	CCl_4
FFS MW15-6	5/20/09	**2.5**
MAFB-060	5/8/09	<0.50
MAFB-061	5/20/09	<0.50
MAFB-062	5/11/09	<0.50
MAFB-063	5/14/09	<0.50
MAFB-102	5/20/09	**2.9**
MAFB-104	4/29/09	<0.50
MAFB-180	5/6/09	**5.8**
MAFB-181	5/4/09	**4.0J**
MAFB-235	5/14/09	<0.50
MAFB-239	5/11/09	<0.50
MAFB-240	5/13/09	<0.50
MAFB-242	5/19/09	**1.5**
MAFB-243	5/14/09	<0.50
MAFB-250	5/22/09	<0.50
MAFB-290	5/4/09	<0.50
MAFB-291	5/6/09	<0.50
MAFB-292	5/6/09	<0.50
MAFB-293	10/23/09	0.31F
MAFB-296	10/29/09	**1.1**
MAFB-314	5/21/09	**0.89**
MAFB-318	10/19/09	**2.7**
MAFB-319	10/14/09	<0.20
MAFB-320	5/21/09	**3.7**
MAFB-321	10/14/09	<0.20
MAFB-326	10/14/09	<0.20
MAFB-327	4/14/09	<0.20
MAFB-328	10/14/09	<0.20
MAFB-329	5/4/09	<0.50
MAFB-332	4/21/09	<0.50
MAFB-336	10/12/09	<0.20
MAFB-337	10/14/09	<0.20
MAFB-338	10/14/09	<0.20
MAFB-346D	4/21/09	<0.50
MAFB-348Dd	5/1/09	<0.50
MAFB-348Ds	5/1/09	<0.50
MAFB-351D	4/21/09	<0.50
MAFB-352D	5/4/09	<0.50
MAFB-354D	10/19/09	<0.50
MAFB-357D	5/7/09	<0.50
MAFB-357Dd	5/7/09	<0.50
MAFB-357Ds	5/7/09	<0.50
MAFB-358D	5/7/09	<0.50
MAFB-364D	4/29/09	<0.50
MAFB-365D	4/29/09	<0.50
MAFB-366D	5/4/09	**3.2J**
MAFB-367	5/1/09	<0.50
MAFB-368D	4/21/09	<0.50
MAFB-369	4/29/09	<0.50
MAFB-374	5/28/09	<0.50
MAFB-375	5/6/09	<0.50
MAFB-376	5/6/09	<0.50
MAFB-377	4/30/09	**2.8J**
MAFB-378D	10/26/09	<0.50
MAFB-379D	5/6/09	<0.50
MAFB-380D	4/20/09	<0.50
MAFB-381D	4/21/09	<0.50
MAFB-382D	4/14/09	<0.50
MAFB-383D	4/22/08	<0.50
MAFB-384D	5/8/09	<0.50
MAFB-385D	4/20/09	<0.50
MAFB-386D	4/30/09	<0.50
MAFB-387Dd	4/13/09	<0.50
MAFB-387Ds	4/13/09	<0.50
MAFB-388Dd	4/13/09	<0.50
MAFB-388Ds	10/12/09	<0.50
MAFB-397	10/26/09	<0.50
MAFB-430	5/18/09	**0.77**
MAFB-431Dd	5/1/09	<0.50
MAFB-431Ds	5/1/09	<0.50
MAFB-435	10/19/09	**1.1**
MAFB-437Dd	4/20/09	<0.50
MAFB-437Ds	4/20/09	<0.50
MAFB-441	10/28/09	<0.50
MAFB-442	10/26/09	<0.50
MAFB-443	10/12/09	<0.50
MAFB-459D	10/19/09	<0.50
MAFB-459Dd	10/19/09	<0.50
MBS EW-1D	4/17/09	<0.50
MBS EW-2D	4/16/09	**0.70**
MBS EW-3D	4/16/09	**0.69**
MBS EW-4D	4/17/09	<0.50
MBS EW-5D	4/15/09	<0.50
MBS EW-6D	4/15/09	<0.50
MBS PZ-13	5/19/09	<0.50
MBS PZ-50D	5/8/09	<0.50
MBS PZ-50S	5/8/09	<0.50
MBS PZ-51	5/18/09	**2.0**
MBS PZ-52	5/20/09	<0.50
MBS PZ-53	5/28/09	<0.50
MBS PZ-54	5/19/09	**0.56**
MBS PZ-58	5/4/09	<0.50UJ

UNITS - ug/L

Legend:

- Groundwater Extraction Well
- Groundwater Monitoring Well
- Groundwater Piezometer
- Groundwater Production Well

Gray wells have data older than two years and were not used for contouring.

Unit D Potentiometric Surface Contours (4Q09)

CCl_4 Plume: (DASHED WHERE UNCERTAIN)

- ≥ 5.0 *u*g/L
- ≥ 0.5 *u*g/L - 5.0 *u*g/L

N

0 600 1,200 2,400 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT: FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

TITLE:

MAIN BASE/SAC AREA
UNIT D
CCl_4 ISOCONCENTRATION CONTOURS
FOURTH QUARTER 2009

FIGURE NO.: **6-11**

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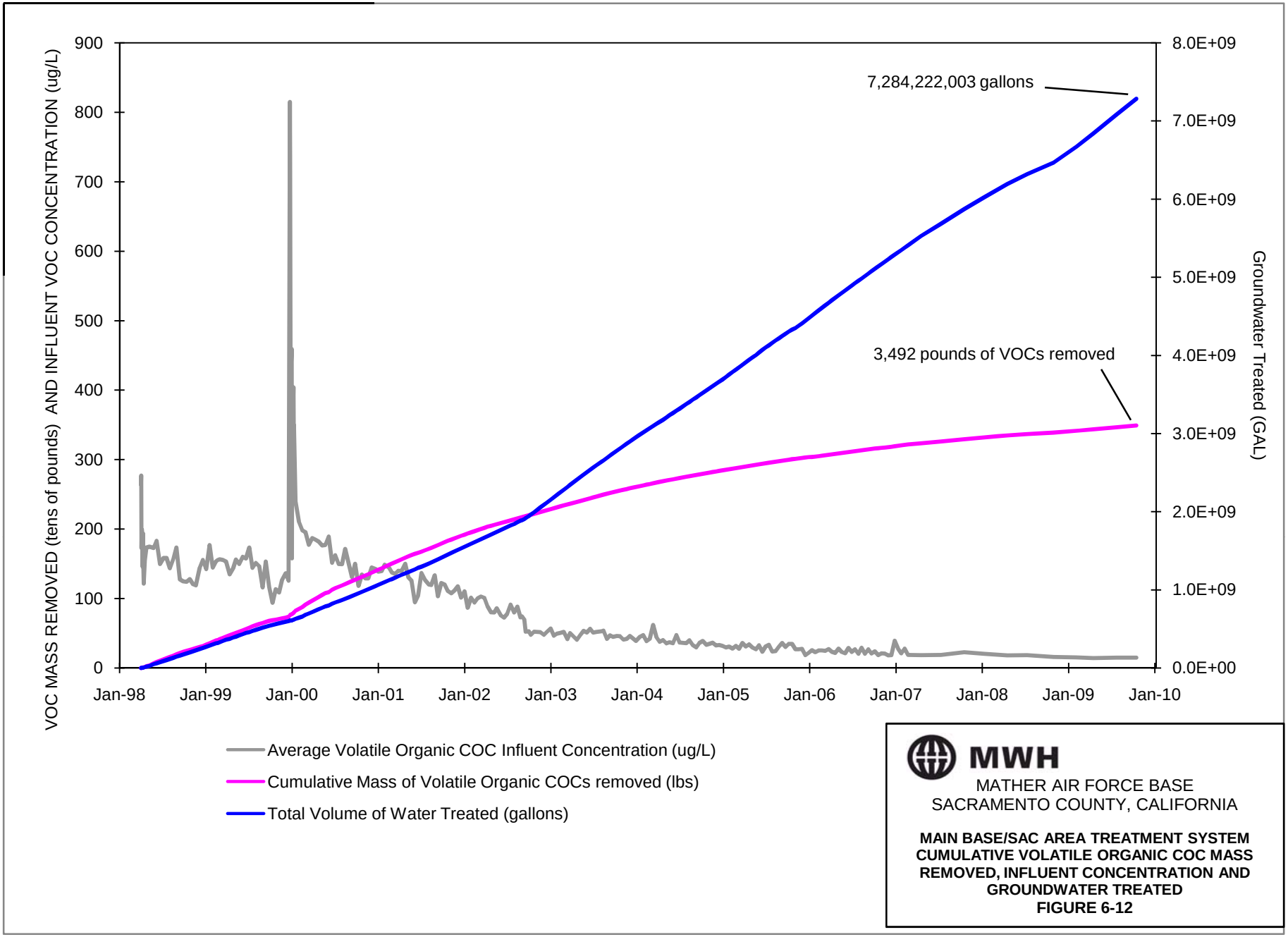
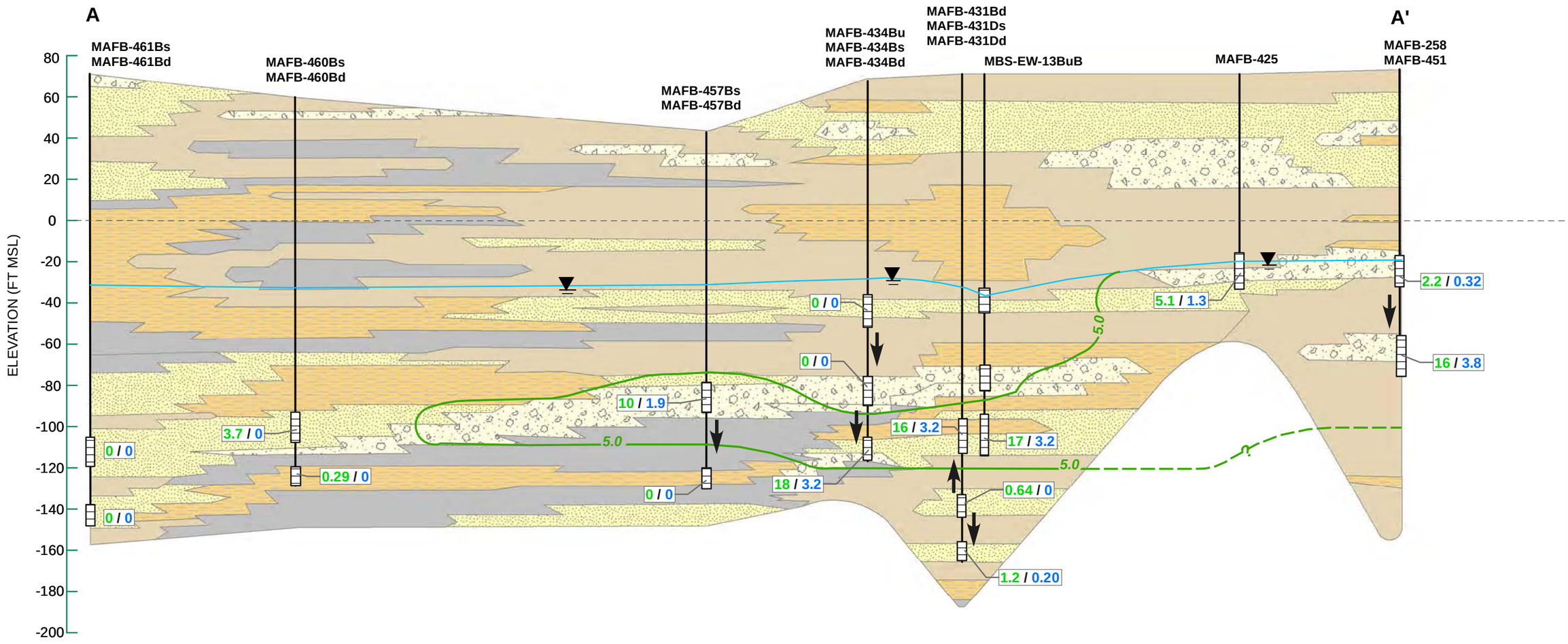
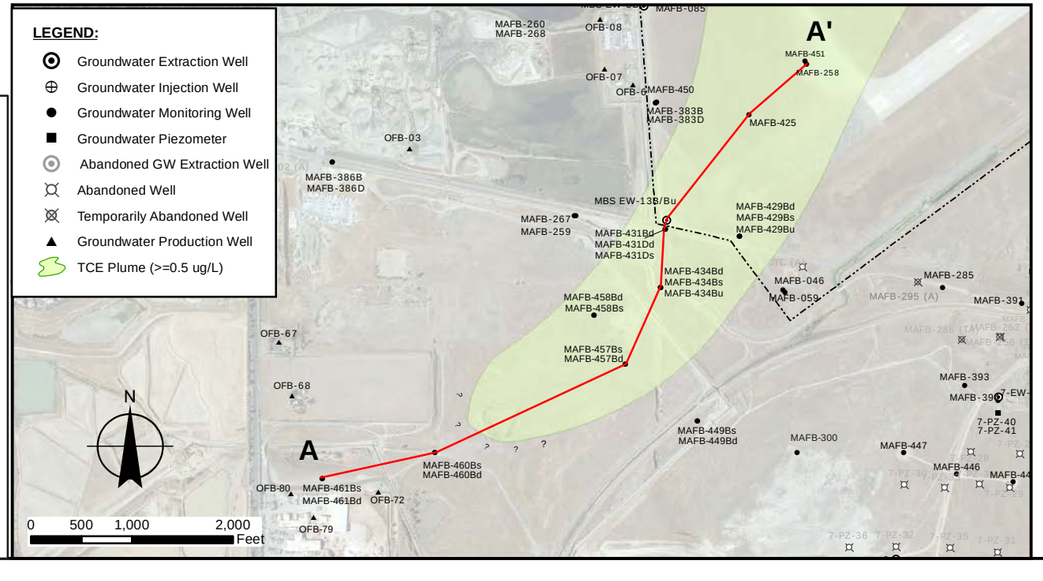


MWH

MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

MAIN BASE/SAC AREA TREATMENT SYSTEM CUMULATIVE VOLATILE ORGANIC COC MASS REMOVED, INFLUENT CONCENTRATION AND GROUNDWATER TREATED
FIGURE 6-12





Legend:

- TCE Contour (4Q09)
- (Dashed where inferred)
- Groundater Surface
- screens

Lithology:

- GRAVEL
- SAND
- SILTY SAND
- SILT
- CLAY

Well Casing

Well Screen

GROUNDWATER MONITORING/ EXTRACTION WELL

DIRECTION OF VERTICAL HYDRAULIC GRADIENT

Analytical Data Results (ug/L):

18 / 3.2

TCE / PCE

Vertical Scale:
1 inch = 50 feet

100'

50'

MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	PLATE:
HYDROGEOLOGICAL CROSS SECTION SOUTHWEST LOBE AREA FOURTH QUARTER 2009	**6-13**

Projection: N/A
Datum: N/A
Prepared by: Carr

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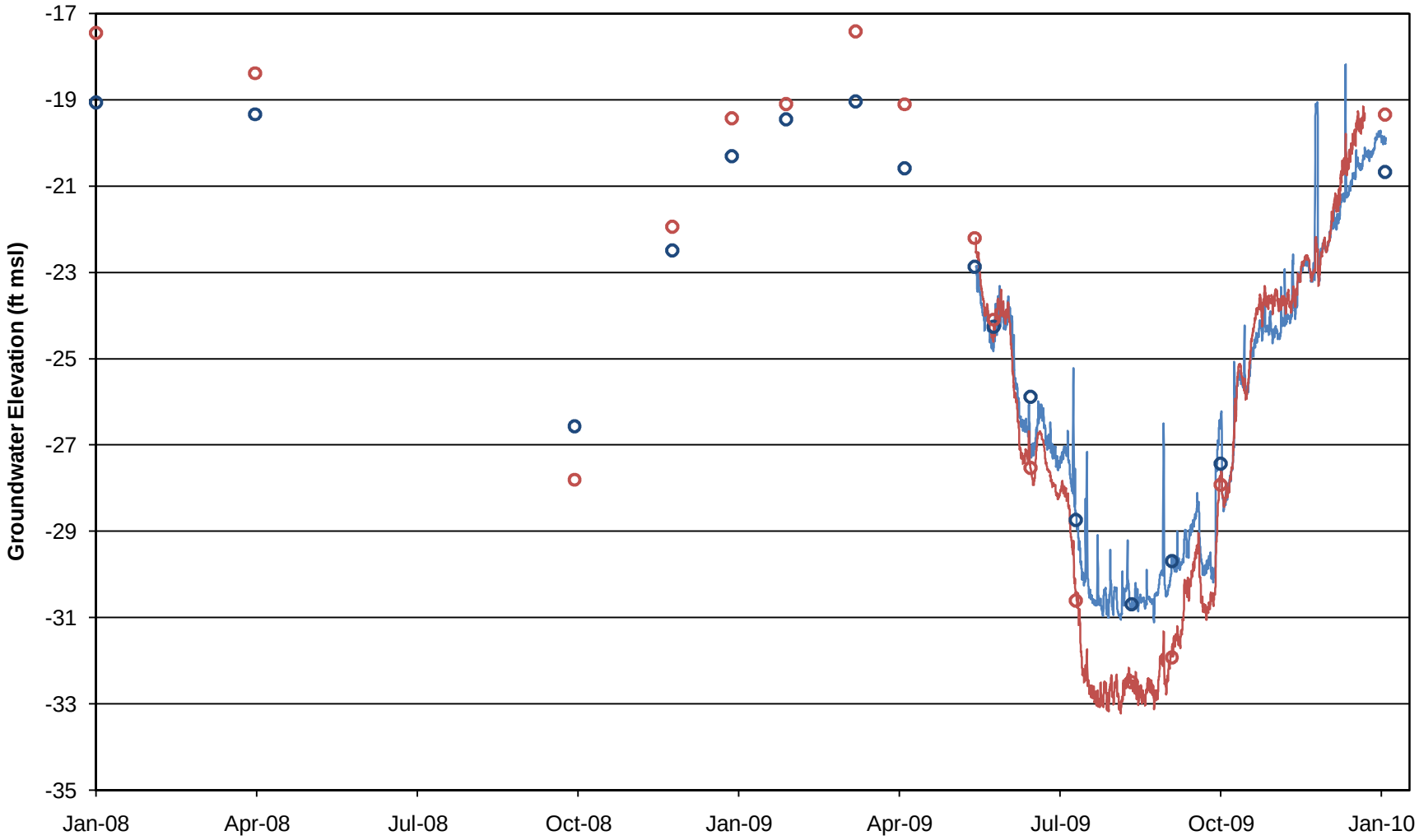

MWH

FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

MAFB-180 AND MAFB-435 WATER-LEVEL TRENDS

FIGURE 6-14

Mather AR # 2970 Page 153 of 1022

COUNTRY SIDE
ROCKINGHAM
OFB-37
OFB-38
GOULD
OFB-31
OFB-30
NUT PLAINS
OFB-32
MB-4
MB-3
MB-1
MB-2
MARS
OFB-27
OAKEN BUCKET
OFB-49
OFB-24
OFB-22
OFB-23
OFB-20
CALDERA
OFB-60
OFB-05
MOONBEAM
OFB-04
OFB-17
OFB-13
OFB-12
OFB-10
OFB-11
SOUTH PORT
OFB-54
SUTTERS GOLD
OFB-61
MONTEZUMA
OFB-62
JUVENILE HALL
#1 AND #2
OFB-51
OFB-52
OFB-08
OFB-09
OFB-07
OFB-06
WESTPORTER
OFB-55
TALLYHO #1
OFB-58
WILDROSE
OFB-63
GRANITE
OFB-03
TALLYHO #2
OFB-56
FH-3
GC-1
FH-1
FH-6
FH-4
FH-5
OFB-67
OFB-68
OFB-80
OFB-72
OFB-85
OFB-79
OFB-81
OFB-71
OFB-73
OFB-78
OFB-57
OFB-77
OFB-39
OFB-75
OFB-74
OFB-84
OFB-39
OFB-82
OFB-83
OFB-70
OFB-69
OFB-41
OFB-42
OFB-43
OFB-40
OFB-47
OFB-53
OFB-48
OFB-46

Y:\MAFB\2009_4Q_Maps\Figure 7-1 Offbase Wells.mxd - 8/19/2010 @ 10:38:37 AM

LEGEND:

- GROUNDWATER PRODUCTION WELL - SAMPLED UNDER 2009 OFF-BASE SUPPLY WELL MONITORING PROGRAM
- GROUNDWATER PRODUCTION WELL - NOT SAMPLED
- Mather Property Line

N

0 500 1,000 2,000 Feet

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: Carr

MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	FIGURE NO.:
OFF-BASE MUNICIPAL AND PRIVATE WELL LOCATIONS	**7-1**

TABLES

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
7-BV-01	WTZPERCH	73.49	72.45	13.45	3.45	SITE 7
7-BV-02	WTZPERCH	72.68	70.22	8.22	-6.78	SITE 7
7-BV-03	WTZPERCH	75.92	70.66	33.66	23.66	SITE 7
7-BV-04	WTZPERCH	76.72	69.94	20.94	5.94	SITE 7
7-BV-05	WTZPERCH	74.63	70.99	22.99	7.99	SITE 7
7-BV-06	WTZPERCH	71.84	72.88	18.88	8.88	SITE 7
7-BV-07	WTZPERCH	71.72	71.91	32.91	17.91	SITE 7
7-BV-08	WTZPERCH	78.46	71.38	26.88	6.88	SITE 7
7-BV-09	WTZPERCH	84.06	67.71	21.21	6.21	SITE 7
7-BV-10	WTZPERCH	82.25	67.89	30.89	15.89	SITE 7
7-BV-11	WTZPERCH	76.22	71.23	25.23	10.23	SITE 7
7-BV-12	WTZPERCH	NS	74.02	26.02	11.02	SITE 7
7-BV-13	WTZPERCH	75.51	74.90	34.90	19.90	SITE 7
7-BV-14	WTZPERCH	73.91	72.77	20.77	5.77	SITE 7
7-BV-15	WTZPERCH	81.59	67.30	25.30	5.30	SITE 7
7-BV-16	WTZPERCH	78.62	66.22	18.22	3.22	SITE 7
7-BV-17	WTZPERCH	71.87	73.69	25.69	10.69	SITE 7
7-BV-18	WTZPERCH	76.91	76.84	19.84	9.84	SITE 7
7-BV-19	WTZPERCH	75.77	68.32	16.32	6.32	SITE 7
7-BV-20	WTZPERCH	76.43	68.25	9.25	-0.75	SITE 7
7-BV-21	WTZPERCH	73.35	73.21	17.21	9.21	SITE 7
7-BV-22	WTZPERCH	76.33	76.61	43.61	28.61	SITE 7
7-BV-23	WTZPERCH	77.16	77.14	16.64	6.64	SITE 7
7-BV-24	WTZPERCH	74.77	72.04	7.04	-2.96	SITE 7
7-BV-25	WTZPERCH	73.17	NS	-27.00	-37.00	SITE 7
7-BV-26	WTZPERCH	72.69	NS	-30.00	-40.00	SITE 7
7-BV-27	WTZPERCH	74.05	NS	-30.00	-40.00	SITE 7
7-BV-28	WTZPERCH	72.17	NS	-30.00	-40.00	SITE 7
7-EW-1	B	43.51	41.31	-47.27	-62.27	SITE 7
7-EW-2	B	54.13	51.53	-23.47	-63.47	SITE 7
7-IW-01	B	76.40	75.65	-29.35	-89.35	SITE 7
7-IW-02	B	78.53	78.01	-26.99	-86.99	SITE 7
7-IW-03	B	79.51	79.01	-20.99	-80.99	SITE 7
7-IW-04	B	79.95	79.25	-25.75	-52.75	SITE 7
7-PZ-23	B	80.11	77.70	-41.30	-51.30	SITE 7
7-PZ-24	B	78.64	76.20	-43.80	-54.20	SITE 7
7-PZ-25	B	80.38	78.00	-41.25	-51.25	SITE 7
7-PZ-26	B	78.24	78.30	-36.70	-46.70	SITE 7
7-PZ-37	WT	75.80	NS	-6.20	-22.20	SITE 7
7-PZ-37P	WTZPERCH	75.63	NS	26.00	11.00	SITE 7
7-PZ-38P	WTZPERCH	56.99	53.89	28.89	13.89	SITE 7
7-PZ-39	C	60.92	58.02	-79.98	-89.98	SITE 7
7-PZ-40	C	56.11	53.16	-21.84	-31.84	SITE 7
7-PZ-41	C	56.11	53.16	-46.84	-56.84	SITE 7
ACW AT-1	C	130.91	129.27	13.27	-36.73	AC&W
ACW AT-2	C	124.28	122.40	7.40	-47.60	AC&W
ACW AT-3	C	122.46	120.54	5.54	-49.46	AC&W
ACW AT-4	D	126.06	NS			AC&W
ACW EW-1	C	125.17	124.02	8.02	-51.98	AC&W
ACW EW-2	C	122.47	121.31	1.31	-58.69	AC&W
ACW EW-3	C	125.41	124.26	-0.74	-60.74	AC&W
ACW EW-4	C	115.39	114.66	-15.34	-75.34	AC&W
ACW EW-5	C	114.52	113.11	-16.89	-76.89	AC&W

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
ACW EW-6	C	128.11	126.95	-3.05	-63.05	AC&W
ACW EW-6R	C	127.97	126.83	21.83	-58.17	AC&W
ACW IW-1	C	128.23	127.09	32.09	-47.91	AC&W
ACW IW-2	C	120.16	119.00	14.00	-56.00	AC&W
ACW IW-3	C	122.83	121.68	26.68	-53.32	AC&W
ACW IW-4	C	122.79	121.56	31.56	-58.44	AC&W
ACW IW-5	C	121.74	120.58	15.58	-54.42	AC&W
ACW IW-6	C	113.01	112.01	7.01	-72.99	AC&W
ACW IW-7	C	130.16	129.00	29.00	-51.00	AC&W
ACW IW-8	C	130.49	129.29	29.29	-50.71	AC&W
ACW PZ-01	C	109.59	108.91	-56.09	-71.09	AC&W
ACW PZ-02	C	110.23	110.10	-54.90	-69.90	AC&W
ACW PZ-03	C	116.81	116.58	-48.42	-63.42	AC&W
ACW PZ-04	C	108.40	108.27	-56.73	-71.73	AC&W
ACW PZ-05	C	115.26	114.96	-48.04	-63.04	AC&W
ACW PZ-06	WT/C	121.62	118.50	-1.50	-16.50	AC&W
ACW PZ-06C	C	121.62	118.50	-51.50	-61.50	AC&W
ACW PZ-07	WT/C	127.91	125.50	0.50	-14.50	AC&W
ACW PZ-07C	C	127.91	125.50	-44.50	-54.50	AC&W
ACW PZ-08	WT/C	123.75	121.00	3.00	-12.00	AC&W
ACW PZ-08C	C	123.75	121.00	-39.00	-49.00	AC&W
ACW PZ-09	WT/C	126.77	123.80	3.80	-11.20	AC&W
ACW PZ-09C	C	126.77	123.80	-36.20	-46.20	AC&W
ACW PZ-10	WT	129.19	126.70	6.70	-8.30	AC&W
ACW PZ-10C	C	129.19	126.70	-33.30	-43.30	AC&W
FFS MW15-6	D	79.60	79.60	-95.40	-100.40	MBP
MAFB-005	WT/B	135.21	132.23	26.73	6.73	LF04
MAFB-006	WT/B	98.34	95.80	14.30	-3.70	MBP
MAFB-012	WT/B	96.52	95.37	18.37	-1.63	MBP
MAFB-013	WT/B	92.21	92.21	14.21	-5.79	MBP
MAFB-022	WT/B	132.67	130.65	32.65	12.65	LF05
MAFB-026	WT/B	122.80	120.76	44.76	24.76	LF03
MAFB-033	WT/Bu	80.88	80.88	6.88	-13.12	MBP
MAFB-034	WT	81.33	81.33	20.33	0.33	MBP
MAFB-037	WT/Bu	78.82	77.24	12.24	-7.76	MBP
MAFB-039	WTZPERCH	75.00	72.71	8.71	-11.29	SITE 7
MAFB-041	B	73.64	72.28	-27.72	-47.72	SITE 7
MAFB-042	B	74.98	73.74	-16.26	-36.26	SITE 7
MAFB-043	C	75.15	73.24	-34.76	-54.76	SITE 7
MAFB-044	WTZPERCH	76.30	73.70	13.70	-6.30	SITE 7
MAFB-046	WTZPERCH	68.60	67.05	-2.95	-22.95	MBP
MAFB-047	WT/Bu	77.24	75.93	0.93	-19.07	MBP
MAFB-048	WT	75.63	74.26	4.26	-15.74	MBP
MAFB-050	WT/C	124.34	122.22	22.22	2.22	AC&W
MAFB-051	WT/C	126.72	125.42	20.42	0.42	AC&W
MAFB-052	WT/C	123.78	122.47	17.47	-2.53	AC&W
MAFB-053	C	131.33	130.15	-26.85	-46.85	AC&W
MAFB-054	WT/C	118.68	117.28	7.28	-12.72	AC&W
MAFB-056	D	74.17	72.33	-104.67	-124.67	SITE 7
MAFB-058	D	75.52	73.86	-97.14	-117.14	SITE 7
MAFB-059	Bd	69.62	67.53	-92.47	-112.47	MBP
MAFB-060	D	77.48	76.32	-98.68	-118.68	MBP
MAFB-061	D	78.43	77.37	-106.63	-126.63	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-062	D	80.06	78.92	-102.08	-122.08	MBP
MAFB-063	D	76.09	74.60	-100.40	-120.40	MBP
MAFB-064	D	132.38	131.38	-43.62	-63.62	LF04
MAFB-065	D	134.28	132.37	-62.63	-82.63	LF04
MAFB-066	Dd	93.51	92.48	-154.52	-174.52	MBP
MAFB-067	D	129.41	127.88	-62.12	-82.12	AC&W
MAFB-068	D	131.44	129.27	-77.73	-97.73	AC&W
MAFB-069	D	133.87	133.87	-73.13	-93.13	AC&W
MAFB-070	D	123.60	122.25	-60.75	-80.75	AC&W
MAFB-071	D	131.48	129.87	-70.13	-90.13	AC&W
MAFB-072	D	117.07	116.00	-75.00	-95.00	AC&W
MAFB-073	B	92.76	91.62	-20.38	-40.38	MBP
MAFB-074	WT/C	124.85	121.75	14.75	-0.25	AC&W
MAFB-075	WT/B	133.42	132.43	41.33	21.43	LF04
MAFB-077	WT/C	126.32	123.62	11.62	-3.38	AC&W
MAFB-078	D	126.64	123.89	-71.11	-86.11	AC&W
MAFB-079	WT/C	121.44	118.44	8.94	-6.06	AC&W
MAFB-080	D	121.52	118.72	-103.28	-118.28	AC&W
MAFB-081	WT/C	119.86	116.86	11.86	-3.14	AC&W
MAFB-082	WT/C	122.02	118.17	14.67	-0.33	AC&W
MAFB-083	WT/C	122.62	119.82	14.82	-0.18	AC&W
MAFB-084	WT/C	126.10	122.60	13.10	-1.90	AC&W
MAFB-085	WT	75.28	72.78	2.78	-12.22	MBP
MAFB-086	WT	75.21	72.78	8.28	4.78	MBP
MAFB-087	WT	79.25	79.17	4.67	-10.33	MBP
MAFB-088	WT	82.75	80.45	5.45	-9.55	MBP
MAFB-089	WT	86.09	83.68	9.88	-5.12	MBP
MAFB-090	WT/Bu	80.01	80.00	3.39	-11.61	MBP
MAFB-091	WT	85.11	82.59	7.09	-7.91	MBP
MAFB-092	WT	84.94	82.51	5.51	-9.49	MBP
MAFB-093	WT/B	93.38	93.38	6.38	-8.62	MBP
MAFB-094	B	90.41	90.51	-1.10	-16.10	MBP
MAFB-095	WT	87.75	87.45	10.04	-4.96	MBP
MAFB-096	WT/B	92.72	92.93	5.93	-9.07	MBP
MAFB-097	WT/B	90.04	90.03	1.03	-13.97	MBP
MAFB-099	WT	84.72	84.71	7.71	-7.29	MBP
MAFB-101	B	83.61	80.68	-35.32	-50.32	MBP
MAFB-102	D	83.03	80.55	-107.45	-122.45	MBP
MAFB-103	D	74.82	72.36	-97.64	-112.64	MBP
MAFB-104	D	73.72	73.67	-122.33	-137.33	MBP
MAFB-105	WT	84.47	84.47	7.47	-7.53	MBP
MAFB-106	WT	91.24	87.19	11.94	-3.06	MBP
MAFB-107	WT/B	96.88	96.78	5.35	-9.65	MBP
MAFB-108	WT/B	94.61	94.60	13.39	-1.61	MBP
MAFB-109	WT/C	118.15	118.20	30.20	15.20	LF03
MAFB-110	WT/B	113.55	110.90	26.90	11.90	LF03
MAFB-111	WT/B	125.27	122.75	19.75	4.75	LF03
MAFB-112	WT/C	121.09	118.26	15.26	-4.74	LF03
MAFB-113	WT/B	124.31	121.86	26.56	11.56	LF05
MAFB-115	WT/B	91.47	91.54	4.54	-10.46	MBP
MAFB-116	WT/B	89.94	89.94	3.94	-11.06	MBP
MAFB-119	B	76.64	74.18	-30.32	-45.32	SITE 7
MAFB-120	B	80.94	78.50	-21.50	-36.50	SITE 7

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-121	WT	77.37	74.67	0.17	-14.83	MBP
MAFB-122	WT	73.44	73.42	2.42	-12.58	MBP
MAFB-123	WT	77.19	74.47	-0.53	-15.53	MBP
MAFB-124	WT	69.69	69.60	-0.34	-15.34	MBP
MAFB-125	WT/B	92.46	92.46	9.46	-5.54	MBP
MAFB-126	WT/B	94.22	94.22	8.22	-6.78	MBP
MAFB-127	WT/C	117.60	117.60	-0.40	-15.40	LF02
MAFB-128	WT/B	122.28	119.73	9.73	-5.27	LF02
MAFB-129	WT/C	116.93	116.93	3.93	-11.07	LF02
MAFB-130	WT/B	112.64	110.21	27.21	12.21	LF03
MAFB-131	C	123.17	120.61	1.11	-12.89	LF03
MAFB-132	C	128.73	126.29	13.09	-3.71	LF04
MAFB-133	C	125.90	123.40	0.9	-13.1	LF03
MAFB-136	C	130.69	128.26	20.26	6.26	LF04
MAFB-137	WT/C	131.73	129.20	22.20	7.20	LF04
MAFB-139	WT/C	132.69	130.04	13.04	-1.96	LF05
MAFB-140	WT/C	137.90	134.40	19.40	4.40	LF05
MAFB-141	C	136.86	134.40	17.40	3.40	LF05
MAFB-142	WT/C	148.93	146.30	132.30	-8.70	LF06
MAFB-143	WT/C	138.50	138.40	-6.76	-21.76	LF06
MAFB-144	WT/C	131.90	131.77	-0.14	-15.14	LF06
MAFB-147	B	75.46	75.44	-29.56	-44.56	SITE 7
MAFB-148	B	77.04	74.41	-29.59	-44.59	SITE 7
MAFB-149	B	74.53	71.93	-23.07	-38.07	SITE 7
MAFB-150	WT/B	94.02	91.50	8.50	-6.50	MBP
MAFB-151	WT/B	98.71	98.71	11.71	-3.29	MBP
MAFB-152	WT/B	89.80	89.76	3.76	-11.24	MBP
MAFB-154	B	94.53	94.53	0.53	-14.47	MBP
MAFB-155	B	92.20	92.20	-0.80	-15.80	MBP
MAFB-156	WT	74.92	74.95	-2.05	-17.05	MBP
MAFB-157	WT	74.15	71.44	-5.56	-20.56	MBP
MAFB-158	WT/Bu	79.44	77.06	0.06	-14.94	MBP
MAFB-159	WT	79.87	77.23	0.73	-14.27	MBP
MAFB-160	WT	84.89	82.35	7.35	-7.65	MBP
MAFB-161	WT	86.63	83.90	6.40	-8.60	MBP
MAFB-162	WT	87.57	87.52	12.52	-2.48	MBP
MAFB-163	WT	91.66	87.66	11.89	-3.11	MBP
MAFB-164	B	76.31	74.13	-56.87	-71.87	MBP
MAFB-165	B	80.95	78.34	-50.16	-65.16	MBP
MAFB-166	B	79.94	77.18	-41.82	-56.82	MBP
MAFB-167	B	78.42	75.99	-41.01	-56.01	MBP
MAFB-168	Bu	75.15	72.78	-27.22	-42.22	MBP
MAFB-169	B	80.38	80.32	-46.68	-61.68	MBP
MAFB-170	B	79.76	79.71	-46.29	-61.29	MBP
MAFB-171	B	79.20	76.85	-40.15	-55.15	MBP
MAFB-172	Bu	75.35	73.11	-19.89	-34.89	MBP
MAFB-173	B	77.35	74.74	-51.26	-66.26	MBP
MAFB-174	Bu	79.59	76.93	-24.07	-39.07	MBP
MAFB-175	B	73.58	73.54	-63.46	-78.46	MBP
MAFB-176	Bu	76.90	74.30	-28.70	-43.70	MBP
MAFB-177	B	69.72	69.70	-67.29	-82.29	MBP
MAFB-178	D	95.46	95.40	-97.16	-112.16	MBP
MAFB-179	D	97.34	94.69	-65.31	-80.31	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-180	D	74.82	74.87	-97.13	-112.13	MBP
MAFB-181	D	74.13	71.42	-118.58	-133.58	MBP
MAFB-183	WT/C	77.58	75.01	0.01	-14.99	SITE 7
MAFB-184	WTZPERCH	74.71	71.96	21.96	6.96	SITE 7
MAFB-185	WTZPERCH	75.62	72.95	20.95	5.95	SITE 7
MAFB-186	WT	83.25	81.64	9.14	-5.86	MBP
MAFB-187	WT	86.74	84.14	8.14	-6.86	MBP
MAFB-188	WT	85.24	82.64	6.64	-8.36	MBP
MAFB-189	WTZPERCH	75.57	73.09	21.09	6.09	SITE 7
MAFB-190	WT/C	125.06	125.05	5.05	-9.95	AC&W
MAFB-191	D	125.24	125.14	-109.86	-124.86	AC&W
MAFB-192	WT/C	122.68	120.18	13.68	-1.32	AC&W
MAFB-193	C	125.99	123.58	-29.42	-44.42	AC&W
MAFB-194	C	126.71	124.04	-40.96	-55.96	AC&W
MAFB-195	C	120.40	118.42	-43.58	-58.58	AC&W
MAFB-196	C	122.37	119.58	-35.42	-50.42	AC&W
MAFB-197	WT/C	106.60	108.12	4.12	-10.88	AC&W
MAFB-198	C	106.27	107.48	-56.52	-71.52	AC&W
MAFB-199	WT/Bu	79.11	76.10	-3.90	-18.90	MBP
MAFB-200	WT	80.28	77.20	-2.80	-17.80	MBP
MAFB-201	WT/Bu	78.75	79.00	-1.00	-16.00	MBP
MAFB-202	WT	82.70	79.50	-0.50	-15.50	MBP
MAFB-203	WT	78.76	79.00	-1.00	-16.00	MBP
MAFB-204	WT	83.31	80.30	0.30	-14.70	MBP
MAFB-205	WT	80.54	77.40	-2.60	-17.60	MBP
MAFB-206	WT	80.62	77.60	1.60	-13.40	MBP
MAFB-207	WT	79.63	79.63	-0.40	-15.40	MBP
MAFB-208	WT	83.34	80.40	0.40	-14.60	MBP
MAFB-209	WT	82.53	79.70	1.70	-13.30	MBP
MAFB-210	WT	83.33	80.20	0.20	-14.80	MBP
MAFB-211	WT	78.93	75.70	-1.30	-16.30	MBP
MAFB-212	WT	86.36	83.40	3.40	-11.60	MBP
MAFB-213	WT	89.13	86.20	5.50	-4.50	MBP
MAFB-214	WT	85.53	85.53	5.10	-9.90	MBP
MAFB-215	B	80.30	77.20	-57.80	-72.80	MBP
MAFB-216	B	78.98	78.90	-35.90	-50.90	MBP
MAFB-217	B	82.17	79.20	-40.80	-55.80	MBP
MAFB-218	B	79.05	79.10	-47.90	-62.90	MBP
MAFB-219	B	83.21	80.20	-44.80	-59.80	MBP
MAFB-220	B	80.67	77.40	-47.60	-62.60	MBP
MAFB-221	Bu	77.01	74.10	-23.90	-33.90	MBP
MAFB-222	B	78.84	75.90	-42.10	-57.10	MBP
MAFB-223	B	80.49	77.60	-42.40	-57.40	MBP
MAFB-224	B	79.38	79.70	-47.30	-62.30	MBP
MAFB-225	B	82.53	79.60	-36.40	-51.40	MBP
MAFB-226	B	82.85	79.80	-41.20	-56.20	MBP
MAFB-227	B	81.72	78.80	-41.20	-56.20	MBP
MAFB-228	B	86.45	83.30	-36.70	-51.70	MBP
MAFB-229	B	84.21	84.50	-30.50	-45.50	MBP
MAFB-230	B	85.10	85.10	-25.90	-40.90	MBP
MAFB-231	B	85.71	86.00	-24.70	-39.70	MBP
MAFB-232	B	90.15	90.40	-4.60	-19.60	MBP
MAFB-233	B	93.61	93.50	-3.50	-18.50	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-234	B	89.12	86.10	-19.60	-34.60	MBP
MAFB-235	D	81.90	78.90	-81.10	-91.10	MBP
MAFB-239	D	79.28	76.20	-103.80	-118.80	MBP
MAFB-240	D	79.40	76.50	-108.50	-123.50	MBP
MAFB-241	D	80.39	77.50	-122.50	-137.50	MBP
MAFB-242	D	78.98	76.00	-91.00	-106.00	MBP
MAFB-243	D	77.04	74.40	-135.60	-145.60	MBP
MAFB-244	WT	85.76	85.80	4.00	-11.00	MBP
MAFB-245	WT/Bu	80.73	80.60	1.70	-8.30	MBP
MAFB-246	WT/Bu	84.51	84.50	-5.50	-15.50	MBP
MAFB-247	B	79.18	79.20	-37.80	-52.80	MBP
MAFB-248	B	80.69	80.60	-29.40	-44.40	MBP
MAFB-249	B	86.15	86.20	-23.80	-38.80	MBP
MAFB-250	D	85.77	85.60	-101.40	-116.40	MBP
MAFB-251	WT	75.66	75.60	1.80	-13.20	MBP
MAFB-252	WT	89.17	84.67	9.70	-5.30	MBP
MAFB-253	WT	91.68	87.63	13.60	-1.40	MBP
MAFB-254	WT/B	78.64	76.10	-0.90	-15.90	SITE 7
MAFB-255	WT/B	77.98	75.20	-5.80	-15.80	SITE 7
MAFB-258	WT/Bu	71.51	71.50	-18.50	-33.50	MBP
MAFB-259	Bu	71.69	69.00	-32.00	-37.00	MBP
MAFB-260	Bu	66.38	63.88	-31.90	-41.90	MBP
MAFB-261	Bu	68.91	69.00	-36.00	-51.00	MBP
MAFB-263	Bu	69.30	69.40	-34.60	-44.60	MBP
MAFB-264	Bu	81.34	78.90	-11.10	-26.10	MBP
MAFB-265	B	84.70	84.70	-38.80	-53.80	MBP
MAFB-266	B	75.44	72.90	-62.60	-77.60	MBP
MAFB-267	B	72.02	69.30	-78.70	-93.70	MBP
MAFB-268	B	69.28	63.30	-76.90	-91.90	MBP
MAFB-269	B	68.92	69.00	-81.00	-96.00	MBP
MAFB-270	B	65.41	65.50	-95.50	-110.50	MBP
MAFB-271	B	65.27	65.20	-78.80	-93.80	MBP
MAFB-272	B	74.38	74.38	-67.10	-82.10	MBP
MAFB-273	B	75.71	75.70	-45.20	-60.20	MBP
MAFB-274	B	84.88	82.50	-30.50	-45.50	MBP
MAFB-275	WT/Bu	82.36	82.40	8.40	-6.60	NEP/MBP
MAFB-276	WT/B	86.72	86.70	-3.80	-13.80	NEP/MBP
MAFB-277	WT/B	88.10	88.10	0.60	-14.40	NEP/MBP
MAFB-278	WT/B	94.04	94.00	12.00	2.00	NEP/MBP
MAFB-280	B	91.91	91.90	-17.10	-27.10	MBP
MAFB-281	B	90.31	90.30	-9.70	-24.70	MBP
MAFB-282	B	86.48	86.50	-13.50	-28.50	MBP
MAFB-283	B	77.96	75.00	-54.00	-69.00	SITE 7
MAFB-284	B	76.20	73.30	-41.70	-56.70	SITE 7
MAFB-285	C	70.80	70.80	-34.30	-49.30	SITE 7
MAFB-288	B	124.62	121.70	-16.30	-31.30	LF05
MAFB-289	WT/B	103.98	104.00	25.00	10.00	LF03
MAFB-290	D	68.50	68.20	-127.80	-137.80	MBP
MAFB-291	D	74.40	74.35	-98.70	-113.70	MBP
MAFB-292	D	75.71	75.70	-99.20	-114.20	MBP
MAFB-293	D	65.35	65.40	-165.60	-180.60	MBP
MAFB-294	D	133.30	130.60	-64.40	-79.40	LF05
MAFB-295	D	69.75	69.80	-99.20	-114.20	SITE 7

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-296	D	68.19	68.20	-96.80	-106.80	MBP
MAFB-297	C	39.74	36.60	-43.50	-58.50	SITE 7
MAFB-299	B	68.08	65.40	-52.10	-67.10	SITE 7
MAFB-300	C	41.18	39.00	-33.00	-43.00	SITE 7
MAFB-301	C	125.27	125.17	-37.83	-52.83	AC&W
MAFB-302	C	108.07	107.95	-47.55	-62.55	AC&W
MAFB-303	C	116.28	116.14	-46.86	-61.86	AC&W
MAFB-304	C	120.75	120.72	-34.28	-49.28	AC&W
MAFB-305	C	108.85	108.19	-51.81	-66.81	AC&W
MAFB-306	C	124.642	124.13	-30.40	-45.40	AC&W
MAFB-307	WT/B	116.61	113.60	13.60	-1.40	LF02
MAFB-308	B	81.56	81.56	-28.44	-43.44	MBP
MAFB-309	B	69.56	69.64	-75.36	-90.36	MBP
MAFB-310	B	63.99	63.92	-91.08	-106.08	MBP
MAFB-311	B	59.08	59.08	-104.92	-119.92	MBP
MAFB-312	B	70.21	70.21	-124.79	-139.79	MBP
MAFB-313	B	74.08	74.08	-79.92	-94.92	MBP
MAFB-314	D	81.61	81.63	-93.37	-108.37	MBP
MAFB-315	D	69.54	69.61	-129.39	-139.39	MBP
MAFB-316	D	63.9	63.86	-161.14	-176.14	MBP
MAFB-317	D	59.12	59.12	-175.88	-185.88	MBP
MAFB-318	D	70.43	70.43	-174.57	-184.57	MBP
MAFB-319	D	65.51	65.50	-134.55	-149.55	MBP
MAFB-320	D	81.75	81.75	-123.25	-138.25	MBP
MAFB-321	Dd	65.41	65.40	-174.65	-184.65	MBP
MAFB-322	B	58.86	58.86	-114.14	-129.14	MBP
MAFB-323	B	69.32	69.32	-122.68	-132.68	MBP
MAFB-324	B	65.24	65.24	-82.26	-97.26	MBP
MAFB-325	B	68.59	68.58	-81.42	-96.42	MBP
MAFB-326	D	58.91	58.91	-170.09	-185.09	MBP
MAFB-327	D	69.48	69.48	-184.02	-199.02	MBP
MAFB-328	D	65.23	65.28	-124.72	-134.72	MBP
MAFB-329	D	68.59	68.64	-126.36	-136.36	MBP
MAFB-330	B	70.8	70.70	-124.30	-139.30	MBP
MAFB-331	B	70.99	71.00	-124.00	-139.00	MBP
MAFB-332	D	69.32	70.63	-145.30	-155.30	MBP
MAFB-333	WT/C	124.63	NS			GOLF
MAFB-334	WT/B	124.85	NS			GOLF
MAFB-335	WT/C	123.99	NS			GOLF
MAFB-336	D	69.92	69.87	-200.13	-210.13	MBP
MAFB-337	Dd	58.80	57.01	-279.99	-289.99	MBP
MAFB-338	Dd	65.00	65.00	-245.00	-255.00	MBP
MAFB-339	WT/B	86.76	86.80	11.15	-8.85	MBP
MAFB-340	WT/B	89.14	89.16	11.16	-8.84	MBP
MAFB-341	WT/B	86.96	86.93	8.74	-11.26	MBP
MAFB-342	WT/B	88.44	87.70	9.70	-10.30	MBP
MAFB-343	WT/B	87.88	87.32	12.32	-7.68	MBP
MAFB-344	WT/B	89.85	89.65	11.65	-8.35	MBP
MAFB-345	Dd	67.33	67.72	-315.14	-325.14	MBP
MAFB-346Bd	B	67.13	67.73	-122.11	-132.11	MBP
MAFB-346Bs	B	67.32	67.73	-70.51	-80.51	MBP
MAFB-346D	D	67.04	67.73	-177.11	-187.11	MBP
MAFB-347	LMT	68.73	68.73	-422.27	-432.27	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-348B	B	68.55	68.55	-101.45	-111.45	MBP
MAFB-348Dd	Dd	68.55	68.55	-245.45	-255.45	MBP
MAFB-348Ds	D	68.55	68.55	-171.45	-181.45	MBP
MAFB-349	LMT	69.80	69.79	-365.43	-375.43	MBP
MAFB-350	LMT	64.94	64.94	-371.06	-381.06	MBP
MAFB-351Bd	B	64.61	64.61	-143.39	-153.39	MBP
MAFB-351Bs	B	64.61	64.61	-66.89	-76.89	MBP
MAFB-351D	D	64.61	64.61	-191.39	-201.39	MBP
MAFB-352D	Dd	67.67	67.67	-228.33	-238.33	MBP
MAFB-352LM	LMT	67.67	67.67	-382.33	-392.33	MBP
MAFB-353	LMT	68.33	68.33	-361.67	-371.67	MBP
MAFB-354B	B	68.22	68.22	-136.78	-146.78	MBP
MAFB-354D	D	68.22	68.22	-221.78	-231.78	MBP
MAFB-355B	B	54.60	54.60	-133.40	-143.40	MBP
MAFB-355D	D	54.60	54.60	-228.70	-238.70	MBP
MAFB-356B	B	67.58	67.58	-138.42	-148.42	MBP
MAFB-356Dd	Dd	67.58	67.58	-284.42	-294.42	MBP
MAFB-356Ds	D	67.58	67.58	-232.42	-242.42	MBP
MAFB-357D	D	89.43	89.43	-80.57	-90.57	MBP
MAFB-357Dd	Dd	89.44	89.43	-170.57	-180.57	MBP
MAFB-357Ds	D	89.44	89.43	-120.57	-130.57	MBP
MAFB-358B	B	88.59	87.60	-37.40	-47.40	MBP
MAFB-358D	D	88.61	87.60	-82.40	-92.40	MBP
MAFB-359	WT/Bu	77.84	76.43	2.93	-37.07	MBP
MAFB-360	B	80.45	77.25	-63.75	-73.75	MBP
MAFB-361	B	77.55	77.35	-47.65	-57.65	MBP
MAFB-362	B	80.44	80.34	-56.66	-66.66	MBP
MAFB-363	B	78.64	75.84	-59.16	-69.16	MBP
MAFB-364B	B	74.47	74.47	-75.53	-85.53	MBP
MAFB-364D	D	74.47	74.47	-118.53	-128.53	MBP
MAFB-365B	B	72.61	72.96	-82.5	-92.5	MBP
MAFB-365D	D	72.61	72.96	-127.5	-137.5	MBP
MAFB-366B	B	69.28	69.28	-80.72	-90.72	MBP
MAFB-366D	D	69.28	69.28	-110.72	-120.72	MBP
MAFB-367	D	70.42	70.42	-145.08	-155.08	MBP
MAFB-368B	B	67.13	67.13	-102.87	-112.87	MBP
MAFB-368D	D	67.13	67.13	-172.87	-182.87	MBP
MAFB-369	D	69.72	69.72	-138.28	-148.28	MBP
MAFB-370	C	44.47	41.52	-52.06	-67.06	SITE 7
MAFB-371C	C	43.84	40.79	-46.62	-61.62	SITE 7
MAFB-371D	D	43.84	40.79	-99.62	-109.62	SITE 7
MAFB-372B	B	46.74	43.59	-44.71	-59.71	SITE 7
MAFB-372D	D	46.74	43.59	-81.71	-91.71	SITE 7
MAFB-373C	C	47.10	43.63	-42.56	-57.56	SITE 7
MAFB-373D	D	47.10	43.63	-87.56	-97.56	SITE 7
MAFB-374	D	90.78	86.32	-83.68	-93.68	MBP
MAFB-375	D	67.61	67.61	-102.39	-112.39	MBP
MAFB-376	D	56.17	56.17	-123.83	-133.83	MBP
MAFB-377	D	75.14	NS	-114.90	-124.90	MBP
MAFB-378B	B	81.48	81.48	-32.52	-42.52	MBP
MAFB-378D	D	81.48	81.48	-88.52	-98.52	MBP
MAFB-379B	B	69.42	69.42	-80.58	-90.58	MBP
MAFB-379D	D	69.42	69.42	-140.58	-150.58	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-380B	B	66.20	66.20	-98.30	-108.30	MBP
MAFB-380D	D	66.20	66.20	-141.80	-151.80	MBP
MAFB-381B	B	72.72	70.00	-70.00	-80.00	MBP
MAFB-381D	D	72.72	70.00	-165.00	-175.00	MBP
MAFB-382B	B	69.13	69.13	-85.87	-100.87	MBP
MAFB-382D	D	69.13	69.13	-175.87	-185.87	MBP
MAFB-383B	B	75.64	72.58	-69.36	-79.36	MBP
MAFB-383D	D	75.64	72.58	-134.36	-144.36	MBP
MAFB-384B	B	87.76	87.76	1.76	-18.24	MBP
MAFB-384D	D	87.76	87.76	-77.24	-87.24	MBP
MAFB-385B	B	62.32	62.32	-109.68	-119.68	MBP
MAFB-385D	D	62.32	62.32	-159.68	-169.68	MBP
MAFB-386B	B	69.73	69.40	-100.60	-110.60	MBP
MAFB-386D	D	69.73	69.40	-180.60	-190.60	MBP
MAFB-387B	B	70.11	70.25	-119.75	-139.75	MBP
MAFB-387Dd	D	70.11	70.25	-259.75	-269.75	MBP
MAFB-387Ds	D	70.11	70.25	-214.75	-224.75	MBP
MAFB-388B	B	62.77	62.77	-132.23	-142.23	MBP
MAFB-388Dd	D	62.77	62.77	-267.23	-277.23	MBP
MAFB-388Ds	D	62.77	62.77	-222.23	-232.23	MBP
MAFB-389	WT/B	96.99	93.84	3.84	-21.16	LF
MAFB-390	WT/B	93.50	90.62	0.62	-24.38	LF
MAFB-391	C	74.68	71.88	-33.12	-43.12	SITE 7
MAFB-392	C	56.99	53.89	-26.11	-36.11	SITE 7
MAFB-393	C	56.17	52.77	-22.23	-32.23	SITE 7
MAFB-394	C	55.17	51.87	-22.13	-32.13	SITE 7
MAFB-395	C	58.83	55.43	-22.57	-37.57	SITE 7
MAFB-396	B	60.92	58.02	-31.98	-46.98	SITE 7
MAFB-397	Dd	81.26	81.26	-153.74	-163.74	MBP
MAFB-398	WT/B	126.57	123.30	6.30	1.30	NEP
MAFB-398C	C	126.57	123.30	-26.20	-36.20	NEP
MAFB-399	C	123.20	120.30	-29.70	-39.70	NEP
MAFB-400	C	132.19	129.20	-15.80	-25.80	NEP
MAFB-401	WT/C	128.44	125.80	20.80	-9.20	AC&W
MAFB-402	WT/C	135.66	133.00	18.00	-12.00	AC&W
MAFB-403	WT/C	132.21	129.30	19.30	-10.70	AC&W
MAFB-404	WT/B	89.35	89.30	2.30	-17.70	MBP
MAFB-405	WT/B	88.05	88.05			MBP
MAFB-406	WT/B	81.42	81.42	-1.60	-16.60	MBP
MAFB-407	WT/Bu	85.57	85.50	-5.00	-15.00	MBP
MAFB-408	WT/C	126.99	127.00	20.00	-10.00	AC&W
MAFB-409	WT/B	80.66	80.50	-4.50	-19.50	NEP
MAFB-410	WT/A	84.49	81.50	-3.50	-18.50	MBP
MAFB-411	WT/B	79.67	79.62	-8.33	-23.33	MBP
MAFB-412	WT/B	82.82	79.92	-6.18	-21.18	MBP
MAFB-413	WT/B	78.08	75.03	-10.92	-25.92	MBP
MAFB-414	WT	84.68				MBP
MAFB-415	WT/B	87.61	87.46	-5.39	-25.39	MBP
MAFB-416	WT/B	88.44	88.35	1.44	-18.56	MBP
MAFB-417	WT/B	82.66	80.06	-11.34	-26.34	MBP
MAFB-418	WT	81.67	81.59	-12.83	-26.83	MBP
MAFB-419	WT/B	84.62	82.52	0.62	-19.38	MBP
MAFB-420	WT	80.81	80.69	-14.19	-29.19	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-421	WT/B	84.88	84.83	-8.12	-23.12	MBP
MAFB-422	WT/Bu	82	81.85	-12.00	-27.00	MBP
MAFB-423	WT/Bu	78.36	78.6	-16.64	-36.64	MBP
MAFB-423B	B	78.19	78.6	-74.81	-89.81	MBP
MAFB-424	WT/C	80.54	78.07	-11.46	-26.46	SITE 7 PLUME
MAFB-425	WT	69.57	69.24	-17.43	-32.43	MBP
MAFB-426	B	64.86		-135.14	-145.14	MBP
MAFB-427	B	66.62	66.57	-133.38	-143.38	MBP
MAFB-428	WT/B	88.53	86.07	-7.47	-22.47	MBP
MAFB-429Bd	B	70.86	70.86	-92.14	-107.14	MBP
MAFB-429Bs	B	70.86	70.86	-62.14	-77.14	MBP
MAFB-429Bu	WT/B	70.86	70.86	-34.14	-44.14	MBP
MAFB-430	LMT	80.55	77.54	-183.46	-193.46	MBP
MAFB-431Bd	Bd	69.79	69.8	-99.5	-114.5	MBP
MAFB-431Dd	Dd	69.79	69.8	-159.336	-169.356	MBP
MAFB-431Ds	Ds	69.79	69.8	-135.38	-145.38	MBP
MAFB-432	WT/C	126.47	123.43	-11.57	-26.57	AC&W
MAFB-433	WT/C	112.84	112.84	-17.16	-32.16	AC&W
MAFB-434Bd	Bd	69.79	66.99	-107.01	-117.01	MBP
MAFB-434Bs	Bs	69.79	66.99	-76.01	-91.01	MBP
MAFB-434Bu	Bu	69.79	66.99	-38.01	-53.01	MBP
MAFB-435	Dd	74.75	74.75	-175.25	-185.25	MBP
MAFB-437Dd	Dd	66.78	66.78	-228.22	-263.22	MBP
MAFB-437Ds	Ds	66.78	66.78	-118.22	-143.22	MBP
MAFB-438	WT	135.29	132.50	13.50	-1.50	NEP
MAFB-439	WT	86.2	83.20	-6.80	-21.80	MBP
MAFB-440	WT	78.17	74.90	-15.10	-30.10	Site 20
MAFB-440P	WTZPERCH	78.17	74.90	24.90	14.90	Site 20
MAFB-441	D	79.93	79.90	-129.10	-139.10	MBP
MAFB-442	D	83.33	80.30	-179.70	-198.70	MBP
MAFB-443	D	70.46	70.40	-195.60	-205.60	MBP
MAFB-444	B	55.65	52.90	-40.10	-50.10	SITE 7 PLUME
MAFB-445	B	48.12	45.10	-48.90	-58.90	SITE 7 PLUME
MAFB-446	C	50.17	47.10	-37.90	-52.90	SITE 7 PLUME
MAFB-447	C	44.71	41.80	-43.20	-58.20	SITE 7 PLUME
MAFB-448	B	49.34	45.90	-39.10	-54.10	SITE 7 PLUME
MAFB-449Bd	Bd	52.72	49.30	-69.70	-84.70	MBP
MAFB-449Bs	Bs	52.72	49.30	-110.70	-120.70	MBP
MAFB-450	Bu	75.43	72.00	-27.00	-42.00	MBP
MAFB-451	B	71.41	71.30	-58.70	-73.70	MBP
MAFB-452B	B	74.41	74.30	-63.70	-78.70	MBP
MAFB-452Bu	Bu	74.41	74.30	-20.70	-35.70	MBP
MAFB-453	WT	122.16	119.10	-7.90	-22.90	AC&W
MAFB-453C	C	122.16	119.10	-40.90	-50.90	AC&W
MAFB-454	WT	125.71	122.50	-9.50	-24.50	AC&W
MAFB-454C	C	125.71	122.50	-33.50	-48.50	AC&W
MAFB-455	WT	119.67	119.70	-15.30	-30.30	AC&W
MAFB-456	WT	124.32	124.30	-13.70	-28.70	AC&W
MAFB-456C	C	124.32	124.30	-43.70	-53.70	AC&W
MAFB-457Bd	Bd	44.08	41.00	-121.00	-131.00	MBP
MAFB-457Bs	Bs	44.08	41.00	-80.00	-95.00	MBP
MAFB-458Bd	Bd	37.66	34.70	-117.30	-132.30	MBP
MAFB-458Bs	Bs	37.66	34.70	-80.30	-95.30	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MAFB-459D	D	62.99	63.00	-197.00	-212.00	MBP
MAFB-459Dd	Dd	62.99	63.00	-257.00	-267.00	MBP
MAFB-460Bd	Bd	58.62	58.50	-121.50	-131.50	MBP
MAFB-460Bs	Bs	58.62	58.50	-93.50	-108.50	MBP
MAFB-461Bd	Bd	70.36	70.30	-137.70	-147.70	MBP
MAFB-461Bs	Bs	70.36	70.30	-106.70	-121.70	MBP
MBS 19EW01	B	84.37	81.70	-106.00	-146.00	MBP
MBS 19MW01	Bu	83.90	81.20	-28.80	-43.80	MBP
MBS 19MW02	Bu	82.89	80.20	-28.80	-43.80	MBP
MBS 19MW03	D	83.28	80.40	-94.60	-109.60	MBP
MBS 19MW04	D	83.06	80.10	-94.40	-109.40	MBP
MBS 39ABuB	WT/B	80.82	85.58	11.58	-38.42	MBP
MBS 39EW02	B	88.68	85.53	-23.02	-38.02	MBP
MBS 39MW01	WT	85.50	85.50	-89.00	-95.00	MBP
MBS 39MW02	WT	85.51	85.51	-80.00	-95.00	MBP
MBS 39MW03	Bu	85.30	85.30	-103.00	-118.00	MBP
MBS 39MW04	Bu	85.40	85.40	-100.00	-155.00	MBP
MBS EW-10B	B	65.11	69.62	-70.38	-110.38	MBP
MBS EW-11B	B	63.49	68.05	-81.95	-121.95	MBP
MBS EW-12AB	WT/B	84.36	88.57	-1.43	-41.43	MBP
MBS EW-13BuB	Bu/Bs/Bd	71.32	69.97	-30.03	-114.03	MBP
MBS EW-1A	WT	81.93	87.73	14.73	-5.27	MBP
MBS EW-1B	B	76.27	75.70	-23.30	-63.30	MBP
MBS EW-1Bu	WT/Bu	75.23	74.44	-9.56	-29.56	MBP
MBS EW-1D	D	83.87	82.00	-74.5	-104.5	MBP
MBS EW-2A	WT	74.53	79.63	2.63	-17.37	MBP
MBS EW-2B	B	78.58	83.67	-54.33	-79.33	MBP
MBS EW-2D	D	75.43	74.89	-105.11	-145.11	MBP
MBS EW-3A	WT	75.54	80.73	3.73	-16.27	MBP
MBS EW-3B	B	76.39	80.93	-24.07	-84.07	MBP
MBS EW-3Bu	Bu	74.38	74.11	-20.89	-35.89	MBP
MBS EW-3D	D	79.42	77.80	-85.20	-125.20	MBP
MBS EW-4A	WT/B	82.13	87.11	10.11	-29.89	MBP
MBS EW-4B	B	76.59	75.16	-44.84	-74.84	MBP
MBS EW-4Bu	Bu	76.36	74.06	-10.94	-50.94	MBP
MBS EW-4D	D	82.06	86.28	-78.72	-103.72	MBP
MBS EW-5A	WT/B	83.45	88.59	9.59	-30.41	MBP
MBS EW-5B	B	65.88	71.28	-65.72	-95.72	MBP
MBS EW-5D	D	68.16	69.83	-107.17	-142.17	MBP
MBS EW-6B	B	68.84	74.09	-75.91	-115.91	MBP
MBS EW-6D	D	63.51	67.93	-156.07	-181.07	MBP
MBS EW-7B	B	77.30	77.30	-47.70	-87.70	MBP
MBS EW-8B	B	67.53	72.70	-33.30	-63.30	MBP
MBS EW-9B	B	76.53	74.58	-45.42	-85.42	MBP
MBS EW1ABu	WT/Bu	81.00	79.37	4.37	-30.63	MBP
MBS EW2ABu	WT/Bu	75.62	80.04	5.04	-34.96	MBP
MBS EW4ABu	WT/Bu	74.21	79.28	4.28	-35.72	MBP
MBS EW5ABu	WT/Bu	73.79	79.04	3.04	-36.96	MBP
MBS EW6ABu	WT	81.75	79.78	-2.22	-42.22	MBP
MBS EW7ABu	WT/Bu	85.57	85.57		-35.43	
MBS IW-501	LMT	87.06	84.71	-255.29	-315.29	MBP
MBS IW-502	LMT	86.57	84.05	-265.95	-325.95	MBP
MBS IW-503	LMT	85.54	83.69	-266.31	-326.31	MBP

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MBS IW-504	LMT	81.21	81.21	-278.79	-378.79	MBP
MBS PZ-01	WT	79.76	79.80	-4.20	-14.20	MBP
MBS PZ-02	WT	79.97	80.60	-4.40	-14.40	MBP
MBS PZ-03	WT	81.10	81.60	-3.40	-13.40	MBP
MBS PZ-04	WT	80.14	80.60	-4.40	-14.40	MBP
MBS PZ-05	B	78.87	76.50	-48.50	-58.50	MBP
MBS PZ-06	B	79.85	77.40	-47.60	-57.60	MBP
MBS PZ-07	B	83.48	83.90	-51.10	-61.10	MBP
MBS PZ-08	B	84.41	84.90	-60.10	-70.10	MBP
MBS PZ-09	B	87.42	87.46	-21.40	-31.40	MBP
MBS PZ-10	B	87.7	87.70	-21.30	-31.30	MBP
MBS PZ-11	B	62.27	62.30	-55.70	-65.70	MBP
MBS PZ-12	LMT	84.48	84.80	-295.20	-305.20	MBP
MBS PZ-13	Dd	83.33	84.00	-166.00	-176.00	MBP
MBS PZ-14	LMT	83.00	83.60	-286.40	-301.40	MBP
MBS PZ-15	LMT	81.67	82.20	-290.80	-300.80	MBP
MBS PZ-16	B	82.16	82.60	-47.40	-57.40	MBP
MBS PZ-17	D	76.86	74.50	-123.50	-133.50	MBP
MBS PZ-18	D	77.02	74.80	-122.20	-132.20	MBP
MBS PZ-19	WT	82.06	79.60	-15.40	-25.40	MBP
MBS PZ-20	Bu	79.42	76.90	-21.60	-31.60	MBP
MBS PZ-21	Bu	76.43	73.90	-15.30	-25.30	MBP
MBS PZ-22	Bu	77.43	75.20	-16.00	-26.00	MBP
MBS PZ-37	B	73.32	73.32	-96.68	-106.68	MBP
MBS PZ-38	B	73.68	73.68	-74.32	-93.32	MBP
MBS PZ-39	B	70.86	70.86	-77.14	-87.14	MBP
MBS PZ-40	B	71.37	71.37	-55.63	-65.63	MBP
MBS PZ-41	B	74.05	74.05	-51.45	-61.45	MBP
MBS PZ-42D	B	71.37	71.37	-95.63	-105.63	MBP
MBS PZ-42S	B	71.37	71.37	-39.63	-49.63	MBP
MBS PZ-43	B	77.93	75.00	-55.00	-65.00	MBP
MBS PZ-44	B	77.63	77.63	-23.37	-33.37	MBP
MBS PZ-46	B	79.20	79.20	-30.30	-40.30	MBP
MBS PZ-47	B	79.82	79.60	-30.40	-40.40	MBP
MBS PZ-48D	B	82.15	81.80	-73.20	-83.20	MBP
MBS PZ-48S	B	82.15	81.80	-38.20	-48.20	MBP
MBS PZ-49D	LMT	80.29	80.29	-285.71	-295.71	MBP
MBS PZ-49S	B	80.29	80.29	-46.71	-56.71	MBP
MBS PZ-50D	LMT	83.48	83.48	-298.52	-308.52	MBP
MBS PZ-50S	Dd	83.48	83.48	-81.52	-91.52	MBP
MBS PZ-51	D	81.01	78.36	-93.64	-103.64	MBP
MBS PZ-52	D	85.96	83.57	-90.43	-100.43	MBP
MBS PZ-53	D	86.05	83.02	-101.76	-116.76	MBP
MBS PZ-54	D	80.38	80.38	-95.62	-105.62	MBP
MBS PZ-55B	B	76.39	73.30	-68.70	-78.70	MBP
MBS PZ-55Bu	Bu	76.39	73.30	-26.7	-36.7	MBP
MBS PZ-57B	B	86.43	NS	-14.07	-24.07	MBP
MBS PZ-57D	D	86.57	NS	-83.73	-93.73	MBP
MBS PZ-58	D	71.06	NS	-114.44	-124.44	MBP
MBS PZ-59B	WT/A	67.98	NS	-12.02	-27.02	MBP
MBS PZ-59D	B	UNK	UNK	-87.02	-97.02	MBP
MB-1	NA	UNK	UNK	262.00	517.00	ON-BASE SUPPLY WELL
MB-2	NA	UNK	UNK	186.00	476.00	ON-BASE SUPPLY WELL

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
MB-3	NA	UNK	UNK	294.00	489.00	ON-BASE SUPPLY WELL
MB-4	NA	UNK	UNK	246.00	490.00	ON-BASE SUPPLY WELL
OFB-03	Dd/LMT	UNK	UNK	UNK	UNK	OFB - (Granite)
OFB-04	D/Dd/LMT	UNK	UNK	UNK	UNK	OFB- (CalAm; Moonbeam)
OFB-06	NA	UNK	UNK	UNK	UNK	OFB - (private; 4294 HL)
OFB-07	NA	UNK	UNK	UNK	UNK	OFB - (private; 4274 HL)
OFB-08	NA	UNK	UNK	UNK	UNK	OFB - (private; 4122 HL)
OFB-09	NA	UNK	UNK	UNK	UNK	OFB - (private; 4095 HL)
OFB-11	NA	UNK	UNK	UNK	UNK	OFB- (private; 4070 HL)
OFB-12	NA	UNK	UNK	UNK	UNK	OFB - (private; 4016 HL)
OFB-17	NA	UNK	UNK	UNK	UNK	OFB - (private; 3900 HL)
OFB-22	NA	UNK	UNK	UNK	UNK	OFB - (private; 9910 OPR)
OFB-23	NA	UNK	UNK	UNK	UNK	OFB - (private; 9960 OPR)
OFB-24	NA	UNK	UNK	UNK	UNK	OFB - (private; 9970 OPR)
OFB-27	D	UNK	UNK	UNK	UNK	OFB - (CalAm; Mars)
OFB-31	D/LMT	UNK	UNK	UNK	UNK	OFB - (CalAm; Gould)
OFB-32	D/LMT	UNK	UNK	UNK	UNK	OFB - (CalAm; Nut Plains)
OFB-39	NA	UNK	UNK	UNK	UNK	OFB - (Teichert; 9760 JH)
OFB-40	NA	UNK	UNK	UNK	UNK	OFB - (private; 9880 JH)
OFB-41	NA	UNK	UNK	UNK	UNK	OFB - (private; 9890 JH)
OFB-42	NA	UNK	UNK	UNK	UNK	9890 JH)
OFB-43	NA	UNK	UNK	UNK	UNK	OFB - (Teichert; 9932 JH)
OFB-44	NA	UNK	UNK	UNK	UNK	OFB - (Teichert; 9940 JH)
OFB-45	NA	UNK	UNK	UNK	UNK	OFB - (Teichert; 10004 JH)
OFB-46	NA	UNK	UNK	UNK	UNK	OFB - (private; 10180 JH)
OFB-47	NA	UNK	UNK	UNK	UNK	OFB - (private; 10221 JH)
OFB-48	NA	UNK	UNK	UNK	UNK	OFB - (private; 10175 JH)
OFB-49	NA	UNK	UNK	UNK	UNK	OFB - (CalAm; Oaken Bucket)
OFB-51	WT/B/D	UNK	UNK	UNK	UNK	OFB - (Juvenile Hall No 1)
OFB-52	WT/B/D	UNK	UNK	UNK	UNK	OFB - (Juvenile Hall No 2)
OFB-53	NA	UNK	UNK	UNK	UNK	OFB - (private; 10204 JH)
OFB-54	B/D	UNK	UNK	UNK	UNK	OFB - (CalAm; South Port)
OFB-55	B/D/Dd	UNK	UNK	UNK	UNK	OFB - (CalAm; Westporter)
OFB-56	B/D/Dd	UNK	UNK	UNK	UNK	OFB - (CalAm; Tallyho #2)
OFB-57	NA	UNK	UNK	UNK	UNK	OFB - (private; 9815 JH)
OFB-67	NA	UNK	UNK	UNK	UNK	OFB (private; 9721 Farm Lane)
OFB-68	NA	UNK	UNK	UNK	UNK	OFB (private; 4575 Bradshaw Road)
OFB-69	NA	UNK	UNK	UNK	UNK	
OFB-70	NA	UNK	UNK	UNK	UNK	
OFB-71	NA	UNK	UNK	UNK	UNK	
OFB-72	NA	UNK	UNK	UNK	UNK	
OFB-73	NA	UNK	UNK	UNK	UNK	
OFB-74	NA	UNK	UNK	UNK	UNK	
OFB-75	NA	UNK	UNK	UNK	UNK	
OFB-76	NA	UNK	UNK	UNK	UNK	
OFB-77	NA	UNK	UNK	UNK	UNK	
OFB-78	NA	UNK	UNK	UNK	UNK	
OFB-79	NA	UNK	UNK	UNK	UNK	
OFB-80	NA	UNK	UNK	UNK	UNK	

TABLE 2-1

GROUNDWATER WELL REFERENCE LIST
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 14)

WELL ID	HYDRO-STRATIGRAPHIC UNIT	TOP OF PROTECTIVE CASING ELEVATION (ft msl)	GROUND SURFACE ELEVATION (ft msl)	SCREEN TOP (ft msl)	BASE OF SCREEN (ft msl)	STUDY-AREA or OFB SUPPLY WELL (OWNER; ADDRESS)
OFB-81	NA	UNK	UNK	UNK	UNK	
OFB-82	NA	UNK	UNK	UNK	UNK	
OFB-83	NA	UNK	UNK	UNK	UNK	
OFB-84	NA	UNK	UNK	UNK	UNK	
OFB-85	NA	UNK	UNK	UNK	UNK	

Notes:
AC&W = Aircraft Control and Warning Plume
CalAm = California-American Water Company
DF = Diffusion
ft msl = feet mean sea level
ft bgs = feet below ground surface
GOLF = Golf Course Area
HL = Happy Lane
JH = Jackson Highway
LF = Landfill
LMT = Laguna Mehrten Transition
MBP = Main Base/SAC Area Plume
NA = Not Available
NEP = Northeast Plume
NS = Not Surveyed
OPR = Old Placerville Road
UNK = Unknown
WTZPERCH = Perched Water Table

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
7-BV-01	SITE 7	NA	73.488	3.45	24.08	20.69	20.63	19.39	
7-BV-02	SITE 7	NA	72.683	-6.78	21.42	18.82	18.91	14.94	
7-BV-03	SITE 7	NA	75.924	23.66	**23.46**	**22.74**	**22.58**	--	DRY
7-BV-04	SITE 7	NA	76.722	5.94	25	22.8	22.71	21.87	
7-BV-05	SITE 7	NA	74.631	7.99	24.97	22.96	22.88	22.13	
7-BV-06	SITE 7	NA	71.84	8.88	25.06	23.35	23.16	22.63	
7-BV-07	SITE 7	NA	71.722	17.91	24.78	21.8	21.91	20.59	
7-BV-08	SITE 7	NA	78.459	6.88	25.33	22.78	22.73	21.64	
7-BV-09	SITE 7	NA	84.064	6.21	25.3	22.94	22.84	21.94	
7-BV-10	SITE 7	NA	82.252	15.89	25.15	23.14	22.95	22.22	
7-BV-11	SITE 7	NA	76.223	10.23	26.32	23.36	23.17	22.54	
7-BV-12	SITE 7	NA	76.45	11.02	27.97	26.46	26.11	25.67	
7-BV-13	SITE 7	NA	75.511	19.9	25.41	22.1	22.38	20.81	
7-BV-14	SITE 7	NA	73.908	5.77	25.56	22.65	22.75	21.36	
7-BV-15	SITE 7	NA	81.589	5.3	26.02	23.92	23.53	23.01	
7-BV-16	SITE 7	NA	78.617	3.22	23.65	23.63	23.33	22.71	
7-BV-17	SITE 7	NA	71.867	10.69	26.09	24.35	24.24	23.6	
7-BV-18	SITE 7	NA	76.909	9.84	25.88	23.04	22.96	21.67	
7-BV-19	SITE 7	NA	75.773	6.32	25.97	23.23	23.17	21.99	
7-BV-20	SITE 7	NA	76.427	-0.75	--	--	--	--	OBSTRUCTION @ 19.3' BGS
7-BV-21	SITE 7	NA	73.351	9.21	26.97	25.16	24.94	24.22	
7-BV-22	SITE 7	NA	76.331	28.61	**26.33**	**26.16**	**26.15**	**26.13**	
7-BV-23	SITE 7	NA	77.158	6.64	30.57	24.82	24.95	23.57	
7-BV-24	SITE 7	NA	74.772	-2.96	24.5	22.64	22.69	21.63	
7-BV-25	SITE 7	NA	73.168	-37	32	31.22	31.54	30.77	
7-BV-26	SITE 7	NA	72.685	-40	34.29	34.3	34.31	34.3	
7-BV-27	SITE 7	NA	74.052	-40	--	--	--	--	DRY
7-BV-28	SITE 7	NA	72.172	-40	--	--	--	--	DRY
7-EW-1	SITE 7 PLUME	B	43.51	-62.27	**-72.83**	**-64.75**	-44.85	**-76.09**	
7-EW-2	SITE 7 PLUME	B	54.13	-63.47	-47.84	-57.89	-54.52	-58.52	
7-HBV-02	SITE 7	NA	72.738	43.67	44.87	--	--	--	DRY
7-HBV-03	SITE 7	NA	75.884	44.07	45.61	44.23	--	--	DRY
7-IW-01	SITE 7 PLUME	B	76.4	-89.35	-17.47	-21.76	-18.49	-22.28	
7-IW-02	SITE 7 PLUME	B	78.53	-86.99	-15.87	-20.06	-17.21	-23.9	
7-IW-03	SITE 7 PLUME	B	79.51	-80.99	-17.11	-21.74	-18.61	-22.34	
7-IW-04	SITE 7 PLUME	B	79.95	-52.75	31.16	16.13	-16.98	--	DRY
7-PZ-23	SITE 7 PLUME	B	80.11	-51.3	-18.74	-22.88	-20.5	-24.8	
7-PZ-24	SITE 7 PLUME	B	78.64	-54.2	-18.31	-22.07	-20.01	-22.99	
7-PZ-25	SITE 7 PLUME	B	80.38	-51.25	-18.12	-22.13	-19.73	-22.93	
7-PZ-26	SITE 7 PLUME	B	78.24	-46.7	-17.81	-21.91	-19.39	-22.97	
7-PZ-37	SITE 7 PLUME	WT	75.8	-22.2	-18.8	-22.02	-20.72	**-22.45**	
7-PZ-37P	SITE 7 PLUME	WTZPERCH	75.63	11	25.21	21.73	21.71	20.33	
7-PZ-38P	SITE 7 PLUME	WTZPERCH	56.99	13.89	26.54	22.39	22.21	20.98	
7-PZ-39	SITE 7 PLUME	C	60.92	-89.98	-21.03	-27.4	-22.12	-28.38	
7-PZ-40	SITE 7 PLUME	C	56.11	-31.84	-23.24	-27.13	-24.39	-27.41	
7-PZ-41	SITE 7 PLUME	C	56.11	-56.84	-23.34	-27.18	-24.46	-27.45	
ACW AT-1	AC&W	C	130.91	-36.73	-22.74	-27.49	-25.59	--	DRY
ACW AT-2	AC&W	C	124.28	-47.6	-28.57	-29.2	-27.72	-27.97	
ACW AT-3	AC&W	C	122.46	-49.46	-9.24	-13.43	-12.08	-14.37	
ACW AT-4	AC&W	D	126.06	-238	-8.69	-14.91	-8.64	-15.45	
ACW EW-1	AC&W	C	125.17	-51.98	-22.43	-30.95	-26.07	-32.83	
ACW EW-2	AC&W	C	122.47	-58.69	-32.28	-30.74	-28.66	-30.78	
ACW EW-3	AC&W	C	125.41	-60.74	-32.18	-33.74	-32.22	-34.28	
ACW EW-4	AC&W	C	115.39	-75.34	-27.11	-35.72	-32.87	-38.87	
ACW EW-5	AC&W	C	114.52	-76.89	-13.23	-18.05	-15.47	-18.7	
ACW EW-6	AC&W	C	128.11	-63.05	-18.59	-22.96	-19.78	-22.95	
ACW EW-6R	AC&W	C	127.97	-58.17	-35.43	-45.25	-37.5	-45.1	
ACW IW-1	AC&W	C	128.23	-47.91	-5.62	-9.86	-8.98	--	Decommissioned May 2009

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
ACW IW-2	AC&W	C	120.16	-56	-10.89	-15.23	-13.36	--	Decommissioned May 2009
ACW IW-3	AC&W	C	122.83	-53.32	-14.12	-19.1	-16.32	--	Decommissioned May 2009
ACW IW-4	AC&W	C	122.79	-58.44	-5.82	-10.5	-9.3	--	Decommissioned May 2009
ACW IW-5	AC&W	C	121.74	-54.42	-11.21	-16.05	-13.96	--	Decommissioned May 2009
ACW IW-6	AC&W	C	113.01	-72.99	-13.31	-17.4	-14.86	--	Decommissioned May 2009
ACW IW-7	AC&W	C	130.16	-51	-7.81	-12.83	-10.81	--	Decommissioned May 2009
ACW IW-8	AC&W	C	130.49	-50.71	-7.08	-13	-11.85	--	Decommissioned May 2009
ACW PZ-01	AC&W	C	109.59	-71.09	-13.06	-17.84	-15.08	-18.62	
ACW PZ-02	AC&W	C	110.23	-69.9	-14.22	-18.93	-16.13	-19.62	
ACW PZ-03	AC&W	C	116.81	-63.42	-15.34	-20.13	-17.28	-20.7	
ACW PZ-04	AC&W	C	108.4	-71.73	-14.09	-19	-16.14	-19.74	
ACW PZ-05	AC&W	C	115.26	-63.04	-14.54	-19.45	-16.47	-20.03	
ACW PZ-06	AC&W	WT/C	121.62	-16.5	-12.73	--	--	--	DRY
ACW PZ-06C	AC&W	C	121.62	-61.5	-12.68	-17.45	-15.14	-18.29	
ACW PZ-07	AC&W	WT/C	127.91	-14.5	-12.24	--	--	--	DRY
ACW PZ-07C	AC&W	C	127.91	-54.5	-12.24	-16.49	-14.67	-17.41	
ACW PZ-08	AC&W	WT/C	123.75	-12	-10.7	--	--	--	DRY
ACW PZ-08C	AC&W	C	123.75	-49	-8.7	-14.18	-11.46	-14.84	
ACW PZ-09	AC&W	WT/C	126.77	-11.2	-8.93	--	--	--	DRY
ACW PZ-09C	AC&W	C	126.77	-46.2	-8.26	-13.23	-12.25	-13.99	
ACW PZ-10	AC&W	WT	129.19	-8.3	-6.41	--	--	--	DRY
ACW PZ-10C	AC&W	C	129.19	-43.3	-6.41	-11.97	-9.34	-12.45	
FFS MW15-6	MBP	D	79.6	-100.4	-14.1	-20.29	-15	-20.38	
MAFB-005	LF04	WT/B	135.21	6.73	19.94	16.88	17.41	16.81	
MAFB-006	MBP	WT/B	98.34	-3.7	8.22	6.43	6.68	5.63	
MAFB-012	MBP	WT/B	96.52	-1.63	6.63	4.37	4.48	3.54	
MAFB-013	MBP	WT/B	92.21	-5.79	3.11	1	1.35	0.1	
MAFB-022	LF05	WT/B	132.67	12.65	--	--	--	--	Decommissioned May 2009
MAFB-026	LF03	WT/B	122.8	24.76	--	--	--	--	Decommissioned May 2009
MAFB-033	MBP	WT/Bu	80.88	-13.12	-9.22	-10.34	-11.59	**-13.88**	
MAFB-034	MBP	WT	81.33	0.33	--	--	--	--	Decommissioned May 2009
MAFB-037	MBP	WT/Bu	78.82	-7.76	--	--	--	--	Decommissioned May 2009
MAFB-039	SITE 7 PLUME	WTZPERCH	75.0	-11.29	27.3	25.98	25.52	25.19	
MAFB-041	SITE 7 PLUME	B	73.64	-47.72	-18.64	-22.24	-20.25	-23.14	
MAFB-042	SITE 7 PLUME	WT/B	74.98	-36.26	-18.44	-21.91	-20.13	-22.8	
MAFB-043	SITE 7 PLUME	C	75.15	-54.76	-17.98	-24.42	-19.76	-25.63	
MAFB-044	SITE 7 PLUME	WTZPERCH	76.3	-6.3	29.3	27.58	26.93	26.43	
MAFB-046	SITE 7 PLUME	WTZPERCH	68.6	-22.95	-0.5	-0.79	-1.32	-1.98	
MAFB-047	MBP	WT/Bu	77.24	-19.07	-13.78	-15.62	-15.05	-17.34	
MAFB-048	MBP	WT	75.63	-15.74	-10.21	-11.74	-13.09	-15.03	
MAFB-050	AC&W	WT/C	124.34	2.22	--	--	--	--	Decommissioned May 2009
MAFB-051	AC&W	WT/C	126.72	0.42	**-3.28**	**-3.69**	**-4.09**	--	Decommissioned May 2009
MAFB-052	AC&W	WT/C	123.78	-2.53	--	--	--	--	Decommissioned May 2009
MAFB-053	AC&W	C	131.33	-46.85	-10.24	-14.73	-13.09	-15.57	
MAFB-054	AC&W	WT/C	118.68	-12.72	-8.62	**-13.52**	-11.58	**-14.41**	
MAFB-056	SITE 7 PLUME	D	74.17	-124.67	-20.03	-26.4	-21.18	-27.39	
MAFB-058	SITE 7 PLUME	D	75.52	-117.14	-19.23	-26.05	-21.01	-22.86	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
MAFB-059	SITE 7 PLUME	B	69.62	-112.47	-20.33	-28.16	-22.71	-29.22	
MAFB-060	MBP	D	77.48	-118.68	-19.34	-28.03	-20.43	-28.54	
MAFB-061	MBP	D	78.43	-126.63	-18.91	-27.77	-19.92	-27.76	
MAFB-062	MBP	D	80.06	-122.08	-18.95	-27.69	-20	-27.43	
MAFB-063	MBP	D	76.09	-120.4	-20.49	-28.18	-21.61	-25.17	
MAFB-064	LF04	D	132.38	-63.62	8.47	0.87	4.73	0.43	
MAFB-065	LF04	D	134.28	-82.63	8.09	0.33	4.37	-0.12	
MAFB-066	MBP	Dd	93.51	-174.52	-10.93	-19.66	-11.51	-19.54	
MAFB-067	AC&W	D	129.41	-82.12	-7.09	-12.98	-10.71	-13.32	
MAFB-068	AC&W	D	131.44	-97.73	-7.32	-13.19	-10.2	-13.53	
MAFB-069	AC&W	D	133.87	-93.13	-6.23	-12.61	-12.96	-12.82	
MAFB-070	AC&W	D	123.6	-80.75	-7.95	-14.09	-10.78	-14.55	
MAFB-071	AC&W	D	131.48	-90.13	-8.25	-14.32	-10.96	-14.87	
MAFB-072	AC&W	D	117.07	-95	-7.33	-13.61	-10.13	-14.25	
MAFB-073	MBP	B	92.76	-40.38	5.1	2.84	3.52	2.31	
MAFB-074	AC&W	WT/C	124.85	-0.25	--	--	--	--	Decommissioned May 2009
MAFB-075	LF04	WT/B	133.42	21.43	22.4	21.57	**21.37**	**21.35**	
MAFB-077	AC&W	WT/C	126.32	-3.38	--	--	--	--	Decommissioned May 2009
MAFB-078	AC&W	D	126.64	-86.11	-8.79	-15.01	-11.4	-15.56	
MAFB-079	AC&W	WT/C	121.44	-6.06	-5.96	-6.01	**-11.11**	--	Decommissioned May 2009
MAFB-080	AC&W	D	121.52	-118.28	-12.22	-18.26	-14.11	-18.36	
MAFB-081	AC&W	WT/C	119.86	-3.14	**-4.91**	**-4.96**	-1.1	--	Decommissioned May 2009
MAFB-082	AC&W	WT/C	122.02	-0.33	0.87	0.71	1.34	0.84	
MAFB-083	AC&W	WT/C	122.62	-0.18	**-2.18**	**-2.52**	**-2.43**	--	Decommissioned May 2009
MAFB-084	AC&W	WT/C	126.1	-1.9	--	--	--	--	Decommissioned May 2009
MAFB-085	MBP	WT/B	75.28	-12.22	**-13.14**	**-13.22**	**-13.29**	--	Decommissioned May 2009
MAFB-086	MBP	WT/B	75.21	-12.22	**-13.46**	**-12.5**	**-12.47**	--	Decommissioned May 2009
MAFB-087	MBP	WT	79.25	-10.33	-10.08	-10.14	-10.15	--	Decommissioned May 2009
MAFB-088	MBP	WT	82.75	-9.55	**-10.29**	**-10.76**	**-10.96**	--	Decommissioned May 2009
MAFB-089	MBP	WT	86.09	-5.12	**-5.31**	**-5.63**	**-5.79**	--	Decommissioned May 2009
MAFB-090	MBP	WT/Bu	82.36	-11.61	-6.74	-8.01	-8.83	-9.84	
MAFB-091	MBP	WT	85.11	-7.91	-7.9	**-8.29**	**-8.17**	--	Decommissioned May 2009
MAFB-092	MBP	WT	84.94	-9.49	-5.52	-7.61	-7.15	--	DRY
MAFB-093	MBP	WT/B	93.38	-8.62	1.17	-1.02	-0.47	-1.92	
MAFB-094	MBP	WT/B	90.41	-16.1	-1.33	-3.52	-3.1	-4.95	
MAFB-095	MBP	WT	87.75	-4.96	-4.3	**-5.92**	**-5.57**	--	Decommissioned May 2009
MAFB-096	MBP	WT/B	92.72	-9.07	0.73	-1.37	-0.93	-2.57	
MAFB-097	MBP	WT/B	90.04	-13.97	-2	-3.97	-3.76	-5.77	
MAFB-099	MBP	WT	84.72	-7.29	-6.91	**-7.98**	**-8.05**	**-7.99**	
MAFB-101	MBP	B	83.61	-50.32	-9.22	-10.47	-11.92	-15.24	
MAFB-102	MBP	D	83.03	-122.45	-16.93	-23.96	-17.82	-24.19	
MAFB-103	MBP	D	74.82	-112.64	-19.25	-27.41	-20.35	-28.14	
MAFB-104	MBP	D	73.72	-137.33	-20.49	-29.32	-21.46	-30	
MAFB-105	MBP	WT	84.47	-7.53	--	--	--	--	Inaccessible; Capped well; part of SVE system

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl)				4th Qtr 2009 Comments
					2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	
MAFB-106	MBP	WT	91.24	-3.06	-1.54	**-3.58**	-2.89	--	Decommissioned May 2009
MAFB-107	MBP	WT/B	96.88	-9.65	9.1	6.54	6.67	5.64	
MAFB-108	MBP	WT/B	94.43	-1.61	-0.29	**-2.19**	**-1.97**	**-2.34**	
MAFB-109	LF03	WT/C	118.15	15.2	28.26	25.63	25.4	24.35	
MAFB-110	LF03	WT/B	113.55	11.9	13.08	--	--	--	DRY
MAFB-111	LF03	WT/B	125.27	4.75	10.15	7.54	7.39	5.42	
MAFB-112	LF03	WT/C	121.09	-4.74	3.55	-1.43	-0.45	-1.75	
MAFB-113	LF05	WT/B	124.31	11.56	**11.17**	**10.81**	**10.46**	--	Decommissioned May 2009
MAFB-115	MBP	WT/B	91.47	-10.46	-0.51	-2.74	-2.18	-3.96	
MAFB-116	MBP	WT/B	89.94	-11.06	-3.51	-5.96	-5.36	-7.78	
MAFB-121	MBP	WT	77.37	-14.83	-13.53	**-14.87**	**-15.08**	--	DRY
MAFB-122	MBP	WT	73.44	-12.58	-9.73	-10.44	-11.59	**-13.02**	
MAFB-123	MBP	WT	77.19	-15.53	-13.54	-15.24	-15.06	**-15.94**	
MAFB-124	MBP	WT	69.69	-15.34	-12.71	-13.88	-14.19	**-15.5**	
MAFB-125	MBP	WT/B	92.46	-5.54	-0.14	-2.24	-1.88	-3.52	
MAFB-126	MBP	WT/B	94.22	-6.78	3.1	0.82	1.08	-0.42	
MAFB-127	LF02	WT/C	117.6	-15.4	-3.88	-8.28	-6.8	-9.7	
MAFB-128	LF02	WT/B	122.28	-5.27	-4.76	**-5.49**	**-5.67**	**-5.57**	
MAFB-129	LF02	WT/C	116.93	-11.07	-3.34	-8.82	-6.42	-9.96	
MAFB-130	LF03	WT/B	112.64	12.21	13.1	**12.11**	**12.08**	**11.96**	
MAFB-131	LF03	WT/B	123.17	-12.89	13.81	12.37	12.41	12.45	
MAFB-132	LF04	WT/B	128.73	-3.71	11.01	5.48	6.55	3.65	
MAFB-133	LF03	WT/B	125.9	-13.1	5.46	-0.03	1.57	-1.44	
MAFB-136	LF04	WT/B	130.69	6.26	13.51	9.99	10.18	8.81	
MAFB-137	LF04	WT/C	131.73	7.2	**6.87**	**6.76**	**6.7**	--	Decommissioned May 2009
MAFB-139	LF05	WT/C	132.69	-1.96	3.65	--	-1.77	--	DRY
MAFB-140	LF05	WT/C	137.9	4.4	10.29	7.07	7.12	5.43	
MAFB-141	LF05	WT/B	136.86	3.4	6.53	**1.91**	**2.28**	**2.06**	
MAFB-142	LF06	WT/C	148.93	-8.7	-7.05	-8.65	-8.54	--	Decommissioned May 2009
MAFB-143	LF06	WT/C	138.50	-21.76	-8.12	-11.5	-9.98	--	Decommissioned May 2009
MAFB-144	LF06	WT/C	131.90	-15.14	-9.13	-12.15	-10.79	--	Decommissioned May 2009
MAFB-148	SITE 7 PLUME	B	77.04	-44.59	-17.16	-20.56	-19.12	-21.32	
MAFB-149	SITE 7 PLUME	WT/B	74.53	-38.07	-19.33	-21	-19.6	-21.81	
MAFB-150	MBP	WT/B	94.02	-6.5	5.43	3.3	3.77	2.8	
MAFB-151	MBP	WT/B	98.71	-3.29	6.17	4.26	3.66	2.01	
MAFB-152	MBP	WT/B	89.8	-11.24	-0.96	-3.16	-2.61	-4.36	
MAFB-154	MBP	WT/B	94.53	-14.47	3.59	1.41	1.96	0.66	
MAFB-155	MBP	WT/B	92.2	-15.8	1.13	-1.02	-1.17	-2	
MAFB-156	MBP	WT	74.95	-17.05	-9.11	-10.74	-11.07	-14.62	
MAFB-157	MBP	WT	74.15	-20.56	-7.89	-8.5	-9.22	-10.81	
MAFB-158	MBP	WT/Bu	79.44	-14.94	-11.17	-13.37	-12.59	-14.36	
MAFB-159	MBP	WT	79.87	-14.27	-12.55	-13.81	-14.09	**-15.39**	
MAFB-160	MBP	WT	84.89	-7.65	**-8.17**	**-8.44**	--	**-8.36**	
MAFB-161	MBP	WT	86.63	-8.6	-7.87	-8.25	-8.33	--	Decommissioned May 2009
MAFB-162	MBP	WT	87.57	-2.48	-0.63	-2.48	-0.02	**-2.58**	
MAFB-163	MBP	WT	91.66	-3.11	-0.82	-2.93	-2.23	**-4.16**	
MAFB-164	MBP	B	76.31	-71.87	-10.22	-11.75	-12.58	-15.01	
MAFB-165	MBP	B	80.95	-65.16	-10.94	-13.47	-13.12	-15.4	
MAFB-166	MBP	B	79.94	-56.82	-12.06	-13.8	-13.87	-16.09	
MAFB-167	MBP	B	78.42	-56.01	-13.89	-15.77	-15.18	-17.49	
MAFB-168	MBP	WT/Bu	75.15	-42.22	-14.91	-16.66	-16.27	-18.79	
MAFB-169	MBP	B	80.35	-61.68	-11.13	-12.27	-13.14	-15.26	
MAFB-170	MBP	B	79.76	-61.29	-11.61	-13.11	-13.81	-15.96	
MAFB-171	MBP	B	79.2	-55.15	-13.36	-15.26	-14.8	-17.01	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
MAFB-172	MBP	WT/Bu	75.35	-34.89	-14.06	-16.89	-15.91	-18.55	
MAFB-173	MBP	B	77.35	-66.26	-14.04	-16.4	-15.66	-18.24	
MAFB-174	MBP	Bu	79.59	-39.07	-12.55	-13.88	-14.11	-15.59	
MAFB-175	MBP	B	73.58	-78.46	-11.08	-12.51	-12.92	-14.3	
MAFB-176	MBP	Bu	76.9	-43.7	-13.55	-15.25	-15.06	-16.69	
MAFB-177	MBP	B	69.72	-82.29	-13.16	-15.18	-16.46	-18.79	
MAFB-178	MBP	D	92.84	-112.16	-11.93	-24.63	-15.08	-23.31	
MAFB-179	MBP	D	97.34	-80.31	-6.08	-13.63	-8.2	-14.03	
MAFB-180	MBP	D	74.87	-112.13	-19.33	-26.56	-20.58	-27.42	
MAFB-181	MBP	D	74.13	-133.58	-20.68	-28.99	-21.58	-30.08	
MAFB-183	SITE 7 PLUME	WT/C	77.58	-14.99	**-15.33**	**-17.86**	**-17.94**	--	Decommissioned May 2009
MAFB-184	SITE 7 PLUME	WTZPERCH	74.71	6.96	27.29	26.54	26.12	26.13	
MAFB-185	SITE 7 PLUME	WTZPERCH	75.62	5.95	29.29	28.9	28.48	28.65	
MAFB-186	MBP	WT	83.25	-5.86	**-7.62**	**-8.05**	**-8.02**	--	Decommissioned May 2009
MAFB-187	MBP	WT	86.74	-6.86	**-7.22**	**-7.35**	-5.31	**-7.27**	
MAFB-188	MBP	WT	85.24	-8.36	-7.77	**-9.52**	**-9.41**	**-9.46**	
MAFB-189	SITE 7 PLUME	WTZPERCH	75.57	6.09	27.57	25.96	25.46	25.08	
MAFB-190	AC&W	WT/C	125.055	-9.95	-9.03	**-12.17**	**-12.12**	--	Decommissioned May 2009
MAFB-191	AC&W	D	125.242	-124.86	-12.76	-19.39	-14.57	-18.84	
MAFB-192	AC&W	WT/C	122.68	-1.32	-0.97	**-2.36**	**-2.17**	--	Decommissioned May 2009
MAFB-193	AC&W	C	125.99	-44.42	-10.46	-15.22	-13.05	-16.04	
MAFB-194	AC&W	C	126.71	-55.96	-13.22	-17.9	-15.63	-18.62	
MAFB-195	AC&W	C	120.4	-58.58	-12.15	-17.66	-14.34	-18.11	
MAFB-196	AC&W	C	122.37	-50.42	-7.95	-13.37	-10.75	-13.94	
MAFB-197	AC&W	WT/C	106.6	-10.88	**-10.97**	**-11.23**	**-12.4**	**-11.66**	
MAFB-198	AC&W	C	106.27	-71.52	-13.9	-19.02	-15.69	-19.53	
MAFB-199	MBP	WT/Bu	79.11	-18.9	-11.17	-13.35	-13.09	-14.95	
MAFB-200	MBP	WT	80.28	-17.8	-13.01	-14.71	-14.44	-16.7	
MAFB-201	MBP	WT/Bu	78.75	-16	-12.29	-14.05	-13.83	-15.8	
MAFB-202	MBP	WT	82.7	-15.5	-12.39	-14.06	-13.98	--	DRY
MAFB-203	MBP	WT	78.76	-16	-13.74	-14.1	-15.27	**-16.49**	
MAFB-204	MBP	WT	83.31	-14.7	-11.08	-12.34	-13.25	--	DRY
MAFB-205	MBP	WT	80.54	-17.6	-10.67	-11.89	-12.94	-15.2	
MAFB-206	MBP	WT	80.62	-13.4	-10.84	-11.95	-12.93	--	DRY
MAFB-207	MBP	WT	79.63	-15.4	-10.78	-11.11	-12.28	-13.99	
MAFB-208	MBP	WT	83.34	-14.6	-11.93	-14.56	-14.43	**-16.16**	
MAFB-209	MBP	WT	82.53	-13.3	-11.56	-13.27	-13.07	--	DRY
MAFB-210	MBP	WT	83.33	-14.8	-11.43	-12.85	-12.88	**-14.91**	
MAFB-211	MBP	WT	78.93	-16.3	-10.25	-10.95	-12.25	-14.59	
MAFB-212	MBP	WT	86.36	-11.6	-8.9	-10.32	-11.03	--	DRY
MAFB-213	MBP	WT	89.13	-4.5	--	--	--	--	Decommissioned May 2009
MAFB-214	MBP	WT	85.53	-9.9	-6.22	-7.54	-7.36	--	DRY
MAFB-215	MBP	B	80.3	-72.8	-13.09	-14.79	-14.53	-16.81	
MAFB-216	MBP	B	78.87	-50.9	-12.95	-14.69	-14.59	-16.71	
MAFB-217	MBP	B	82.17	-55.8	-12.47	-14.13	-13.97	-16.03	
MAFB-218	MBP	B	79.05	-62.9	-12.14	-13.31	-14.01	-15.85	
MAFB-219	MBP	B	83.21	-59.8	-11.06	-12.36	-13.15	-15.42	
MAFB-220	MBP	B	80.67	-62.6	-10.67	-11.92	-12.95	-15.19	
MAFB-221	MBP	Bu	77.01	-33.9	-10.29	-11.81	-12.66	-15.09	
MAFB-222	MBP	B	78.84	-57.1	-10.52	-11.24	-12.42	-15.01	
MAFB-223	MBP	B	80.49	-57.4	-10.87	-11.99	-12.91	-15.11	
MAFB-224	MBP	B	79.38	-62.3	-11.63	-12.91	-13.49	-15.66	
MAFB-225	MBP	B	82.53	-51.4	-11.86	-13.54	-13.21	-15.25	
MAFB-226	MBP	B	82.85	-56.2	-11.53	-13.11	-13.02	-15.33	
MAFB-227	MBP	B	81.72	-56.2	-9.94	-10.96	-11.95	-14.25	
MAFB-228	MBP	B	86.45	-51.7	-8.88	-10.33	-11.03	-13.41	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl)				4th Qtr 2009 Comments
					2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	
MAFB-229	MBP	B	84.21	-45.5	-8.99	-10.33	-10.82	-13.37	
MAFB-230	MBP	B	84.8	-40.9	-7.04	-9.45	-8.78	-11.61	
MAFB-231	MBP	B	85.71	-39.7	-6.71	-8.42	-8.52	-11.19	
MAFB-232	MBP	WT/B	90.15	-19.6	-3.45	-5.61	-5.09	-7.36	
MAFB-233	MBP	WT/B	93.61	-18.5	2.38	0.19	0.73	-0.54	
MAFB-234	MBP	B	89.12	-34.6	-7.38	-7.69	-7.22	-11.55	
MAFB-235	MBP	D	81.9	-91.1	-16.45	-22.57	-17.4	-23.28	
MAFB-239	MBP	D	79.28	-118.8	-19.6	-28.69	-20.64	-29	
MAFB-240	MBP	D	79.4	-123.5	-19.41	-27.87	-20.48	-27.02	
MAFB-241	MBP	D	80.39	-137.5	-18.32	-26.7	-19.12	-26.08	
MAFB-242	MBP	D	78.98	-106	-18.45	-25.49	-19.37	-25.39	
MAFB-243	MBP	D	77.04	-145.6	-18.99	-28.38	-19.83	-27.3	
MAFB-244	MBP	WT	84.67	-11	-7.16	-10.09	-9.59	**-12.41**	
MAFB-245	MBP	WT/Bu	80.73	-8.3	--	--	--	--	Decommissioned May 2009
MAFB-246	MBP	WT/Bu	84.51	-15.5	-9.2	-10.44	-11.24	-13.47	
MAFB-247	MBP	WT/B	79.34	-52.8	-13.28	-15.19	-14.46	-16.85	
MAFB-248	MBP	WT/B	80.69	-44.4	-10.93	-12.54	-12.37	-14.45	
MAFB-249	MBP	B	86.15	-38.8	-7.61	-9.2	-9.3	-11.66	
MAFB-250	MBP	D	85.77	-116.4	-12.94	-19.04	-12.41	-18.75	
MAFB-251	MBP	WT	75.74	-13.2	0.59	-2.53	-2.85	-7.2	
MAFB-253	MBP	WT	91.68	-1.4	--	--	--	--	Decommissioned May 2009
MAFB-254	SITE 7 PLUME	WT/B	78.64	-15.9	-13.51	--	--	--	Decommissioned May 2009
MAFB-255	SITE 7 PLUME	WT/B	77.98	-15.8	--	--	**-17.79**	--	Decommissioned May 2009
MAFB-258	MBP	WT/Bu	71.51	-33.5	-15.14	-18.9	-16.8	-20.29	
MAFB-259	MBP	Bu	71.69	-37	-14.32	-18.7	-16.66	-19.76	
MAFB-260	MBP	Bu	66.378	-41.9	-16.41	-19.44	-18.25	-20.87	
MAFB-261	MBP	Bu	69.03	-51	-14.02	-16.04	-15.55	-17.17	
MAFB-263	MBP	Bu	69.38	-44.6	-13.08	-14.42	-14.4	-15.6	
MAFB-264	MBP	WT/Bu	81.34	-26.1	-9.82	-10.83	-11.82	-14.1	
MAFB-265	MBP	B	84.7	-53.8	-9.2	-10.48	-11.21	-13.48	
MAFB-266	MBP	B	75.44	-77.6	-15.04	-16.68	-16.36	-18.94	
MAFB-267	MBP	B	72.02	-93.7	-20.09	-26.93	-22.83	-28.07	
MAFB-268	MBP	B	69.281	-91.9	-15.91	-19.17	-17.27	-20.59	
MAFB-269	MBP	B	69.04	-96	-14.09	-16.52	-15.9	-18.08	
MAFB-270	MBP	B	65.49	-110.5	-17.87	-21.91	-19.41	-22.9	
MAFB-271	MBP	B	65.2	-93.8	-8.01	-10.72	-9.53	-12.43	
MAFB-272	MBP	B	74.38	-82.1	-7.65	-9.83	-9.42	-12.22	
MAFB-273	MBP	B	75.83	-60.2	-7.17	-9.72	-8.69	-12.05	
MAFB-274	MBP	B	84.88	-45.5	-8	-10.09	-9.68	-12.52	
MAFB-275	NEP/MBP	WT/Bu	82.36	-6.6	--	--	--	--	Decommissioned May 2009
MAFB-276	NEP/MBP	WT/B	86.72	-13.8	-4.25	-6.71	-5.97	-5.46	
MAFB-277	NEP/MBP	WT/B	88.1	-14.4	-4.3	-7.05	-6.12	-8.59	
MAFB-278	NEP/MBP	WT/B	94.04	2	--	--	--	--	DRY
MAFB-280	MBP	B	91.91	-27.1	1.67	-0.55	0	-1.54	
MAFB-281	MBP	B	90.31	-24.7	-0.15	-2.24	-1.74	-3.54	
MAFB-282	MBP	B	86.48	-28.5	-5.02	-6.82	-6.74	-9.07	
MAFB-283	SITE 7 PLUME	B	77.96	-69	-17.49	-21.37	-19.95	-21.91	
MAFB-284	SITE 7 PLUME	B	76.2	-56.7	-18.05	-21.65	-20.01	-10.39	
MAFB-285	SITE 7 PLUME	C	70.8	-49.3	--	-25.85	-21.19	-14.82	Suspect 4Q09 reading
MAFB-288	LF05	B	124.62	-31.3	0.4	-6.68	-3.6	-7.63	
MAFB-289	LF03	WT/B	103.98	10	13.05	11.93	11.41	10.9	
MAFB-290	MBP	D	68.50	-137.8	-16.48	-23.81	-18.98	-25.78	
MAFB-291	MBP	D	74.4	-113.7	-13.85	-20.2	-14.95	-22.78	
MAFB-292	MBP	D	75.86	-114.2	-10.63	-15.59	-12.57	-17.61	
MAFB-293	MBP	D	65.44	-180.6	-25.16	-34.38	-26.6	-34.96	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
MAFB-294	LF05	D	133.3	-79.4	0.65	-7.22	-3.43	-7.75	
MAFB-295	SITE 7 PLUME	D	69.75	-114.2	--	-27.36	-21.72	--	Decommissioned May 2009
MAFB-296	MBP	D	68.19	-106.8	-16.67	-24.05	-19.21	-26.03	
MAFB-297	SITE 7 PLUME	C	39.74	-58.5	--	-4.1	-24.36	-5.78	
MAFB-299	SITE 7 PLUME	B	68.08	-67.1	--	--	--	--	Well decommissioned in 2009
MAFB-300	SITE 7 PLUME	C	67.65	-43	--	--	-22.25	--	Inaccessible
MAFB-301	AC&W	C	125.27	-52.83	-15.13	-19.68	-17.14	-20.22	
MAFB-302	AC&W	C	108.1	-62.55	-14	-18.92	-16.02	-19.65	
MAFB-303	AC&W	C	116.23	-61.86	-12.97	-17.57	-15.04	-18.35	
MAFB-304	AC&W	C	120.8	-49.28	-14.55	-19.53	-16.62	-20	
MAFB-305	AC&W	C	108.85	-66.81	-12.5	-17.12	-14.51	-17.92	
MAFB-306	AC&W	C	124.642	-45.4	-13.96	-18.68	-16.08	-19.25	
MAFB-307	LF02	WT/B	116.61	-1.4	**-1.49**	**-1.59**	**-1.58**	--	Decommissioned May 2009
MAFB-308	MBP	B	81.56	-43.44	-8.58	-10.19	-10.47	-13.04	
MAFB-309	MBP	B	69.56	-90.36	-5.83	-8.78	-7.25	-10.26	
MAFB-310	MBP	B	63.99	-106.08	-7.44	-10.69	-8.82	-11.9	
MAFB-311	MBP	B	59.08	-119.92	-17.07	-21.79	-18.44	-22.21	
MAFB-312	MBP	B	70.21	-139.79	-23.3	-28.39	-24.73	-28.69	
MAFB-313	MBP	B	74.08	-94.92	-13.45	-12.42	-14.86	-17.56	
MAFB-314	MBP	D	81.63	-108.37	-27.87	-34.8	-30.97	-35.5	
MAFB-315	MBP	D	69.54	-139.39	-14.7	-22.67	-17.03	-24.76	
MAFB-316	MBP	D	63.90	-176.14	-17.97	-27.21	-19.87	-28.36	
MAFB-317	MBP	D	59.12	-185.88	-23.05	-31.4	-24.23	-31.81	
MAFB-318	MBP	D	70.43	-184.57	-27.58	-36.72	-29.22	-37.27	
MAFB-319	MBP	D	65.5	-149.55	-19.06	-27.35	-21.42	-28.77	
MAFB-320	MBP	D	81.75	-138.25	-15.08	-22.8	-15.27	-22.26	
MAFB-321	MBP	Dd	65.35	-184.65	-19.69	-34.02	-24.99	-34.86	
MAFB-322	MBP	B	58.86	-129.14	-11.98	-15.68	-13.31	-16.34	
MAFB-323	MBP	B	69.32	-132.68	-22.02	-27.35	-23.52	-27.83	
MAFB-324	MBP	B	65.24	-97.26	-7.67	-10.61	-9.2	-12.17	
MAFB-325	MBP	B	68.59	-96.42	-7.78	-11.33	-9.43	-13.02	
MAFB-326	MBP	D	58.91	-185.09	-19.79	-28.54	-20.9	-29.18	
MAFB-327	MBP	D	69.48	-199.02	-31.32	-39.97	-32.99	-40.44	
MAFB-328	MBP	D	65.23	-134.72	-18.26	-26.92	-20.89	-28.27	
MAFB-329	MBP	D	68.59	-136.36	-15.74	-22.94	-18.28	-25.07	
MAFB-330	MBP	B	70.81	-139.19	-23.69	-28.41	-23.79	-26.76	
MAFB-331	MBP	B	70.99	-139	-24.22	-29.69	-25.76	-30.03	
MAFB-332	MBP	D	70.684	-155.3	-21.84	-31.39	-23.24	-32.05	
MAFB-333	GOLF	WT/C	124.63	-138	-4.3	-7.9	-4.42	--	Decommissioned May 2009
MAFB-334	GOLF	WT/B	124.85	-138	-4	-8.03	-4.45	--	Decommissioned May 2009
MAFB-335	GOLF	WT/C	123.99	-138	-2.61	-8.23	-4.91	--	Decommissioned May 2009
MAFB-336	MBP	D	69.92	-210.13	-27.03	-37	-29.27	-37.77	
MAFB-337	MBP	Dd	58.8	-289.99	-20.98	-30.91	-21.84	-31.24	
MAFB-338	MBP	Dd	65.0	-255	-19.9	-36.79	-27.67	-37.52	
MAFB-339	MBP	WT/B	86.75	-8.85	-4.52	-6.45	-5.61	-8.83	
MAFB-340	MBP	WT/B	89.16	-8.84	-3.46	-5.26	-5.55	-7.78	
MAFB-341	MBP	WT/B	86.96	-11.26	-2.1	-4.04	-4.02	-6.07	
MAFB-342	MBP	WT/B	88.44	-10.3	-2.43	-4.54	-5.12	-6.77	
MAFB-343	MBP	WT/B	87.88	-7.68	-3.84	-5.72	--	-6.67	
MAFB-344	MBP	WT/B	89.65	-8.35	-1.04	-2.87	-2.62	-4.61	
MAFB-345	MBP	Dd	67.86	-325.14	-24.84	-35.18	-25.97	-35.86	
MAFB-346Bd	MBP	Bd	67.89	-132.11	-20.54	-25.14	-21.92	-25.67	
MAFB-346Bs	MBP	Bs	67.89	-80.51	-20.51	-24.93	-21.76	-25.39	
MAFB-346D	MBP	D	67.89	-187.11	-25.17	-34.71	-26.54	-35.41	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl)				4th Qtr 2009 Comments
					2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	
MAFB-347	MBP	LMT	68.73	-432.27	-21.84	-32.22	-22.72	-32.81	
MAFB-348B	MBP	B	68.55	-111.45	-12.64	-15.12	-14.35	-16.78	
MAFB-348Dd	MBP	Dd	68.55	-255.45	-22.05	-33.35	-24.92	-34.08	
MAFB-348Ds	MBP	D	68.55	-181.45	-23.06	-32.07	-25.05	-33.13	
MAFB-349	MBP	LMT	69.8	-375.43	-29.39	-39.02	-30.71	-39.4	
MAFB-350	MBP	LMT	64.94	-381.06	-28.07	-37.71	-29.34	-38.01	
MAFB-351Bd	MBP	B	64.61	-153.39	-20.88	-26.3	-22.33	-26.74	
MAFB-351Bs	MBP	B	64.61	-76.89	-17	-20.25	-18.27	-20.39	
MAFB-351D	MBP	D	64.61	-201.39	-28.54	-37.29	-30.24	-37.63	
MAFB-352D	MBP	Dd	67.67	-238.33	-18.92	-30.91	-21.71	-31.22	
MAFB-352LM	MBP	LMT	67.67	-392.33	-19.78	-30.17	-19.74	-29.98	
MAFB-353	MBP	LMT	68.33	-371.67	-26.7	-36.89	-29.1	-37.4	
MAFB-354B	MBP	B	68.22	-146.78	-22.61	-28.36	-24.18	-28.72	
MAFB-354D	MBP	D	68.22	-231.78	-26.39	-36.27	-29.55	-36.7	
MAFB-355B	MBP	B	54.6	-143.4	-21.44	-27.33	-22.76	-27.62	
MAFB-355D	MBP	D	54.6	-238.7	-25.1	-33.44	-27.26	-33.81	
MAFB-356B	MBP	B	67.58	-148.42	-23.4	-29.96	-25.51	-30.13	
MAFB-356Dd	MBP	Dd	67.58	-294.42	-26.92	-38.72	-31.48	-39.54	
MAFB-356Ds	MBP	Ds	67.58	-242.42	-26.82	-38.61	-31.54	-39.47	
MAFB-357D	MBP	D	89.43	-90.57	-10.18	-15.87	-10.88	-22.56	
MAFB-357Dd	MBP	Dd	89.44	-180.57	-13.97	-23.27	-13.65	-21.81	
MAFB-357Ds	MBP	Ds	89.44	-130.57	-13.54	-22.31	-13.32	-17.06	
MAFB-358B	MBP	B	88.61	-47.4	-4.13	-6.19	-10.55	-7.87	
MAFB-358D	MBP	D	88.61	-92.4	-11.73	-17.49	-12.18	-17.59	
MAFB-359	MBP	WT/Bu	77.84	-37.07	-14.45	-16.25	-15.88	-18.05	
MAFB-360	MBP	B	80.45	-73.75	--	--	--	--	A rock is lodged in the well
MAFB-361	MBP	B	77.55	-57.65	-12.81	-14.64	-14.49	-16.7	
MAFB-362	MBP	B	80.44	-66.66	-11.01	-12.3	-13.07	-15.39	
MAFB-363	MBP	B	78.64	-69.16	-10.58	-11.96	-12.93	-15.23	
MAFB-364B	MBP	B	74.47	-85.53	-12.78	-14.67	-14.64	-17	
MAFB-364D	MBP	D	74.47	-128.53	-21.04	-30.21	-22.02	-30.89	
MAFB-365B	MBP	B	72.61	-92.5	-11.87	-13.42	-13.68	-16.03	
MAFB-365D	MBP	D	72.61	-137.5	-21.15	-30.31	-22.23	-30.98	
MAFB-366B	MBP	B	69.28	-90.72	-9.37	-11.13	-11.27	-12.93	
MAFB-366D	MBP	D	69.28	-120.72	-19.59	-27.26	-19.82	-28.94	
MAFB-367	MBP	D	70.42	-155.08	-21.25	-29.83	-22.67	-31.14	
MAFB-368B	MBP	B	67.13	-112.87	-19.22	-23.28	-21.17	-24.45	
MAFB-368D	MBP	D	67.13	-182.87	-25.62	-35.08	-27.18	-35.63	
MAFB-369	MBP	D	69.72	-148.28	-22.07	-31.42	-23.62	-32.24	
MAFB-370	SITE 7 PLUME	C	44.47	-67.06	-22.28	-28.88	-23.76	-30.45	
MAFB-371C	SITE 7 PLUME	C	43.84	-61.62	-23.15	-29.65	-24.5	-31.03	
MAFB-371D	SITE 7 PLUME	D	43.84	-109.62	-22.83	-29.58	-24.01	-31.13	
MAFB-372B	SITE 7 PLUME	B	46.74	-59.71	-23.25	-28.69	-24.2	-30.86	
MAFB-372D	SITE 7 PLUME	D	46.74	-91.71	-23.12	-29.46	-24.01	-30.83	
MAFB-373C	SITE 7 PLUME	C	47.10	-57.56	-24.34	-29.48	-24.51	-30.69	
MAFB-373D	SITE 7 PLUME	D	47.10	-97.56	-23.54	-29.25	-23.76	-30.64	
MAFB-374	MBP	D	90.78	-93.676	-11.2	-18.03	-10.98	-17.62	
MAFB-375	MBP	D	67.614	-112.386	-16.61	-22.64	-17.75	--	Inaccessible; well paved over during gauging event - rehabilitation of the well is described in Table 2-7
MAFB-376	MBP	D	56.174	-133.826	-17.09	-24.84	-17.67	-25.45	
MAFB-377	MBP	D	75.14	-124.9	-21.68	-30.71	-22.56	-31.48	
MAFB-378B	MBP	B	81.48	-42.52	-6.67	-9.41	-8.1	-11.44	
MAFB-378D	MBP	D	81.48	-98.52	-14.41	-20.01	-11.7	-19.27	
MAFB-379B	MBP	B	69.421	-90.579	-9.47	-12.35	-11.24	-14.79	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
MAFB-379D	MBP	D	69.421	-150.579	-18.46	-28.94	-17.98	-29.24	
MAFB-380B	MBP	B	66.201	-108.299	-9.34	-11.36	-11.05	-13.56	
MAFB-380D	MBP	D	66.201	-151.799	-20.23	-28.5	-22	-29.97	
MAFB-381B	MBP	B	72.72	-80	-15.98	-18.98	-17.67	-20.28	
MAFB-381D	MBP	D	72.72	-175	-24.99	-34.56	-26.36	-35.17	
MAFB-382B	MBP	B	69.13	-100.87	-21.95	-26.47	-22.86	-26.76	
MAFB-382D	MBP	D	69.13	-185.87	-25.78	-35.32	-27.43	-36.42	
MAFB-383B	MBP	B	75.636	-79.364	-15.84	-20.23	-17.91	-21.57	
MAFB-383D	MBP	D	75.636	-144.364	-20.97	-29.63	-22.77	-30.63	
MAFB-384B	MBP	WT/B	87.76	-18.24	-1.38	-3.6	-3.13	-5.22	
MAFB-384D	MBP	D	87.76	-87.24	-9.45	-15.61	-10.16	-15.79	
MAFB-385B	MBP	B	62.322	-119.678	-10.15	-13	-11.61	-14.4	
MAFB-385D	MBP	D	62.322	-169.678	-20.04	-30.1	-22.57	-30.93	
MAFB-386B	MBP	B	69.73	-110.597	-21.12	-26.48	-22.25	-27.29	
MAFB-386D	MBP	D	69.73	-190.597	-25.21	-34.03	-26.21	-35.57	
MAFB-387B	MBP	B	70.11	-139.749	-22.41	-28.11	-23.94	-28.42	
MAFB-387Dd	MBP	Dd	70.11	-269.749	-26.41	-37.19	-29.97	-37.66	
MAFB-387Ds	MBP	Ds	70.11	-224.749	-26.14	-36.51	-29.72	-36.99	
MAFB-388B	MBP	B	62.771	-142.229	-22.35	-28.08	-23.94	-28.4	
MAFB-388Dd	MBP	Dd	62.771	-277.229	-26.48	-36.5	-28.85	-36.93	
MAFB-388Ds	MBP	Ds	62.771	-232.229	-26.37	-35.66	-28.95	-35.99	
MAFB-389	LF	WT/B	96.992	-21.16	-6.61	-11.51	-9.37	-12.67	
MAFB-390	LF	WT/B	93.504	-24.376	-8.4	-13.29	-10.84	-14.31	
MAFB-391	SITE 7 PLUME	C	74.68	-43.12	-19.12	-23.89	-20.78	-24.65	
MAFB-392	SITE 7 PLUME	C	56.99	-36.11	-17.88	-21.53	-19.87	-22.39	
MAFB-393	SITE 7 PLUME	C	56.17	-32.23	-20.98	-25.79	-22.24	-25.17	
MAFB-394	SITE 7 PLUME	C	55.17	-32.13	-24.39	-27.29	-25.19	-27.81	
MAFB-395	SITE 7 PLUME	C	58.83	-37.57	-19.71	-23.59	-21.21	-24.4	
MAFB-396	SITE 7 PLUME	B	60.92	-46.98	-19.67	-23.55	-21.16	-24.38	
MAFB-397	MBP	Dd	81.26	-164	-16.41	-25.86	-11.42	-23.03	
MAFB-398	NEPLUME	WT/B	126.57	1.3	16.24	14.86	14.54	13.42	
MAFB-398C	NEPLUME	C	126.57	-36.2	5.5	0.07	2.21	-1.28	
MAFB-399	NEPLUME	C	123.2	-39.7	2.46	-3.45	-1.22	-4.82	
MAFB-400	NEPLUME	C	132.19	-25.8	4.93	-3.45	0.66	-3.97	
MAFB-401	AC&W	WT/C	128.44	-9.2	--	**-9.29**	-8.38	**-9.29**	
MAFB-402	AC&W	WT/C	135.66	-12	-6.18	-10.1	-9.37	-11.07	
MAFB-403	AC&W	WT/C	132.21	-10.7	-6.54	-10.31	-9.69	**-10.94**	
MAFB-404	MBP	WT/B	89.35	-17.7	-3.19	-5.44	-5.2	-7.35	
MAFB-405	MBP	WT/B	88.28	-20	-3.92	-5.97	-5.85	-8.21	
MAFB-406	MBP	WT/B	81.42	-16.58	-7.41	-9.97	-8.69	-10.72	
MAFB-407	MBP	WT/Bu	85.57	-15	-6.29	-8.04	-8.2	-10.78	
MAFB-408	AC&W	WT/C	126.99	-10	-3.07	-7.79	-6.84	-9.03	
MAFB-409	NEPLUME	WT/B	80.66	-19.5	-8.81	-10.88	-9.46	-11.4	
MAFB-410	MBP	WT/A	84.49	-18.5	-9.55	-10.69	-11.68	-14.06	
MAFB-411	MBP	WT/B	79.674	-23.326	-10.97	-13.77	-11.99	-14.61	
MAFB-412	MBP	WT/B	82.818	-21.182	-12.11	-16.16	-13.63	-16.7	
MAFB-413	MBP	WT/B	78.083	-25.917	-17.87	-21.34	-19.97	-22.06	
MAFB-414	MBP	WT	84.684	-18	-10.06	-11.35	-11.88	-14.42	
MAFB-415	MBP	WT/B	87.61	-25.39	-4.02	-5.96	-6.39	-8.74	
MAFB-416	MBP	WT/B	88.44	-18.56	-1.37	-3.51	-3.02	-5.11	
MAFB-417	MBP	WT/B	82.66	-28.94	-12.57	-14.3	-13.93	-16	
MAFB-418	MBP	WT	81.67	-26.91	-11.99	-13.01	-13.87	-15.44	
MAFB-419	MBP	WT/B	84.62	-19.38	-7.85	-9.67	--	--	Inaccessible; Connected to SVE system
MAFB-420	MBP	WT	80.81	-29.19	-12.59	-13.84	-14.56	-16.11	
MAFB-421	MBP	WT/B	84.88	-23.12	-6.87	-8.43	-8.66	-11.1	
MAFB-422	MBP	WT/Bu	82	-27	-9.9	-11.51	-11.13	-13.2	
MAFB-423	MBP	WT/Bu	78.52	-36.64	-12.7	-14.81	-13.86	-16.24	
MAFB-423B	MBP	B	78.52	-89.81	-15.65	-22.49	-16.73	-23.17	
MAFB-424	SITE 7 PLUME	WT/C	80.54	-26.46	-14.81	-16.8	-16.2	-17.43	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl)				4th Qtr 2009 Comments
					2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	
MAFB-425	MBP	WT	69.57	-32.43	-15.13	-19.4	-17.09	-20.74	
MAFB-426	MBP	B	64.86	-145.14	-22.77	-28.52	-24.38	-28.82	
MAFB-427	MBP	B	66.62	-143.38	-22.45	-28	-24.13	-28.36	
MAFB-428	MBP	WT/B	88.53	-22.47	-8	-9.83	-9.72	-12.4	
MAFB-429Bd	MBP	Bd	70.86	-107.14	-19.66	-27.54	-22.36	-28.62	
MAFB-429Bs	MBP	Bs	70.86	-77.14	-19.54	-27.45	-22.37	-28.54	
MAFB-429Bu	MBP	WT/Bu	70.86	-44.14	-19.56	-27.49	-22.37	-28.53	
MAFB-430	MBP	LMT	80.55	-193.46	-15.55	-25.27	-14.26	-23.68	
MAFB-431Bd	MBP	Bd	69.79	-114.5	-19.98	-30.82	-26.32	-32.6	
MAFB-431Dd	MBP	Dd	69.79	-169.356	-21.43	-30.06	-24.01	-31.58	
MAFB-431Ds	MBP	Ds	69.79	-145.38	-21.41	-30.08	-24.05	-31.62	
MAFB-432	AC&W	WT/C	126.47	-26.57	-13.1	-17.73	-15.41	-18.49	
MAFB-433	AC&W	WT/C	112.84	-32.16	-13.98	-19.13	-15.92	-19.69	
MAFB-434Bd	MBP	Bd	69.79	-117.01	-20.74	-29.07	-24.26	-30.5	
MAFB-434Bs	MBP	Bs	69.79	-91.01	-20.53	-28.59	-23.91	-29.95	
MAFB-434Bu	MBP	WT/Bu	69.79	-53.01	-19.69	-27	-22.49	-28	
MAFB-435	MBP	Dd	74.75	-185.25	-18.38	-27.8	-19.1	-27.92	
MAFB-437Dd		Dd	66.78	-263.22	-19.55	-31.54	-22.49	-32.02	
MAFB-437Ds		Ds	66.78	-143.22	-19.17	-26.97	-20.82	-28.69	
MAFB-439		WT	86.20	-21.8	--	-10.06	-10.13	-12.68	
MAFB-440		WT	78.17	-30.1	--	-19.9	-17.43	-20.61	
MAFB-440P		WTZPERCH	78.17	14.9	--	27.81	27.56	27.88	
MAFB-441		D	79.93	-139.1	--	-22.44	-16.28	-22.95	
MAFB-442		D	83.33	-198.7	--	-26.24	-16.65	-25.5	
MAFB-443		D	70.46	-205.6	--	-36.29	-29.08	-36.99	
MAFB-444		B	55.65	-50.1	--	-24.43	-21.82	-25.22	
MAFB-445		B	48.12	-58.9	--	-25.14	-22.3	-25.98	
MAFB-446		C	50.17	-52.9	--	-26.08	-22.41	-26.95	
MAFB-447		C	44.71	-58.2	--	-26.23	-22.15	-27.3	
MAFB-448		B	49.34	-54.1	--	-25.69	-22.64	-26.56	
MAFB-449Bd		Bd	52.72	-84.7	--	-29.2	-23.43	-30.67	
MAFB-449Bs		Bs	52.72	-120.7	--	-28.74	-23.24	-30.23	
MAFB-450		WT/Bu	75.43	-42	--	-18.2	-16.37	-19.46	
MAFB-451		B	71.41	-73.7	--	--	-17.69	-21.64	
MAFB-452B		B	74.41	-78.7	--	--	-16.51	-19.5	
MAFB-452Bu		WT/Bu	74.41	-35.7	--	--	-16.34	-19.07	
MAFB-453		WT	122.16	-22.9	--	--	-11.13	-13.09	
MAFB-453C		C	122.16	-50.9	--	--	-10.07	-13.48	
MAFB-454		WT	125.71	-24.5	--	--	-8.81	-16.25	
MAFB-454C		C	125.71	-48.5	--	--	-8.81	-16.24	
MAFB-455		WT	119.67	-30.3	--	--	-16.48	-19.94	
MAFB-456		WT	124.32	-53.7	--	--	-16.6	-19.71	
MAFB-456C		C	124.32	-28.7	--	--	-16.59	-19.76	
MAFB-457Bd		Bd	44.08	-131	--	--	-24.62	-31.8	
MAFB-457Bs		Bs	44.08	-95	--	--	-23.47	-30.3	
MAFB-458Bd		Bd	37.66	-132.3	--	--	-23.99	-31.19	
MAFB-458Bs		Bs	37.66	-95.3	--	--	-23.35	-29.95	
MAFB-459D		D	62.99	-212	--	--	-30	-37.13	
MAFB-459Dd		Dd	62.99	-267	--	--	-28.95	-37.09	
MBS 19EW01	MBP	B	84.37	-146	-8.06	-9.53	-9.88	-12.49	
MBS 19MW01	MBP	Bu	83.9	-43.8	-8.85	-10.39	-10.9	-13.26	
MBS 19MW02	MBP	Bu	82.89	-43.8	-8.98	-10.47	-11.05	-13.39	
MBS 19MW03	MBP	D	83.28	-109.6	-23.75	-30.64	-25.97	-31.37	
MBS 19MW04	MBP	D	83.06	-109.4	-20.72	-27.17	-22.36	-28.06	
MBS 39ABuB	MBP	WT/B	80.82	-38.42	-19.93	-8.08	-21.64	-36.36	
MBS 39EW02	MBP	B	88.682	-38.02	-9.3	-8.14	-7.9	-10.3	
MBS 39MW01	MBP	WT	85.5	-95	-7.56	-8.54	-9.7	--	Inaccessible
MBS 39MW02	MBP	WT	85.51	-95	-7.6	-8.69	-9.32	--	Inaccessible
MBS 39MW03	MBP	Bu	85.3	-118	-7.95	-8.83	-9.74	-12.22	
MBS 39MW04	MBP	Bu	85.4	-155	-7.48	-8.77	-9.28	-11.85	
MBS EW-10B	MBP	B	65.11	-110.38	-13.06	-14.79	-20.12	-22.69	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl) 2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	4th Qtr 2009 Comments
MBS EW-11B	MBP	B	63.49	-121.95	-30.16	-33.46	-32.68	-36.41	
MBS EW-12AB	MBP	WT/B	84.36	-41.43	-3.03	55.26	-8.44	-13.31	
MBS EW-12B	MBP	B	66.95	-144.52	-33.26	-40.04	-25.85	--	Measurement error
MBS EW-13BuB	MBP	Bu	71.32		-15.78	-34.96	-30.63	-32.88	
MBS EW-1A	MBP	WT	81.93	-5.27	-4.87	**-6.47**	**-7.83**	**-8.26**	
MBS EW1ABu	MBP	WT/Bu	81.0	-30.63	-14.57	-16.06	-16.3	-18.55	
MBS EW-1B	MBP	B	76.27	-63.3	-33.17	-8.95	-24.3	-38.51	
MBS EW-1Bu	MBP	WT/Bu	75.23	-29.56	-19.68	-22.37	-19.95	-19.21	
MBS EW-1D	MBP	D	83.87	-104.5	-58.59	-69.73	-67.59	-72.08	
MBS EW-2A	MBP	WT	74.53	-17.37	--	--	-15.12	--	Well is attached to Site 57 SVE system; no DTW possible
MBS EW2ABu	MBP	WT/Bu	75.62	-34.96	-21.38	-21.83	-22.81	-24.03	
MBS EW-2AR	MBP	WT/A	77.77	-40.23	-20.53	--	-22.21	-26.77	
MBS EW-2B	MBP	B	78.58	-79.33	-56.76	-6.36	-50.03	-65.15	
MBS EW-2Bu	MBP	Bu	73.92	-34.77	-12.53	-14.35	-21.03	-23.1	
MBS EW-2D	MBP	D	75.43	-145.11	-32.89	-40.06	-35.27	-43.3	
MBS EW-3A	MBP	WT	75.54	-16.27	--	--	--	--	DRY
MBS EW-3B	MBP	B	76.39	-84.07	-9.51	-10.86	-13.99	-16.2	
MBS EW-3Bu	MBP	Bu	74.38	-35.89	-11.1	-14.05	-15.82	-18.21	
MBS EW-3D	MBP	D	79.416	-125.204	-91.23	-101.63	-88.38	-107.76	
MBS EW-4A	MBP	WT/B	82.13	-29.89	-3.12	-5.17	-5.21	-7.43	
MBS EW4ABu	MBP	WT/Bu	74.21	-35.72	-22.89	-24.54	-26.35	-26.86	
MBS EW-4B	MBP	B	76.59	-74.84	-10.57	-11.68	-16.02	-19.45	
MBS EW-4Bu	MBP	WT/Bu	76.36	-50.94	-19.96	-20.74	-16.7	-19.58	
MBS EW-4D	MBP	D	82.06	-103.72	-83.44	-89.66	-79.14	-88.28	
MBS EW-5A	MBP	WT/B	83.45	-30.41	-3.14	-4.66	-4.8	-7.16	
MBS EW5ABu	MBP	WT/Bu	73.79	-36.96	-23.71	-26.46	-26.81	-16.47	
MBS EW-5B	MBP	B	65.88	-95.72	-25.02	-12.19	-21.92	-28.04	
MBS EW-5D	MBP	D	68.16	-142.17	-34.84	-34.35	-36.09	-45.03	
MBS EW6ABu	MBP	WT	81.75	-42.219	-10.64	-11.84	-18.43	-20.93	
MBS EW-6B	MBP	B	68.84	-115.91	-21.08	-12.59	-20.12	-22.33	
MBS EW-6D	MBP	D	63.51	-181.07	-43.11	-51.84	-46.33	-53.7	
MBS EW7ABu	MBP	WT/Bu	85.57	-35.43	-4.93	-2.86	-12.12	--	DTW probe obstructed
MBS EW-7B	MBP	B	77.297	-87.703	-12.98	-14.2	-16.91	-20.47	
MBS EW-8B	MBP	B	67.53	-63.3	-10.09	-11.59	-10.85	-16.68	
MBS EW-9B	MBP	B	76.53	-85.42	-33.32	-16.83	-25.22	-32.68	
MBS IW-501	MBP	LMT	87.06	-315.29	51.96	25.54	57.23	33.69	
MBS IW-502	MBP	LMT	86.57	-325.95	56.8	40.02	37.32	43.6	
MBS IW-503	MBP	LMT	85.54	-326.31	50.44	--	27.89	31.82	
MBS IW-504	MBP	LMT	81.21	-378.79	11.63	11.64	11.62	11.81	
MBS PZ-01	MBP	WT	79.27	-14.2	-11.81	-12.99	-13.96	--	DRY
MBS PZ-02	MBP	WT	79.97	-14.4	-12.99	-14.34	--	--	Decommissioned May 2009
MBS PZ-03	MBP	WT	81.1	-13.4	-11.85	-13.04	**-13.55**	--	Decommissioned May 2009
MBS PZ-04	MBP	WT	80.14	-14.4	-11.07	-11.65	-12.29	-14.38	
MBS PZ-05	MBP	B	78.87	-58.5	-10.57	-11.75	-12.5	-15.02	
MBS PZ-06	MBP	B	79.85	-57.6	-10.65	-11.72	-12.59	-15.02	
MBS PZ-07	MBP	B	83.48	-61.1	-13.8	-12.07	-15.32	-18.8	
MBS PZ-08	MBP	B	84.41	-70.1	-10.53	-11.19	-12.1	-15.1	
MBS PZ-09	MBP	B	87.47	-31.4	-4.29	-6.21	-6.63	-8.68	
MBS PZ-10	MBP	B	87.7	-31.3	-4.16	-6.21	-6.4	-8.7	
MBS PZ-11	MBP	B	61.79	-65.7	-9.2	-10.99	-11.06	-13.66	
MBS PZ-12	MBP	LMT	84.48	-305.2	-11.84	-22.72	-7.27	-18.4	
MBS PZ-13	MBP	Dd	83.33	-176	-12.74	-22.62	-10.1	-19.07	
MBS PZ-14	MBP	LMT	83.0	-301.4	-10.98	-22.34	-6.79	-16.54	
MBS PZ-15	MBP	LMT	81.67	-300.8	-11.5	-22.42	-5.78	-15.85	

TABLE 2-2

SITEWIDE GROUNDWATER-LEVEL CALCULATIONS
FOURTH QUARTER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 12)

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl)				4th Qtr 2009 Comments
					2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009	
MBS PZ-16	MBP	B	82.16	-57.4	-8.78	-10.36	-10.09	-13.2	
MBS PZ-17	MBP	D	76.86	-133.5	-22.85	-31.01	-23.96	-27.53	
MBS PZ-18	MBP	D	77.02	-132.2	-17.41	-24.42	-18.39	-25.39	
MBS PZ-19	MBP	WT	82.06	-25.4	-12.96	-14.66	-14.86	-16.93	
MBS PZ-20	MBP	Bu	79.42	-31.6	-14.05	-14.95	-15.4	-17.67	
MBS PZ-21	MBP	WT/Bu	76.43	-25.3	-14.93	-16.76	-16.06	-18.42	
MBS PZ-22	MBP	WT/Bu	77.43	-26	-14.78	-16.61	-16.04	-18.38	
MBS PZ-37	MBP	B	73.32	-106.68	-11.64	-12.74	-13.58	-9.72	
MBS PZ-38	MBP	B	73.68	-93.32	-10.92	-12.04	-12.67	-15.04	
MBS PZ-39	MBP	B	70.86	-87.14	-10.19	-11.59	--	-14.38	
MBS PZ-40	MBP	B	71.37	-65.63	-9.34	-11.03	-11.41	-13.93	
MBS PZ-41	MBP	B	74.05	-61.45	-9.98	-11.39	-12.27	-14.61	
MBS PZ-42D	MBP	B	71.37	-105.63	-10.24	-11.7	-11.98	-14.7	
MBS PZ-42S	MBP	B	71.37	-49.63	-10.16	-11.66	-11.91	-14.55	
MBS PZ-43	MBP	B	77.93	-65	-9.69	-11.04	-11.98	-14.32	
MBS PZ-44	MBP	B	77.63	-33.37	-12.87	-14.63	-14.33	-16.45	
MBS PZ-46	MBP	B	79.2	-40.3	-12.92	-13.82	-14.7	-15.56	
MBS PZ-47	MBP	B	79.82	-40.4	-11.74	-12.88	-13.73	-15.56	
MBS PZ-48D	MBP	B	82.15	-83.2	-15.43	-20.05	-16.92	-22.03	
MBS PZ-48S	MBP	B	82.15	-48.2	-9.19	-10.49	-11.75	-14.02	
MBS PZ-49D	MBP	LMT	80.29	-295.71	-11.16	-22.26	-5.31	-16.15	
MBS PZ-49S	MBP	B	80.29	-56.71	-8.24	-10.29	-10.06	-12.76	
MBS PZ-50D	MBP	LMT	83.48	-308.52	-12.71	-23.64	-8.59	-19.29	
MBS PZ-50S	MBP	Dd	83.48	-91.52	-8.77	-11.9	-10.12	-13.7	
MBS PZ-51	MBP	D	81.012	-103.638	-18.12	-24.58	-19.1	-24.98	
MBS PZ-52	MBP	D	85.955	-100.435	-9.75	-11.75	-11.31	-14.55	
MBS PZ-53	MBP	D	85.925	-116.765	-11.63	-17.75	-11.51	-17.48	
MBS PZ-54	MBP	D	80.375	-105.625	-12.97	-18.68	-12.66	-18.81	
MBS PZ-55B	MBP	B	76.39	-78.7	-14.65	-16.59	-15.85	-18.31	
MBS PZ-55Bu	MBP	Bu	76.39	-36.7	-14.81	-16.69	-15.81	-18.28	
MBS PZ-57B	MBP	B	87.48	-37.2	-6.64	--	--	--	Possible obstruction in well at 95.40 ft bgs - mud on end of Solinst
MBS PZ-57D	MBP	D	90.37	-93.57	-10.56	-16.14	--	-16.48	
MBS PZ-58	MBP	D	71.06	-109.23	-20.45	-27.93	--	-29.7	
MBS PZ-59	MBP	WT/A	67.98	-23.94	-14.48	-16.57	--	-17.64	
MBS PZ-59B	MBP	B	67.98	-97.02	-14.58	-17.12	--	-18.5	

Notes:

AC&W - Aircraft Control and Warning Plume
Bu - Unit B (upper)
Dd - Unit D (deep)
Ds - Unit D (shallow)
DPE - Dual Phase Extraction Well
ft. msl - Feet in Mean Sea Level
GOLF - Golf Course Area
LF - Landfill/Northeast Plume
LMT - Laguna-Mehrten Transition
MBP - Main Base/SAC Plume
NA - not available, inaccessible
NEP - Northeast Plume
TA - Temporarily Abandoned
topc - top of protective casing
WT - Water Table
WTZPERCH - Perched water zone

TABLE 2-3

FIRST QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																					Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-PTE	02/04/09	● (biweekly)				● (biweekly)	●				●	●											
7-PTI	02/04/09	●				●	●				●	●											
7-PZ-37	01/26/09	●				●	●								●								
7-PZ-37P	01/28/09	●				●	●									●							
ACW PTE	02/04/09	● (biweekly)					●				●	●								●			
ACW PTI	02/04/09	●									●	●											
ACW PZ-05	01/30/09		●																				
ACW R2	02/04/09		●																				
MAFB-083			NS																				Well was dry
MAFB-111	02/03/09																	●					
MAFB-112																		NS					Well was dry
MAFB-129	02/03/09																	●					
MAFB-132	01/28/09		●										●	●									
MAFB-133	01/26/09		●										●	●									
MAFB-136	01/29/09		●										●	●									
MAFB-140																	NS						Well was dry
MAFB-149	01/28/09		●			●	●																
MAFB-183														NS					NS				Well was dry
MAFB-271	01/27/09			●																			
MAFB-284	01/28/09	●				●	●																
MAFB-288	02/03/09																	●					
MAFB-293	01/26/09		●																				
MAFB-318	01/26/09		●																				
MAFB-319	01/27/09			●																			
MAFB-321	01/27/09			●																			
MAFB-322	01/27/09			●																			
MAFB-324	01/27/09			●																			
MAFB-326	01/27/09			●																			
MAFB-328	01/27/09			●																			
MAFB-337	02/03/09			●																			
MAFB-338	01/27/09			●																			
MAFB-354B	01/26/09		●																				
MAFB-354D	01/26/09		●																				
MAFB-378B	01/26/09		●																				
MAFB-378D	01/26/09		●																				
MAFB-388Ds	01/26/09		●																				
MAFB-397	02/09/09		●																				
MAFB-400	02/03/09																	●					
MAFB-413	01/28/09	●				●	●								●								
MAFB-424	01/28/09	●											●	●					●				
MAFB-426	01/26/09		●																				
MAFB-432	01/30/09	●																					
MAFB-433	01/30/09	●																					
MAFB-434Bd	02/09/09	●																					
MAFB-434Bs	02/09/09	●																					
MAFB-434Bu	02/09/09	●																					
MAFB-435	02/09/09	●																					
MAFB-437Dd	02/09/09	●																					
MAFB-437Ds	02/09/09	●																					
MAFB-438	02/09/09	●																					
MAFB-439	01/30/09	●				●	●								●								
MAFB-440	01/26/09	●						●															
MAFB-440P	01/26/09	●						●															
MAFB-441	02/03/09	●																					
MAFB-442	01/26/09	●																					
MAFB-443	01/26/09	●																					
MAFB-444	01/30/09	●																					
MAFB-445	01/30/09	●																					

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TABLE 2-3

FIRST QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																					Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
MAFB-446	01/30/09	●																					
MAFB-447	01/30/09	●																					
MAFB-448	01/30/09	●																					
MAFB-449Bd	01/30/09	●																					
MAFB-449Bs	01/30/09	●																					
MAFB-450	01/30/09	●																					
MAFB-451	02/03/09	●																					
MAFB-452B	03/25/09	●																					
MAFB-452Bu	03/25/09	●																					
MAFB-453	03/24/09	●																					
MAFB-453C	03/24/09	●																					
MAFB-454	03/24/09	●																					
MAFB-454C	03/24/09	●																					
MAFB-455	03/24/09	●																					
MAFB-456	03/24/09	●																					
MAFB-456C	03/24/09	●																					
MAFB-457Bd	01/30/09	●																					
MAFB-457Bs	01/30/09	●																					
MAFB-458Bd	01/30/09	●																					
MAFB-458Bs	01/30/09	●																					
MAFB-459D	01/30/09	●																					
MAFB-459Dd	01/30/09	●																					
MBS EW-13BuB	03/24/09	●																					
MBS PTE AF	02/04/09	● (biweekly)				●	●				●			●						●		●	
MBS PTI	02/04/09	●				●	●				●			●								●	
OFB-04	01/27/09			●																			
OFB-04M	01/27/09			●																			
OFB-27	01/27/09			●																			
OFB-31	01/27/09			●																			
OFB-32	01/27/09			●																			
OFB-49	01/27/09			●																			
OFB-51	01/27/09			●																			
OFB-51/52E	01/27/09			●																			
OFB-51/52I	01/27/09			●																			
OFB-51/52M	01/27/09			●																			
OFB-52	01/27/09			●																			
OFB-54	01/27/09			●																			
OFB-55				NS																			Well offline during first quarter 2009
OFB-56	01/27/09			●																			
Scheduled		66	16	31	0	15	11	2	0	0	6	4	4	7	3	1	1	5	2	2	0	2	**Total Scheduled = 178**
Collected		66	15	30	0	15	11	2	0	0	6	4	4	6	3	1	0	4	1	2	0	2	**Total Collected = 172**

Notes:
● - sample was collected
NS - sample was not collected
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes
d - diesel
g - gasoline
Gen min - General minerals
LF - Landfill
PCB - Polychlorinated Biphenyl
PAH - Polycyclic Aromatic Hydrocarbon
TPH - Total Petroleum Hydrocarbon
TSS - Total Suspended Solids
U.S. EPA - U.S. Environmental Protection Agency
VOC - Volatile Organic Compound

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TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	●									●	●											
7-BV-02	05/13/09	●									●	●											
7-BV-04	05/12/09	●									●	●											
7-BV-06	05/12/09	●									●	●											
7-BV-07	05/13/09	●									●	●											
7-BV-08	05/12/09	●									●	●											
7-BV-13	05/13/09	●				●	●							●					●				
7-EW-1	04/16/09	●				●	●				●	●											
7-EW-2	04/16/09	●				●	●				●	●											
7-PTE	04/16/09	● (biweekly)				● (biweekly)	●				●	●											
7-PTI	04/16/09	●				●	●				●	●											
7-PZ-23	04/13/09										●	●											
7-PZ-24	04/13/09										●	●											
7-PZ-25	04/13/09										●	●											
7-PZ-26	04/13/09										●	●											
7-PZ-37	04/20/09	●				●	●	●	●	●				●					●				
7-PZ-37P	04/15/09	●				●	●	●	●	●				●					●				
7-PZ-38P	05/12/09		●			●	●							●					●				
ACW AT-1	04/17/09		●																				
ACW AT-2	04/17/09		●																				
ACW EW-1	04/17/09		●																				
ACW EW-2	04/17/09		●																				
ACW EW-3	04/17/09		●																				
ACW EW-4	04/17/09		●																				
ACW EW-6R	04/17/09		●																				
ACW PTE	04/16/09	● (biweekly)					●				●	●								●			
ACW PTI	04/16/09	●									●	●											
ACW PZ-02	04/27/09		●																				
ACW PZ-05	04/27/09		●																				
ACW PZ-06C	04/24/09		●																				
ACW PZ-07			NS																				Well was dry
ACW PZ-07C	04/24/09		●																				
ACW PZ-08			NS																				Well was dry
ACW PZ-08C	04/24/09		●																				
ACW PZ-09			NS																				Well was dry
ACW PZ-09C	04/23/09		●																				
ACW PZ-10			NS																				Well was dry
ACW PZ-10C	04/23/09		●																				
ACW R2	04/16/09		●																				
FFS EW15-1	04/30/09	●																					
FFS EW15-2	04/30/09	●																					
FFS MW15-1	04/30/09	●																					
FFS MW15-2	04/30/09	●																					
FFS MW15-3	04/30/09	●																					
FFS MW15-6	05/20/09		●																				
MAFB-005	05/14/09		●										●	●									
MAFB-006	05/06/09		●																				
MAFB-013	04/29/09		●												●								
MAFB-022			NS																				Well Decommissioned 2Q09
MAFB-026			NS										NS	NS									Well Decommissioned 2Q09
MAFB-033	05/21/09		●																				
MAFB-037			NS																				Well Decommissioned 2Q09

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TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	•									•	•											
MAFB-041	06/15/09		•																				
MAFB-042	05/27/09		•																				
MAFB-044	04/13/09		•				•							•					•				
MAFB-047	05/08/09		•																				
MAFB-048	05/20/09		•																				
MAFB-050			NS																				Well Decommissioned 2Q09
MAFB-052			NS																				Well Decommissioned 2Q09
MAFB-053	04/24/09		•																				
MAFB-056	06/15/09		•																				
MAFB-059	05/01/09		•																				
MAFB-060	05/08/09		•																				
MAFB-061	05/20/09		•																				
MAFB-062	05/11/09		•																				
MAFB-063	05/14/09		•																				
MAFB-067	04/22/09		•																				
MAFB-068	04/22/09		•																				
MAFB-069	04/22/09		•																				
MAFB-074			NS																				Well Decommissioned 2Q09
MAFB-078	04/24/09		•																				
MAFB-083			NS																				Well Decommissioned 2Q09
MAFB-084			NS																				Well Decommissioned 2Q09
MAFB-085			NS																				Well Decommissioned 2Q09
MAFB-086			NS																				Well Decommissioned 2Q09
MAFB-088			NS																				Well Decommissioned 2Q09
MAFB-089			NS																				Well Decommissioned 2Q09
MAFB-090	05/26/09		•																				
MAFB-091			NS			NS									NS								Well Decommissioned 2Q09
MAFB-094	05/06/09		•																				
MAFB-095			NS																				Well Decommissioned 2Q09
MAFB-096	05/06/09		•																				
MAFB-101	05/20/09		•																				
MAFB-102	05/20/09		•																				
MAFB-104	04/29/09		•																				
MAFB-105			NS																				part of SVE system
MAFB-106			NS																				Well Decommissioned 2Q09
MAFB-109	05/05/09		•																				
MAFB-111	04/23/09		•										•	•									
MAFB-112	05/19/09		•										•	•									
MAFB-113			NS																				Well Decommissioned 2Q09
MAFB-121			NS																				Well was dry
MAFB-122	05/21/09		•																				
MAFB-123	05/29/09		•																				
MAFB-129	04/21/09		•															•					
MAFB-130			NS										NS	NS									Well was dry
MAFB-131	05/18/09		•										•	•									
MAFB-132	05/14/09		•										•	•									
MAFB-133	05/18/09		•										•	•									
MAFB-136	05/18/09		•										•	•									
MAFB-140	05/18/09																•						
MAFB-145			NS																				Well Abandoned
MAFB-148	04/13/09	•																					

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SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	●									●	●											
MAFB-149	04/13/09		●			●	●							●					●				
MAFB-151	04/29/09		●																				
MAFB-155	05/06/09		●																				
MAFB-159	05/29/09		●																				
MAFB-160			NS			NS									NS								Well was dry
MAFB-161			NS																				Well Decommissioned 2Q09
MAFB-164	05/14/09		●																				
MAFB-167	05/08/09		●																				
MAFB-168	05/13/09		●																				
MAFB-170	05/11/09		●																				
MAFB-171	05/11/09		●																				
MAFB-172	04/30/09		●																				
MAFB-173	04/30/09		●																				
MAFB-174	04/30/09		●																				
MAFB-175	04/29/09		●																				
MAFB-176	04/30/09		●																				
MAFB-177	05/11/09		●																				
MAFB-180	05/06/09		●																				
MAFB-181	05/04/09		●																				
MAFB-183														NS					NS				Well Decommissioned 2Q09
MAFB-186			NS																				Well Decommissioned 2Q09
MAFB-187		NS				NS																	Well Decommissioned 2Q09
MAFB-190			NS																				Well Decommissioned 2Q09
MAFB-191	06/15/09		●																				
MAFB-193	05/04/09		●																				
MAFB-194	04/24/09		●																				
MAFB-196	04/24/09		●																				
MAFB-197			NS																				Well was dry
MAFB-198	05/04/09		●																				
MAFB-199	05/11/09		●																				
MAFB-200	05/04/09		●																				
MAFB-201	05/13/09		●																				
MAFB-202	05/29/09		●												●								
MAFB-203	05/21/09	●				●																	
MAFB-204	05/21/09		●																				
MAFB-205	05/14/09		●																				
MAFB-206	05/26/09		●																				
MAFB-207	05/29/09		●																				
MAFB-209	05/28/09		●																				
MAFB-210	05/28/09		●																				
MAFB-211	05/20/09		●																				
MAFB-212	05/29/09		●																				
MAFB-213			NS																				Well Decommissioned 2Q09
MAFB-214	05/18/09		●																				
MAFB-215	05/04/09		●																				
MAFB-216	05/14/09		●																				
MAFB-217	05/20/09		●																				
MAFB-218	05/21/09		●																				
MAFB-220	05/14/09		●																				
MAFB-221	05/22/09		●																				
MAFB-222	05/19/09		●																				

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SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	•									•	•											
MAFB-223	05/18/09		•																				
MAFB-224	05/20/09		•																				
MAFB-227	05/14/09		•																				
MAFB-228	05/28/09		•																				
MAFB-229	05/08/09		•																				
MAFB-230	05/11/09		•																				
MAFB-231	05/08/09		•																				
MAFB-232	04/30/09		•																				
MAFB-235	05/14/09		•																				
MAFB-239	05/11/09	•																					
MAFB-240	05/13/09		•																				
MAFB-242	05/19/09		•																				
MAFB-243	05/14/09		•																				
MAFB-245			NS																				Well Decommissioned 2Q09
MAFB-246	04/30/09		•																				
MAFB-247	04/29/09		•																				
MAFB-248	04/30/09		•																				
MAFB-249	04/29/09		•																				
MAFB-250	05/22/09		•																				
MAFB-251	06/15/09		•																				
MAFB-252			NS																				Well Decommissioned 2Q09
MAFB-254		NS																					Well Decommissioned 2Q09
MAFB-258	04/29/09		•																				
MAFB-259	04/24/09		•																				
MAFB-260	04/24/09		•																				
MAFB-261	04/21/09		•																				
MAFB-263	04/21/09		•																				
MAFB-264	05/14/09		•																				
MAFB-265	04/30/09		•																				
MAFB-266	05/13/09		•																				
MAFB-267	04/24/09		•																				
MAFB-268	04/24/09		•																				
MAFB-269	04/21/09		•																				
MAFB-270	04/14/09		•																				
MAFB-271	04/20/09			•																			
MAFB-273	05/06/09		•																				
MAFB-274	05/08/09		•																				
MAFB-282	05/07/09		•																				
MAFB-284	04/14/09	•				•	•	•	•	•				•					•				
MAFB-285	05/27/09		•																				
MAFB-288	04/23/09		•										•	•									
MAFB-290	05/29/09		•																				
MAFB-291	05/06/09		•																				
MAFB-292	05/06/09		•																				
MAFB-293	04/14/09		•																				
MAFB-294	04/23/09		•																				
MAFB-296	05/04/09		•																				
MAFB-297	05/27/09		•																				
MAFB-300	05/27/09		•																				
MAFB-301	04/27/09		•																				
MAFB-302	04/27/09		•																				

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SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	•									•	•											
MAFB-306	05/04/09		•																				
MAFB-308	05/21/09		•																				
MAFB-311	04/14/09		•																				
MAFB-312	04/14/09		•																				
MAFB-313	04/30/09		•																				
MAFB-314	05/21/09		•			•																	
MAFB-318	04/14/09		•																				
MAFB-319	04/20/09			•																			
MAFB-320	05/21/09		•																				
MAFB-321	04/20/09			•																			
MAFB-322	04/20/09			•																			
MAFB-323	04/14/09			•																			
MAFB-324	04/20/09			•																			
MAFB-326	04/20/09			•																			
MAFB-327	04/14/09			•																			
MAFB-328	04/20/09			•																			
MAFB-329	05/04/09		•																				
MAFB-330	04/14/09			•																			
MAFB-331	04/13/09		•																				
MAFB-332	04/21/09		•																				
MAFB-336	04/14/09			•																			
MAFB-337	04/20/09			•																			
MAFB-338	04/20/09			•																			
MAFB-339	05/28/09		•																				
MAFB-340	05/07/09		•																				
MAFB-341	05/08/09		•																				
MAFB-342	05/07/09		•																				
MAFB-344	06/15/09		•																				
MAFB-346Bd	04/21/09		•																				
MAFB-346Bs	04/21/09		•																				
MAFB-346D	04/21/09		•																				
MAFB-347	05/01/09		•																				
MAFB-348B	05/01/09		•																				
MAFB-348Dd	05/01/09		•																				
MAFB-348Ds	05/01/09		•																				
MAFB-349	04/14/09			•																			
MAFB-351D	04/21/09		•																				
MAFB-352D	05/04/09		•																				
MAFB-353	04/13/09		•																				
MAFB-354B	04/13/09		•																				
MAFB-354D	04/13/09		•																				
MAFB-356B	04/13/09		•																				
MAFB-357D	05/07/09		•																				
MAFB-357Dd	05/07/09		•																				
MAFB-357Ds	05/07/09		•																				
MAFB-358B	05/07/09		•																				
MAFB-358D	05/07/09		•																				
MAFB-359	05/13/09		•				•																
MAFB-360			NS																				Rock is stuck in the well
MAFB-361	05/11/09		•																				
MAFB-362	05/18/09		•																				

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TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	•									•	•											
MAFB-363	05/14/09		•																				
MAFB-364B	04/29/09		•																				
MAFB-364D	04/29/09		•																				
MAFB-365B	04/29/09		•																				
MAFB-365D	04/29/09		•																				
MAFB-366B	05/04/09		•																				
MAFB-366D	05/04/09		•																				
MAFB-367	05/01/09		•																				
MAFB-368B	04/21/09		•																				
MAFB-368D	04/21/09		•																				
MAFB-369	04/29/09		•																				
MAFB-370	05/27/09		•																				
MAFB-371C	05/27/09		•																				
MAFB-371D	05/27/09	•																					
MAFB-372B	05/27/09	•					•																
MAFB-372D	05/27/09	•																					
MAFB-373C	05/27/09		•																				
MAFB-373D	05/27/09		•																				
MAFB-374	05/28/09	•																					
MAFB-375	05/06/09		•																				
MAFB-376	05/06/09		•																				
MAFB-377	04/30/09		•																				
MAFB-378B	05/06/09		•																				
MAFB-378D	05/06/09		•																				
MAFB-379B	05/06/09		•																				
MAFB-379D	05/06/09		•																				
MAFB-380B	04/20/09		•																				
MAFB-380D	04/20/09		•																				
MAFB-381B	04/21/09		•																				
MAFB-381D	04/21/09		•																				
MAFB-382B	04/14/09		•																				
MAFB-382D	04/14/09		•																				
MAFB-383B	04/30/09		•																				
MAFB-384B	05/08/09		•																				
MAFB-384D	05/08/09		•																				
MAFB-385D	04/20/09		•																				
MAFB-386D	04/30/09	•																					
MAFB-387B	04/13/09		•																				
MAFB-387Dd	04/13/09		•																				
MAFB-387Ds	04/13/09	•																					
MAFB-388B	04/13/09		•																				
MAFB-388Dd	04/13/09	•																					
MAFB-388Ds	04/13/09		•																				
MAFB-391	05/05/09	•																					
MAFB-392	06/15/09		•																				
MAFB-393	05/05/09	•																					
MAFB-394	05/05/09	•																					
MAFB-395	05/05/09		•																				
MAFB-396	05/05/09		•																				
MAFB-397	05/06/09		•																				
MAFB-398	05/14/09		•										•	•									

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TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	•									•	•										
MAFB-398C	05/14/09		•										•	•								
MAFB-399	05/19/09		•										•	•								
MAFB-400	04/23/09		•										•	•								
MAFB-401	04/22/09		•																			
MAFB-402	04/22/09		•																			
MAFB-403	04/22/09		•																			
MAFB-404	05/22/09		•																			
MAFB-405	05/22/09		•																			
MAFB-407	05/08/09		•																			
MAFB-408	04/22/09		•																			
MAFB-410	05/20/09		•																			
MAFB-411	04/21/09		•																			
MAFB-412	04/20/09		•																			
MAFB-413	04/14/09	•				•	•	•	•	•				•					•			
MAFB-414	05/26/09	•				•	•															
MAFB-415	05/22/09		•																			
MAFB-417	05/21/09	•				•																
MAFB-418	05/22/09		•																			
MAFB-419	05/21/09	•				•	•															
MAFB-420	05/28/09		•																			
MAFB-422	05/01/09		•																			
MAFB-423	04/29/09		•																			
MAFB-423B	04/29/09		•																			
MAFB-424	04/14/09	•											•	•					•			
MAFB-425	05/04/09		•																			
MAFB-426	04/13/09		•																			
MAFB-427	04/13/09		•																			
MAFB-428	05/21/09	•				•																
MAFB-429Bd	04/30/09	•																				
MAFB-429Bs	04/30/09	•																				
MAFB-429Bu	04/30/09	•																				
MAFB-430	05/18/09	•																				
MAFB-431Bd	05/01/09	•																				
MAFB-431Dd	05/01/09	•																				
MAFB-431Ds	05/01/09	•																				
MAFB-432	04/24/09	•																				
MAFB-433	04/27/09	•																				
MAFB-434Bd	05/01/09	•																				
MAFB-434Bs	05/01/09	•																				
MAFB-434Bu	05/01/09	•																				
MAFB-435	05/06/09	•																				
MAFB-437Dd	04/20/09	•																				
MAFB-437Ds	04/20/09	•																				
MAFB-438	05/04/09	•																				
MAFB-439	05/26/09	•				•	•								•							
MAFB-440	05/19/09	•						•														
MAFB-440P	05/19/09	•						•														
MAFB-441	04/29/09	•																				
MAFB-442	05/18/09	•																				
MAFB-443	04/13/09	•																				
MAFB-444	05/27/09	•																				

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TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	•									•	•										
MAFB-445	05/27/09	•																				
MAFB-446	05/27/09	•																				
MAFB-447	05/27/09	•																				
MAFB-448	05/27/09	•																				
MAFB-449Bd	04/24/09	•																				
MAFB-449Bs	04/24/09	•																				
MAFB-450	04/30/09	•																				
MAFB-451	04/29/09	•																				
MAFB-452B	04/29/09	•																				
MAFB-452Bu	04/29/09	•																				
MAFB-453	04/23/09	•																				
MAFB-453C	04/23/09	•																				
MAFB-454	04/24/09	•																				
MAFB-454C	04/24/09	•																				
MAFB-455	04/27/09	•																				
MAFB-456	05/26/09	•																				
MAFB-456C	04/27/09	•																				
MAFB-457Bd	04/24/09	•																				
MAFB-457Bs	04/24/09	•																				
MAFB-458Bd	04/24/09	•																				
MAFB-458Bs	04/24/09	•																				
MAFB-459D	04/13/09	•																				
MAFB-459Dd	04/13/09	•																				
MB-3				NS																		Inaccessible
MB-4	06/02/09			•																		
MBS 39ABuB	04/17/09		•																			
MBS EW-10B	04/15/09	•																				
MBS EW-11B	04/15/09	•																				
MBS EW-12AB	04/17/09	•																				
MBS EW-12B	04/15/09	•																				
MBS EW-13BuB	04/15/09	•																				
MBS EW1ABu	04/17/09		•																			
MBS EW-1B	04/16/09		•																			
MBS EW-1Bu	04/16/09		•																			
MBS EW-1D	04/17/09	•				•																
MBS EW2ABu	04/15/09		•																			
MBS EW-2AR	04/15/09	•				•																
MBS EW-2B	04/15/09		•																			
MBS EW-2D	04/16/09		•																			
MBS EW-3A		NS																				Well was dry
MBS EW-3B	04/17/09		•																			
MBS EW-3Bu	04/15/09	•																				
MBS EW-3D	04/16/09		•																			
MBS EW-4A	04/17/09		•																			
MBS EW4ABu	04/15/09		•																			
MBS EW-4B	04/17/09		•																			
MBS EW-4Bu	04/16/09	•																				
MBS EW-4D	04/17/09	•																				
MBS EW-5A			NS																			Pump is broken
MBS EW5ABu	04/15/09		•																			
MBS EW-5B	04/15/09		•																			

TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	●									●	●											
MBS EW-5D	04/15/09	●																					
MBS EW6ABu	04/17/09		●																				
MBS EW-6B	04/15/09		●																				
MBS EW-6D	04/15/09	●																					
MBS EW7ABu	04/17/09		●																				
MBS EW-7B	04/16/09		●																				
MBS EW-8B	04/15/09		●																				
MBS EW-9B	04/16/09	●																					
MBS PTE AF	04/16/09	● (biweekly)				●	●				●		●							●		●	
MBS PTI	04/16/09	●				●	●				●		●									●	
MBS PZ-11	05/06/09		●																				
MBS PZ-12	05/19/09		●																				
MBS PZ-13	05/19/09		●																				
MBS PZ-14	05/19/09		●																				
MBS PZ-15	05/19/09		●																				
MBS PZ-37	04/29/09		●																				
MBS PZ-38	05/01/09		●																				
MBS PZ-39	05/28/09		●																				
MBS PZ-42D	05/06/09		●																				
MBS PZ-42S	05/06/09	●																					
MBS PZ-44	05/19/09		●																				
MBS PZ-49D	05/19/09		●																				
MBS PZ-50D	05/08/09		●																				
MBS PZ-50S	05/08/09		●																				
MBS PZ-51	05/18/09	●																					
MBS PZ-52	05/20/09		●																				
MBS PZ-53	05/28/09	●																					
MBS PZ-54	05/19/09		●																				
MBS PZ-55B	05/13/09		●																				
MBS PZ-55Bu	05/13/09		●																				
MBS PZ-58	05/04/09		●																				
OFB-03			NS																				No access from granite
OFB-04	04/28/09			● (monthly)																			
OFB-04M	04/28/09			● (monthly)																			
OFB-06	06/01/09		●																				
OFB-07	06/01/09		●																				
OFB-08			NS																				Pump is broken
OFB-09	06/01/09		●																				
OFB-12	06/01/09		●																				
OFB-17	06/01/09		●																				
OFB-24	06/01/09		●																				
OFB-27	04/28/09			●																			
OFB-31	04/28/09			●																			
OFB-32	04/28/09			●																			
OFB-39	06/01/09		●																				
OFB-40	06/01/09		●																				
OFB-43	06/01/09		●																				
OFB-46	06/01/09		●																				
OFB-47	06/01/09		●																				
OFB-48	06/01/09		●																				
OFB-49	04/28/09			●																			

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TABLE 2-4

SECOND QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																					Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	05/12/09	●									●	●											
OFB-51	04/28/09			●																			
OFB-51/52I	04/28/09			● (monthly)																			
OFB-51/52M	04/28/09			● (monthly)																			
OFB-52	04/28/09			●																			
OFB-53	06/01/09		●																				
OFB-54	04/28/09			●																			
OFB-55				NS																			Well inaccessible
OFB-56	04/28/09			●																			
OFB-57	06/01/09		●																				
OFB-67	06/01/09		●																				
OFB-68	06/01/09		●																				
OFB-69	06/01/09		●																				
OFB-70	06/01/09		●																				
OFB-71	06/01/09		●																				
OFB-72	06/01/09		●																				
OFB-73	06/01/09		●																				
OFB-74	06/01/09		●																				
OFB-75	06/01/09		●																				
OFB-76	06/01/09		●																				
OFB-77	06/01/09		●																				
OFB-78	06/02/09		●																				
OFB-79	06/02/09		●																				
OFB-80	06/02/09		●																				
OFB-81	06/02/09		●																				
OFB-82	06/22/09		●																				
OFB-83	06/22/09		●																				
Scheduled		125	344	37	0	31	20	6	4	4	18	16	17	24	5	0	1	1	10	2	0	2	**Total Scheduled = 667**
Collected		122	308	35	0	28	20	6	4	4	18	16	15	21	3	0	1	1	9	2	0	2	**Total Collected = 615**

Notes:
● - sample was collected
NS - sample was not collected
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes
d - diesel
g - gasoline
Gen min - General minerals
LF - Landfill
PCB - Polychlorinated Biphenyl
PAH - Polycyclic Aromatic Hydrocarbon
TPH - Total Petroleum Hydrocarbon
TSS - Total Suspended Solids
U.S. EPA - U.S. Environmental Protection Agency
VOC - Volatile Organic Compound

TABLE 2-5

THIRD QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-PTE	07/23/09	● (biweekly)				● (biweekly)	●				●	●											
7-PTI	07/23/09	●				●	●				●	●											
7-PZ-37	07/13/09	●				●	●								●								
7-PZ-37P	07/13/09	●				●	●									●							
ACW PTE	07/23/09	● (biweekly)					●				●	●								●			
ACW PTI	07/23/09	●									●	●											
ACW PZ-05	07/16/09		●																				
ACW R2	07/23/09		●																				
MAFB-111	07/14/09																	●					
MAFB-112	07/15/09																	●					
MAFB-129	07/14/09																	●					
MAFB-132	07/15/09		●										●	●									
MAFB-133	07/16/09		●										●	●									
MAFB-136	07/16/09		●										●	●									
MAFB-140																	NS						Well was dry
MAFB-149	07/13/09		●			●	●																
MAFB-271	07/15/09			●																			
MAFB-284	07/13/09	●				●	●																
MAFB-288	07/14/09																	●					
MAFB-293	07/20/09		●																				
MAFB-318	07/20/09		●																				
MAFB-319	07/15/09			●																			
MAFB-321	07/15/09			●																			
MAFB-322	07/15/09			●																			
MAFB-324	07/15/09			●																			
MAFB-326	07/15/09			●																			
MAFB-328	07/15/09			●																			
MAFB-337	07/15/09			●																			
MAFB-338	07/15/09			●																			
MAFB-354B	07/14/09		●																				
MAFB-354D	07/14/09		●																				
MAFB-378B	07/15/09		●																				
MAFB-378D	07/15/09		●																				
MAFB-388Ds	07/14/09		●																				
MAFB-397	07/15/09		●																				
MAFB-400	07/14/09																	●					
MAFB-413	07/13/09	●				●	●								●								
MAFB-424	07/13/09	●											●	●					●				
MAFB-426	07/20/09		●																				
MAFB-435	07/20/09	●																					
MAFB-438	07/14/09	●																					
MAFB-439	07/16/09	●				●	●								●								
MAFB-441	07/23/09	●																					
MAFB-442	07/14/09	●																					
MAFB-443	07/14/09	●																					
MAFB-444	07/13/09	●																					
MAFB-445	07/13/09	●																					
MAFB-446	07/13/09	●																					
MAFB-447	07/13/09	●																					
MAFB-448	07/13/09	●																					
MAFB-449Bd	07/13/09	●																					

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TABLE 2-5

THIRD QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
MAFB-449Bs	07/13/09	●																				
MAFB-450	07/20/09	●																				
MAFB-451	07/23/09	●																				
MAFB-452B	07/23/09	●																				
MAFB-452Bu	07/23/09	●																				
MAFB-453C	07/14/09	●																				
MAFB-453	07/14/09	●																				
MAFB-454C	07/14/09	●																				
MAFB-454	07/14/09	●																				
MAFB-455	07/16/09	●																				
MAFB-456C	07/16/09	●																				
MAFB-456	07/16/09	●																				
MAFB-457Bd	07/13/09	●																				
MAFB-457Bs	07/13/09	●																				
MAFB-458Bd	07/13/09	●																				
MAFB-458Bs	07/13/09	●																				
MAFB-459D	07/20/09	●																				
MAFB-459Dd	07/20/09	●																				
MBS EW-13BuB	07/23/09	●																				
MBS PTE AF	07/23/09	● (biweekly)				●	●				●			●						●		●	
MBS PTI	07/23/09	●				●	●				●			●								●	
OFB-04	07/28/09			● (monthly)																			
OFB-04M	07/28/09			● (monthly)																			
OFB-27	07/28/09			●																			
OFB-31	07/28/09			●																			
OFB-32	07/28/09			●																			
OFB-49	07/28/09			●																			
OFB-51	07/28/09			●																			
OFB-51/52I	07/28/09			● (monthly)																			
OFB-51/52M	07/28/09			● (monthly)																			
OFB-52	07/28/09			●																			
OFB-54	07/28/09			●																			
OFB-55				NS																			Well offline during third quarter 2009
OFB-56	07/28/09			●																			
OFB-72	08/17/09	●																					
OFB-80	08/17/09	●																					
Scheduled		59	15	30	0	15	11	0	0	0	6	4	4	6	3	1	1	5	1	2	0	2	**Total Scheduled = 165**
Collected		59	15	29	0	15	11	0	0	0	6	4	4	6	3	1	0	5	1	2	0	2	**Total Collected = 163**

Notes:
● - sample was collected
NS - sample was not collected
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes
d - diesel
g - gasoline
Gen min - General minerals
LF - Landfill
PCB - Polychlorinated Biphenyl
PAH - Polycyclic Aromatic Hydrocarbon
TPH - Total Petroleum Hydrocarbon
TSS - Total Suspended Solids
U.S. EPA - U.S. Environmental Protection Agency
VOC - Volatile Organic Compound

TABLE 2-6

FOURTH QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
7-BV-01	10/19/09	●									●	●											
7-BV-02	10/21/09	●									●	●											
7-BV-04	10/19/09	●									●	●											
7-BV-06	10/19/09	●									●	●											
7-BV-07	10/21/09	●									●	●											
7-BV-08	10/21/09	●									●	●											
7-BV-13	10/21/09	●				●	●																
7-PTE	10/15/09	● (biweekly)				● (biweekly)	●					●											
7-PTI	10/15/09	●				●	●					●											
7-PZ-37		NS				NS	NS							NS					NS				Well was dry
7-PZ-37P	10/21/09	●				●	●							●					●				
ACW PTE	10/15/09	● (biweekly)					●				●	●								●			
ACW PTI	10/15/09	●									●	●											
ACW PZ-05	10/23/09		●																				
ACW R2	10/15/09		●																				
FFS EW15-1	10/23/09	●																					
FFS EW15-2	10/23/09	●																					
FFS MW15-1	10/23/09	●																					
FFS MW15-2	10/23/09	●																					
FFS MW15-3	10/23/09	●																					
MAFB-044	10/21/09		●				●																
MAFB-111	10/26/09																	●					
MAFB-112																		NS					Well was dry
MAFB-129	10/26/09																	●					
MAFB-132	10/22/09		●										●	●									
MAFB-133	10/27/09		●										●	●									
MAFB-136	10/22/09		●										●	●									
MAFB-140																	NS						Well was dry
MAFB-149	10/22/09		●			●	●							●					●				
MAFB-271	10/14/09			●																			
MAFB-284	10/21/09	●				●	●							●					●				
MAFB-288	10/26/09																	●					
MAFB-293	10/23/09		●																				
MAFB-296	10/29/09		●																				
MAFB-318	10/19/09		●																				
MAFB-319	10/14/09			●																			
MAFB-321	10/14/09			●																			
MAFB-322	10/14/09			●																			
MAFB-324	10/14/09			●																			
MAFB-326	10/14/09			●																			
MAFB-328	10/14/09			●																			
MAFB-330	10/12/09			●																			
MAFB-336	10/12/09			●																			
MAFB-337	10/14/09			●																			
MAFB-338	10/14/09			●																			
MAFB-354B	10/19/09		●																				
MAFB-354D	10/19/09		●																				
MAFB-378B	10/26/09		●																				
MAFB-378D	10/26/09		●																				
MAFB-382B	10/29/09		●																				
MAFB-388Ds	10/12/09		●																				

TABLE 2-6

FOURTH QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
MAFB-397	10/26/09		●																				
MAFB-398	12/01/09		●										●	●									
MAFB-398C	10/27/09		●										●	●									
MAFB-399	10/22/09		●										●	●									
MAFB-400	10/22/09		●										●	●									
MAFB-413	10/22/09	●				●	●							●					●				
MAFB-419	10/26/09					●	●																
MAFB-424	10/22/09	●											●	●					●				
MAFB-426	10/12/09		●																				
MAFB-433	10/23/09	●																					
MAFB-434Bd	10/26/09	●																					
MAFB-435	10/19/09	●																					
MAFB-436	12/01/09	●				●	●																
MAFB-438	10/22/09	●																					
MAFB-439	10/29/09	●				●	●								●								
MAFB-441	10/28/09	●																					
MAFB-442	10/26/09	●																					
MAFB-443	10/12/09	●																					
MAFB-444	10/12/09	●																					
MAFB-445	10/12/09	●																					
MAFB-446	10/12/09	●																					
MAFB-447	10/12/09	●																					
MAFB-448	10/12/09	●																					
MAFB-449Bd	10/12/09	●																					
MAFB-449Bs	10/13/09	●																					
MAFB-450	10/26/09	●																					
MAFB-451	10/28/09	●																					
MAFB-452B	10/28/09	●																					
MAFB-452Bu	10/28/09	●																					
MAFB-453	10/23/09	●																					
MAFB-453C	10/23/09	●																					
MAFB-454	10/23/09	●																					
MAFB-454C	10/23/09	●																					
MAFB-455	10/23/09	●																					
MAFB-456	10/23/09	●																					
MAFB-456C	10/23/09	●																					
MAFB-457Bd	10/23/09	●																					
MAFB-457Bs	10/12/09	●																					
MAFB-458Bd	10/12/09	●																					
MAFB-458Bs	10/23/09	●																					
MAFB-459D	10/19/09	●																					
MAFB-459D	11/30/09	●																					
MAFB-459Dd	10/19/09	●																					
MAFB-460Bd	11/30/09	●																					
MAFB-460Bs	11/30/09	●																					
MAFB-461Bd	12/01/09	●																					
MAFB-461Bs	12/01/09	●																					
MBS PTE AF	10/15/09	● (biweekly)				●	●							●						●		●	
MBS PTI	10/15/09	●				●	●							●								●	
OFB-04	10/27/09			● (monthly)																			
OFB-04M	10/27/09			● (monthly)																			

TABLE 2-6

FOURTH QUARTER 2009 SAMPLING PLAN
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well or Sample ID	Date Sampled	Analysis (U.S. EPA Method Number)																				Comments
		VOCs long list (8260)	VOCs short list (8260)	VOCs (524.2)	BTEX (8260)	TPH-g (8015)	TPH-d (8015)	PAH (8270)	PCB (8081)	Pesticides (8082)	Gen Min 1	Gen Min 2	LF Gen Min	LF Title 22 Metals	Lead (6010)	Lead and Manganese (6010)	Nickel (6010)	Nickel and Total Chromium (6010)	Hexavalent Chromium (7196)	Perchlorate (314.0)	Sulfide (376.1)	TSS (E160.2)	
OFB-27	10/27/09			●																			
OFB-31	10/27/09			●																			
OFB-32	10/27/09			●																			
OFB-49	10/27/09			●																			
OFB-51	10/27/09			●																			
OFB-51/52I	10/27/09			● (monthly)																			
OFB-51/52M	10/27/09			● (monthly)																			
OFB-52	10/27/09			●																			
OFB-54	10/27/09			●																			
OFB-55	10/27/09			●																			
OFB-56	10/27/09			●																			
OFB-72	10/28/09		●																				
OFB-80	10/28/09		●																				
OFB-85	10/28/09		●																				
Scheduled		79	25	32	0	19	15	0	0	0	8	10	8	15	1	0	1	4	6	2	0	2	**Total Scheduled = 227**
Collected		78	25	32	0	18	14	0	0	0	8	10	8	14	1	0	0	3	5	2	0	2	**Total Collected = 220**

Notes:
● - sample was collected
NS - sample was not collected
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes
d - diesel
g - gasoline
Gen min - General minerals
LF - Landfill
PCB - Polychlorinated Biphenyl
PAH - Polycyclic Aromatic Hydrocarbon
TPH - Total Petroleum Hydrocarbon
TSS - Total Suspended Solids
U.S. EPA - U.S. Environmental Protection Agency
VOC - Volatile Organic Compound

TABLE 2-7

SUMMARY OF WELL MAINTENANCE 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

First Quarter 2009

- MAFB-300: The groundwater monitoring well, which had been damaged by Teichert mining activities, was located by a surveyor and an approximately 2-foot polyvinyl chloride (PVC) riser was added to the existing PVC casing. A new protective above-ground stove pipe and cement pad surface completion was built around the PVC riser. A 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 79 feet below top of protective casing (topc) on 11 February 2009. The groundwater monitoring well was resurveyed 27 May 2009.
- MAFB-452B and MAFB-452Bd: Two-foot diffusion bags were lowered into the monitoring well screens on stainless steel cables to approximately 107 and 143 feet below topc, respectively, on 3 February 2009.

Second Quarter 2009

After the second quarter 2009 groundwater sampling event, several pump assemblies that were either inoperable or not operating efficiently were removed from the wells, as noted below. Wells scheduled for VOC sampling only should be sampled with diffusion bags for future events.

- MAFB-060: The old pump assembly was removed from the groundwater monitoring well on 25 June 2009.
- MAFB-061: The old pump assembly was removed from the groundwater monitoring well on 26 June 2009.
- MAFB-104: The old pump assembly was removed from the groundwater monitoring well on 26 June 2009.
- MAFB-131: The old pump assembly was removed from the groundwater monitoring well on 25 June 2009.
- MAFB-171: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.
- MAFB-191: The old pump assembly was removed from the groundwater monitoring well on 22 May 2009.
- MAFB-205: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.

TABLE 2-7

SUMMARY OF WELL MAINTENANCE 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

- MAFB-210: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.
- MAFB-217: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.
- MAFB-220: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.
- MAFB-251: The old pump assembly was removed from the groundwater monitoring well on 22 May 2009.
- MAFB-290: A 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 198 feet below topc on 15 May 2009.
- MAFB-327: The old pump assembly was removed from the groundwater monitoring well on 30 June 2009.
- MAFB-344: The old pump assembly was removed and replaced with a 2-foot diffusion bag, which was lowered into the groundwater monitoring well screen on a stainless steel cable at approximately 95 feet below topc on 29 May 2009.
- MAFB-349: The old pump assembly was removed from the groundwater monitoring well on 30 June 2009.
- MAFB-362: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.
- MAFB-365D: The old pump assembly was removed from the groundwater monitoring well on 29 June 2009.
- MAFB-366: The old pump assembly was removed from the groundwater monitoring well.
- MAFB-392: A 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 88 feet below topc on 15 May 2009.
- MAFB-417: The old pump assembly was removed and replaced with a 3-foot bladder pump, which was lowered into the groundwater monitoring well screen at approximately 108 feet below topc on 30 June 2009.

Third Quarter 2009

- MAFB-338: On 24 August 2009 the well box was observed to be damaged. The 12-inch well box will be fixed pending encroachment permit status. The surface completion will need to be resurveyed.

TABLE 2-7

SUMMARY OF WELL MAINTENANCE 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

- MAFB-347: On 1 September 2009 the well box was observed to be damaged. The well box will be fixed pending encroachment permit status. The surface completion will need to be resurveyed.

Fourth Quarter 2009

- MAFB-108: On 30 October 2009 the damaged well box was removed and a new 12-inch flush mount well box was installed and set in place with concrete. The groundwater monitoring well was resurveyed 11 January 2010.
- MAFB-216: On 24 August 2009 the damaged well box was removed and a new 12-inch flush mount well box was installed and set in place with concrete. The groundwater monitoring well was resurveyed 11 January 2010.
- MAFB-271: On 1 September 2009 the damaged well box was removed and a new 12-inch flush mount well box was installed and set in place with concrete. The groundwater monitoring well was resurveyed 11 January 2010.
- MAFB-330: On 1 September 2009 the damaged well box was removed and a new 12-inch flush mount well box was installed and set in place with concrete. The groundwater monitoring well was resurveyed 11 January 2010.
- MAFB-356: On 1 September 2009 the damaged well box was removed and a new 12-inch flush mount well box was installed and set in place with concrete. The groundwater monitoring well was resurveyed 11 January 2010.
- MAFB-375: The well box was covered with blacktop during road construction on Systems Parkway. On 30 October 2009 the blacktop was chipped off and well box replacement was not necessary.
- MAFB-460Bd: On 30 December 2009 a 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 187 feet below topc. The groundwater monitoring well was surveyed 11 January 2010.
- MAFB-460Bs: On 30 December 2009 a 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 159 feet below topc. The groundwater monitoring well was surveyed 11 January 2010.
- MAFB-461Bd: On 30 December 2009 a 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 211 feet below topc. The groundwater monitoring well was surveyed 11 January 2010.
- MAFB-461Bs: On 30 December 2009 a 2-foot diffusion bag was lowered into the well screen on a stainless steel cable at approximately 183 feet below topc. The groundwater monitoring well was surveyed 11 January 2010.
- 7-BV-06: On 14 December 2009 the PVC riser was replaced.

TABLE 2-8

ABANDONED AND TEMPORARILY ABANDONED GROUNDWATER WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO UNIT	ABANDONMENT DATE	STUDY AREA	REFERENCES
7-PZ-27	B	Nov-99	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
7-PZ-28	B	Nov-99	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
7-PZ-29	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II (pg. 48)
7-PZ-30	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II (pg. 48)
7-PZ-31	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
7-PZ-32	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
7-PZ-33	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II (pg. 48)
7-PZ-34	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
7-PZ-35	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
7-PZ-36	B	Jun-00	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
AC&W IW-1	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-2	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-3	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-4	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-5	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-6	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-7	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
AC&W IW-8	C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
CU EXPLORER	N/A	Oct-98	N/A	(Sac Co EHD Form)
FFS-EW7-1	B	Jul-99	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
FFS-MW7-1	B	Jul-99	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
FFS-MW7-2	B	Jul-99	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
FFS-MW7-3	N/A	Jul-99	Site 7	AR # 1981 Draft Final Annual and Fourth Quarter Basewide Groundwater Monitoring Report, 00, Vol I of II Table 2-7
FH-4 (old)	N/A	1985	N/A	AF Correspondence, 6-19-85
JTC (Site 62)	N/A	Oct-93	N/A	AFI, App J
MAFB-001	WT (B/C)	Jun-98	AC&W	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-002	WT (C)	Jun-98	AC&W	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-003	WT (C)	Jun-98	AC&W	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-004	WT/B (C?)	Jun-98	N/A	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-007	WT (B)	Oct-93	N/A	AFI, App J
MAFB-008	WT (A/B)	Oct-93	N/A	AFI, App J
MAFB-009	WT (Ap/B)	Oct-93	N/A	AFI, App J

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TABLE 2-8

ABANDONED AND TEMPORARILY ABANDONED GROUNDWATER WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO UNIT	ABANDONMENT DATE	STUDY AREA	REFERENCES
MAFB-010	WT (A)	Oct-93	N/A	AFI, App J
MAFB-011	WT (A)	Oct-93	N/A	AFI, App J
MAFB-014	WT (B)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-015	WT (B)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-016	WT (B/C)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-017	WT (B/C)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-018	WT (B/C)	Jun-98	LF02	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-019	N/A	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-020	WT (B)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-021	WT (B)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-022	WT/B	May-09	LF05	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-023	WT (B)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-024	WT/B	Jun-98	LF03	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-025	WT (B)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-026	WT/B	Apr-09	LF03	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-027B	(Dry)	Jul-98	N/A	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-027C	WT	Jul-98	N/A	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-028	WT	Jul-98	LF06	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-029	N/A	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-030	N/A	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-031	WT/B	Jul-98	MBP	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-032	N/A	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-034	WT	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-035	WT (A)	unknown	MBP	Group 2 RI - Volume 1 (AR#1624, p142 of 555).
MAFB-036	WT (A)	unknown	MBP	Additional Field Investigation Report, Volume 4 (AR#635, Appx J, p877 of 946).
MAFB-037	WT/Bu	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-038	N/A	Oct-93	N/A	AFI, App J
MAFB-040	WT (C)	As of 2Q 1991	N/A	Group 2 RI, Table 2-2
MAFB-045	WT (A/B)	Oct-93	Site 7	AFI, App J
MAFB-049	WT (B)	Jun-98	MBP	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-050	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-051	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.

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TABLE 2-8

ABANDONED AND TEMPORARILY ABANDONED GROUNDWATER WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO UNIT	ABANDONMENT DATE	STUDY AREA	REFERENCES
MAFB-052	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-055	E	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-057	D	Jun-98	Site 7	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-074	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-076	WT/B	Jul-98	LF04	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.39)
MAFB-077	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-079	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-081	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-083	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-084	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-085	WT/B	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-086	WT/B	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-087	WT	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-088	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-089	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-091	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-095	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-098	N/A	Oct-93	N/A	AFI, App J
MAFB-100	B	Jul-98	NEP	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.39)
MAFB-106	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-113	WT/B	Apr-09	LF05	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-114	WT/B	Jul-98	NEP	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.39)
MAFB-117	B	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-119	B	Mar-03	Site 7	AR #2103 Final 2003 Groundwater Monotoring Program Evaluation Report (pg. 47)
MAFB-120	B	Mar-03	Site 7	AR #2103 Final 2003 Groundwater Monotoring Program Evaluation Report (pg. 47)
MAFB-135	WT	9/12/1996	LF04	LF Cert. Rept, App F

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TABLE 2-8

ABANDONED AND TEMPORARILY ABANDONED GROUNDWATER WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO UNIT	ABANDONMENT DATE	STUDY AREA	REFERENCES
MAFB-137	WT/C	May-09	LF04	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-138	WT	9/12/1996	LF05	LF Cert. Rept, App F
MAFB-142	WT/C	May-09	LF06	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-143	WT/C	May-09	LF06	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-144	WT/C	May-09	LF06	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-146	B	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-161	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-182	WT/B	Jun-98	Site 7	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-183	WT/C	Apr-09	SITE 7	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-186	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-190	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-192	WT/C	May-09	AC&W	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-213	WT	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-236	WT	Jun-98	N/A	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-237	WT	Jul-98	N/A	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-238	WT	Jul-98	N/A	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)
MAFB-245	WT/Bu	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-252	WT	Jul-07	MBP	Well Destruction Permit #37011
MAFB-253	WT	Apr-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-254	WT/B	May-09	Site 7	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-255	WT/B	Apr-09	Site 7	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-257	WT (PERCH)	Nov-99	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-275	WT/Bu	Apr-09	NEP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-279	WT/B	Jun-98	MBP	AR#46 Update Pages, Basewide Annual and Fourth Quarter Groundwater Monitoring Draft Final Report, Vol I, II of II, 98 (pg.38)

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TABLE 2-8

ABANDONED AND TEMPORARILY ABANDONED GROUNDWATER WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HYDRO UNIT	ABANDONMENT DATE	STUDY AREA	REFERENCES
MAFB-287	B	Nov-99	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-295	D	May-09	Site 7	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-298	B	Jul-99	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-299	B	Nov-09	Site 7	Annual and Fourth Quarter 2009 Groundwater Monitoring Report
MAFB-307	WT/B	May-09	LF02	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-333	WT/C	May-09	GOLF	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-334	WT/B	May-09	GOLF	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MAFB-335	WT/C	May-09	GOLF	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MBS PZ-2	WT	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
MBS PZ-3	WT	May-09	MBP	Final, Letter Report for Basewide Well and System Decommissioning Mather Air Force Base, California, MWH. July 2009.
TEMPORARILY ABANDONED				
MAFB-118	B	Jul-99	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-145	WT/B	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-147	B	NA	Site 7	
MAFB-256	WT (PERCH)	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-262	D	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8
MAFB-286	B	Nov-98	Site 7	AR#1689 Draft Basewide Annual and Fourth Quarter Groundwater Monitoring Report, Vol II of II, 99 Table 2-8

Notes:

? - Precise information unknown, information based on best estimates.
AC&W - Aircraft Control and Warning Plume
AF - Air Force
AFI - Additional Field Investigation
App - Appendix
AR - Administrative Record
ASC - Additional Site Characterization
GOLF - Golf Course Area
LF - Landfill
MBP - Main Base/SAC Area Plume
MW - Montgomery Watson
MWH - MWH Americas, Inc.
N/A - Not Applicable
RI - Remedial Investigation
Sac Co EHD - Sacramento County

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TABLE 3-1

2009 POST-CLOSURE GROUNDWATER MONITORING PROGRAM FOR LANDFILL SITES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

	Well Number	HSG Unit	Relative Position	Analytical Parameters: VOCs (8260)	Metals[a]	General Minerals[b]	TPH-Diesel, TPH-Gas[c]	Metals 1[d] (Lead)	Metals 2[e]	PAH's[f]	PCBs, Pesticides[g]	Sampling Interval: 2009	Proposed 2010
LF03													
	MAFB-026	WT/B	UG	•	•	•	---	---	---	---	---	A	A
	MAFB-110	WT/B	UG	•	•	•	---	---	---	---	---	R	R
	MAFB-111	WT/B	DG	•	•	•	---	---	Q (Ni, Cr)	---	---	A	A
	MAFB-112	WT/C	DG	•	•	•	---	---	Q (Ni, Cr)	---	---	A	A
	MAFB-129	WT/C	DG	•	---	---	---	---	Q (Ni, Cr)	---	---	BE	BE
	MAFB-130	WT/B	CG	•	•	•	---	---	---	---	---	BE	BE
	MAFB-131	WT/B	UG	•	•	•	---	---	---	---	---	BE	BE
	MAFB-133	WT/B	DG	•	•	•	---	---	---	---	---	Q	Q
	MAFB-289	WT/B	CG	•	•	•	---	---	---	---	---	R	R
	MAFB-398[h]	WT/C	DG	•	•	•	---	---	---	---	---	SA	SA
	MAFB-398C[h]	C	DG	•	•	•	---	---	---	---	---	SA	SA
	MAFB-399[h]	C	DG	•	•	•	---	---	---	---	---	SA	SA
LF04													
	MAFB-005	WT/B	UG	•	•	•	---	---	---	---	---	BE	BE
	MAFB-075	WT/B	UG	---	•	•	---	---	---	---	---	R	R
	MAFB-132	WT/B	CG/DG	•	•	•	---	---	Q (Ni, Cr)	---	---	Q	Q
	MAFB-136	WT/B	CG/DG	•	•	•	---	---	Q (Ni, Cr)	---	---	Q	Q
	MAFB-137	WT/C	DG	•	•	•	---	---	---	---	---	R	R
	MAFB-140	WT/C	CG	---	---	---	---	---	Q (Ni)	---	---	R	R
	MAFB-288	B	DG	•	•	•	---	---	Q (Ni, Cr)	---	---	BE	BE
	MAFB-400[h]	C	DG	•	•	•	---	---	Q (Ni, Cr)	---	---	SA	SA
WP07[i]													
	7-BV-13	WTZPERCH	DG	SA (long)	SA[j]	---	SA	SA	A	---	---	Frequencies presented to left	
	7-PZ-37	WT	DG	Q (long)	---	---	Q	Q	SA	---	---		
	7-PZ-37P	WTZPERCH	DG	Q (long)	Q[j]	---	Q	Q	SA	---	---		
	7-PZ-38P	WTZPERCH	DG	A	A[j]	---	A	---	A	---	---		
	MAFB-044	WTZPERCH	UG	SA	SA[j]	---	SA (TPH-d only)	SA	A	---	---		
	MAFB-149	B	DG	Q	---	---	Q	---	SA	---	---		
	MAFB-183	WT/C	UG	---	---	---	---	---	---	---	---		
	MAFB-284	B	DG	Q	---	---	Q	---	SA	BE	BE		
	MAFB-413[h]	B	CG	Q (long)	---	---	Q	Q	SA	---	---		
	MAFB-424	WT/C	UG	Q (long)	Q	Q	---	---	Q	---	---		

Notes:

A – Annual **DG – Downgradient** **Ni – Nickel** **R – Reserve** **VOCs - Volatile Organic Compounds**

CG – Crossgradient **HSG – Hydrostratigraphic** **NS – Not Sampled** **SA – Semiannual** **• sampled for this parameter**

Cr - Chromium **L – Lower Screen Interval** **Q – Quarterly** **UG - Upgradient** **--- not applicable**

a For LF03 and LF04, metals analyses include antimony, arsenic, barium, beryllium, cadmium, chromium (total), cobalt, copper, lead, manganese, nickel, selenium, silver, vanadium, and zinc by EPA Method 6010, thallium by EPA Method 7841, and mercury by EPA Method 7470. **b** General Minerals analyses include alkalinity by EPA Method 310.1, carbonate and bicarbonate by SM2320, chloride and sulfate by EPA Method 300.0, fluoride by EPA Method 340.2, sulfide by EPA Method 376.1, and total dissolved solids by EPA Method 160.1. **c** TPH-d, -g (EPA Method 8015 modified). **d** Metals 1 (lead-EPA Method 6010) Thalium was removed from the Metals 1 list due to consistent non-detects. **e** Metals 2 (arsenic, barium, cadmium, chromium, cobalt, copper, nickel, silver, vanadium-EPA Method 6010; chromium VI-EPA Method 7196; mercury - EPA Method 7470). f PAH's (EPA Method 8270). g PCBs/Pesticides (4',4'-DDD, 4',4'-DDE, 4',4'-DDT, alpha and gamma chlordane, dieldrin-EPA Mehtod 8081; PCB 1248, PCB 1254, PCB 1260-EPA Method 8082).

h Data Gap/Replacement well installed during spring 2002. MAFB-398 replaces dry well MAFB-026; Wells MAFB-398C, - 399, and -400 are deeper (Unit C) wells installed adjacent to water table wells MAFB-398, -112, and -136, respectively. MAFB-413 was installed in October 2003 to replace dry well MAFB-255. **i** Waste Pile 7 (located at Site 7). **j** Analysis for manganese only in these perched-zone wells to characterize the distribution of manganese above background levels in the perched zone at WP07.

The sampling frequencies for the Landfill Post-Closure Monitoring Program were developed by the Remedial Project Managers from the Air Force and regulatory agencies. This Site 7 post-closure sampling plan is modified from the post-closure sampling plan presented in the Final Closure and Post-Closure Maintenance Plan for the Engineered Cap at Remedial Action Site 7 (Montgomery Watson, 1999b) to reflect current site conditions. The following changes have been made: Wells MAFB-284 and 7-PZ-37 are being sampled as down gradient wells replacing the originally proposed downgradient well MAFB-145. Well MAFB-145 has been temporarily abandoned due to gravel mining operations. Well MAFB-044 has been added as an upgradient well; this well is likely more representative of background conditions at Site 7 than the originally proposed upgradient well MAFB-148. Annual metals analysis was added to MAFB- 044 upgradient in the perched zone. 7-BV-13, 7-PZ-37P, 7-PZ-38P, and MAFB-044 are screened in the perched water zone at Site 7.

The perched water wells were added to monitor upgradient and downgradient wells from the landfill WP07. TPH-d, TPH-g, and BTEX constituents were removed from the analytical requirements for Landfills 3 and 4 because those constituents have not been detected historically. Regulatory agencies agreed to the reductions in analytical requirements during an April 13, 2000 BCT meeting. Drying well MAFB-183 was replaced by new well MAFB-424 in September 2005 and will be sampled quarterly for landfill constituents. Nickel and chromium analyses were added to MAFB-111, -112, -129, 132L, -136L, -288, and –400 as part of an evaluation monitoring program. Pesticides and PCB analyses were reduced from annual to biennial in 7-PZ-37P, 7-PZ-37, and MAFB-284, and -413 due to consistent non-detects in these wells.

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TABLE 3-2

2009 GROUNDWATER MONITORING PROGRAM FOR NORTHEAST PLUME AND POST-CLOSURE LANDFILL MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well ID	Program Designation	HSG Unit	Screen Elevation (ft msl)	Analytical Parameters				Sampling Interval		
				VOCs (8260)	Metals[a]	Lead (6010)	General Minerals[b]	2009		Proposed 2010
MAFB-005	LF04/NEP	WT/B	26.73 - 6.73	•	•		•	BE		BE
MAFB-012	NEP	WT/B	18.37 - -1.63	•				R		R
MAFB-013	NEP	WT/B	14.21 - -5.76	•		•		A		A
MAFB-022	NEP	WT/B	32.65 - 12.65	•				A		A
MAFB-026	LF03/NEP	WT/B	44.76 - 24.76	•				A		A
MAFB-064	NEP	D	-43.62 - -63.62	•				R		R
MAFB-065	NEP	D	-62.63 - -82.63	•				R		R
MAFB-075	LF04/NEP	WT/B	41.43 - 21.43	•	•		•	R		R
MAFB-107	NEP	WT/B	5.35 - -9.65	•				R		R
MAFB-109	NEP	WT/C	30.20 - 15.20	•				BE		BE
MAFB-110	LF03/NEP	WT/B	26.90 - 11.90	•	•		•	R		R
MAFB-111	LF03/NEP	WT/B	19.75 - 4.75	•	•; Q (Ni, Cr)		•	A		A
MAFB-112	LF03/NEP	WT/C	14.26 - -0.74	•	•; Q (Ni, Cr)		•	A		A
MAFB-113	NEP	WT/B	26.56 - 11.56	•				A		A
MAFB-115	NEP	WT/B	4.54 - -10.46	•				R		R
MAFB-116	NEP	WT/B	3.94 - -11.06	•				R		R
MAFB-125	NEP	WT/B	9.46 - -5.54	•				R		R
MAFB-126	NEP	WT/B	8.22 - -6.78	•				R		R
MAFB-127	NEP	C	-0.4 - -15.4	•	•			R		R
MAFB-128	NEP	WT/B	9.73 - -5.27	•				NS		NS
MAFB-129	LF03/NEP	WT/C	3.93 - -11.07	•	Q (Ni, Cr)			BE		BE
MAFB-130	LF03/NEP	WT/B	27.21 - -12.21	•	•		•	NS		BE
MAFB-131	LF03/NEP	WT/B	1.00 - -14.00	•	•		•	BE		BE
MAFB-132	LF04/NEP	WT/B	11.29 - -3.71	•	•		•	Q		Q
MAFB-133	LF03/NEP	WT/B	1.40 - -13.60	•	•		•	Q		Q
MAFB-136	LF04/NEP	WT/B	21.26 - 6.26	•	•		•	Q		Q
MAFB-137	LF04/NEP	WT/C	22.2 - 7.2	•	•		•	R		R
MAFB-139	NEP	WT/C	13.04 - -1.96	•				R		R
MAFB-140	NEP	WT/C	23.07 - 8.07	•	•; Q (Ni)			R		R
MAFB-141	NEP	WT/B	18.39 - 3.39	•				R		R
MAFB-151	NEP	WT/B	11.71 - -3.29	•				A		A
MAFB-152	NEP	WT/B	3.76 - -11.24	•				R		R
MAFB-179	NEP	D	-65.31 - -80.31	•				R		R
MAFB-275	NEP	WT/Bu	8.40 - -6.60	•				NS		NS
MAFB-276	NEP	WT/B	-3.8 - -13.8	•				R		R
MAFB-277	NEP	WT/B	0.60 - -14.4	•				R		R
MAFB-278	NEP	WT/B	12.00 - 2.00	•				R		R
MAFB-288	LF04/NEP	C	-16.30 - -31.3	•	•; Q (Ni, Cr)		•	BE		BE
MAFB-289	LF03/NEP	WT/B	25.00 - 10.00	•	•		•	R		R
MAFB-294	NEP	D	-64.4 - -79.4	•				BE		BE
MAFB-307	NEP	WT/B	13.6 - -1.40	•				R		R
MAFB-389	NEP	WT/B	4.14 - -20.86	•				R		R
MAFB-390	NEP	WT/B	0.62 - -24.38	•				R		R
MAFB-398	LF03/NEP	WT/C	16.3 - 1.3	•	•		•	SA		SA
MAFB-398C	LF03/NEP	C	-26.2 - -36.2	•	•		•	SA		SA
MAFB-399	LF03/NEP	C	-29.7 - -39.7	•	•		•	SA		SA
MAFB-400	LF04/NEP	C	-15.8 - -25.8	•	•; Q (Ni, Cr)		•	SA		SA
MAFB-406	NEP	WT/B	-1.6 - -16.6	•				R		R
MAFB-409	NEP	WT/B	-4.5 - -19.5	•				R		R
MAFB-411	NEP	WT/B	-8.33 - -23.66	•				BE		BE
MAFB-412	NEP	WT/B	-6.18 - -21.18	•				BE		BE
MAFB-438	NEP	WT	13.5 - -1.5	•				Q		Q

Notes:

• Sampled for this parameter at the frequency shown in the right-most column. Exceptions noted with frequencies in the analytical parameters column (e.g. a notation of Q (Ni, Cr) indicates that samples are collected quarterly for nickel and chromium at this well).

[a] lead, manganese, nickel, selenium, silver, vanadium, and zinc by EPA Method 6010, thallium by EPA Method 7841, and mercury by EPA Method 7470.

[b] General Minerals analyses include alkalinity by EPA Method 310.1, carbonate and bicarbonate by SM2320, chloride and sulfate by EPA Method 300.0, fluoride by EPA Method 340.2, sulfide by EPA Method 376.1, and total dissolved solids by EPA Method 160.1.

A - Annual
BE - Biennial
Bu - Upper Unit B
C - Hydrostratigraphic Unit C
Cr - Chromium
D - Hydrostratigraphic Unit D
EPA - Environmental Protection Agency
ft/msl - feet mean sea level
HSG - Hydrostratigraphic
L - Long List
LF - Landfill Performance Monitoring Program
NEP - Northeast Plume
Ni - Nickel
NS - Not Sampled
Q - Quarterly
R - Reserved
SA - Semiannual
VOC - volatile organic compound
WT - Water Table

TABLE 3-3

2009 ANALYTICAL DETECTION SUMMARY
NORTHEAST PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Contaminant of Concern	Cleanup Level (µg/L)
cis-1,2-dichloroethene	6.0
carbon tetrachloride	0.5
Chloromethane	3.0
1,2-dichloropropane	5.0
tetrachloroethene	5.0

Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-005	WT/B	Tetrachloroethene	NS	1.5	NS	NS
MAFB-013	WT/B	Tetrachloroethene	NS	0.31F	NS	NS
MAFB-109	WT/C	Tetrachloroethene	NS	2.1	NS	NS
MAFB-111	WT/B	Tetrachloroethene	NS	1.1	NS	NS
MAFB-112	WT/C	Tetrachloroethene	NS	0.74	NS	NS
MAFB-131	WT/B	Tetrachloroethene	NS	0.65	NS	NS
MAFB-132	WT/B	cis-1,2-Dichloroethene	**21**	**19**	**17**	**23**
		Tetrachloroethene	**14**	**14**	**14**	**20**
MAFB-133	WT/B	cis-1,2-Dichloroethene	2.2	2.1	2.1	2.3
		Tetrachloroethene	4.7	4.4	**5.4**	4.3
MAFB-136	WT/B	cis-1,2-Dichloroethene	**6.4**	5.2	**6.3**	5.5
		Tetrachloroethene	**8.2**	**5.3**	**7.1**	**6.0**
MAFB-151	WT/B	Tetrachloroethene	NS	0.22F	NS	NS
MAFB-288	B	cis-1,2-Dichloroethene	NS	0.64	NS	NS
		Tetrachloroethene	NS	0.71	NS	NS
MAFB-398	WT/B	cis-1,2-Dichloroethene	NS	0.50	NS	1.8
		Tetrachloroethene	NS	1.7	NS	1.8
MAFB-398C	C	1,2-Dichloropropane	NS	<1.0	NS	0.51F
		cis-1,2-Dichloroethene	NS	5.9	NS	**8.6**
		Tetrachloroethene	NS	3.1	NS	4.1
MAFB-399	C	cis-1,2-Dichloroethene	NS	3.1	NS	2.8
		Tetrachloroethene	NS	3.2	NS	3.0
MAFB-400	C	cis-1,2-Dichloroethene	NS	2.0	NS	2.0
		Tetrachloroethene	NS	2.7	NS	2.6
MAFB-411	WT/B	Tetrachloroethene	NS	2.1	NS	NS
MAFB-438	WT	cis-1,2-Dichloroethene	1.3	<0.50	0.97	1.0
		Tetrachloroethene	2.4	4.4J	4.5	3.5

Notes:
a - all results in µg/L
µg/L - micrograms per liter
F - Result below the reporting limit
J - Result is estimated

TABLE 3-4

2009 ANALYTICAL DETECTION SUMMARY
NORTHEAST LANDFILLS MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-005	WT/B	Alkalinity, bicarbonate	NS	71	NS	NS
		Alkalinity, total	NS	71	NS	NS
		Barium	NS	32	NS	NS
		Chloride	NS	15	NS	NS
		Chloroform	NS	0.20F	NS	NS
		Chromium	NS	14	NS	NS
		Copper	NS	1.0F	NS	NS
		Fluoride	NS	0.42	NS	NS
		Manganese	NS	29	NS	NS
		Nickel	NS	11F	NS	NS
		Solids, total dissolved	NS	179	NS	NS
		Sulfate	NS	5.4	NS	NS
		Tetrachloroethene	NS	1.5	NS	NS
		Trichloroethene	NS	0.64	NS	NS
		Vanadium	NS	5.0F	NS	NS
MAFB-109	WT/C	Tetrachloroethene	NS	2.1	NS	NS
MAFB-111	WT/B	Alkalinity, bicarbonate	NS	63	NS	NS
		Alkalinity, total	NS	63	NS	NS
		Barium	NS	12F	NS	NS
		Chloride	NS	3.8	NS	NS
		Chromium	2.1F	2.5F	3.5F	1.7F
		Copper	NS	0.99F	NS	NS
		Fluoride	NS	0.19	NS	NS
		Manganese	NS	7.5F	NS	NS
		Nickel	<40	<40	<40	0.39F
		Solids, total dissolved	NS	126	NS	NS
		Sulfate	NS	6.8	NS	NS
		Tetrachloroethene	NS	1.1	NS	NS
		Thallium	NS	0.033F	NS	NS
		Vanadium	NS	11F	NS	NS
		Zinc	NS	55	NS	NS
MAFB-112	WT/C	Alkalinity, bicarbonate	NS	76	NS	NS
		Alkalinity, total	NS	76	NS	NS
		Barium	NS	26	NS	NS
		Chloride	NS	7.5	NS	NS
		Chromium	NS	3.8F	10	NS
		Cobalt	NS	8.6F	NS	NS
		Manganese	NS	797	NS	NS
		Nickel	NS	61	113	NS
		Solids, total dissolved	NS	155	NS	NS
		Sulfate	NS	8.8	NS	NS
		Sulfide, total	NS	<0.20UJ	NS	NS
		Tetrachloroethene	NS	0.74	NS	NS
		Trichloroethene	NS	0.17F	NS	NS

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Vanadium	NS	6.4F	NS	NS
MAFB-129	WT/C	Chromium	3.8F	NS	2.7F	2.4F
MAFB-131	WT/B	Alkalinity, bicarbonate	NS	47	NS	NS
		Alkalinity, total	NS	47	NS	NS
		Barium	NS	96	NS	NS
		Cadmium	NS	0.51F	NS	NS
		Chloride	NS	6.1	NS	NS
		Chloroform	NS	0.24F	NS	NS
		Chromium	NS	41	NS	NS
		Cobalt	NS	6.0F	NS	NS
		Copper	NS	12	NS	NS
		Fluoride	NS	0.16	NS	NS
		Manganese	NS	379	NS	NS
		Nickel	NS	33F	NS	NS
		Silver	NS	0.63F	NS	NS
		Solids, total dissolved	NS	183	NS	NS
		Sulfate	NS	16	NS	NS
		Tetrachloroethene	NS	0.65	NS	NS
		Trichloroethene	NS	0.24F	NS	NS
		Vanadium	NS	23F	NS	NS
		Zinc	NS	7.7F	NS	NS
MAFB-132	WT/B	1,2-Dichloroethane	0.15F	<0.50	<0.50	<0.50
		Alkalinity, bicarbonate	276	235	175	NS
		Alkalinity, total	276	235	175	239
		Antimony	<60	<60	2.6F	<60
		Barium	67J	75	55	71
		Chloride	47	46	49 (2)	39
		Chloroform	0.099F	<0.50	0.13F	0.14F
		Chromium	12	23	73	9.9F
		cis-1,2-Dichloroethene	21	19	17	23
		Cobalt	2.2F	17F	2.4F	2.7F
		Copper	<10	<10	<10	1.6F
		Fluoride	0.17	0.28	0.11	0.18
		Manganese	44J	405	42	51
		Mercury	<0.20M	<0.20	<0.20	<0.20
		Nickel	337J	401	309	194
		Selenium	<5.0	<5.0	<5.0	3.3F
		Solids, total dissolved	344	356	307	349
		Sulfate	4.5	4.6	4.0	5.1
		Tetrachloroethene	14	14	14	20
		Thallium	<1.0	<1.0	<1.0	0.77F
		Trichloroethene	3.9	3.6	2.8	5.1
		Vanadium	3.5F	1.8F	2.5F	3.6F
		Zinc	11F	<50	3.2F	12F

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-133	WT/B	Alkalinity, bicarbonate	110	94	94	NS
		Alkalinity, total	110	94	94	86
		Antimony	<60	<60	2.7F	<60
		Arsenic	<5.0	<5.0	<5.0	2.5F
		Barium	20	22	20	19F
		Chloride	4.0	4.0	4.0	4.4
		Chloroform	0.11F	0.12F	<0.50	0.11F
		Chromium	2.7F	2.1F	3.3F	2.3F
		cis-1,2-Dichloroethene	2.2	2.1	2.1	2.3
		Copper	1.1F	<10	<10	<10
		Fluoride	0.22	0.22	0.22	0.20
		Lead	1.9F	<3.0	<3.0	<3.0
		Mercury	0.18FM	<0.20	<0.20	0.11BF
		Nickel	2.5F	4.6F	2.5F	2.5F
		Selenium	<5.0	<5.0	<5.0	4.1BF
		Solids, total dissolved	168	175	167	161
		Sulfate	8.6	8.1	9.2	10
		Tetrachloroethene	4.7	4.4	5.4	4.3
		Thallium	<1.0	<1.0	0.012F	1.1
		Trichloroethene	0.85	0.84	0.83	0.89
		Vanadium	7.8F	6.9F	7.4F	7.8F
		Zinc	6.3F	<50	3.7F	16F
MAFB-136	WT/B	1,2-Dichloroethane	0.17F	<0.50	<0.50	<0.50
		Alkalinity, bicarbonate	208	137	164	NS
		Alkalinity, total	208	137	164	145
		Antimony	3.0F	<60	2.3F	<60
		Barium	79	92	71	83
		Chloride	41	45	41	44
		Chloroform	<0.50	0.21F	0.076F	0.37F
		Chromium	201	1.5F	5.6F	79
		cis-1,2-Dichloroethene	6.4	5.2	6.3	5.5
		Cobalt	9.5F	13F	1.1F	8.6F
		Copper	3.9F	<10	<10	5.1F
		Fluoride	0.18	0.28	0.25	0.15
		Manganese	315J	366	24	242
		Mercury	<0.20M	<0.20	<0.20	<0.20
		Nickel	293	622	131	439
		Silver	<10	<10	0.27F	<10
		Solids, total dissolved	292	307	302	315
		Sulfate	12	13	12	13
		Sulfide, total	<0.20	<0.20	0.16F	<0.20R
		Tetrachloroethene	8.2	5.3	7.1	6.0
		Thallium	<1.0	<1.0	<1.0	0.37F
		Trichloroethene	2.1	1.4	1.9	1.9
		Vanadium	2.3F	<50	2.2F	1.7F

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Zinc	9.2F	<50	2.4F	8.8F
MAFB-140	WT/C	Nickel	NS	18F	NS	NS
		Nickel	NS	18F	NS	NS
MAFB-288	B	Alkalinity, bicarbonate	NS	49	NS	NS
		Alkalinity, total	NS	49	NS	NS
		Barium	NS	14F	NS	NS
		Chloride	NS	3.8	NS	NS
		Chromium	2.9F	2.9F	2.8F	3.0F
		cis-1,2-Dichloroethene	NS	0.64	NS	NS
		Fluoride	NS	0.25	NS	NS
		Solids, total dissolved	NS	116	NS	NS
		Sulfate	NS	4.5	NS	NS
		Tetrachloroethene	NS	0.71	NS	NS
		Vanadium	NS	9.1F	NS	NS
		Zinc	NS	56	NS	NS
MAFB-294	D	Chloroform	NS	0.26FJ	NS	NS
		Trichloroethene	NS	0.82J	NS	NS
MAFB-398	WT/B	Alkalinity, bicarbonate	NS	95	NS	<1.0
		Alkalinity, total	NS	95	NS	65
		Barium	NS	29	NS	18F
		Chloride	NS	7.7	NS	7.2
		Chromium	NS	2.8F	NS	<10
		cis-1,2-Dichloroethene	NS	0.50	NS	1.8
		Copper	NS	1.0F	NS	2.9F
		Fluoride	NS	0.17	NS	0.056F
		Manganese	NS	36	NS	2.3F
		Nickel	NS	4.0F	NS	0.57F
		Solids, total dissolved	NS	204	NS	159
		Sulfate	NS	9.4	NS	15
		Tetrachloroethene	NS	1.7	NS	1.8
		Thallium	NS	<1.0	NS	0.97F
		Trichloroethene	NS	0.57	NS	<0.50
		Vanadium	NS	6.7F	NS	6.4F
		Zinc	NS	<50	NS	13F
MAFB-398C	C	1,2-Dichloropropane	NS	<1.0	NS	0.51F
		Alkalinity, bicarbonate	NS	53	NS	NS
		Alkalinity, total	NS	53	NS	65
		Arsenic	NS	<5.0	NS	3.9F
		Barium	NS	31	NS	28
		Chloride	NS	7.4	NS	8.4
		Chromium	NS	3.4F	NS	2.8F
		cis-1,2-Dichloroethene	NS	5.9	NS	8.6

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Fluoride	NS	0.24	NS	0.16
		Manganese	NS	<15	NS	1.6F
		Mercury	NS	<0.20	NS	0.11BF
		Nickel	NS	<40	NS	2.3F
		Selenium	NS	<5.0	NS	5.6B
		Solids, total dissolved	NS	137	NS	154
		Sulfate	NS	2.4	NS	2.7
		Tetrachloroethene	NS	3.1	NS	4.1
		Thallium	NS	<1.0	NS	0.58F
		Trichloroethene	NS	1.1	NS	1.3
		Vanadium	NS	7.2F	NS	7.4F
		Zinc	NS	<50	NS	5.9F
MAFB-399	C	Alkalinity, bicarbonate	NS	50	NS	NS
		Alkalinity, total	NS	50	NS	52
		Barium	NS	31	NS	31
		Chloride	NS	5.0	NS	5.3
		Chromium	NS	2.6F	NS	3.0F
		cis-1,2-Dichloroethene	NS	3.1	NS	2.8
		Copper	NS	<10	NS	2.2F
		Fluoride	NS	<0.10	NS	0.15
		Nickel	NS	<40	NS	0.68F
		Solids, total dissolved	NS	148	NS	137
		Sulfate	NS	4.1	NS	4.4
		Tetrachloroethene	NS	3.2	NS	3.0
		Thallium	NS	<1.0	NS	0.24F
		Trichloroethene	NS	0.63	NS	0.86
		Vanadium	NS	11F	NS	10F
		Zinc	NS	<50	NS	6.9F
MAFB-400	C	Alkalinity, bicarbonate	NS	128	NS	NS
		Alkalinity, total	NS	128	NS	129
		Barium	NS	76	NS	93
		Chloride	NS	29	NS	37
		Chromium	<10	1.7F	1.8F	11
		cis-1,2-Dichloroethene	NS	2.0	NS	2.0
		Copper	NS	<10	NS	1.1F
		Fluoride	NS	0.13	NS	0.071F
		Lead	NS	2.0BF	NS	<3.0
		Manganese	NS	<15	NS	6.3F
		Nickel	<40	<40	<40	0.68F
		Solids, total dissolved	NS	250	NS	261
		Sulfate	NS	7.0	NS	11
		Tetrachloroethene	NS	2.7	NS	2.6
		Thallium	NS	0.024F	NS	0.20F
		Trichloroethene	NS	0.69	NS	0.74
		Vanadium	NS	5.4F	NS	5.6F

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Zinc	NS	61	NS	12F
MAFB-438	WT	cis-1,2-Dichloroethene	1.3	<0.50	0.97	1.0
		Tetrachloroethene	2.4	4.4J	4.5	3.5
		Trichloroethene	0.48F	<0.50	0.48F	0.42F

Notes:

The purpose of the landfill monitoring program is to monitor for the release of contaminants. No groundwater cleanup levels for the Northeast Plume Landfill Monitoring programs exist, therefore all analytical detections for the year are presented.

B - Analyte was found in the associated blank, as well as in the sample
F - Result below the reporting limit
J - Result is estimated
M - Matrix effect was present

a Results for Alkalinity, Bicarbonate, Carbonate, Chloride, Fluoride, Sulfate, and Solids, total dissolved are in mg/L. Results for all other analytes are in µg/L.

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SITE 7 LANDFILL MONITORING
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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
7-BV-01	NA	1,1-Dichloroethane	NS	1.2	NS	<1.0
		1,2-Dichlorobenzene	NS	0.55F	NS	<2.0
		1,2-Dichloropropane	NS	0.73F	NS	<1.0
		1,3-Dichlorobenzene	NS	0.32F	NS	<3.0
		1,4-Dichlorobenzene	NS	4.4	NS	0.48F
		Alkalinity, bicarbonate	NS	381	NS	184
		Alkalinity, total	NS	381	NS	184
		Benzene	NS	5.3	NS	<0.50
		Calcium	NS	103000	NS	65500M
		Chloride	NS	11	NS	9.5
		Chlorobenzene	NS	10	NS	0.22F
		Copper	NS	<10	NS	5.0F
		Hardness as CaCO3	NS	189	NS	299
		Iron	NS	49F	NS	90
		Magnesium	NS	55800	NS	34500M
		Manganese	NS	4360	NS	3000
		Nitrogen, nitrate	NS	1.0	NS	5.5
		Sodium	NS	28700	NS	21300M
		Solids, total dissolved	NS	660	NS	480
		Sulfate	NS	183 (2)	NS	134 (2)
		Tetrachloroethene	NS	0.51	NS	<0.50
		Trichloroethene	NS	0.66	NS	0.25F
		Vinyl chloride	NS	1.3	NS	<0.50
		Zinc	NS	57	NS	12F
7-BV-02	NA	1,1-Dichloroethane	NS	0.46F	NS	0.51F
		1,1-Dichloroethene	NS	0.44F	NS	0.41F
		1,2-Dichlorobenzene	NS	0.42F	NS	0.41F
		1,2-Dichloroethane	NS	3.2	NS	3.8
		1,2-Dichloropropane	NS	5.0	NS	5.8
		1,4-Dichlorobenzene	NS	0.81	NS	0.69
		Alkalinity, bicarbonate	NS	455	NS	NS
		Alkalinity, total	NS	455	NS	381
		Calcium	NS	125000	NS	123000M
		Chloride	NS	10	NS	10
		Chlorobenzene	NS	4.2	NS	3.6
		Chloroform	NS	0.14F	NS	0.13F
		cis-1,2-Dichloroethene	NS	1.8	NS	1.4
		Hardness as CaCO3	NS	534	NS	125J
		Iron	NS	<70	NS	23F
		Magnesium	NS	70900	NS	66300M
		Manganese	NS	5.8F	NS	8.5F
		Nitrogen, nitrate	NS	2.4	NS	2.6
		Sodium	NS	30100	NS	28800M
		Solids, total dissolved	NS	807	NS	794
		Sulfate	NS	210 (2)	NS	227 (2)
		Tetrachloroethene	NS	2.2	NS	1.8
		Trichloroethene	NS	13	NS	14

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Vinyl chloride	NS	0.52	NS	0.54
		Zinc	NS	<50	NS	12F
7-BV-04	NA	1,4-Dichlorobenzene	NS	0.24F	NS	<0.50
		Alkalinity, bicarbonate	NS	488	NS	345
		Alkalinity, total	NS	488	NS	345
		Calcium	NS	129000	NS	110000M
		Chloride	NS	34	NS	33
		Chlorobenzene	NS	0.42F	NS	<2.5
		Copper	NS	<10	NS	5.9F
		Hardness as CaCO3	NS	570	NS	493
		Iron	NS	8.7F	NS	<70
		Magnesium	NS	72600	NS	59500M
		Manganese	NS	972	NS	837
		Nitrogen, nitrate	NS	2.0	NS	3.7
		Sodium	NS	30800	NS	28000M
		Solids, total dissolved	NS	813	NS	681
		Sulfate	NS	207 (2)	NS	143 (2)
		Tetrachloroethene	NS	0.41F	NS	<0.50
		Zinc	NS	51	NS	9.2F
7-BV-06	NA	Alkalinity, bicarbonate	NS	305	NS	242
		Alkalinity, total	NS	305	NS	242
		Calcium	NS	85100	NS	78700M
		Chloride	NS	22	NS	24
		Chlorobenzene	NS	0.22F	NS	<2.5
		Copper	NS	<10	NS	2.3F
		Hardness as CaCO3	NS	365	NS	380
		Iron	NS	668	NS	544
		Magnesium	NS	49300	NS	44400M
		Manganese	NS	5280	NS	4430
		Nitrogen, nitrate	NS	5.5	NS	7.9
		Sodium	NS	32400	NS	31200M
		Solids, total dissolved	NS	608	NS	552
		Sulfate	NS	165 (2)	NS	145 (2)
		Tetrachloroethene	NS	0.35F	NS	<0.50
		Zinc	NS	51	NS	6.1F
7-BV-07	NA	Alkalinity, bicarbonate	NS	240	NS	NS
		Alkalinity, total	NS	240	NS	220
		Calcium	NS	82900	NS	85400M
		Chloride	NS	7.5	NS	7.1
		Chloroform	NS	0.14F	NS	<0.50
		Hardness as CaCO3	NS	361	NS	141J
		Iron	NS	186	NS	7.1F
		Magnesium	NS	48600	NS	48400M
		Manganese	NS	15F	NS	3.5F
		Nitrogen, nitrate	NS	7.4	NS	7.7

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Sodium	NS	25200	NS	25400M
		Solids, total dissolved	NS	570	NS	556
		Sulfate	NS	164 (2)	NS	172 (2)
		Tetrachloroethene	NS	1.4	NS	1.1
		Trichloroethene	NS	2.6	NS	3.3
		Zinc	NS	<50	NS	4.0F
7-BV-08	NA	Alkalinity, bicarbonate	NS	164	NS	NS
		Alkalinity, bicarbonate	NS	164	NS	NS
		Alkalinity, total	NS	164	NS	194
		Alkalinity, total	NS	164	NS	194
		Calcium	NS	40200	NS	63000M
		Calcium	NS	40200	NS	63000M
		Chloride	NS	8.3	NS	9.0
		Chloride	NS	8.3	NS	9.0
		Chlorobenzene	NS	0.21F	NS	<2.5
		Chlorobenzene	NS	0.21F	NS	<2.5
		Hardness as CaCO3	NS	201	NS	182J
		Hardness as CaCO3	NS	201	NS	182J
		Iron	NS	11F	NS	14F
		Iron	NS	11F	NS	14F
		Magnesium	NS	23700	NS	37200M
		Magnesium	NS	23700	NS	37200M
		Manganese	NS	10F	NS	3.2F
		Manganese	NS	10F	NS	3.2F
		Nitrogen, nitrate	NS	8.0	NS	7.3
		Nitrogen, nitrate	NS	8.0	NS	7.3
		Sodium	NS	18200	NS	25300M
		Sodium	NS	18200	NS	25300M
		Solids, total dissolved	NS	337	NS	440
		Solids, total dissolved	NS	337	NS	440
		Sulfate	NS	57 (2)	NS	109 (2)
		Sulfate	NS	57 (2)	NS	109 (2)
		Tetrachloroethene	NS	0.68	NS	0.46F
		Tetrachloroethene	NS	0.68	NS	0.46F
		Trichloroethene	NS	2.1	NS	4.3
		Trichloroethene	NS	2.1	NS	4.3
		Zinc	NS	35F	NS	6.8F
		Zinc	NS	35F	NS	6.8F
7-BV-13	NA	Barium	NS	83	NS	NS
		Chloroform	NS	0.088F	NS	0.21F
		cis-1,2-Dichloroethene	NS	<0.50	NS	0.18F
		Manganese	NS	151	NS	NS
		Nickel	NS	2.4F	NS	NS
		Tetrachloroethene	NS	1.2	NS	0.90
		TPH, diesel-range	NS	180	NS	<50
		Trichloroethene	NS	3.5	NS	3.8

TABLE 3-5

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 LANDFILL MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Vanadium	NS	4.9F	NS	NS
7-PZ-37	WT	1,1-Dichloroethane	2.1M	0.25F	0.26F	NS
		1,1-Dichloroethene	<0.50	0.39F	0.38F	NS
		1,2-Dichloroethane	1.2	0.84	1.0	NS
		1,2-Dichloropropane	0.92F	<1.0	0.90F	NS
		Barium	NS	46	NS	NS
		Chromium	NS	28	NS	NS
		cis-1,2-Dichloroethene	0.70	0.77	0.53	NS
		Copper	NS	1.0F	NS	NS
		Lead	2.4F	<3.0	<3.0	NS
		Manganese	NS	30M	NS	NS
		Mercury	NS	0.062F	NS	NS
		Selenium	NS	3.7F	NS	NS
		Tetrachloroethene	2.4	3.9	3.5	NS
		Thallium	NS	0.049F	NS	NS
		TPH, gasoline-range	11F	13F	16F	NS
		Trichloroethene	19	24	23	NS
		Vanadium	NS	13F	NS	NS
		Zinc	NS	8.2F	NS	NS
7-PZ-37P	WTZPERCH	1,1-Dichloroethane	2.3M	<1.0	0.46F	0.26F
		1,1-Dichloroethene	0.34F	<0.50	0.53	<0.50
		Barium	NS	75	NS	79
		Chromium	NS	1.4F	NS	<10
		cis-1,2-Dichloroethene	1.3	<0.50	0.54	0.58
		Copper	NS	1.0F	NS	1.8F
		Lead	2.3F	<3.0	<3.0	<3.0
		Manganese	4680JM	3150M	3490M	2200
		Mercury	NS	0.097BF	NS	<0.20
		Nickel	NS	8.1F	NS	9.3F
		Selenium	NS	3.2F	NS	<5.0
		Silver	NS	0.28F	NS	<10
		Tetrachloroethene	4.5	2.8	4.7	2.2
		Thallium	NS	0.063F	NS	0.68F
		Trichloroethene	5.9	3.8	6.3	2.7
		Vanadium	NS	5.2F	NS	6.3F
		Zinc	NS	<50	NS	2.5F
7-PZ-38P	WTZPERCH	1,4-Dichlorobenzene	NS	0.30F	NS	NS
		Barium	NS	97	NS	NS
		Manganese	NS	260	NS	NS
		Nickel	NS	5.3F	NS	NS
		Tetrachloroethene	NS	0.53	NS	NS
		Thallium	NS	0.014F	NS	NS
		Trichloroethene	NS	0.19F	NS	NS
		Vanadium	NS	2.2F	NS	NS
		Zinc	NS	36F	NS	NS

TABLE 3-5

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 LANDFILL MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 6)

Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-044	WTZPERCH	Barium	NS	102	NS	NS
		Manganese	NS	14FM	NS	NS
		Silver	NS	0.78F	NS	NS
		Thallium	NS	0.13F	NS	NS
		Vanadium	NS	4.8F	NS	NS
		Zinc	NS	2.3F	NS	NS
MAFB-149	WT/B	1,1-Dichloroethene	0.42F	<0.50	0.47F	0.51
		Barium	NS	29	NS	NS
		Chromium	NS	5.5F	NS	NS
		Silver	NS	1.2F	NS	NS
		Tetrachloroethene	0.24F	<0.50	<0.50	0.20F
		Thallium	NS	0.068F	NS	NS
		Vanadium	NS	13F	NS	NS
MAFB-284	B	1,2-Dichloroethane	0.26F	<0.50	<0.50	0.16F
		1,2-Dichloropropane	0.25F	<1.0	<1.0	0.23F
		Barium	NS	18F	NS	41
		Chromium	NS	2.9F	NS	3.5F
		cis-1,2-Dichloroethene	0.25F	<0.50	<0.50	0.19F
		Copper	NS	3.5F	NS	1.5F
		Mercury	NS	0.062F	NS	0.083BF
		Nickel	NS	<40	NS	1.3F
		Silver	NS	0.62F	NS	<10
		Tetrachloroethene	0.61	0.52	0.63	0.48F
		Thallium	NS	0.030F	NS	0.36F
		Trichloroethene	3.4	2.4	3.1	2.5
		Vanadium	NS	13F	NS	13F
MAFB-413	WT/B	Barium	NS	71	NS	72
		Chromium	NS	6.1F	NS	5.3F
		Copper	NS	2.4F	NS	<10
		Silver	NS	0.36F	NS	<10
		Thallium	NS	0.055F	NS	0.15F
		Vanadium	NS	11F	NS	10F
		Zinc	NS	<50	NS	5.2F
MAFB-424	WT/C	1,1-Dichloroethene	0.95	0.98	1.8	1.2
		Alkalinity, bicarbonate	51	48	45	NS
		Alkalinity, total	51	48	45	43
		Antimony	<60	<60	2.1F	<60
		Barium	18F	42	18F	19F
		Chloride	2.9	3.3	3.0	3.8
		Chromium	5.8F	6.4F	2.0F	3.2F
		Copper	<10	1.4F	<10	1.1F
		Fluoride	0.19	0.043F	0.40	0.18
		Mercury	<0.20M	0.085F	<0.20	<0.20

TABLE 3-5

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 LANDFILL MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 6)

Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
		Silver	<10	0.70F	<10	<10
		Solids, total dissolved	128	114	133	141
		Sulfate	6.2	6.6	6.1	6.7M
		Tetrachloroethene	0.28F	0.23F	0.40F	0.32F
		Thallium	<1.0	0.051F	<1.0	0.13F
		Trichlorofluoromethane	18	18	22	22
		Vanadium	14F	13F	11F	13F
		Zinc	4.1F	<50	7.0F	8.1F

Notes:

The purpose of the landfill monitoring program is to monitor for the release of contaminants. No groundwater cleanup levels for the Site 7 Landfill Monitoring program exist, therefore all analytical detections for the year are presented.

B - Analyte was found in the associated blank, as well as in the sample

F - Result was below reporting limit

J - Result is estimated

M - Matrix effect was present

a - Results for Alkalinity, Bicarbonate, Carbonate (or Hardness) , Chloride, Fluoride, Sulfate, and Solids, total dissolved are in mg/L. Results for all other analytes are in µg/L.

TABLE 3-6

CALCULATED UPPER BOUND BACKGROUND CONCENTRATIONS FOR METALS
NORTHEAST LANDFILL AREA
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	No. Samples	Min	Max	Mean	Standard Deviation	95th Percentile	99th Percentile	Distribution	95% UCL on the Mean	UTL[b]	Upper Bound of Background	Wells Exceeding Background 2009
Antimony	10	0.068	2.0	1.3	0.70	1.96	1.99	Normal	1.7	3.3	3.3	None
Arsenic	11	0.13	5.6	1.8	1.6	4.2	5.3	Normal	2.6	6.2	6.2	None
Barium	62	8.8	516	137	145	354	486	Nonparametric	252	430	430	None
Beryllium	8	0.20	0.70	0.40	0.19	0.67	0.69	Normal	0.52	1.0	1.0	None
Cadmium	16	0.17	0.61	0.32	0.12	0.53	0.59	Normal	0.4	0.6	0.6	None
Calcium	4	9,040	19,800	15,410	4,771	19,560	19,752	Normal	N/A	39,952	39,952	NS
Chromium	27	1.0	15	3.3	3.0	8.7	14	Nonparametric	5.8	10	10	MAFB-005 (14 µg/L - 2Q09) MAFB-131 (41 µg/L - 2Q09) MAFB-132 (Max 2009 - 73 µg/L - 3Q09) MAFB-136 (Max 2009 - 201 µg/L - 1Q09) MAFB-400 (Max 2009 - 11 µg/L - 4Q09)
Cobalt	2	0.06	0.22	0.14	0.11	0.21	0.22	N/A	N/A	N/A	ND	N/A
Copper	11	2.1	17	5.7	4.3	12	16	Lognormal[a]	8.3	27	27	None
Iron	3	73	503	341	234	497	502	N/A	N/A	N/A	ND	NS
Lead	30	1.3	9.2	2.9	1.9	7.3	9.2	Nonparametric	3.5	7.2	7.2	None
Magnesium	4	5,440	13,500	9,798	3,358	13,095	13,419	Normal	N/A	27,069	27,069	NS
Manganese	44	0.7	714	62	122	249	524	Lognormal	183	653	653	MAFB-112 (797 µg/L - 2Q09)
Mercury	2	0.11	0.11	0.11	0.0	N/A	N/A	N/A	N/A	N/A	ND	N/A
Nickel	28	1.3	4.0	2.3	0.60	3.6	3.9	Lognormal[a]	2.5	3.9	3.9	MAFB-005 (11 µg/L - 2Q09) MAFB-112 (Max 2009 - 113 µg/L - 3Q09) MAFB-131 (33 µg/L - 2Q09) MAFB-132 (Max 2009 - 401 µg/L - 2Q09) MAFB-136 (Max 2009 - 622 µg/L - 2Q09) MAFB-140 (18.0F µg/L 2Q09) MAFB-398 (4.0 µg/L 2Q09; 0.57 µg/L 4Q09)
Selenium	11	0.021	7.0	3.0	2.4	6.3	6.9	Normal	4.3	10	10	None
Silver	6	0.25	0.78	0.51	0.19	0.75	0.77	Normal	0.66	1.2	1.2	None
Sodium	4	7,850	10,400	9,088	1,213	10,312	10,382	Normal	N/A	15,326	15,326	NS
Thallium	1	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND	N/A
Vanadium	32	4.9	10	6.6	0.92	7.7	9.3	Lognormal[a]	6.8	8.7	8.7	MAFB-111 (11 µg/L - 2Q09) MAFB-131 (23 µg/L - 2Q09) MAFB-288 (9.1 µg/L - 2Q09) MAFB-399 (11 µg/L 2Q09; 10 µg/L 4Q09)
Zinc	30	4.6	1,130	72	202	109	837	Nonparametric	439	521	521	None

Notes:

All units are micrograms per liter (µg/L)

[a] Data follow both a gamma and lognormal distributions. For the purposes of selecting a 95% UCL on the mean, the recommended value from the ProUCL program was utilized. For selecting a UTL, the lognormal value was utilized.

[b] UTL is identified as the 95% UCL on the 95th Percentile.

Background calculations were originally presented in the 2nd Quarter 2005 Mather Groundwater Monitoring Report.

FM - Concentration is below the laboratory analytical reporting limit and above the detection limit; result is also affected by matrix interference

N/A - Not Applicable

ND - Not Determined

NS - Not Sampled. No samples analyzed for this constituent

UCL - Upper Confidence Limit

UTL - Upper Tolerance Limit

TABLE 3-7

CALCULATED UPPER BACKGROUND CONCENTRATION FOR GENERAL MINERAL CONSTITUENTS
NORTHEAST LANDFILL AREA
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	No. Samples	Min	Max	Mean	Standard Deviation	95th Percentile	99th Percentile	Distribution	95% UCL on the Mean	UTL[a]	Background	Wells Exceeding Background 2009
Alkalinity, bicarbonate	MG/L	87	0.5	684	94	80	192	352	NON-PARAMETRIC	131	867	867	None
Alkalinity, carbonate	MG/L	88	0.5	34.7	2.1	5.3	14	24	NON-PARAMETRIC	5.6	39	39	None
Alkalinity, total	MG/L	104	26	684	94	73	180	295	NON-PARAMETRIC	125	864	864	None
Chloride	MG/L	104	2.3	120	13	17	29	94	NON-PARAMETRIC	20	145	145	None
Fluoride	MG/L	100	0.05	0.32	0.12	0.06	0.23	0.31	NON-PARAMETRIC	0.1	0.5	1	None
Hardness as CaCO3	MG/L	4	0.5	93	26	45	80	90	GAMMA	337	225	225	None
Nitrogen, nitrate	MG/L	48	0.89	20	3	3	3.80	13	NON-PARAMETRIC	3.8	26.0	26	None
Nitrogen, nitrate and nitrite	MG/L	14	2.2	3.7	3	0.44	3.51	3.66	NORMAL	3.2	11.4	11	None
Solids, total dissolved	MG/L	104	5	370	179	54	287	310	NON-PARAMETRIC	188	715	715	None
Sulfate	MG/L	104	5.5	35	11	6	28	35	NON-PARAMETRIC	13	57	57	None
Sulfide, total	MG/L	100	0.04	3.1	0.46	0.6	1.62	2.90	NON-PARAMETRIC	0.9	4.0	4	None

Notes:

[a] UTL is identified as the 95% UCL on the 95th Percentile.

MG/L - milligrams per liter

UCL - Upper Confidence Limit

UTL - Upper Tolerance Limit

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TABLE 3-8

CALCULATED BACKGROUND CONCENTRATIONS FOR METALS
SITE 7 LANDFILL AREA
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Samples	Min	Max	Mean	Standard Deviation	95th Percentile	99th Percentile	Distribution	95% UCL on the Mean	UTL[a]	Background	Wells Exceeding Background 2009
Antimony	14	< 60	< 60	NA	NA	NA	NA	NA	NA	NA	< 60	None
Arsenic	14	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	< 5.0	None
Barium	14	25	693	130	224	642	683	Nonparametric	391	715	715	None
Beryllium	14	< 3	< 3	NA	NA	NA	NA	NA	NA	NA	< 3	None
Cadmium	14	26	26	4	6	11	23	Nonparametric	11.6	14.9	14.9	None
Calcium	2	19,900	118,000	68,950	69,367	113,095	117,019	NA	NA	NA	ND	NS
Chromium	14	10	26	8	6	18	25	Nonparametric	15.3	24.0	24.0	7-PZ-37 (28 µg/L - 2Q09)
Cobalt	14	< 50	< 50	NA	NA	NA	NA	NA	NA	NA	< 50	None
Copper	14	12	12	5	2	7	11	Nonparametric	6.3	10.3	10.3	None
Iron	2	29	29	32	4	35	35	NA	NA	NA	29.1	NS
Lead	23	3	5	2	1	4	5	Nonparametric	2.6	4.1	4.1	None
Magnesium	2	3,850	67,300	35,575	44,866	64,128	66,666	NA	NA	NA	ND	NS
Manganese	16	1	8,430	534	2,106	2,113	7,167	Nonparametric	5,772	5,848	5,848	None
Mercury	14	0	0	0	0	0	0	Nonparametric	0.1	0.2	0.2	None
Nickel	14	< 40	< 40	NA	NA	NA	NA	NA	NA	NA	< 40	None
Potassium	1	2,280	2,280	NA	NA	NA	NA	NA	NA	NA	ND	NS
Selenium	14	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	< 5.0	None
Silver	14	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	< 10	None
Sodium	1	32,400	32,400	NA	NA	NA	NA	NA	NA	NA	ND	NS
Thallium	23	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	< 1.0	None
Vanadium	14	< 50	< 50	NA	NA	NA	NA	NA	NA	NA	< 50	None
Zinc	16	15	113	36	25	85	107	Nonparametric	64	101	101	None
Background Calculations for Manganese in the Perched Zone at Site 7[c]												
Manganese	83	8	9,380	2,911	2,762	7,540	8,601	Nonparametric	5,928	15,068	15,068	None

Notes:

All units are micrograms per liter (µg/L)

[a] UTL is identified as the 95% UCL on the 95th Percentile.

[b] Includes manganese data from wells MAFB-148, -183, and -254

[c] Includes manganese data from perched-zone wells 7-BV-01, 7-BV-02, 7-BV-04, 7-BV-06, 7-PZ-37P, 7-PZ-38P, MAFB-044, and MAFB-189

Min and Max are for detected analytes only. The Mean is calculated using values of 1/2 the reporting limit when the sample is non detect for a given analyte

Background calculations were originally presented in the 2nd Quarter 2005 Mather Groundwater Monitoring Report.

NA - Not Applicable

ND - Not Determined

NS - Not Sampled. No samples analyzed for this constituent

UCL - Upper Confidence Limit

UTL - Upper Tolerance Limit

TABLE 4-1

2009 ANALYTICAL DETECTION SUMMARY
AC&W PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Contaminant of Concern	Cleanup Level (µg/L)
Trichloroethene	5.0

Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
ACW AT-1	C	Trichloroethene	NS	**12M**	NS	NS
ACW AT-2	C	Trichloroethene	NS	**12M**	NS	NS
ACW EW-1	C	Trichloroethene	NS	**6.0M**	NS	NS
ACW EW-2	C	Trichloroethene	NS	3.3M	NS	NS
ACW EW-3	C	Trichloroethene	NS	4.0M	NS	NS
ACW EW-4	C	Trichloroethene	NS	0.68M	NS	NS
ACW EW-6R	C	Trichloroethene	NS	**7.7M**	NS	NS
ACW PTE	NA	1,3-Dichlorobenzene	<3.0	0.15F	<3.0	<3.0
		Alkalinity, bicarbonate	74	60	39	NS
		Alkalinity, total	74	60	39	48
		Calcium	9270JM	10100J	10000J	10100J
		Chloride	3.4	3.6	3.4	3.4
		Copper	<10	<10	<10	1.5F
		Dichlorodifluoromethane	<4.0	<4.0	<4.0	0.24F
		Hardness as CaCO3	60	32	32	72J
		Iron	21F	<70	<70	<70
		Magnesium	4650JM	5310J	5230J	5230J
		Nitrogen, nitrate	2.6	2.7	2.6	2.6
		Sodium	8460JM	10500J	10000J	10200J
		Solids, total dissolved	122	132	129	141
		Sulfate	2.1	2.2	2.1	2.1
		Trichloroethene	<0.50	<0.50	<0.50M	0.20BF
		Zinc	4.8F	<50	<50	13F
ACW PTI	NA	1,3-Dichlorobenzene	0.18F	<3.0	<3.0	<3.0
		Alkalinity, bicarbonate	74	58	41	NS
		Alkalinity, total	74	58	41	56
		Calcium	22000JM	10100J	9670J	10200J
		Chloride	3.4	3.6	3.4	3.5
		Copper	<10	<10	<10	1.2F
		Hardness as CaCO3	40	24	28	40J
		Iron	7.7F	<70	<70	<70
		Magnesium	9160JM	5320J	5060J	5260J
		Methylene chloride	<2.0	0.41F	<2.0	<2.0M
		Nitrogen, nitrate	2.6	2.7	2.6	2.6
		Sodium	12400JM	10500J	9660J	10300J
		Solids, total dissolved	115	132	125	116
		Sulfate	2.1	2.2	2.1	2.1
		Trichloroethene	**5.8**	**5.6**	**6.9M**	**6.0**
		Zinc	2.7F	5.0F	<50	13F
ACW PZ-05	C	Trichloroethene	0.73	0.34F	0.41FM	0.44F
ACW PZ-06C	C	Trichloroethene	NS	0.51	NS	NS

TABLE 4-1

2009 ANALYTICAL DETECTION SUMMARY
AC&W PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well ID	Unit	Analyte[a]	2009Q1	2009Q2	2009Q3	2009Q4
ACW PZ-07C	C	Trichloroethene	NS	0.49F	NS	NS
ACW PZ-08C	C	Trichloroethene	NS	0.17F	NS	NS
ACW PZ-09C	C	Trichloroethene	NS	0.22F	NS	NS
ACW PZ-10C	C	Trichloroethene	NS	3.1	NS	NS
ACW R2	NA	Chloroform	<0.50	<0.50	0.38F	<0.50
MAFB-053	C	Trichloroethene	NS	2.0	NS	NS
MAFB-194	C	Trichloroethene	NS	3.2	NS	NS
MAFB-196	C	Trichloroethene	NS	2.1	NS	NS
MAFB-301	C	Trichloroethene	NS	2.7	NS	NS
MAFB-306	C	Trichloroethene	NS	1.8	NS	NS
MAFB-401	WT/C	Trichloroethene	NS	4.3	NS	NS
MAFB-402	WT/C	Trichloroethene	NS	1.9	NS	NS
MAFB-403	WT/C	Trichloroethene	NS	2.8	NS	NS
MAFB-408	WT/C	Trichloroethene	NS	0.49F	NS	NS
MAFB-432	WT/C	Trichloroethene	**9.3**	**8.0**	NS	NS
MAFB-433	WT/C	Trichloroethene	0.25F	<0.50	NS	<0.50
MAFB-453	WT	Trichloroethene	1.2	1.6	1.6M	2.7
MAFB-453C	C	Trichloroethene	0.23F	0.55	4.2M	**11**
MAFB-454	WT	Trichloroethene	0.89	1.0	1.1M	1.0
MAFB-454C	C	Trichloroethene	4.1	4.5	4.5M	**5.5**
MAFB-456	WT	Trichloroethene	0.28F	0.61	0.53M	0.42F
MAFB-456C	C	Trichloroethene	1.4	1.1	2.0M	0.98

Notes:

F - Result was below reporting limit

J - Estimated value flagged during data validation

M - Matrix effect was present

[a] Results for Alkalinity, Bicarbonate, Carbonate (or Hardness) , Chloride, Fluoride, Sulfate, and Solids, total dissolved are in mg/L. Results for all other analytes are in µg/L.

µg/L - micrograms per liter

TABLE 4-2

2009 OPERATION RATES AND TCE MASS REMOVED
BY AC&W PLUME TREATMENT SYSTEM AND EXTRACTION WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well	HSU	Set Point Flow Rate (gpm)	Quarterly Avg. Flow Rate (gpm)				TCE Concentration (µg/L)				Yearly TCE Mass Removed (lbs)
		-	1Q09	2Q09	3Q09	4Q09	1Q09	2Q09	3Q09	4Q09	
ACW Plant Influent (ACW PTI)	-	-	174.2	190.2	183.9	169.4	5.8	5.6	6.9	6.0	4.78
ACW AT-1	WT/C	8.0	7.1	7.1	5.9	5.2	NS	12	NS	NS	0.33
ACW AT-2	WT/C	13.0	14.5	14.9	12.4	3.6	NS	12	NS	NS	0.60
ACW EW-1	WT/C	30.0	23.2	38.3	38.0	36.9	NS	6	NS	NS	0.90
ACW EW-2	WT/C	33.0	32.8	32.7	32.0	32.9	NS	3.3	NS	NS	0.47
ACW EW-3	WT/C	33.0	34.7	35.0	34.0	31.5	NS	4	NS	NS	0.59
ACW EW-4	WT/C	27.0	26.8	27.0	26.8	27.0	NS	0.68	NS	NS	0.08
ACW EW-6R	WT/C	35.0	35.1	35.2	34.8	32.3	NS	7.7	NS	NS	1.16

Notes:
1 - Mass removed at plant calculated from quarterly influent samples. Mass removed at extraction wells calculated from scheduled sampling events at the well heads. Mass removal discrepancies between the plant and the sum of the extraction wells may exist and are considered normal.

µg/L - micrograms per liter
gpm - gallons per minute
HSU - hydrostartigraphic unit
lbs - pounds

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TABLE 4-3

2009 AC&W AND MATHER LAKE DISCHARGE MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNA

Date Sampled	Sample Location	Specific Conductivity (µmhos/cm)	pH (pH units)	Temperature (Degrees Celsius)	Turbidity (NTUs)	TCE Concentration (µg/L)	Total VOCs Concentration (µg/L)
02/04/09	R-2	166	8.4	12.7	21	<0.50	ND
02/04/09	AC&W Effluent	140	8.33	15.8	0	<0.50	ND
04/02/09	R-2	123	8.37	16.3	2	<0.50	ND
04/02/09	AC&W Effluent	150	8.87	17.2	1	<0.50	0.15[a]
07/23/09	R-2	129	8.4	24.8	2	<0.50	0.38[b]
07/23/09	AC&W Effluent	117	8.11	19.2	1	<0.50	ND
10/15/09	R-2	139	7.98	18.6	1	<0.50	ND
10/15/09	AC&W Effluent	126	8.64	19.1	0	<0.50	ND

Notes:

[a] 1,3-dichlorobenzene

[b] chloroform

µmhos/cm - Micromhos per centimeter

ND - No contaminants detected

NTUs - Nephelometric Turbidity Units

R-2 - Mather Lake "Downgradient" Sampling Location (before spillway)

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Contaminant of Concern	Cleanup Level (µg/L)
1,1-dichloroethene	6.0
1,2-dichloroethane	0.5
cis-1,2-dichloroethene	6.0
benzene	1.0
1,4-dichlorobenzene	5.0
chloromethane	3.0
vinyl chloride	0.5
trichloroethene	5.0
tetrachloroethene	5.0
TPH as diesel	100.0

Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
7-BV-01	NA	1,4-Dichlorobenzene	NS	4.4	NS	0.48F
		Benzene	NS	**5.3**	NS	<0.50
		Tetrachloroethene	NS	0.51	NS	<0.50
		Trichloroethene	NS	0.66	NS	0.25F
		Vinyl chloride	NS	**1.3**	NS	<0.50
7-BV-02	NA	1,1-Dichloroethene	NS	0.44F	NS	0.41F
		1,2-Dichloroethane	NS	**3.2**	NS	**3.8**
		1,4-Dichlorobenzene	NS	0.81	NS	0.69
		cis-1,2-Dichloroethene	NS	1.8	NS	1.4
		Tetrachloroethene	NS	2.2	NS	1.8
		Trichloroethene	NS	**13**	NS	**14**
		Vinyl chloride	NS	**0.52**	NS	**0.54**
7-BV-04	NA	1,4-Dichlorobenzene	NS	0.24F	NS	<0.50
		Tetrachloroethene	NS	0.41F	NS	<0.50
7-BV-06	NA	Tetrachloroethene	NS	0.35F	NS	<0.50
7-BV-07	NA	Tetrachloroethene	NS	1.4	NS	1.1
		Trichloroethene	NS	2.6	NS	3.3
7-BV-08	NA	Tetrachloroethene	NS	0.68	NS	0.46F
		Tetrachloroethene	NS	0.68	NS	0.46F
		Trichloroethene	NS	2.1	NS	4.3
		Trichloroethene	NS	2.1	NS	4.3
7-BV-13	NA	cis-1,2-Dichloroethene	NS	<0.50	NS	0.18F
		Tetrachloroethene	NS	1.2	NS	0.90
		TPH, diesel-range	NS	**180**	NS	<50
		Trichloroethene	NS	3.5	NS	3.8
7-EW-1	B	cis-1,2-Dichloroethene	NS	0.32F	NS	NS
		Tetrachloroethene	NS	1.3	NS	NS
		Trichloroethene	NS	**8.0M**	NS	NS

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
7-EW-2	B	1,1-Dichloroethene	NS	0.31F	NS	NS
		1,2-Dichloroethane	NS	**1.2**	NS	NS
		cis-1,2-Dichloroethene	NS	2.3	NS	NS
		Tetrachloroethene	NS	3.2	NS	NS
		Trichloroethene	NS	**23M**	NS	NS
7-PTE	NA	1,3-Dichlorobenzene	<3.0	0.14F	<3.0	<3.0
		Alkalinity, bicarbonate	155	155	131	NS
		Alkalinity, tota	155	155	131	134
		Calcium	22300J	32100J	31800J	33100J
		Chloride	8.6	8.8	8.8	8.9
		Copper	<10	1.6F	<10	<10
		Dichlorodifluoromethane	<4.0	<4.0	<4.0	0.25F
		Hardness as CaCO3	108	133	116	116
		Iron	8.8F	<70	<70	<70
		Magnesium	11500J	16200J	15900J	16400J
		Nitrogen, nitrate	2.7	2.3	2.2	2.1
		Sodium	12200R	17100J	16000J	16800J
		Solids, total dissolvec	195	236	258	242
		Sulfate	9.7	19	21	21
		Trichloroethene	<0.50	<0.50M	<0.50M	0.17FM
		Zinc	16F	48F	8.1F	16F
7-PTI	NA	1,1-Dichloroethane	<1.0	0.55F	<1.0	0.60F
		1,2-Dichlorobenzene	0.19F	<2.0	<2.0	<2.0
		1,2-Dichloroethane	<0.50	**0.77**	<0.50	**0.95J**
		1,2-Dichloropropane	<1.0	<1.0	<1.0	0.27F
		Alkalinity, bicarbonate	148	175	141	NS
		Alkalinity, tota	148	175	141	135
		Calcium	21900J	31700J	32600J	34600J
		Chloride	8.6	8.7	8.8	8.9
		cis-1,2-Dichloroethene	0.26F	1.4	1.9	1.5J
		Hardness as CaCO3	140	130	124	136
		Magnesium	11400J	15900J	16300J	17300J
		Methylene chloride	<2.0	0.38F	<2.0	<2.0M
		Nitrogen, nitrate	2.7	2.3	2.2	2.1
		Sodium	12000R	16800J	16400J	17700J
		Solids, total dissolvec	208	230	249	241
		Sulfate	9.7	19	21	21
		Tetrachloroethene	1.4	2.3	2.7	2.8
		TPH, gasoline-range	<50	<50	13F	9.0F
		Trichloroethene	**6.5**	**17M**	**22M**	**21M**
		Zinc	7.0F	<50	<50	40F
7-PZ-37	WT	1,1-Dichloroethene	<0.50	0.39F	0.38F	NS
		1,2-Dichloroethane	**1.2**	**0.84**	**1.0**	NS
		cis-1,2-Dichloroethene	0.70	0.77	0.53	NS
		Tetrachloroethene	2.4	3.9	3.5	NS
		Trichloroethene	**19**	**24**	**23**	NS

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 PLUME COCs
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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
7-PZ-37P	WTZPERCH	1,1-Dichloroethene	0.34F	<0.50	0.53	<0.50
		cis-1,2-Dichloroethene	1.3	<0.50	0.54	0.58
		Tetrachloroethene	4.5	2.8	4.7	2.2
		Trichloroethene	**5.9**	3.8	**6.3**	2.7
7-PZ-38P	WTZPERCH	1,4-Dichlorobenzene	NS	0.30F	NS	NS
		Tetrachloroethene	NS	0.53	NS	NS
		Trichloroethene	NS	0.19F	NS	NS
MAFB-041	B	1,2-Dichloroethane	NS	**8.3M**	NS	NS
		1,4-Dichlorobenzene	NS	0.33F	NS	NS
		cis-1,2-Dichloroethene	NS	**9.0**	NS	NS
		Tetrachloroethene	NS	3.6	NS	NS
		Trichloroethene	NS	**35**	NS	NS
MAFB-056	D	Trichloroethene	NS	0.69	NS	NS
MAFB-148	B	1,1-Dichloroethene	NS	0.41F	NS	NS
MAFB-149	WT/B	1,1-Dichloroethene	0.42F	<0.50	0.47F	0.51
		Tetrachloroethene	0.24F	<0.50	<0.50	0.20F
MAFB-284	B	1,2-Dichloroethane	0.26F	<0.50	<0.50	0.16F
		cis-1,2-Dichloroethene	0.25F	<0.50	<0.50	0.19F
		Tetrachloroethene	0.61	0.52	0.63	0.48F
		Trichloroethene	3.4	2.4	3.1	2.5
MAFB-285	C	Tetrachloroethene	NS	0.57	NS	NS
MAFB-300	C	Trichloroethene	NS	0.26F	NS	NS
MAFB-371C	C	Tetrachloroethene	NS	0.16F	NS	NS
		Trichloroethene	NS	2.5	NS	NS
MAFB-372B	B	cis-1,2-Dichloroethene	NS	0.28F	NS	NS
		Tetrachloroethene	NS	1.6	NS	NS
		Trichloroethene	NS	**6.7**	NS	NS
MAFB-373C	C	cis-1,2-Dichloroethene	NS	0.23F	NS	NS
		Tetrachloroethene	NS	1.4	NS	NS
		Trichloroethene	NS	**10**	NS	NS
MAFB-391	C	cis-1,2-Dichloroethene	NS	0.89	NS	NS
		Tetrachloroethene	NS	1.9	NS	NS
		Trichloroethene	NS	3.0M	NS	NS
MAFB-392	C	1,2-Dichloroethane	NS	**0.99M**	NS	NS
		cis-1,2-Dichloroethene	NS	0.73	NS	NS
		Tetrachloroethene	NS	1.9	NS	NS
		Trichloroethene	NS	**8.0**	NS	NS

2009 ANALYTICAL DETECTION SUMMARY
SITE 7 PLUME COCs
FORMER MATHER AIR FORCE BASE
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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-393	C	cis-1,2-Dichloroethene	NS	1.4	NS	NS
		Trichloroethene	NS	2.5M	NS	NS
MAFB-394	C	1,1-Dichloroethene	NS	0.45F	NS	NS
		cis-1,2-Dichloroethene	NS	1.1	NS	NS
		Tetrachloroethene	NS	3.5	NS	NS
		Trichloroethene	NS	**24M**	NS	NS
MAFB-395	C	1,1-Dichloroethene	NS	0.32F	NS	NS
		cis-1,2-Dichloroethene	NS	0.47F	NS	NS
		Tetrachloroethene	NS	2.3	NS	NS
		Trichloroethene	NS	**13M**	NS	NS
MAFB-396	B	Trichloroethene	NS	0.96M	NS	NS
MAFB-424	WT/C	1,1-Dichloroethene	0.95	0.98	1.8	1.2
		Tetrachloroethene	0.28F	0.23F	0.40F	0.32F
MAFB-444	B	Tetrachloroethene	0.34F	<0.50	0.26F	0.24F
		Trichloroethene	1.6	1.6	1.4M	1.4M
MAFB-445	B	Tetrachloroethene	0.55	0.53	0.51	0.46F
		Trichloroethene	3.6	3.5	2.9M	2.9M
MAFB-446	C	1,1-Dichloroethene	0.92	1.1	1.1	1.1
		1,2-Dichloroethane	0.46F	<0.50M	0.41F	**0.50**
		cis-1,2-Dichloroethene	1.7	1.6	1.7	1.8
		Tetrachloroethene	**6.6**	**9.2**	**9.4**	**9.3**
		Trichloroethene	**48**	**53**	**48M**	**57M**
MAFB-447	C	1,1-Dichloroethene	0.33F	0.37F	0.38F	0.46F
		cis-1,2-Dichloroethene	0.38F	0.21F	<0.50	0.30F
		Tetrachloroethene	1.5	2.1	1.9	2.1
		Trichloroethene	**15**	**15**	**15M**	**18M**
MAFB-448	B	cis-1,2-Dichloroethene	0.19F	<0.50	<0.50	<0.50
		Tetrachloroethene	1.2	1.3	1.3	1.2
		Trichloroethene	**7.5**	**8.5**	**8.3M**	**9.0M**

Notes:
all results in µg/L
F - Result was below reporting limit

TABLE 5-2

2009 OPERATION RATES AND VOLATILE ORGANIC COC MASS REMOVED BY THE SITE 7 PLUME TREATMENT SYSTEM AND EXTRACTION WELLS FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

WELL ID	HSU	Set Point Flow Rate (gpm)	Quarterly Avg. Flow Rate (gpm)				VOC Concentration (µg/L)				Yearly COC Mass Removed as VOCs (lbs)
		-	1Q09	2Q09	3Q09	4Q09	1Q09	2Q09	3Q09	4Q09	
Site 7 Plant Influent (PTI)	-	-	51.8	72.2	67.6	67.9	8.35	22.4	26.6	27.12	6.01
7-IW-01	B	N/A	14.1	24.6	20.4	25.8	N/A	N/A	N/A	N/A	N/A
7-IW-02	B	N/A	14.0	24.8	20.8	NA[1]	N/A	N/A	N/A	N/A	N/A
7-IW-03	B	N/A	14.0	24.7	19.9	25.7	N/A	N/A	N/A	N/A	N/A
7-IW-04	B	N/A	10.0	1.4	9.0	14.4	N/A	N/A	N/A	N/A	N/A
7-EW-1	C	50	34.6	34.2	31.5	30.8	NS	9.99	NS	NS	1.44
7-EW-2	C	50	25.5	40.5	36.8	34.8	NS	31.21	NS	NS	4.71

Notes:

Mass removed at plant calculated from quarterly influent samples. Mass removed at extraction wells calculated from scheduled sampling events at the well heads. Mass removal discrepancies between the plant and the sum of the extraction wells may exist and are considered normal.

1 - The flow control valve at 7-IW-02 malfunctioned in fourth quarter 2009 and the well did not operate during that time.

µg/L - micrograms per liter
gpm - gallons per minute
HSU - hydrostartigraphic unit
lbs - pounds

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2009 ANALYTICAL DETECTION SUMMARY
MAIN BASE/SAC AREA PLUME COCs
FORMER MATHER AIR FORCE BASE
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Contaminant of Concern	Cleanup Level (µg/L)
1,2-dichloroethane	0.5
cis-1,2-dichloroethene	6.0
benzene	1.0
carbon tetrachloride	0.5
xylenes	17.0
1,1-dichloroethene	6.0
chloromethane	3.0
trichloroethene	5.0
tetrachloroethene	5.0
TPH as gasoline	50.0
TPH as diesel	100.0
Lead	15.0

Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
FFS MW15-6	D	Carbon tetrachloride	NS	**2.5**	NS	NS
		cis-1,2-Dichloroethene	NS	0.35F	NS	NS
		Tetrachloroethene	NS	4.4	NS	NS
		Trichloroethene	NS	**7.5**	NS	NS
MAFB-033	WT/Bu	cis-1,2-Dichloroethene	NS	0.73	NS	NS
		Tetrachloroethene	NS	0.68	NS	NS
		Trichloroethene	NS	**6.9**	NS	NS
MAFB-048	WT	Tetrachloroethene	NS	**5.3**	NS	NS
		Trichloroethene	NS	0.21F	NS	NS
MAFB-060	D	Trichloroethene	NS	0.28F	NS	NS
MAFB-061	D	Tetrachloroethene	NS	0.36F	NS	NS
		Trichloroethene	NS	0.24F	NS	NS
MAFB-062	D	Tetrachloroethene	NS	0.22F	NS	NS
		Trichloroethene	NS	0.33F	NS	NS
MAFB-063	D	Tetrachloroethene	NS	**6.2**	NS	NS
MAFB-090	WT/Bu	Tetrachloroethene	NS	<0.50UJ	NS	NS
MAFB-094	WT/B	Trichloroethene	NS	3.1	NS	NS
MAFB-096	WT/B	cis-1,2-Dichloroethene	NS	0.76	NS	NS
		Trichloroethene	NS	1.2	NS	NS
MAFB-101	B	Tetrachloroethene	NS	**9.3**	NS	NS
MAFB-102	D	Carbon tetrachloride	NS	**2.9**	NS	NS
		cis-1,2-Dichloroethene	NS	0.24F	NS	NS
		Tetrachloroethene	NS	0.55	NS	NS
		Trichloroethene	NS	**8.0**	NS	NS
MAFB-104	D	Tetrachloroethene	NS	**7.2**	NS	NS
		Trichloroethene	NS	1.7M	NS	NS

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-122	WT	Tetrachloroethene	NS	0.91	NS	NS
		Trichloroethene	NS	0.24F	NS	NS
MAFB-155	WT/B	Trichloroethene	NS	0.26F	NS	NS
MAFB-159	WT	Trichloroethene	NS	0.26F	NS	NS
MAFB-164	B	Tetrachloroethene	NS	4.0	NS	NS
MAFB-167	B	Tetrachloroethene	NS	3.8	NS	NS
		Trichloroethene	NS	**13**	NS	NS
MAFB-168	WT/Bu	cis-1,2-Dichloroethene	NS	0.97	NS	NS
		Tetrachloroethene	NS	1.6	NS	NS
		Trichloroethene	NS	4.5	NS	NS
MAFB-170	B	Tetrachloroethene	NS	0.27F	NS	NS
		Trichloroethene	NS	0.37F	NS	NS
MAFB-171	B	Tetrachloroethene	NS	2.7	NS	NS
		Trichloroethene	NS	**6.2**	NS	NS
MAFB-172	WT/Bu	Tetrachloroethene	NS	<0.50UJ	NS	NS
		Trichloroethene	NS	0.49FJ	NS	NS
MAFB-173	B	Carbon tetrachloride	NS	**3.0J**	NS	NS
		Tetrachloroethene	NS	0.60J	NS	NS
		Trichloroethene	NS	3.2J	NS	NS
MAFB-174	Bu	Trichloroethene	NS	0.48FJ	NS	NS
MAFB-175	B	Tetrachloroethene	NS	**27**	NS	NS
		Trichloroethene	NS	1.0M	NS	NS
MAFB-176	Bu	Carbon tetrachloride	NS	<0.50UJ	NS	NS
		Trichloroethene	NS	3.2J	NS	NS
MAFB-177	B	Carbon tetrachloride	NS	**2.6**	NS	NS
		Tetrachloroethene	NS	**20**	NS	NS
		Trichloroethene	NS	1.3	NS	NS
MAFB-180	D	Carbon tetrachloride	NS	**5.8**	NS	NS
		Tetrachloroethene	NS	**91**	NS	NS
MAFB-181	D	Carbon tetrachloride	NS	**4.0J**	NS	NS
		Tetrachloroethene	NS	**37J**	NS	NS
MAFB-199	WT/Bu	Trichloroethene	NS	0.37F	NS	NS
MAFB-200	WT	Tetrachloroethene	NS	0.99J	NS	NS
		Trichloroethene	NS	1.9	NS	NS

2009 ANALYTICAL DETECTION SUMMARY
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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-201	WT/Bu	Tetrachloroethene	NS	0.28F	NS	NS
		Trichloroethene	NS	0.63	NS	NS
MAFB-202	WT	Tetrachloroethene	NS	0.37F	NS	NS
		Trichloroethene	NS	0.27F	NS	NS
MAFB-203	WT	1,1-Dichloroethene	NS	3.1	NS	NS
		Carbon tetrachloride	NS	**1.9**	NS	NS
		cis-1,2-Dichloroethene	NS	0.66	NS	NS
		Tetrachloroethene	NS	**12**	NS	NS
		TPH, gasoline-range	NS	17F	NS	NS
		Trichloroethene	NS	**26**	NS	NS
MAFB-204	WT	Trichloroethene	NS	0.49F	NS	NS
MAFB-205	WT	Trichloroethene	NS	0.94	NS	NS
MAFB-206	WT	1,1-Dichloroethene	NS	0.70	NS	NS
		Tetrachloroethene	NS	<0.50UJ	NS	NS
		Trichloroethene	NS	2.3	NS	NS
MAFB-207	WT	Carbon tetrachloride	NS	**4.0**	NS	NS
		Tetrachloroethene	NS	0.49F	NS	NS
		Trichloroethene	NS	**11**	NS	NS
MAFB-209	WT	Carbon tetrachloride	NS	0.35F	NS	NS
		Trichloroethene	NS	1.3	NS	NS
MAFB-210	WT	Carbon tetrachloride	NS	**0.82**	NS	NS
		Trichloroethene	NS	0.25F	NS	NS
MAFB-211	WT	Tetrachloroethene	NS	0.43F	NS	NS
		Trichloroethene	NS	3.1	NS	NS
MAFB-212	WT	Trichloroethene	NS	0.45F	NS	NS
MAFB-214	WT	Chloromethane	NS	0.55	NS	NS
		Tetrachloroethene	NS	1.7	NS	NS
		Trichloroethene	NS	2.6	NS	NS
MAFB-215	B	Carbon tetrachloride	NS	**2.6J**	NS	NS
		cis-1,2-Dichloroethene	NS	0.50	NS	NS
		Tetrachloroethene	NS	3.8J	NS	NS
		Trichloroethene	NS	**16M**	NS	NS
MAFB-216	B	Tetrachloroethene	NS	1.7	NS	NS
		Trichloroethene	NS	**5.2**	NS	NS
MAFB-217	B	Carbon tetrachloride	NS	**3.1**	NS	NS
		cis-1,2-Dichloroethene	NS	0.65	NS	NS
		Tetrachloroethene	NS	0.27F	NS	NS
		Trichloroethene	NS	**16**	NS	NS

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-218	B	1,1-Dichloroethene	NS	0.47F	NS	NS
		Carbon tetrachloride	NS	**12**	NS	NS
		cis-1,2-Dichloroethene	NS	0.39F	NS	NS
		Tetrachloroethene	NS	**9.2**	NS	NS
		Trichloroethene	NS	**12**	NS	NS
MAFB-220	B	1,1-Dichloroethene	NS	0.55	NS	NS
		Carbon tetrachloride	NS	**6.7**	NS	NS
		cis-1,2-Dichloroethene	NS	0.39F	NS	NS
		Tetrachloroethene	NS	4.3	NS	NS
		Trichloroethene	NS	**12**	NS	NS
MAFB-221	Bu	Trichloroethene	NS	0.45F	NS	NS
MAFB-222	B	Carbon tetrachloride	NS	**2.6**	NS	NS
		cis-1,2-Dichloroethene	NS	0.35F	NS	NS
		Tetrachloroethene	NS	**5.3**	NS	NS
		Trichloroethene	NS	4.6	NS	NS
MAFB-223	B	1,1-Dichloroethene	NS	0.49F	NS	NS
		Carbon tetrachloride	NS	**3.6**	NS	NS
		cis-1,2-Dichloroethene	NS	1.2	NS	NS
		Tetrachloroethene	NS	2.2	NS	NS
		Trichloroethene	NS	**16**	NS	NS
MAFB-224	B	Carbon tetrachloride	NS	**8.9**	NS	NS
		cis-1,2-Dichloroethene	NS	0.32F	NS	NS
		Tetrachloroethene	NS	1.1	NS	NS
		Trichloroethene	NS	**20**	NS	NS
MAFB-227	B	1,1-Dichloroethene	NS	0.52	NS	NS
		cis-1,2-Dichloroethene	NS	1.6	NS	NS
		Tetrachloroethene	NS	1.0	NS	NS
		Trichloroethene	NS	**12**	NS	NS
MAFB-228	B	Carbon tetrachloride	NS	**0.89**	NS	NS
		Tetrachloroethene	NS	**9.6**	NS	NS
		Trichloroethene	NS	0.17F	NS	NS
MAFB-229	B	Tetrachloroethene	NS	**39**	NS	NS
		Trichloroethene	NS	1.8	NS	NS
MAFB-231	B	Tetrachloroethene	NS	**6.7**	NS	NS
		Trichloroethene	NS	1.3	NS	NS
MAFB-232	WT/B	Carbon tetrachloride	NS	<0.50UJ	NS	NS
		cis-1,2-Dichloroethene	NS	0.65	NS	NS
		Trichloroethene	NS	2.8J	NS	NS
MAFB-235	D	Tetrachloroethene	NS	0.60	NS	NS
		Trichloroethene	NS	0.28F	NS	NS

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MAFB-239	D	Tetrachloroethene	NS	0.65	NS	NS
		Trichloroethene	NS	0.89	NS	NS
MAFB-240	D	Tetrachloroethene	NS	**9.0**	NS	NS
		Trichloroethene	NS	4.6	NS	NS
MAFB-242	D	Carbon tetrachloride	NS	**1.5**	NS	NS
		cis-1,2-Dichloroethene	NS	0.30F	NS	NS
		Tetrachloroethene	NS	**43**	NS	NS
		Trichloroethene	NS	**14**	NS	NS
MAFB-243	D	Tetrachloroethene	NS	2.6	NS	NS
		Trichloroethene	NS	0.97	NS	NS
MAFB-246	WT/Bu	Carbon tetrachloride	NS	**6.3J**	NS	NS
		Tetrachloroethene	NS	<0.50UJ	NS	NS
		Trichloroethene	NS	0.49FJ	NS	NS
MAFB-247	WT/B	cis-1,2-Dichloroethene	NS	0.90J	NS	NS
		Trichloroethene	NS	**5.3M**	NS	NS
MAFB-248	WT/B	1,1-Dichloroethene	NS	0.50J	NS	NS
		Carbon tetrachloride	NS	**2.8J**	NS	NS
		cis-1,2-Dichloroethene	NS	0.75	NS	NS
		Tetrachloroethene	NS	<0.50UJ	NS	NS
		Trichloroethene	NS	**6.9J**	NS	NS
MAFB-249	B	cis-1,2-Dichloroethene	NS	1.0J	NS	NS
		Tetrachloroethene	NS	0.49F	NS	NS
		Trichloroethene	NS	**10M**	NS	NS
MAFB-250	D	Tetrachloroethene	NS	0.31F	NS	NS
		Trichloroethene	NS	0.64	NS	NS
MAFB-258	WT/Bu	cis-1,2-Dichloroethene	NS	<0.50UJ	NS	NS
		Tetrachloroethene	NS	0.32F	NS	NS
		Trichloroethene	NS	2.2M	NS	NS
MAFB-261	Bu	Tetrachloroethene	NS	0.70	NS	NS
MAFB-263	Bu	Tetrachloroethene	NS	0.29F	NS	NS
MAFB-264	WT/Bu	1,1-Dichloroethene	NS	0.57	NS	NS
		Carbon tetrachloride	NS	**2.7**	NS	NS
		cis-1,2-Dichloroethene	NS	1.5	NS	NS
		Tetrachloroethene	NS	0.72	NS	NS
		Trichloroethene	NS	**15**	NS	NS
MAFB-265	B	1,1-Dichloroethene	NS	0.66J	NS	NS
		Carbon tetrachloride	NS	**2.9J**	NS	NS
		cis-1,2-Dichloroethene	NS	0.84	NS	NS
		Tetrachloroethene	NS	2.6J	NS	NS
		Trichloroethene	NS	**17J**	NS	NS

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MAFB-266	B	cis-1,2-Dichloroethene	NS	0.43F	NS	NS
		Tetrachloroethene	NS	2.6	NS	NS
		Trichloroethene	NS	**6.9**	NS	NS
MAFB-268	B	cis-1,2-Dichloroethene	NS	<0.50UJ	NS	NS
		Tetrachloroethene	NS	0.81	NS	NS
		Trichloroethene	NS	2.8	NS	NS
MAFB-270	B	Carbon tetrachloride	NS	<0.50UJ	NS	NS
		Tetrachloroethene	NS	<0.50UJ	NS	NS
MAFB-271	B	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	0.32	0.35	0.47M	<0.20UJ
MAFB-274	B	Tetrachloroethene	NS	1.1	NS	NS
MAFB-282	B	Tetrachloroethene	NS	0.77J	NS	NS
		Trichloroethene	NS	**8.8J**	NS	NS
MAFB-293	D	Carbon tetrachloride	0.32F	<0.50UJ	0.39F	0.31F
		Tetrachloroethene	0.22F	0.16FJ	<0.50M	0.18FM
MAFB-296	D	Carbon tetrachloride	NS	**1.0J**	NS	**1.1**
		Tetrachloroethene	NS	**5.1J**	NS	**6.7**
		Trichloroethene	NS	<0.50	NS	0.17F
MAFB-308	B	Tetrachloroethene	NS	1.9	NS	NS
MAFB-312	B	Carbon tetrachloride	NS	<0.50UJ	NS	NS
		Tetrachloroethene	NS	<0.50UJ	NS	NS
MAFB-313	B	Tetrachloroethene	NS	1.4J	NS	NS
		Trichloroethene	NS	0.21FJ	NS	NS
MAFB-314	D	Carbon tetrachloride	NS	**0.89**	NS	NS
		Tetrachloroethene	NS	**81**	NS	NS
		TPH, gasoline-range	NS	35F	NS	NS
		Trichloroethene	NS	0.65	NS	NS
MAFB-318	D	Carbon tetrachloride	**3.1**	**0.65J**	**4.0**	**2.7**
		Tetrachloroethene	1.7	2.6J	2.3M	2.0
MAFB-319	D	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	0.57	0.45	0.62M	0.28J
MAFB-320	D	Carbon tetrachloride	NS	**3.7**	NS	NS
		Tetrachloroethene	NS	**34**	NS	NS
MAFB-321	Dd	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	<0.20	<0.20	<0.20M	0.53J
MAFB-322	B	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	<0.20	<0.20	0.16FM	<0.20UJ
		Xylenes, total	<0.50	<0.50	0.13F	<0.50

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MAFB-324	B	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	0.23	0.19F	0.30M	<0.20UJ
MAFB-326	D	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	<0.20	<0.20	<0.20M	0.20J
MAFB-327	D	Tetrachloroethene	NS	0.076F	NS	NS
MAFB-328	D	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	0.21	0.19F	0.10FM	<0.20UJ
MAFB-330	B	Carbon tetrachloride	NS	<0.20	NS	0.47
		cis-1,2-Dichloroethene	NS	0.19F	NS	<0.50
		Tetrachloroethene	NS	0.29	NS	0.71
		Trichloroethene	NS	0.32	NS	0.66
MAFB-332	D	Tetrachloroethene	NS	2.1	NS	NS
MAFB-336	D	Tetrachloroethene	NS	<0.20	NS	0.15F
		Trichloroethene	NS	0.065F	NS	0.15F
MAFB-337	Dd	Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	<0.20	<0.20	<0.20M	0.26J
MAFB-338	Dd	Benzene	0.15F	<0.50	<0.50	<0.50
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	<0.20	0.050F	0.16FM	<0.20UJ
		Trichloroethene	<0.20	<0.20	<0.20M	<0.20
		Xylenes, total	<0.50	<0.50	0.13F	<0.50
MAFB-339	WT/B	Tetrachloroethene	NS	1.9	NS	NS
		Trichloroethene	NS	1.1	NS	NS
MAFB-340	WT/B	Tetrachloroethene	NS	1.7J	NS	NS
		Trichloroethene	NS	0.18FJ	NS	NS
MAFB-341	WT/B	Tetrachloroethene	NS	0.57	NS	NS
MAFB-342	WT/B	Tetrachloroethene	NS	0.73J	NS	NS
		Trichloroethene	NS	0.25FJ	NS	NS
MAFB-344	WT/B	Tetrachloroethene	NS	0.21F	NS	NS
MAFB-346Bd	B	Tetrachloroethene	NS	0.40F	NS	NS
		Trichloroethene	NS	0.23F	NS	NS
MAFB-346Bs	B	Carbon tetrachloride	NS	**0.59**	NS	NS
		Tetrachloroethene	NS	4.5	NS	NS
MAFB-348Ds	D	Trichloroethene	NS	0.33F	NS	NS
MAFB-354B	B	Carbon tetrachloride	<0.50	<0.50	<0.50	0.14F

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MAFB-357D	D	Tetrachloroethene	NS	1.4J	NS	NS
		Trichloroethene	NS	0.95J	NS	NS
MAFB-357Dd	Dd	Tetrachloroethene	NS	0.22FJ	NS	NS
		Trichloroethene	NS	1.2J	NS	NS
MAFB-357Ds	D	Trichloroethene	NS	0.42FJ	NS	NS
MAFB-358B	B	Tetrachloroethene	NS	0.41FJ	NS	NS
MAFB-358D	D	Tetrachloroethene	NS	**12J**	NS	NS
MAFB-359	WT/Bu	Tetrachloroethene	NS	0.47F	NS	NS
		Trichloroethene	NS	1.1	NS	NS
MAFB-361	B	Tetrachloroethene	NS	1.3	NS	NS
		Trichloroethene	NS	1.3	NS	NS
MAFB-362	B	Carbon tetrachloride	NS	**3.5**	NS	NS
		Tetrachloroethene	NS	**6.2**	NS	NS
		Trichloroethene	NS	4.0	NS	NS
MAFB-363	B	Tetrachloroethene	NS	**6.8**	NS	NS
		Trichloroethene	NS	0.51	NS	NS
MAFB-364B	B	Tetrachloroethene	NS	**16**	NS	NS
		Trichloroethene	NS	2.3M	NS	NS
MAFB-365B	B	Tetrachloroethene	NS	**15**	NS	NS
		Trichloroethene	NS	0.94M	NS	NS
MAFB-365D	D	Tetrachloroethene	NS	0.24F	NS	NS
		Trichloroethene	NS	0.18FM	NS	NS
MAFB-366B	B	Tetrachloroethene	NS	2.4J	NS	NS
MAFB-366D	D	Carbon tetrachloride	NS	**3.2J**	NS	NS
		Tetrachloroethene	NS	**32J**	NS	NS
MAFB-368B	B	Carbon tetrachloride	NS	**1.1**	NS	NS
		Tetrachloroethene	NS	**5.2**	NS	NS
MAFB-368D	D	Tetrachloroethene	NS	1.3	NS	NS
MAFB-369	D	Tetrachloroethene	NS	0.18F	NS	NS
		Trichloroethene	NS	0.23FM	NS	NS
MAFB-374	D	Tetrachloroethene	NS	0.49F	NS	NS
MAFB-375	D	Tetrachloroethene	NS	0.94	NS	NS
MAFB-376	D	Tetrachloroethene	NS	**19**	NS	NS

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-377	D	Carbon tetrachloride	NS	**2.8J**	NS	NS
		Tetrachloroethene	NS	3.8J	NS	NS
		Trichloroethene	NS	3.0J	NS	NS
MAFB-379B	B	Tetrachloroethene	NS	1.8	NS	NS
MAFB-379D	D	Tetrachloroethene	NS	3.0	NS	NS
MAFB-380B	B	Tetrachloroethene	NS	0.50	NS	NS
MAFB-380D	D	Tetrachloroethene	NS	0.25F	NS	NS
MAFB-381B	B	Tetrachloroethene	NS	4.0	NS	NS
		Trichloroethene	NS	0.17F	NS	NS
MAFB-382B	B	Carbon tetrachloride	NS	**1.3J**	NS	<0.50
		cis-1,2-Dichloroethene	NS	<0.50	NS	0.32F
		Tetrachloroethene	NS	2.1J	NS	<0.50
		Trichloroethene	NS	<0.50	NS	0.21F
MAFB-382D	D	cis-1,2-Dichloroethene	NS	0.21F	NS	NS
MAFB-383B	B	Trichloroethene	NS	0.20FJ	NS	NS
MAFB-384B	WT/B	Tetrachloroethene	NS	0.80	NS	NS
		Trichloroethene	NS	0.72	NS	NS
MAFB-384D	D	Tetrachloroethene	NS	0.21F	NS	NS
MAFB-404	WT/B	Trichloroethene	NS	1.2	NS	NS
MAFB-405	WT/B	Carbon tetrachloride	NS	0.22F	NS	NS
		Tetrachloroethene	NS	4.1	NS	NS
		Trichloroethene	NS	**27**	NS	NS
MAFB-407	WT/Bu	Tetrachloroethene	NS	0.41F	NS	NS
MAFB-410	WT/A	Carbon tetrachloride	NS	**2.6**	NS	NS
		Tetrachloroethene	NS	0.44F	NS	NS
MAFB-414	WT	Carbon tetrachloride	NS	**1.5**	NS	NS
		cis-1,2-Dichloroethene	NS	0.25F	NS	NS
		Tetrachloroethene	NS	2.6J	NS	NS
		Trichloroethene	NS	**6.7**	NS	NS
MAFB-415	WT/B	Tetrachloroethene	NS	0.23F	NS	NS
MAFB-417	WT/B	1,2-Dichloroethane	NS	**0.78**	NS	NS
		Carbon tetrachloride	NS	**1.9**	NS	NS
		cis-1,2-Dichloroethene	NS	4.8	NS	NS
		Tetrachloroethene	NS	2.4	NS	NS
		TPH, gasoline-range	NS	9.0F	NS	NS
		Trichloroethene	NS	**12**	NS	NS

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MAFB-418	WT	1,1-Dichloroethene	NS	**6.8**	NS	NS
		Carbon tetrachloride	NS	**3.1**	NS	NS
		cis-1,2-Dichloroethene	NS	0.66	NS	NS
		Tetrachloroethene	NS	**5.3**	NS	NS
		Trichloroethene	NS	**39**	NS	NS
MAFB-419	WT/B	TPH, diesel-range	NS	<50M	NS	<50
		Xylenes, total	NS	0.33F	NS	NS
MAFB-420	WT	1,1-Dichloroethene	NS	**8.8**	NS	NS
		Carbon tetrachloride	NS	0.38F	NS	NS
		cis-1,2-Dichloroethene	NS	0.81	NS	NS
		Tetrachloroethene	NS	**83**	NS	NS
		Trichloroethene	NS	**240**	NS	NS
MAFB-422	WT/Bu	cis-1,2-Dichloroethene	NS	0.46F	NS	NS
		Trichloroethene	NS	1.4	NS	NS
MAFB-423	WT/Bu	Trichloroethene	NS	1.4M	NS	NS
MAFB-423B	B	cis-1,2-Dichloroethene	NS	0.81J	NS	NS
		Tetrachloroethene	NS	0.17F	NS	NS
		Trichloroethene	NS	**5.3M**	NS	NS
MAFB-425	WT	cis-1,2-Dichloroethene	NS	0.63	NS	NS
		Tetrachloroethene	NS	1.3J	NS	NS
		Trichloroethene	NS	**5.1**	NS	NS
MAFB-426	B	Carbon tetrachloride	**0.60**	<0.50	**0.83**	**1.5**
		Tetrachloroethene	0.15F	<0.50	<0.50M	<0.50
MAFB-428	WT/B	Carbon tetrachloride	NS	0.44F	NS	NS
		Tetrachloroethene	NS	2.4	NS	NS
MAFB-429Bd	B	1,1-Dichloroethene	NS	0.58J	NS	NS
		cis-1,2-Dichloroethene	NS	1.2	NS	NS
		Tetrachloroethene	NS	4.5J	NS	NS
		Trichloroethene	NS	**23J**	NS	NS
MAFB-429Bs	B	1,1-Dichloroethene	NS	0.40FJ	NS	NS
		cis-1,2-Dichloroethene	NS	0.74	NS	NS
		Tetrachloroethene	NS	2.4J	NS	NS
		Trichloroethene	NS	**13J**	NS	NS
MAFB-430	LMT	Carbon tetrachloride	NS	**0.77**	NS	NS
		Tetrachloroethene	NS	3.5	NS	NS
MAFB-431Bd	Bd	1,1-Dichloroethene	NS	0.36F	NS	NS
		cis-1,2-Dichloroethene	NS	0.78	NS	NS
		Tetrachloroethene	NS	3.2	NS	NS
		Trichloroethene	NS	**16**	NS	NS
MAFB-431Dd	Dd	cis-1,2-Dichloroethene	NS	0.26F	NS	NS
		Tetrachloroethene	NS	0.20F	NS	NS
		Trichloroethene	NS	1.2	NS	NS

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-431Ds	Ds	cis-1,2-Dichloroethene	NS	0.21F	NS	NS
		Trichloroethene	NS	0.64	NS	NS
MAFB-434Bd	Bd	cis-1,2-Dichloroethene	0.62	0.82	NS	<0.50UJ
		Tetrachloroethene	1.3	3.1	NS	3.2M
		Trichloroethene	**8.9**	**18**	NS	**18**
MAFB-435	Dd	Carbon tetrachloride	**1.6**	**2.7**	**1.9**	**1.1**
		Tetrachloroethene	**13**	**12**	**15M**	**9.1**
MAFB-436	WT	Tetrachloroethene	NS	NS	NS	4.3
MAFB-437Ds	Ds	Tetrachloroethene	0.56	0.94	NS	NS
MAFB-439	WT	Carbon tetrachloride	**7.1**	**9.0**	**12**	**14**
		cis-1,2-Dichloroethene	0.23F	<0.50	<0.50	<0.50
		Tetrachloroethene	**49**	**53J**	**61M**	**77M**
		TPH, diesel-range	<50	<50M	<50M	<50
		TPH, gasoline-range	21F	18F	29F	27F
		Trichloroethene	0.27F	0.23F	0.17F	0.24F
MAFB-442	D	Tetrachloroethene	<0.50	<0.50	<0.50	<0.50M
		Trichloroethene	<0.50	<0.50	<0.50	0.16F
MAFB-449Bs	Bs	Trichloroethene	<0.50	<0.50	<0.50	0.36F
MAFB-450	WT/Bu	Tetrachloroethene	<0.50	<0.50UJ	0.22FM	<0.50M
MAFB-451	B	Carbon tetrachloride	<0.50	<0.50	<0.50UJ	<0.50
		cis-1,2-Dichloroethene	0.78	0.77J	0.96	0.30F
		Tetrachloroethene	3.1	2.8	2.6M	3.8M
		Trichloroethene	**13**	**13**	**14**	**16**
MAFB-452B	B	1,1-Dichloroethene	0.69	0.55	1.9	0.63
		Carbon tetrachloride	**2.8**	<0.50	<0.50UJ	<0.50
		cis-1,2-Dichloroethene	<0.50	1.1J	1.7	0.79
		Tetrachloroethene	**11**	**8.7**	**15M**	**13M**
		Trichloroethene	**40**	**36**	**51**	**48**
MAFB-452Bu	WT/Bu	1,1-Dichloroethene	<0.50	<0.50	0.52	<0.50
		cis-1,2-Dichloroethene	<0.50	1.5J	3.0	1.4
		Tetrachloroethene	3.3	3.8	**5.7M**	**5.4M**
		Trichloroethene	**9.9**	**12**	**19**	**18**
MAFB-457Bd	Bd	cis-1,2-Dichloroethene	0.17F	<0.50UJ	<0.50	<0.50
		Trichloroethene	0.26F	<0.50	<0.50	<0.50
MAFB-457Bs	Bs	cis-1,2-Dichloroethene	0.56	<0.50UJ	0.33F	0.47F
		Tetrachloroethene	1.1	2.1	2.0	1.9
		Trichloroethene	**9.4**	**9.4**	**9.6**	**10**
MAFB-458Bd	Bd	cis-1,2-Dichloroethene	0.71	0.85J	0.24F	0.33F
		Tetrachloroethene	1.1	1.9	0.87	0.77
		Trichloroethene	**11**	**13M**	**5.4**	**5.5**

2009 ANALYTICAL DETECTION SUMMARY
MAIN BASE/SAC AREA PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-458Bs	Bs	cis-1,2-Dichloroethene	0.55	0.58J	0.26F	0.47F
		Tetrachloroethene	0.47F	0.63	0.67	0.59
		Trichloroethene	4.5	4.6M	4.3	4.4
MAFB-460Bd	Bd	Trichloroethene	NS	NS	NS	0.29F
MAFB-460Bs	Bs	Trichloroethene	NS	NS	NS	3.7
MBS 39ABuB	WT/B	Tetrachloroethene	NS	**5.9**	NS	NS
		Trichloroethene	NS	0.39F	NS	NS
MBS EW-10B	B	Carbon tetrachloride	NS	0.38F	NS	NS
		Tetrachloroethene	NS	**17**	NS	NS
		Trichloroethene	NS	0.79	NS	NS
MBS EW-11B	B	Carbon tetrachloride	NS	**0.91**	NS	NS
		Tetrachloroethene	NS	3.7	NS	NS
MBS EW-12AB	WT/B	Tetrachloroethene	NS	1.2	NS	NS
		Trichloroethene	NS	0.39F	NS	NS
MBS EW-12B	B	Tetrachloroethene	NS	0.30F	NS	NS
MBS EW-13BuB	Bu/B	1,1-Dichloroethene	<0.50	0.36F	<0.50	0.36F
		cis-1,2-Dichloroethene	<0.50	0.76	1.0	0.75
		Tetrachloroethene	3.1	3.0	3.3	3.2
		Trichloroethene	**15**	**14**	**18**	**17**
MBS EW1ABu	WT/Bu	1,1-Dichloroethene	NS	1.6	NS	NS
		cis-1,2-Dichloroethene	NS	0.36F	NS	NS
		Tetrachloroethene	NS	**19**	NS	NS
		Trichloroethene	NS	**68**	NS	NS
MBS EW-1B	B	Trichloroethene	NS	0.79	NS	NS
MBS EW-1Bu	WT/Bu	cis-1,2-Dichloroethene	NS	0.80J	NS	NS
		Tetrachloroethene	NS	0.59	NS	NS
		Trichloroethene	NS	2.0	NS	NS
MBS EW-1D	D	Tetrachloroethene	NS	**42**	NS	NS
		TPH, gasoline-range	NS	14F	NS	NS
		Trichloroethene	NS	0.61	NS	NS
MBS EW2ABu	WT/Bu	1,1-Dichloroethene	NS	1.1	NS	NS
		Tetrachloroethene	NS	**13**	NS	NS
		Trichloroethene	NS	**43**	NS	NS
MBS EW-2AR	WT/A	1,1-Dichloroethene	NS	0.70	NS	NS
		Carbon tetrachloride	NS	**7.2**	NS	NS
		cis-1,2-Dichloroethene	NS	0.25F	NS	NS
		Tetrachloroethene	NS	**8.0**	NS	NS
		Trichloroethene	NS	**10**	NS	NS
MBS EW-2B	B	Tetrachloroethene	NS	**27**	NS	NS
		Trichloroethene	NS	**6.5**	NS	NS

2009 ANALYTICAL DETECTION SUMMARY
MAIN BASE/SAC AREA PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MBS EW-2D	D	Carbon tetrachloride	NS	**0.70**	NS	NS
		Tetrachloroethene	NS	**30**	NS	NS
		Trichloroethene	NS	2.3	NS	NS
MBS EW-3B	B	Tetrachloroethene	NS	**14**	NS	NS
		Trichloroethene	NS	**5.5**	NS	NS
MBS EW-3Bu	Bu	Tetrachloroethene	NS	0.28F	NS	NS
		Trichloroethene	NS	0.26F	NS	NS
MBS EW-3D	D	Carbon tetrachloride	NS	**0.69**	NS	NS
		Tetrachloroethene	NS	**56**	NS	NS
		Trichloroethene	NS	1.9	NS	NS
MBS EW-4A	WT/B	Tetrachloroethene	NS	0.44F	NS	NS
MBS EW4ABu	WT/Bu	1,1-Dichloroethene	NS	1.2	NS	NS
		Carbon tetrachloride	NS	**5.6**	NS	NS
		cis-1,2-Dichloroethene	NS	0.38F	NS	NS
		Tetrachloroethene	NS	**7.6**	NS	NS
		Trichloroethene	NS	**20**	NS	NS
MBS EW-4B	B	Tetrachloroethene	NS	**5.5**	NS	NS
		Trichloroethene	NS	0.53	NS	NS
MBS EW-4Bu	WT/Bu	1,1-Dichloroethene	NS	0.37F	NS	NS
		cis-1,2-Dichloroethene	NS	0.57J	NS	NS
		Tetrachloroethene	NS	**6.0**	NS	NS
		Trichloroethene	NS	**18**	NS	NS
MBS EW-4D	D	Tetrachloroethene	NS	**25**	NS	NS
		Trichloroethene	NS	0.55	NS	NS
MBS EW5ABu	WT/Bu	1,1-Dichloroethene	NS	**6.2**	NS	NS
		Carbon tetrachloride	NS	**7.3**	NS	NS
		cis-1,2-Dichloroethene	NS	0.60	NS	NS
		Tetrachloroethene	NS	**18**	NS	NS
		Trichloroethene	NS	**68**	NS	NS
MBS EW-5B	B	Tetrachloroethene	NS	**6.3**	NS	NS
MBS EW-5D	D	Tetrachloroethene	NS	**5.7**	NS	NS
MBS EW6ABu	WT/Bu	Tetrachloroethene	NS	1.0	NS	NS
		Trichloroethene	NS	0.95	NS	NS
MBS EW-6B	B	Tetrachloroethene	NS	2.6	NS	NS
		Trichloroethene	NS	0.34F	NS	NS
MBS EW-6D	D	Tetrachloroethene	NS	**5.0**	NS	NS
MBS EW7ABu	WT/Bu	Tetrachloroethene	NS	2.5	NS	NS
		Trichloroethene	NS	0.26F	NS	NS
MBS EW-7B	B	Tetrachloroethene	NS	**6.1**	NS	NS
		Trichloroethene	NS	0.33F	NS	NS

2009 ANALYTICAL DETECTION SUMMARY
MAIN BASE/SAC AREA PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MBS EW-8B	B	Tetrachloroethene	NS	1.5	NS	NS
MBS EW-9B	B	cis-1,2-Dichloroethene	NS	0.60J	NS	NS
		Tetrachloroethene	NS	2.2	NS	NS
		Trichloroethene	NS	**6.0**	NS	NS
MBS PTE AF	NA	1,3-Dichlorobenzene	<3.0	0.16F	<3.0	<3.0
		1,4-Dichlorobenzene	<0.50	0.21BF	<0.50	<0.50
		Alkalinity, bicarbonate	143	119	100	NS
		Alkalinity, total	143	119	100	98
		Barium	59	58	62	62
		Chloride	6.8	7.2	6.9	7.0
		Chromium	4.1F	4.9F	4.4F	4.6F
		Copper	<10	1.4F	<10	<10
		Dichlorodifluoromethane	<4.0	<4.0	<4.0	0.24F
		Hardness as CaCO3	88	80	89	88
		Nitrogen, nitrate	3.2	3.2	3.2	3.2
		Perchlorate	<3.0	<3.0	1.0F	<3.0
		Silver	<10	1.0F	0.29F	<10
		Solids, total dissolved	175	188	200	178
		Sulfate	9.6	10	10	10
		Thallium	<1.0	0.055F	<1.0	0.22F
		Trichloroethene	<0.50	<0.50	<0.50	0.21F
		Vanadium	10F	10F	11F	11F
		Zinc	<50	50	<50	12F
MBS PTI	NA	Alkalinity, bicarbonate	136	113	97	NS
		Alkalinity, total	136	113	97	101
		Barium	59	59	59	62
		Carbon tetrachloride	**0.96**	<0.50	**0.86J**	**1.3**
		Chloride	6.8	7.2	6.9	7.0
		Chloroform	0.22F	<0.50	0.16F	0.23F
		Chromium	4.5F	5.0F	4.3F	4.7F
		cis-1,2-Dichloroethene	<0.50	0.21FJ	<0.50	0.17F
		Hardness as CaCO3	108	72	80	85
		Manganese	<15	<15	<15	5.2F
		Methylene chloride	<2.0	0.52F	<2.0	<2.0
		Nickel	2.5F	<40	<40	0.52F
		Nitrogen, nitrate	3.2	3.3	3.2	3.2
		Selenium	<5.0	3.2F	<5.0	<5.0
		Silver	<10	0.84F	0.31F	<10
		Solids, total dissolved	154	197	193	163
		Sulfate	9.5	10	10	10
		Tetrachloroethene	**11**	**9.4**	**9.5**	**9.6**
		Thallium	<1.0	0.059F	<1.0	0.14F
		TPH, gasoline-range	12F	<50	<50	<50
		Trichloroethene	3.3	4.4	4.7	4.1
		Vanadium	11F	10F	11F	11F
		Zinc	2.9F	9.1F	<50	9.4F

2009 ANALYTICAL DETECTION SUMMARY
MAIN BASE/SAC AREA PLUME COCs
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MBS PZ-11	B	Tetrachloroethene	NS	0.44F	NS	NS
MBS PZ-12	LMT	Tetrachloroethene	NS	0.46F	NS	NS
MBS PZ-13	Dd	Tetrachloroethene	NS	0.99	NS	NS
MBS PZ-37	B	Tetrachloroethene	NS	1.7	NS	NS
MBS PZ-38	B	Tetrachloroethene	NS	4.4	NS	NS
		Trichloroethene	NS	0.33F	NS	NS
MBS PZ-39	B	Carbon tetrachloride	NS	0.27F	NS	NS
		Tetrachloroethene	NS	3.8	NS	NS
MBS PZ-42D	B	Tetrachloroethene	NS	**6.4**	NS	NS
MBS PZ-44	B	Tetrachloroethene	NS	0.64	NS	NS
		Trichloroethene	NS	1.3	NS	NS
MBS PZ-50S	D	Tetrachloroethene	NS	**110**	NS	NS
		Trichloroethene	NS	0.25F	NS	NS
MBS PZ-51	D	Carbon tetrachloride	NS	**2.0**	NS	NS
		cis-1,2-Dichloroethene	NS	0.29F	NS	NS
		Tetrachloroethene	NS	**36**	NS	NS
		Trichloroethene	NS	2.7	NS	NS
MBS PZ-52	D	Tetrachloroethene	NS	**5.4**	NS	NS
MBS PZ-54	D	Carbon tetrachloride	NS	**0.56**	NS	NS
		Tetrachloroethene	NS	**7.7**	NS	NS
MBS PZ-55B	B	Tetrachloroethene	NS	**5.2**	NS	NS
		Trichloroethene	NS	**13**	NS	NS
MBS PZ-55Bu	Bu	cis-1,2-Dichloroethene	NS	1.0	NS	NS
		Tetrachloroethene	NS	3.5	NS	NS
		Trichloroethene	NS	**8.5**	NS	NS
MBS PZ-58	D	Carbon tetrachloride	NS	<0.50UJ	NS	NS
		Tetrachloroethene	NS	<0.50UJ	NS	NS

Notes:
[a] Results for Alkalinity, Bicarbonate, Carbonate (or Hardness) , Chloride, Fluoride, Sulfate, and Solids, total dissolved are in mg/L. Results for all other analytes are in µg/L.
B - Analyte was found in the associated blank, as well as in the sample
F - Result below the reporting limit
J - Estimated value flagged during data validation
M - Matrix effect was present
UJ - Result is not detected, but is estimated

TABLE 6-2

2009 OPERATION RATES AND VOLATILE ORGANIC COC MASS REMOVED BY MAIN BASE/SAC AREA PLUME TREATMENT SYSTEM AND EXTRACTION WELLS FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA

Well	HSU	Set Point Flow Rate	Quarterly Avg. Flow Rate (gpm)				Volatile Organic COC Concentration (µg/L)				Volatile Organic COCs - Yearly Mass Removed (lbs)
		-	1Q09	2Q09	3Q09	4Q09	1Q09	2Q09	3Q09	4Q09	
Main Base/SAC Area Plume Treatment Plant Influent (MBS PTI)	-	-	1541.9	1731.1	1676.7	1613.9	15.1	13.6	16.0	15.5	108.13
MBS IW-501	LMT	N/A	222.0	313.5	329.5	304.1	N/A	N/A	N/A	N/A	N/A
MBS IW-502	LMT	N/A	421.6	424.8	417.5	424.9	N/A	N/A	N/A	N/A	N/A
MBS IW-503	LMT	N/A	850.1	973.9	914.4	888.5	N/A	N/A	N/A	N/A	N/A
MBS IW-504	LMT	N/A	28.3	24.9	24.6	21.1	N/A	N/A	N/A	N/A	N/A
MBS EW-2AR	WT/A	6	13.1	12.5	9.4	8.3	NS	27.8	NS	NS	1.32
MBS EW-1ABu	WT/Bu	13	10.1	12.1	12.6	12.5	NS	89.2	NS	NS	4.63
MBS EW-2ABu	WT/Bu	18	8.5	17.7	10.0	2.3	NS	57.3	NS	NS	2.42
MBS EW-4ABu	WT/Bu	12	11.9	12.9	10.3	10.6	NS	36.0	NS	NS	1.80
MBS EW-5ABu	WT/Bu	10	8.3	8.3	7.1	6.7	NS	100.9	NS	NS	3.36
MBS EW-6ABu	WT/Bu	10	3.0	9.6	9.6	9.5	NS	2.0	NS	NS	0.07
MBS EW-7ABu	WT/Bu	40	44.3	42.9	42.5	40.7	NS	3.0	NS	NS	0.55
39EW-1ABuB	WT/B	35	39.9	39.9	37.0	21.0	NS	6.5	NS	NS	0.99
MBS EW-12AB	WT/B	60	59.7	59.7	59.0	58.3	NS	1.3	NS	NS	0.34
MBS EW-1B	B	100	99.5	99.5	98.0	97.2	NS	1.1	NS	NS	0.45
MBS EW-2B	B	110	107.5	109.5	108.2	100.8	NS	33.8	NS	NS	15.80
MBS EW-3B	B	100	79.9	71.8	63.7	45.9	NS	19.8	NS	NS	5.66
MBS EW-4B	B	45	39.2	32.2	32.4	31.5	NS	6.3	NS	NS	0.94
MBS EW-5B	B	48	47.7	47.6	47.0	46.5	NS	6.6	NS	NS	1.37

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TABLE 6-2

2009 OPERATION RATES AND VOLATILE ORGANIC COC MASS REMOVED
BY MAIN BASE/SAC AREA PLUME TREATMENT SYSTEM AND EXTRACTION WELLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well	HSU	Set Point Flow Rate	Quarterly Avg. Flow Rate (gpm)				Volatile Organic COC Concentration (µg/L)				Volatile Organic COCs - Yearly Mass Removed (lbs)
		-	1Q09	2Q09	3Q09	4Q09	1Q09	2Q09	3Q09	4Q09	
MBS EW-6B	B	48	5.9	47.7	47.1	47.9	NS	3.5	NS	NS	0.56
MBS EW-7B	B	40	20.9	23.4	24.3	24.5	NS	6.6	NS	NS	0.67
MBS EW-8B	B	50	49.6	48.4	48.9	47.9	NS	1.9	NS	NS	0.40
MBS EW-9B	B	90	47.0	89.2	84.3	87.5	NS	9.2	NS	NS	3.10
MBS EW-10B	B	100	47.0	73.6	78.3	67.0	NS	19.0	NS	NS	5.55
MBS EW-11B	B	80	62.6	75.2	73.9	71.5	NS	5.2	NS	NS	1.62
MBS EW-12B	B	175	100.3	174.7	122.6	148.2	NS	0.8	NS	NS	0.47
MBS EW-13BuB	Bu/B	125	96.8	120.6	122.3	121.7	18.7	18.6	22.3	21.3	10.22
MBS EW-1Bu	WT/Bu	13	1.6	12.8	6.3	5.5	NS	4.0	NS	NS	0.11
MBS EW-4Bu	WT/Bu	52	38.3	21.8	24.6	23.7	NS	25.4	NS	NS	3.02
MBS EW-1D	D	110	109.6	108.6	105.2	101.8	NS	56.8	NS	NS	26.46
MBS EW-2D	D	50	50.6	50.0	49.4	48.5	NS	33.4	NS	NS	7.26
MBS EW-3D	D	43	42.8	42.8	37.4	33.9	NS	58.9	NS	NS	10.12
MBS EW-4D	D	52	46.6	46.1	45.3	45.8	NS	25.6	NS	NS	5.17
MBS EW-5D	D	100	96.8	99.5	97.9	97.0	NS	6.3	NS	NS	2.72
MBS EW-6D	D	100	99.5	94.6	90.8	92.5	NS	5.4	NS	NS	2.24

Notes:
µg/L - micrograms per liter
COC - contaminant of concern
gpm - gallons per minute
lbs - pounds

TABLE 7-1

2009 ANALYTICAL DETECTION SUMMARY
OFF-BASE MONITORING PROGRAM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-322	B	1,2-Dichlorobenzene	<0.50	<0.50	0.072F	<0.50
		1,3,5-Trimethylbenzene	<0.50	<0.50	0.078BF	<0.50
		1,3-Dichlorobenzene	<0.50	<0.50	0.087BF	<0.50
		1,4-Dichlorobenzene	<0.50	<0.50	0.097BF	<0.50
		2-Chlorotoluene	<0.50	<0.50	0.069F	<0.50
		4-Chlorotoluene	<0.50	<0.50	0.10F	<0.50
		Chloroform	0.13F	0.091F	0.13F	<0.50
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Dichlorodifluoromethane	<0.50	<0.50	0.20FM	<0.50
		Ethylbenzene	<0.50	<0.50	0.088F	<0.50
		Isopropylbenzene	<0.50	<0.50	0.065BF	<0.50
		n-Butylbenzene	<0.50	<0.50	0.17BF	<0.50
		n-Propylbenzene	<0.50	<0.50	0.079BF	<0.50
		p-Isopropyltoluene	<0.50	<0.50	0.095BF	<0.50
		sec-Butylbenzene	<0.50	<0.50	0.097BF	<0.50
		Tetrachloroethene	<0.20	<0.20	0.16FM	<0.20UJ
		Xylenes, total	<0.50	<0.50	0.13F	<0.50
MAFB-324	B	Bromodichloromethane	0.11F	0.085F	<0.50	<0.50
		Chloroform	0.41F	0.33F	0.35F	0.11F
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	0.23	0.19F	0.30M	<0.20UJ
MAFB-326	D	Chloroform	<0.50	<0.50	<0.50	0.32F
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Methylene chloride	0.40BFM	<0.50	<0.50	<0.50
		Tetrachloroethene	<0.20	<0.20	<0.20M	0.20J
MAFB-327	D	Tetrachloroethene	NS	0.076F	NS	NS
MAFB-328	D	Bromodichloromethane	0.071F	<0.50	<0.50	<0.50
		Chloroform	0.34F	0.27F	0.31F	<0.50
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Methylene chloride	0.20BFM	<0.50	<0.50	<0.50
		Tetrachloroethene	0.21	0.19F	0.10FM	<0.20UJ
MAFB-330	B	Carbon tetrachloride	NS	<0.20	NS	0.47
		cis-1,2-Dichloroethene	NS	0.19F	NS	<0.50
		Tetrachloroethene	NS	0.29	NS	0.71
		Trichloroethene	NS	0.32	NS	0.66
MAFB-336	D	Tetrachloroethene	NS	<0.20	NS	0.15F
		Trichloroethene	NS	0.065F	NS	0.15F
MAFB-337	Dd	Chloroform	<0.50	<0.50	<0.50	0.31F
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Tetrachloroethene	<0.20	<0.20	<0.20M	0.26J

TABLE 7-1

2009 ANALYTICAL DETECTION SUMMARY
OFF-BASE MONITORING PROGRAM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
MAFB-338	Dd	1,2-Dichlorobenzene	<0.50	<0.50	0.059F	<0.50
		1,3-Dichlorobenzene	<0.50	<0.50	0.069BF	<0.50
		1,4-Dichlorobenzene	<0.50	<0.50	0.066BF	<0.50
		Benzene	0.15F	<0.50	<0.50	<0.50
		Chloromethane	<0.50M	<0.50	<0.50M	<0.50
		Ethylbenzene	<0.50	<0.50	0.045F	<0.50
		Methylene chloride	0.19BFM	<0.50	<0.50	<0.50
		Naphthalene	<0.50	<0.50	0.11F	<0.50M
		n-Butylbenzene	<0.50	<0.50	0.17BF	<0.50
		n-Propylbenzene	<0.50	<0.50	0.072BF	<0.50
		p-Isopropyltoluene	<0.50	<0.50	0.12BF	<0.50
		sec-Butylbenzene	<0.50	<0.50	0.079BF	<0.50
		Tetrachloroethene	<0.20	0.050F	0.16FM	<0.20UJ
		Toluene	0.16F	0.15F	0.16F	<0.50
		Trichloroethene	<0.20	<0.20	<0.20M	<0.20
		Vinyl chloride	<0.50	<0.50M	<0.50	<0.50
		Xylenes, total	<0.50	<0.50	0.13F	<0.50
MAFB-378B	B	Chloroform	0.41F	0.28F	0.54	0.36BF
OFB-04	NA	1,1,2,2-Tetrachloroethane	<0.50	<0.50	0.085F	<0.50
		Bromodichloromethane	<0.50	<0.50	0.085F	0.25F
		Bromoform	<0.50	<0.50	0.13F	0.40F
		Carbon tetrachloride	0.20	0.15F	0.26	0.14F
		Chloroform	<0.50	<0.50	0.11F	0.30F
		Dibromochloromethane	<0.50	<0.50M	0.16F	0.42F
		Methylene chloride	<0.50M	<0.50	<0.50M	<0.50
		n-Butylbenzene	<0.50	<0.50	<0.50	0.070F
		Tetrachloroethene	0.055FM	0.074F	0.067F	<0.20
OFB-07	NA	Tetrachloroethene	NS	0.39F	NS	NS
		Trichloroethene	NS	3.7	NS	NS
OFB-09	NA	Tetrachloroethene	NS	0.17F	NS	NS
		Trichloroethene	NS	0.55	NS	NS
OFB-12	NA	Carbon tetrachloride	NS	0.14F	NS	NS
		Trichloroethene	NS	3.2	NS	NS
OFB-24	NA	Chloroform	NS	0.36F	NS	NS
		Tetrachloroethene	NS	0.28F	NS	NS
OFB-27	NA	1,2,4-Trichlorobenzene	<0.50	<0.50	0.061F	<0.50
		Bromodichloromethane	<0.50	<0.50	<0.50	0.19F
		Chloroform	0.23F	0.19F	0.16F	0.43F
		Dibromochloromethane	<0.50	<0.50	<0.50	0.36F
		Methylene chloride	<0.50M	<0.50	<0.50M	0.54B
		Tetrachloroethene	0.066FM	<0.20	0.058F	<0.20
		Trichloroethene	0.051F	0.044F	0.045F	<0.20

TABLE 7-1

2009 ANALYTICAL DETECTION SUMMARY
OFF-BASE MONITORING PROGRAM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CA

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Well ID	Unit	Analyte	2009Q1	2009Q2	2009Q3	2009Q4
OFB-31	NA	1,2,4-Trichlorobenzene	<0.50	<0.50	0.087F	<0.50M
		Bromodichloromethane	0.16F	<0.50	<0.50	<0.50
		Bromoform	0.87	<0.50	<0.50	<0.50
		Chloroform	0.29F	0.077F	0.14F	<0.50
		Dibromochloromethane	0.38F	<0.50	<0.50	<0.50
		Tetrachloroethene	0.18F	0.10F	0.15FM	<0.20
		Trichloroethene	<0.20	<0.20	0.072FM	<0.20
OFB-32	NA	Chloroform	0.042F	<0.50	<0.50	<0.50
		Tetrachloroethene	<0.20	<0.20	<0.20M	<0.20
OFB-49	NA	1,1,2-Trichloroethane	<0.50	0.13F	<0.50	<0.50
		Bromodichloromethane	<0.50	0.13F	<0.50	<0.50
		Chloroform	2.0	6.2	<0.50	<0.50
		Naphthalene	<0.50	<0.50	<0.50	<0.50M
OFB-51	NA	1,2,4-Trichlorobenzene	<0.50	<0.50	0.085F	<0.50
		Carbon tetrachloride	0.47	0.64J	0.53	0.53
		Chloroform	0.080F	0.067F	0.080F	<0.50
OFB-51/52I	NA	1,2,4-Trichlorobenzene	<0.50	<0.50	0.078F	<0.50
		Carbon tetrachloride	0.42	0.55J	0.37	0.38
		Chloroform	<0.50	<0.50	0.050F	<0.50
		cis-1,2-Dichloroethene	<0.50	0.065F	<0.50	<0.50
		Methylene chloride	<0.50M	<0.50	<0.50M	<0.50
		n-Butylbenzene	<0.50	<0.50	<0.50	0.058F
		Tetrachloroethene	0.062FM	<0.20	<0.20	<0.20
		Trichloroethene	0.067F	<0.20	0.033F	<0.20
OFB-52	NA	1,2,4-Trichlorobenzene	<0.50	<0.50	0.071F	<0.50
		Carbon tetrachloride	0.29	0.46J	0.19F	<0.20
		Chloroform	<0.50	0.043F	0.062F	<0.50
		cis-1,2-Dichloroethene	0.34F	0.36F	0.28F	<0.50
		Tetrachloroethene	0.18F	0.15F	0.12FM	<0.20
		Trichloroethene	0.23	0.25	0.17FM	<0.20
OFB-54	NA	Tetrachloroethene	<0.20	<0.20	<0.20M	<0.20
OFB-72	NA	cis-1,2-Dichloroethene	NS	0.49FM	0.24F	<0.50
		Tetrachloroethene	NS	0.52	0.48F	0.46FM
		Trichloroethene	NS	3.6M	3.0	3.8
OFB-83	NA	Chloroform	NS	0.34FM	NS	NS

Notes:

B - Analyte was also found in the associated blank

F - Result below the reporting limit

M - Matrix effect was present

APPENDICES
(located in separate folder on this compact disc)

A	**ANALYTICAL DATA TABLES**
B	**QUARTERLY GROUNDWATER ELEVATIONS**
C	**PCE, TCE, AND CCl_4 CONCENTRATION TREND PLOTS**
D	**MAIN BASE/SAC AREA, AC&W, AND SITE 7 PLUME TREATMENT PLANT AIR STRIPPERS; COMPLIANCE WITH AIR EMISSIONS**
E	**FIRST QUARTER 2009 ANALYTICAL DATA**
F	**SECOND QUARTER 2009 ANALYTICAL DATA**
G	**THIRD QUARTER 2009 ANALYTICAL DATA**
H	**FOURTH QUARTER 2009 ANALYTICAL DATA**
I	**PERFORMANCE EVALUATION SAMPLE RESULTS**
J	**LIST OF DRY WELLS 2009**
K	**2,000-F00T PLUME BOUNDARY CONSULTATION ZONE MAP**
L	**2009 DRILLING UPDATE**
M	**RESPONSE TO COMMENTS**

APPENDICES

A	ANALYTICAL DATA TABLES
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APPENDIX A

ANALYTICAL DATA TABLES

Table A-1 Summary of Analytical Results for the Past Two Years, Significant Volatile Organic Compounds

Table A-2 Summary of Analytical Results for the Past Two Years, Fuel Constituents – TPH-g, TPH-d, BTEX, and MTBE

Table A-3 Summary of Analytical Results for the Past Two Years, Landfill Metals/General Minerals Analyses

Table A-4 Summary of Analytical Results for the Past Two Years, General Minerals Analyses

Table A-5 Summary of Historic Analytical Results for the Past Two Years, Hexavalent Chromium, PAHs, PCBs, and Pesticides for the Site 7 Landfill

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7-BV-01 (NA) Landfill Soil Vapor Extraction/Injection Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**11**	**1.4**	<0.50	**0.44F**	**0.89**	<0.50	**0.58F**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	**0.8**	**0.44F**	<0.50	<0.50	**0.31F**	<0.50	**0.78F**	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	**0.66**	**0.51**	<0.50M	<0.50	<0.50	<0.50	**0.73F**	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	**0.25F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7-BV-02 (NA) Landfill Soil Vapor Extraction/Injection Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	**18**	**3.1**	<0.50	**0.54**	**1.6**	**4.4**	**6**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2008	**18**	**2.6**	<0.50	**0.49F**	**1.7**	**3.7**	**5.8**	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**13**	**2.2**	<0.50M	**0.44F**	**1.8**	**3.2**	**5**	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	**14**	**1.8**	<0.50	**0.41F**	**1.4**	**3.8**	**5.8**	<0.50
7-BV-04 (NA) Landfill Soil Vapor Extraction/Injection Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**0.29F**	**0.85**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	<0.50	**0.41F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	<0.50	**0.41F**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7-BV-06 (NA) Landfill Soil Vapor Extraction/Injection Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**0.62**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	<0.50	**0.42F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	<0.50	**0.35F**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7-BV-07 (NA) Landfill Soil Vapor Extraction/Injection Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**3.1**	**2.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	**3.6**	**1.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**2.6**	**1.4**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	**3.3**	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7-BV-13 (NA) Landfill Soil Vapor Extraction/Injection Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**3.1**	**1.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2008	**4.5**	**1.2**	<0.50	<0.50	**0.40F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**3.5**	**1.2**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	**3.8**	**0.9**	<0.50	<0.50	**0.18F**	<0.50	<1.0	<0.50
7-EW-1 (B) Site 7 Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**17M**	**3**	<0.50	**0.37F**	**0.71**	<0.50UJ	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	**9.8M**	<0.50UJ	<0.50	<0.50	**0.22F**	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**8.0M**	**1.3**	<0.50	<0.50	**0.32F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-EW-2 (B) Site 7 Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**25M**	**3.6**	<0.50	**0.42F**	**2**	**1.1J**	<1.0	<0.50
7/10/2008	**26**	**3.4**	<0.50	**0.35F**	**2.3**	**1.1**	**0.42F**	<0.50
10/30/2008	**24M**	**2.9J**	<0.50	**0.34F**	**2.2**	**1**	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**23M**	**3.2**	<0.50	**0.31F**	**2.3**	**1.2**	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PTE Treatment System Effluent								
1/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/6/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/20/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/3/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/17/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<1.0	<0.50
5/1/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/15/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/29/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/12/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/26/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.39F**
7/11/2008	**0.16F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/12/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/17/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/28/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/4/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/18/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/2/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/16/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/30/2008	<0.50M	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/13/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/26/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/11/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/22/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/8/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/5/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/2/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/30/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/14/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/28/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/11/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/25/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/23/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
8/6/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/20/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/3/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/17/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/15/2009	<0.50M	<0.50	<0.50	<0.50	<0.50UJ	<0.50UJ	<1.0	<0.50
10/29/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/12/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/24/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/10/2009	**0.17FM**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/22/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7-PTI Treatment System Influent								
1/10/2008	**17**	**3**	<0.50	**0.39F**	**0.71**	<0.50	<1.0	<0.50
4/17/2008	**25M**	**3.3**	<0.50	**0.39F**	**1.7**	<0.50UJ	<1.0	<0.50
7/10/2008	**27**	**3.7**	<0.50	**0.42F**	**2.4**	**1.2**	**0.39F**	<0.50
7/11/2008	**28**	**3.8**	<0.50	**0.43F**	**2.5**	**1.1**	**0.39F**	<0.50
7/12/2008	**31**	**3.9**	<0.50	**0.43F**	**2.8**	**1.3**	**0.48F**	<0.50
7/17/2008	**26**	**3.5**	<0.50	**0.37F**	**2.3**	**1.2**	**0.37F**	<0.50
7/24/2008	**27**	**3.6**	<0.50	**0.38F**	**2.4**	**1.2**	<1.0	**0.45F**
7/28/2008	**30**	**4**	<0.50	**0.39F**	**2.7**	**1.5**	<1.0	<0.50
8/7/2008	**24**	**3.3**	<0.50	**0.33F**	**2.2**	**1.1**	<1.0	<0.50
8/21/2008	**17**	**2.3**	<0.50	<0.50	**1.3**	<0.50	<1.0	<0.50
10/30/2008	**17M**	**2.0J**	<0.50	<0.50	**1.4**	<0.50	<1.0	<0.50
2/4/2009	**6.5**	**1.4**	<0.50	<0.50	**0.26F**	<0.50	<1.0	<0.50
4/16/2009	**17M**	**2.3**	<0.50	<0.50	**1.4**	**0.77**	<1.0	<0.50
7/23/2009	**22M**	**2.7**	<0.50	<0.50	**1.9**	<0.50	<1.0	<0.50
10/15/2009	**21M**	**2.8**	<0.50	<0.50	**1.5J**	**0.95J**	**0.27F**	<0.50
7-PZ-23 (B) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-24 (B) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-25 (B) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-26 (B) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-37 (WT) Landfill Groundwater Piezometer								
1/14/2008	**31**	**5.6**	<0.50	**0.61**	**1.1**	**1.6**	**1.5**	<0.50
4/14/2008	**46**	**7**	<0.50	**0.87**	**0.55**	**1**	**1.1**	<0.50
7/9/2008	**35**	**5.9**	<0.50	**0.58**	**0.87**	**1**	**0.93F**	<0.50
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/26/2009	**19**	**2.4**	<0.50	<0.50	**0.7**	**1.2**	**0.92F**	<0.50
4/20/2009	**24**	**3.9**	<0.50M	**0.39F**	**0.77**	**0.84**	<1.0	<0.50
7/13/2009	**23**	**3.5**	<0.50	**0.38F**	**0.53**	**1**	**0.90F**	<0.50
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-37P (WTZPERCH) Landfill Groundwater Piezometer								
1/8/2008	**3.3**	**3**	<0.50	<0.50	**0.42F**	<0.50	<1.0	<0.50
4/15/2008	**3.1**	**2.5**	<0.50	<0.50	**0.56**	<0.50	<1.0	<0.50
7/7/2008	**3.3**	**3**	<0.50	<0.50	**0.53**	<0.50	<1.0	<0.50
10/28/2008	**3.8**	**3.2**	<0.50	<0.50	**0.61**	<0.50	<1.0	<0.50
1/28/2009	**5.9**	**4.5**	<0.50	**0.34F**	**1.3**	<0.50	<1.0	<0.50
4/15/2009	**3.8**	**2.8**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/13/2009	**6.3**	**4.7**	<0.50	**0.53**	**0.54**	<0.50	<1.0	<0.50
10/21/2009	**2.7**	**2.2**	<0.50	<0.50	**0.58**	<0.50	<1.0	<0.50
7-PZ-38P (WTZPERCH) Landfill Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	**0.19F**	**0.53**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-39 (C) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-40 (C) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-41 (C) Site 7 Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW AT-1 (C) AC & W Groundwater Extraction Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**16M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	**11**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**12M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW AT-2 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**14M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**12M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW AT-3 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/12/2008	<0.50M	**0.41F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-1 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**6.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**6.0M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-2 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**4.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**3.3M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-3 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**5.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**4.0M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-4 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**1.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/17/2009	**0.68M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-5 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-6 (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW EW-6R (C) AC & W Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**12**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	**11**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/30/2008	**8.8**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**7.7M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PTE Treatment System Effluent								
1/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/6/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/20/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/3/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/17/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/15/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/12/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.54**
7/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/4/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/18/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/2/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/13/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/11/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/8/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
2/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/5/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/2/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/28/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/11/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/25/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/23/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/6/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/20/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/3/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/17/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
10/15/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
10/29/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
11/12/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
11/24/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
12/10/2009	**0.20F**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
12/22/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
ACW PTI Treatment System Influent								
1/10/2008	**8.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/17/2008	**6.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/10/2008	**7.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/30/2008	**6.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/4/2009	**5.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2009	**5.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/23/2009	**6.9M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/15/2009	**6**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
ACW PZ-01 (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-02 (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-03 (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-04 (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-05 (C) AC & W Groundwater Piezometer								
1/11/2008	**0.39F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/25/2008	**0.58**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/8/2008	**0.77**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/3/2008	**0.72**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0	<0.50
1/30/2009	**0.73**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/27/2009	**0.34F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/16/2009	**0.41FM**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**0.44F**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
ACW PZ-06 (WT/C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-06C (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**0.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**0.51**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-07 (WT/C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-07C (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**0.85**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**0.49F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-08 (WT/C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-08C (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**0.17F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-09 (WT/C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**0.25FM**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-09C (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**13M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**0.22F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-10 (WT) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PZ-10C (C) AC & W Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**2.5M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**3.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW R2 Lake Water								
1/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/17/2008	<0.50	**0.37F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/23/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/15/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
FFS EW15-1 (NA) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**4.9**	**0.24F**	<0.50	<0.50	**0.16F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	**4.1J**	**0.28FJ**	<0.50	<0.50	**0.24F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**4.2J**	**0.22FJ**	<0.50UJ	<0.50UJ	**0.27F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	**4.1**	**0.24FM**	<0.50	<0.50	**0.32F**	<0.50	<1.0	<0.50
FFS EW15-2 (NA) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**4.1**	**3.8**	**1.6**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	**3.7J**	**3.7J**	**1.9**	<0.50	**0.21F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**3.7J**	**4.4J**	**2.3J**	<0.50UJ	**0.23F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	**4**	**4.3M**	**1.2**	<0.50	**0.23F**	<0.50	<1.0	<0.50
FFS MW15-1 (NA) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**6**	**0.27F**	<0.50	<0.50	**0.27F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	**4.9J**	**0.32FJ**	<0.50	<0.50	**0.25F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**5.0J**	**0.29FJ**	<0.50UJ	<0.50UJ	**0.25F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	**4.7**	**0.29FM**	<0.50	<0.50	**0.38F**	<0.50	<1.0	<0.50
FFS MW15-2 (NA) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**11**	**0.46F**	<0.50	<0.50	**0.73**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	**9.5J**	**0.50J**	<0.50	<0.50	**0.63**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**10J**	**0.42FJ**	<0.50UJ	<0.50UJ	**0.72**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	**10**	**0.41FM**	<0.50	<0.50	**0.64**	<0.50	<1.0	<0.50
FFS MW15-3 (NA) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**4**	**1.7**	**1.5**	<0.50	**0.17F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	**3.3J**	**1.4J**	**1.9**	<0.50	**0.19F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**4.1J**	**2.2J**	**2.4J**	<0.50UJ	**0.25F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	**4.2**	**1.9M**	**1.4**	<0.50	**0.18F**	<0.50	<1.0	<0.50
FFS MW15-6 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**8.1**	**4.2**	**1**	<0.50	**0.38F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**7.5**	**4.4**	**2.5**	<0.50	**0.35F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-005 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**0.64**	**1.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-006 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-012 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-013 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**0.25FM**	**0.31F**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-022 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-026 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-033 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/11/2008	**4.7**	**0.9**	<0.50	<0.50	**0.53**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**6.9**	**0.68**	<0.50	<0.50	**0.73**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-037 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-039 (WTZPERCH) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-041 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**33**	**4.1**	<0.50	<0.50	**7.9M**	**6.5**	**5.3M**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/15/2009	**35**	**3.6**	<0.50	<0.50	**9**	**8.3M**	**6.5M**	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-042 (WT/B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-043 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-044 (WTZPERCH) Landfill Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-046 (WTZPERCH) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-047 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-048 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/11/2008	**0.61**	**4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**0.21F**	**5.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-050 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-051 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-052 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-053 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**1.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**2**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-054 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-056 (D) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**0.54**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/15/2009	**0.69**	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-058 (D) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-059 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-060 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	**0.28F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-061 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**0.24F**	**0.36F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-062 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	**0.33F**	**0.22F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

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FORMER MATHER AIR FORCE BASE
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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-063 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	<0.50	**6.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-064 (D) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**12**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-065 (D) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-066 (Dd) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-067 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-068 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/12/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-069 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-070 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-071 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-072 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-073 (B) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-074 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-075 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-077 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-078 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-079 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-080 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-081 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-082 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-083 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-084 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-085 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-086 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-087 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-088 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-089 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-090 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/11/2008	**0.42F**	**0.19F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/26/2009	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-091 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-092 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-093 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-094 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**4.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	**3.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-095 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-096 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**3.7**	**0.28F**	<0.50	<0.50	**1.8**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	**1.2**	<0.50	<0.50	<0.50	**0.76**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-097 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**1.9**	<0.50	**0.39F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-099 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-101 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	<0.50	**14**	**0.85**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	<0.50	**9.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-102 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**9.9**	**0.6**	**2**	<0.50	**0.31F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	**8.4**	**2**	**2**	<0.50	**0.27F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**8**	**0.55**	**2.9**	<0.50	**0.24F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-103 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-104 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	**1.7**	**5.9**	**0.67**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**1.7M**	**7.2**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-105 (WT) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-106 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-107 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-108 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-109 (WT/C) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	<0.50	**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-110 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-111 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	<0.50	**0.99**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/23/2009	<0.50	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-112 (WT/C) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	**0.26F**	**1.7**	<0.50	<0.50	**0.63**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**0.17F**	**0.74**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-113 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-115 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-116 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-118 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-119 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-120 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-121 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**6**	**0.38F**	<0.50	<0.50	**0.63**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-122 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	**1.1**	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**0.24F**	**0.91**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-123 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-124 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/11/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-125 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-126 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-127 (WT/C) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-128 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-129 (WT/C) Landfill NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-130 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-131 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	**0.24F**	**0.65**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-132 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well								
1/9/2008	**3.7**	**18**	<0.50	<0.50	**21**	<0.50	<1.0	<0.50
4/21/2008	**4.3**	**17**	<0.50	<0.50	**26**	**0.22F**	<1.0	<0.50
8/7/2008	**3.5**	**13**	<0.50	<0.50	**20**	<0.50	<1.0	<0.50
10/22/2008	**3.4**	**11M**	<0.50	<0.50	**17**	<0.50	<1.0	<0.50
1/28/2009	**3.9**	**14**	<0.50	<0.50	**21**	**0.15F**	<1.0	<0.50
5/14/2009	**3.6**	**14**	<0.50	<0.50	**19**	<0.50	<1.0	<0.50
7/15/2009	**2.8**	**14**	<0.50	<0.50	**17**	<0.50	<1.0	<0.50
10/22/2009	**5.1**	**20**	<0.50	<0.50	**23**	<0.50	<1.0	<0.50
MAFB-133 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/14/2008	**0.95**	**5.5**	<0.50	<0.50	**1.4**	<0.50	<1.0	<0.50
4/8/2008	**0.77**	**5.6**	<0.50	<0.50	**2.2**	<0.50	<1.0	<0.50

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FORMER MATHER AIR FORCE BASE
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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
8/7/2008	**0.81J**	**4.9J**	<0.50UJ	<0.50UJ	**2.1J**	<0.50UJ	<1.0UJ	<0.50UJ
10/22/2008	**0.96**	**4.1M**	<0.50	<0.50	**2.4**	<0.50	<1.0	<0.50
1/26/2009	**0.85**	**4.7**	<0.50	<0.50	**2.2**	<0.50	<1.0	<0.50
5/18/2009	**0.84**	**4.4**	<0.50	<0.50	**2.1**	<0.50	<1.0	<0.50
7/16/2009	**0.83**	**5.4**	<0.50	<0.50	**2.1**	<0.50	<1.0	<0.50
10/27/2009	**0.89**	**4.3**	<0.50	<0.50	**2.3**	<0.50	<1.0	<0.50
MAFB-136 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well								
1/9/2008	**1.5**	**4.4**	<0.50	<0.50	**3.9**	<0.50	<1.0	<0.50
4/21/2008	**0.78**	**2.8**	<0.50	<0.50	**3**	<0.50	<1.0	<0.50
7/8/2008	**1.2**	**2.2**	<0.50	<0.50	**4.6**	<0.50	<1.0	<0.50
12/22/2008	**2.1**	**7.9M**	<0.50	<0.50	**5.6**	<0.50	<1.0	<0.50
1/29/2009	**2.1**	**8.2**	<0.50	<0.50	**6.4**	**0.17F**	<1.0	<0.50
5/18/2009	**1.4**	**5.3**	<0.50	<0.50	**5.2**	<0.50	<1.0	<0.50
7/16/2009	**1.9**	**7.1**	<0.50	<0.50	**6.3**	<0.50	<1.0	<0.50
10/22/2009	**1.9**	**6**	<0.50	<0.50	**5.5**	<0.50	<1.0	<0.50
MAFB-137 (WT/C) Landfill LF04/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-139 (WT/C) Main Base/SAC LF05/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-140 (WT/C) Landfill NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-140 (WT/C) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-141 (WT/B) Main Base/SAC LF05/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 26 of 102)

Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-142 (WT/C) Landfill LF06/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-143 (WT/C) Landfill LF06/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-144 (WT/C) Landfill LF06/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-145 (WT/C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-147 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-148 (B) Site 7 WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50M	<0.50	<0.50	**0.41F**	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	<0.50	**0.47F**	<0.50	<0.50	<1.0	<0.50
4/14/2008	<0.50	<0.50	<0.50	**0.33F**	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/28/2008	<0.50	<0.50	<0.50	**0.5**	<0.50	<0.50	<1.0	<0.50
1/28/2009	<0.50	**0.24F**	<0.50	**0.42F**	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/13/2009	<0.50	<0.50	<0.50	**0.47F**	<0.50	<0.50	<1.0	<0.50
10/22/2009	<0.50	**0.20F**	<0.50	**0.51**	<0.50	<0.50	<1.0	<0.50
MAFB-150 (WT/B) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-151 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	<0.50M	**0.22F**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-152 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-154 (WT/B) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-155 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	**0.26F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-156 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-157 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-158 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-159 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	**0.26F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-160 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-161 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-162 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	**0.14F**	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-163 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-164 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	<0.50	**4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-165 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-166 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-167 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**14**	**4**	**0.63**	<0.50	**0.22F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	**13**	**3.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-168 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**5.7**	**1.9**	**0.64**	<0.50	**0.77**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**4.5**	**1.6**	<0.50	<0.50	**0.97**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-169 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-170 (B) Main Base/SAC Groundwater Monitoring Well								

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**0.5**	**0.28F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	**0.37F**	**0.27F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-171 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**6.4**	**2.7**	**0.57**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	**6.2**	**2.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-172 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**0.65**	**0.15F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**0.49FJ**	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-173 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**2.3**	**0.42F**	**1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**3.2J**	**0.60J**	**3.0J**	<0.50UJ	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-174 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**0.48FJ**	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-175 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	**0.88**	**26**	**0.6**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**1.0M**	**27**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-176 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	**4.5**	<0.50	**0.27F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/30/2009	**3.2J**	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-177 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**1.7**	**19**	**1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	**1.3**	**20**	**2.6**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-178 (D) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-179 (D) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-180 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**93M**	**5.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**91**	**5.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-181 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	<0.50	**37**	**4.2**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	**37J**	**4.0J**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-183 (WT/C) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-184 (WTZPERCH) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-185 (WTZPERCH) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-186 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-187 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-188 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-189 (WTZPERCH) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-190 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-191 (D) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/15/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-192 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-193 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-194 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**4.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**3.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-195 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-196 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**3.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**2.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-197 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-198 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-199 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	**0.37F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-200 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	**1.9**	**0.99J**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-201 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**0.63**	**0.28F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-202 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**0.39F**	**0.71**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	**0.27F**	**0.37F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-203 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**37**	**12**	**1.2**	**4.5**	**0.74**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**26**	**12**	**1.9**	**3.1**	**0.66**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-204 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/11/2008	**0.91**	**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**0.49F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-205 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**0.94**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-206 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**23**	**0.49F**	**0.43F**	**9.2**	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/26/2009	**2.3**	<0.50UJ	<0.50	**0.7**	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-207 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/11/2008	**6.4**	**1.2**	**2.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/4/2008	**11**	<0.50UJ	**6.9**	**0.32F**	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	**11**	**0.49F**	**4**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-208 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-209 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**6.8**	**0.17F**	**0.89**	<0.50	**0.5**	**0.18F**	**0.29F**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	**1.3**	<0.50	**0.35F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-210 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.37F**	<0.50	**0.54**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	**0.25F**	<0.50	**0.82**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-211 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**3.1**	**0.43F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-212 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	**0.45F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-213 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-214 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**8.1**	**4.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	**2.6**	**1.7**	<0.50	<0.50	<0.50	<0.50	<1.0	**0.55**
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-215 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**16**	**5.4**	**1.6J**	<0.50	**0.43F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	**16M**	**3.8J**	**2.6J**	<0.50	**0.5**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-216 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**4**	**0.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**5.2**	**1.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-217 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**15**	**0.78**	**1.3**	**0.38F**	**0.23F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**16**	**0.27F**	**3.1**	<0.50	**0.65**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-218 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**4.4**	**4.9**	**2.2**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**12**	**9.2**	**12**	**0.47F**	**0.39F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-219 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-220 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**7.1**	**10**	**5.7**	**0.36F**	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**12**	**4.3**	**6.7**	**0.55**	**0.39F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-221 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/22/2009	**0.45F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-222 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**22**	**5.8**	**28**	**0.62**	**0.52**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**4.6**	**5.3**	**2.6**	<0.50	**0.35F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-223 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**28**	**4.5**	**4.8**	**0.58**	**0.92**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	**16**	**2.2**	**3.6**	**0.49F**	**1.2**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-224 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**25**	**1.3**	**9.6**	<0.50	**0.44F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/4/2008	**21**	<0.50UJ	**10**	<0.50	**0.26F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	**20**	**1.1**	**8.9**	<0.50	**0.32F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-225 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-226 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-227 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**17**	**1.5**	**1.9**	**0.86**	**1.7**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**12**	**1**	<0.50	**0.52**	**1.6**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-228 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	<0.50	**11**	**0.82**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	**0.17F**	**9.6**	**0.89**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-229 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**1.2**	**38**	**0.65**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	**1.8**	**39**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-230 (B) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-231 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.62M**	**8.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	**1.3**	**6.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-232 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**2.6**	<0.50	**0.34FJ**	<0.50	**0.5**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**2.8J**	<0.50UJ	<0.50UJ	<0.50UJ	**0.65**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-233 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-234 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-235 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**0.26F**	**0.26F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**0.28F**	**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-239 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
5/11/2009	**0.89**	**0.65**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-240 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**4.5**	**8.3**	**1.3**	<0.50	**0.18F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**4.6**	**9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-241 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-242 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**13**	**42**	**1.1**	<0.50	**0.27F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	**23**	**51**	**1.8**	<0.50	**0.35F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**14**	**43**	**1.5**	<0.50	**0.30F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-243 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**0.97**	**2.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-244 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-245 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-246 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/30/2008	**0.64**	**0.57**	**4.2**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**0.49FJ**	<0.50UJ	**6.3J**	<0.50UJ	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-247 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**4.6**	<0.50	**0.68J**	<0.50	**0.61**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/4/2008	**4.6**	<0.50	**0.71**	<0.50	**0.63**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**5.3M**	<0.50	<0.50	<0.50	**0.90J**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-248 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**8.7**	**0.34F**	**0.67**	**0.47F**	**1.1**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**6.9J**	<0.50UJ	**2.8J**	**0.50J**	**0.75**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-249 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**12M**	**0.45F**	**0.69**	**1.1**	**1.4**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**10M**	**0.49F**	<0.50	<0.50	**1.0J**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-250 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**0.75**	**0.40F**	**0.25F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/22/2009	**0.64**	**0.31F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-251 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/15/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-252 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-253 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-254 (WT/B) Site 7 WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-255 (WT/B) Site 7 WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-256 (WTZPERCH) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-258 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**1.9M**	**0.23F**	<0.50	<0.50	**0.27F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**2.2M**	**0.32F**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-259 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-260 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-261 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<0.50	**1.9**	**0.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/24/2008	<0.50	**0.8**	**0.53**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	**0.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-262 (D) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-263 (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.50	**0.27F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	**0.29F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-264 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**15**	**0.85**	**1.7**	**0.73**	**1.8**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**15**	**0.72**	**2.7**	**0.57**	**1.5**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-265 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**35M**	**3.2**	**2.5**	**0.97**	**1.6**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**17J**	**2.6J**	**2.9J**	**0.66J**	**0.84**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-266 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**8.6**	**2.8**	**1.4**	<0.50	**0.5**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/3/2008	**7.5J**	**3.8JM**	**0.93**	<0.50	**0.21F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**6.9**	**2.6**	<0.50	<0.50	**0.43F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-267 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-268 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	**3**	**0.53**	**0.88**	<0.50	**0.30F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2009	**2.8**	**0.81**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-269 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-270 (B) Main Base/SAC Groundwater Monitoring Well								
1/9/2008	<0.50	**0.23F**	**0.39F**	<0.50	<0.50	<0.50	<1.0	<0.50
4/9/2008	<0.50	**0.26F**	**0.41F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/8/2008	<0.50	**0.21F**	**0.31F**	<0.50	<0.50	<0.50	<1.0	<0.50
10/24/2008	<0.50	**0.24F**	**0.24F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-271 (B) Off-Base Groundwater Monitoring Well								
1/11/2008	<0.20	**0.50J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	**0.32**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/8/2008	<0.20	**0.45**	<0.20	<0.50	<0.50	<0.50	<0.50	**0.25F**
10/27/2008	<0.20	**0.64JM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	**0.32**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	**0.35**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	**0.47M**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-272 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-273 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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FORMER MATHER AIR FORCE BASE
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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-274 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.50M	**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	<0.50	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-275 (WT/Bu) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-276 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-277 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-278 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-280 (B) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-281 (B) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-282 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**10**	**1**	**0.54**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	**8.8J**	**0.77J**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-283 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well								
1/8/2008	**2.2**	**0.30F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/15/2008	**2.2**	**0.40F**	<0.50	<0.50	<0.50	<0.50	**0.19F**	<0.50
7/7/2008	**3.3**	**0.62**	<0.50	<0.50	<0.50	**0.18F**	**0.27F**	<0.50
10/28/2008	**3.8**	**0.74**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/28/2009	**3.4**	**0.61**	<0.50	<0.50	**0.25F**	**0.26F**	**0.25F**	<0.50
4/14/2009	**2.4**	**0.52**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/13/2009	**3.1**	**0.63**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/21/2009	**2.5**	**0.48F**	<0.50	<0.50	**0.19F**	**0.16F**	**0.23F**	<0.50
MAFB-285 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50	**0.57**	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-286 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-288 (B) Landfill NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	<0.50	**0.71**	<0.50	<0.50	**0.64**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-289 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-290 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-291 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-292 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-293 (D) Main Base/SAC Groundwater Monitoring Well								
1/9/2008	<0.50	<0.50	**0.58**	<0.50	<0.50	<0.50	<1.0	<0.50
4/9/2008	<0.50	**0.24F**	**0.55**	<0.50	<0.50	<0.50	<1.0	<0.50
7/8/2008	<0.50	**0.39F**	**0.41F**	<0.50	<0.50	<0.50	<1.0	**0.40F**
10/24/2008	<0.50	**0.18F**	**0.42F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	**0.22F**	**0.32F**	<0.50	<0.50	<0.50	<1.0	<0.50
4/14/2009	<0.50	**0.16FJ**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/20/2009	<0.50	<0.50M	**0.39F**	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	<0.50	**0.18FM**	**0.31F**	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-294 (D) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**0.82J**	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<1.0UJ	<0.50UJ
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-295 (D) Site 7 Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-296 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	<0.50	**5.1J**	**1.0J**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2009	**0.17F**	**6.7**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-297 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-299 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-300 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/10/2008	**0.44F**	**3.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	**0.26F**	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-301 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**4.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/27/2009	**2.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-302 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-303 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-304 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-305 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-306 (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**2.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	**1.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-307 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-308 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<0.50	**1.6**	**0.19F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	<0.50	**1.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-309 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-310 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-311 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-312 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<0.50	**3.9**	**3.4**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/31/2008	<0.50	**2.9**	**2.4**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-313 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**0.21FJ**	**1.4J**	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-314 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**0.53**	**85**	**0.56**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**0.65**	**81**	**0.89**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-315 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-316 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-317 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-318 (D) Main Base/SAC Groundwater Monitoring Well								
1/8/2008	<0.50	**0.49F**	**0.91**	<0.50	<0.50	<0.50	<1.0	<0.50
4/8/2008	<0.50	**1.4**	**2.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/8/2008	<0.50	**1.3**	**2.2**	<0.50	<0.50	<0.50	<1.0	**0.41F**
10/24/2008	<0.50	**1.7**	**2.7**	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	**1.7**	**3.1**	<0.50	<0.50	<0.50	<1.0	<0.50
4/14/2009	<0.50	**2.6J**	**0.65J**	<0.50	<0.50	<0.50	<1.0	<0.50
7/20/2009	<0.50	**2.3M**	**4**	<0.50	<0.50	<0.50	<1.0	<0.50
10/19/2009	<0.50	**2**	**2.7**	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-319 (D) Main Base/SAC Groundwater Monitoring Well								
1/11/2008	<0.20	**0.61J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	**0.46**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/8/2008	<0.20	**0.59**	<0.20	<0.50	<0.50	<0.50	<0.50	**0.16F**
10/27/2008	<0.20	**0.54JM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	**0.57**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	**0.45**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	**0.62M**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	**0.28J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-320 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<0.50	**31**	**3.4**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	<0.50	**34**	**3.7**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-321 (Dd) Off-Base Groundwater Monitoring Well								
1/11/2008	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	**0.078F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/8/2008	<0.20	**0.13F**	**0.086F**	<0.50	<0.50	<0.50	<0.50	**0.22F**
12/31/2008	<0.20	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	**0.53J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-322 (B) Off-Base Groundwater Monitoring Well								
1/9/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/8/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	**0.31F**
10/27/2008	<0.20	<0.20UJM	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	**0.16FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-323 (B) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.20	<0.20	**0.070F**	<0.50	<0.50	<0.50	<0.50	<0.50
7/7/2008	<0.20	<0.20	**0.10F**	<0.50	<0.50	<0.50	<0.50	<0.50
12/31/2008	<0.20	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-324 (B) Off-Base Groundwater Monitoring Well								
1/11/2008	<0.20	**0.31J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	**0.083F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/9/2008	<0.20	**0.19F**	<0.20	<0.50	<0.50	<0.50	<0.50	**0.26F**
10/27/2008	<0.20	**0.22JM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	**0.23**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	**0.19F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	**0.30M**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-325 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-326 (D) Off-Base Groundwater Monitoring Well								
1/9/2008	<0.20	<0.20	**0.19F**	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	<0.20	**0.12F**	<0.50	<0.50	<0.50	<0.50	<0.50
7/8/2008	<0.20	<0.20	**0.13F**	<0.50	<0.50	<0.50	<0.50	**0.24F**
10/27/2008	<0.20	<0.20UJM	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	**0.20J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-327 (D) Off-Base Groundwater Monitoring Well								
1/9/2008	<0.20	**1**	**0.78**	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	**0.2**	**0.33**	<0.50	<0.50	<0.50	<0.50	<0.50
7/7/2008	<0.20	**0.17F**	**0.26**	<0.50	<0.50	<0.50	<0.50	<0.50
10/27/2008	<0.20	**0.15FJM**	**0.59**	<0.50	<0.50	<0.50	<0.50	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.20	**0.076F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-328 (D) Off-Base Groundwater Monitoring Well								
1/11/2008	<0.20	**0.20J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	**0.11F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/9/2008	<0.20	**0.13F**	<0.20	<0.50	<0.50	<0.50	<0.50	**0.14F**
10/27/2008	<0.20	<0.20UJM	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	**0.21**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	**0.19F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	**0.10FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/14/2009	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-329 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-330 (B) Off-Base Groundwater Monitoring Well								
1/8/2008	**0.41F**	**0.43F**	**0.55**	<0.50	**0.25F**	<0.50	<1.0	<0.50
4/7/2008	**0.43F**	**0.48F**	**0.62**	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	**0.43**	**0.56**	**0.59**	<0.50	**0.15F**	<0.50	<0.50	**0.14F**
10/27/2008	**0.33**	**0.39JM**	**0.64**	<0.50	<0.50	<0.50	<0.50	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	**0.32**	**0.29**	<0.20	<0.50	**0.19F**	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/12/2009	**0.66**	**0.71**	**0.47**	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-331 (B) Main Base/SAC Groundwater Monitoring Well								
1/11/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-332 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**3.8**	**0.89**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/24/2008	<0.50	**3.2**	**0.78**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-336 (D) Off-Base Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	**0.16F**	<0.50	<0.50	<0.50	<1.0	<0.50
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	**0.10F**	**0.050F**	**0.19F**	<0.50	**0.055F**	<0.50	<0.50	**0.15F**
12/31/2008	<0.20	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	**0.065F**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/12/2009	**0.15F**	**0.15F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-337 (Dd) Off-Base Groundwater Monitoring Well								
1/9/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/8/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	**0.29F**
10/27/2008	<0.20	<0.20UJM	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
2/3/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	**0.26J**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-338 (Dd) Off-Base Groundwater Monitoring Well								
1/11/2008	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/10/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/9/2008	**0.039F**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	**0.28F**

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/27/2008	<0.20	<0.20UJM	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/20/2009	<0.20	**0.050F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/15/2009	<0.20M	**0.16FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/14/2009	<0.20	<0.20UJ	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
MAFB-339 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**0.72**	**1.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	**1.1**	**1.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-340 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.18FM**	**1.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	**0.18FJ**	**1.7J**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-341 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	<0.50	**0.57**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-342 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**0.23F**	**2.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/3/2008	<0.50UJ	**3.2JM**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	**0.25FJ**	**0.73J**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-343 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-344 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	<0.50M	**2.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/15/2009	<0.50	**0.21F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-345 (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-346Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	**0.23F**	**0.37F**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	**0.23F**	**0.40F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-346Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.50	**3.2**	**1.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	**4.5**	**0.59**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-346D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-347 (LMT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-348B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-348Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-348Ds (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**0.33F**	**0.30F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	**0.33F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-349 (LMT) Off-Base Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/7/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/27/2008	<0.20	<0.20UJM	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-350 (LMT) Off-Base Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-351Bd (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-351Bs (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-351D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-352D (Dd) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-352LM (LMT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-353 (LMT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-354B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/19/2009	<0.50	<0.50	**0.14F**	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-354D (D) Main Base/SAC Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-355B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-355D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-356B (B) Main Base/SAC Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-356Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-356Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-357D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.54**	**1.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	**0.95J**	**1.4J**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-357Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**1.3**	**0.20F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	**1.2J**	**0.22FJ**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-357Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.32F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	**0.42FJ**	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-358B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
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SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/30/2008	<0.50	**0.69**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	<0.50UJ	**0.41FJ**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-358D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	<0.50	**14**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/7/2009	<0.50UJ	**12J**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-359 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**1.3**	**0.49F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**1.1**	**0.47F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-360 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-361 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**1.5**	**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	**1.3**	**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-362 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**0.87**	**1.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	**4**	**6.2**	**3.5**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-363 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2008	**0.79**	**13**	**0.52**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**0.51**	**6.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

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FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-364B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**2.4**	**16**	**0.86**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**2.3M**	**16**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-364D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	<0.50M	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-365B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	**0.74**	**12**	**0.45F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**0.94M**	**15**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-365D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**0.18FM**	**0.24F**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-366B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**2.2M**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	**2.4J**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-366D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**34M**	**3.1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	**32J**	**3.2J**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-367 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-368B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**6.2**	**3.1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	**5.2**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-368D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**1.8**	**0.28F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-369 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**0.23FM**	**0.18F**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-370 (C) Site 7 Groundwater Monitoring Well								
1/31/2008	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50	<1.0M	<0.50
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-371C (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**1.8**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	**2.5**	**0.16F**	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-371D (D) Site 7 Groundwater Monitoring Well								
1/31/2008	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50	<1.0M	<0.50
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-372B (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**7.8**	**1.8**	<0.50	<0.50	**0.40FM**	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	**6.7**	**1.6**	<0.50	<0.50	**0.28F**	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-372D (D) Site 7 Groundwater Monitoring Well								
1/31/2008	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50	<1.0M	<0.50
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-373C (C) Site 7 Groundwater Monitoring Well								
1/31/2008	**9.9M**	**1.4**	<0.50	<0.50M	**0.30FM**	<0.50	<1.0M	<0.50
5/1/2008	**8.5**	**1.4**	<0.50	<0.50	**0.22FM**	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	**10**	**1.4**	<0.50	<0.50	**0.23F**	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-373D (D) Site 7 Groundwater Monitoring Well								
1/31/2008	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50	<1.0M	<0.50
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-374 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	<0.50	**0.49F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-375 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**2.0M**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**0.94**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-376 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**24M**	**0.83**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**19**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-377 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	**3.4**	**3.8**	**1.5**	<0.50	**0.18F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**3.0J**	**3.8J**	**2.8J**	<0.50UJ	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-378B (B) Main Base/SAC Groundwater Monitoring Well								
1/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.33F**
10/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/15/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
MAFB-378D (D) Main Base/SAC Groundwater Monitoring Well								
1/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.38F**
10/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/15/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
MAFB-379B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	<0.50	**3.6**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**1.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-379D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	<0.50	**2.8**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-380B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**0.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/20/2009	<0.50	**0.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-380D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<0.50	**0.25FJ**	**0.10FJ**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/20/2009	<0.50	**0.25F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-381B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<0.50	**3.8**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	**0.17F**	**4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-381D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-382B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.50	**2.1J**	**1.3J**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2009	**0.21F**	<0.50	<0.50	<0.50	**0.32F**	<0.50	<1.0	<0.50
MAFB-382D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	**0.21F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-383B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/4/2008	**0.33F**	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**0.20FJ**	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-383D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-384B (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.17FM**	**13**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	**0.72**	**0.8**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-384D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	<0.50	**0.18F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	<0.50	**0.21F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-385B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-385D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	<0.50	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/20/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-386B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-386D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-387B (B) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/24/2008	<0.50	<0.50	**0.42F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-387Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-387Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-388B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-388Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-388Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/12/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-389 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-390 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-391 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**7.9**	**2.5**	<0.50	<0.50	**1.6M**	**0.98**	**0.92FM**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	**3.0M**	**1.9**	<0.50	<0.50	**0.89**	<0.50	**0.44F**	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-392 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**4.5**	**1.1**	<0.50	<0.50	**0.47FM**	**0.55**	**0.77FM**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/15/2009	**8**	**1.9**	<0.50	<0.50	**0.73**	**0.99M**	<1.0M	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-393 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**4.5**	**0.41F**	<0.50	<0.50	**2.1M**	**0.97**	**0.40FM**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	**2.5M**	<0.50	<0.50	<0.50	**1.4**	<0.50	**0.30F**	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-394 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**21**	**3.4**	<0.50	**0.39F**	**0.95M**	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	**24M**	**3.5**	<0.50	**0.45F**	**1.1**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-395 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	**9.7**	**2.4**	<0.50	**0.31F**	**0.41FM**	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	**13M**	**2.3**	<0.50	**0.32F**	**0.47F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-396 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
5/1/2008	**0.91**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0M	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	**0.96M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-397 (Dd) Main Base/SAC Groundwater Monitoring Well								
1/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.32F**
10/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/9/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/15/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/26/2009	<0.50	<0.50M	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
MAFB-398 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**0.67**	**4**	<0.50	<0.50	**0.52**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/22/2008	**0.53**	**2.9M**	<0.50	<0.50	**0.45F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**0.57**	**1.7**	<0.50	<0.50	**0.5**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	<0.50	**1.8**	<0.50	<0.50	**1.8**	<0.50	<1.0	<0.50
MAFB-398C (C) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	**0.40F**	**3.1**	<0.50	<0.50	**2.9**	<0.50	**0.19F**	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2008	**0.56**	**2.2M**	<0.50	<0.50	**3**	<0.50	**0.21F**	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**1.1**	**3.1**	<0.50	<0.50	**5.9**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2009	**1.3**	**4.1**	<0.50	<0.50	**8.6**	<0.50	**0.51F**	<0.50
MAFB-399 (C) Landfill LF03/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	**0.54**	**3.8**	<0.50	<0.50	**2.7**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2008	**0.68**	**2.2M**	<0.50	<0.50	**3.1**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**0.63**	**3.2**	<0.50	<0.50	**3.1**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	**0.86**	**3**	<0.50	<0.50	**2.8**	<0.50	<1.0	<0.50
MAFB-400 (C) Landfill LF04/NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**0.82**	**3.4**	<0.50	<0.50	**2.2**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/3/2008	**0.82**	**2.1M**	<0.50	<0.50	**2.4**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**0.69**	**2.7**	<0.50	<0.50	**2**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	**0.74**	**2.6**	<0.50	<0.50	**2**	<0.50	<1.0	<0.50
MAFB-401 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**0.48F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	**4.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

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SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-402 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**2.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	**1.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-403 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**5.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	**2.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-404 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**8.6M**	**0.58**	**0.59**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/22/2009	**1.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-405 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**8.5M**	**4.3**	**0.34F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/3/2008	**6.3J**	**2.1JM**	**0.12F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/22/2009	**27**	**4.1**	**0.22F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-406 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-407 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	**0.20FM**	**0.66**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	<0.50	**0.41F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-408 (WT/C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2009	**0.49F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-409 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-410 (WT/A) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**0.24F**	**0.68**	**5.1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	**0.39F**	**2.3**	**7.1**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	<0.50	**0.44F**	**2.6**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-411 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**0.32F**	**1.8**	<0.50	**4.8**	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	**0.30F**	**1.8**	<0.50	**5.2**	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2009	**0.35F**	**2.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-412 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/20/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-413 (WT/B) Landfill Groundwater Monitoring Well								
1/8/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/15/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/28/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/14/2009	<0.50	<0.50	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-414 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	**6**	**1.3**	**2.1J**	<0.50	**0.30F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/18/2008	**4.2**	**0.97**	<0.50UJ	<0.50	**0.44F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/26/2009	**6.7**	**2.6J**	**1.5**	<0.50	**0.25F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-415 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	<0.50	**0.62**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/22/2009	<0.50	**0.23F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-416 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-417 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**13**	**2**	**1.8**	<0.50	**4.4**	**0.68**	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**12**	**2.4**	**1.9**	<0.50	**4.8**	**0.78**	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-418 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**56**	**9.2**	**4.7**	**15**	**0.85**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/22/2009	**39**	**5.3**	**3.1**	**6.8**	**0.66**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-419 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-420 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**330**	**110**	**0.58**	**10**	**1.7**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/4/2008	**290**	**84J**	**0.19F**	**7.9**	**1.3**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	**240**	**83**	**0.38F**	**8.8**	**0.81**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-421 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**1.9**	**3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
11/4/2008	**1.8**	**3.2J**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-422 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**1.8M**	**0.16F**	<0.50	<0.50	**0.57**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	**1.4**	<0.50	<0.50	<0.50	**0.46F**	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-423 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**4.8M**	<0.50	<0.50	<0.50	**0.9**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/30/2008	**4.5**	<0.50	**0.29F**	<0.50	**0.69**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**1.4M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-423B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	**5.3M**	**0.17F**	<0.50	<0.50	**0.81J**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-424 (WT/C) Landfill Groundwater Monitoring Well								
1/8/2008	<0.50	**0.19F**	<0.50	**1.2**	<0.50	<0.50	<1.0	<0.50
4/15/2008	<0.50	**0.19F**	<0.50	**0.84**	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	**0.34F**	<0.50	**1.3**	<0.50	<0.50	<1.0	<0.50
10/29/2008	<0.50	**0.30F**	<0.50	**1.2**	<0.50	<0.50	<1.0	<0.50
1/28/2009	<0.50	**0.28F**	<0.50	**0.95**	<0.50	<0.50	<1.0	<0.50
4/14/2009	<0.50	**0.23F**	<0.50M	**0.98**	<0.50	<0.50	<1.0	<0.50
7/13/2009	<0.50	**0.40F**	<0.50	**1.8**	<0.50	<0.50	<1.0	<0.50
10/22/2009	<0.50	**0.32F**	<0.50	**1.2**	<0.50	<0.50	<1.0	<0.50
MAFB-425 (WT) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	**0.56**	**0.17FJ**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/22/2008	**5.1**	**1.6**	<0.50	<0.50	**0.55**	<0.50	<1.0	<0.50
7/9/2008	**5.3**	**1.6**	<0.50	<0.50	**0.46F**	<0.50	<1.0	<0.50
11/4/2008	**4.3**	**1.5J**	<0.50	<0.50	**0.56**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	**5.1**	**1.3J**	<0.50UJ	<0.50	**0.63**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-426 (B) Main Base/SAC Groundwater Monitoring Well								
1/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/7/2008	<0.50	<0.50	**0.67**	<0.50	<0.50	<0.50	<1.0	<0.50
7/7/2008	<0.50	<0.50	**0.66**	<0.50	<0.50	<0.50	<1.0	<0.50
10/24/2008	<0.50	<0.50	**0.79**	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	**0.15F**	**0.6**	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/20/2009	<0.50	<0.50M	**0.83**	<0.50	<0.50	<0.50	<1.0	<0.50
10/12/2009	<0.50	<0.50	**1.5**	<0.50	<0.50	<0.50	<1.0	<0.50

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-427 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	<0.50	**0.24F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/24/2008	<0.50	<0.50	**0.21F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-428 (WT/B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	**0.81**	**2.6**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/18/2008	<0.50	**3.1**	**0.31FJ**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	<0.50	**2.4**	**0.44F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-429Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	**10**	**2.5J**	<0.50	<0.50	**0.63**	<0.50	<1.0	<0.50
4/22/2008	**10**	**2.8**	<0.50	<0.50	**0.61**	<0.50	<1.0	<0.50
7/9/2008	**12**	**2.7**	<0.50	<0.50	**0.61**	<0.50	<1.0	<0.50
11/4/2008	**15**	**3.2J**	<0.50	<0.50	**0.92**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**23J**	**4.5J**	<0.50UJ	**0.58J**	**1.2**	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-429Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	**4.6**	**1.3J**	<0.50	<0.50	**0.34F**	<0.50	<1.0	<0.50
4/22/2008	**4.9**	**1.4**	<0.50	<0.50	**0.35F**	<0.50	<1.0	<0.50
7/9/2008	**3.5**	**1.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/4/2008	**3.3**	**0.97J**	<0.50	<0.50	**0.31F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	**13J**	**2.4J**	<0.50UJ	**0.40FJ**	**0.74**	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-429Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/4/2008	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-430 (LMT) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	<0.50	**2.1J**	**0.56**	<0.50	<0.50	<0.50	<1.0	<0.50
4/21/2008	<0.50	**3**	**0.52**	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	**3.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/29/2008	<0.50	**6.4**	**0.53**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	<0.50	**3.5**	**0.77**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-431Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	**32**	**6.5J**	<0.50	**0.54**	**1.3**	<0.50	<1.0	<0.50
4/22/2008	**0.66**	<0.50	<0.50	<0.50	**0.20F**	<0.50	<1.0	<0.50
7/9/2008	**21**	**4.5**	<0.50	**0.40F**	**1.1**	<0.50	<1.0	<0.50
10/28/2008	**11J**	**2.9J**	<0.50	<0.50	**0.65**	<0.50	<1.0	<0.50

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	**16**	**3.2**	<0.50	**0.36F**	**0.78**	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-431Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/22/2008	**42**	**8.8**	**0.34F**	**0.81**	**1.9**	<0.50	<1.0	<0.50
7/9/2008	**2.1**	**0.34F**	<0.50	<0.50	**0.28F**	<0.50	<1.0	<0.50
10/28/2008	**2.8J**	**0.55J**	<0.50	<0.50	**0.39F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	**1.2**	**0.20F**	<0.50	<0.50	**0.26F**	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-431Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	**0.25F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/28/2008	**0.45FJ**	<0.50UJ	<0.50	<0.50	**0.16F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	**0.64**	<0.50	<0.50	<0.50	**0.21F**	<0.50	<1.0	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-432 (WT/C) AC & W Groundwater Monitoring Well								
1/28/2008	**6.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/25/2008	**9.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/8/2008	**9.6**	<0.50	<0.50	<0.50	**0.18F**	<0.50	<1.0	<0.50
11/3/2008	**8.6**	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0	<0.50
1/30/2009	**9.3**	<0.50	<0.50	<0.50	**0.18F**	<0.50	<1.0	<0.50
4/24/2009	**8**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-433 (WT/C) AC & W Groundwater Monitoring Well								
1/28/2008	**0.49F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2008	**0.31F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/8/2008	**0.21F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/3/2008	<0.50	<0.50	<0.50	<0.50	<0.50M	<0.50	<1.0	<0.50
1/30/2009	**0.25F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-434Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	**23**	**2.6J**	<0.50	**0.33F**	**1**	<0.50	<1.0	<0.50
4/22/2008	**11**	**3.3**	<0.50	<0.50	**0.87**	<0.50	<1.0	<0.50
7/9/2008	**19**	**3.9**	<0.50	**0.32F**	**0.86**	<0.50	<1.0	<0.50
10/28/2008	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/9/2009	**8.9**	**1.3**	<0.50	<0.50	**0.62**	<0.50	<1.0	<0.50
5/1/2009	**18**	**3.1**	<0.50	<0.50	**0.82**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/26/2009	**18**	**3.2M**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
MAFB-434Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/28/2008	**0.26F**	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/22/2008	**0.25F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	**0.16F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/28/2008	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/9/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-434Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well								

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/28/2008	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/28/2008	**18J**	**4.0J**	<0.50	**0.43F**	<0.50	<0.50	<1.0	<0.50
2/9/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-435 (Dd) Main Base/SAC Groundwater Monitoring Well								
1/3/2008	**0.18F**	**5.8**	**0.74**	<0.50	<0.50	<0.50	<1.0	<0.50
1/28/2008	<0.50	**5.6J**	**0.82**	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2008	<0.50	**6.6M**	**0.86**	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	**6**	**0.64**	<0.50	<0.50	<0.50	<1.0	**0.38F**
10/28/2008	<0.50UJ	**8.1J**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50
2/9/2009	<0.50	**13**	**1.6**	<0.50	<0.50	<0.50	<1.0	<0.50
5/6/2009	<0.50	**12**	**2.7**	<0.50	<0.50	<0.50	<1.0	<0.50
7/20/2009	<0.50	**15M**	**1.9**	<0.50	<0.50	<0.50	<1.0	<0.50
10/19/2009	<0.50	**9.1**	**1.1**	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-436 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	<0.50	**4.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-437Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	**0.33F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/23/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.34F**
10/28/2008	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/9/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/20/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-437Ds (Ds) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	<0.50	**1.5**	**0.27F**	<0.50	<0.50	<0.50	<1.0	<0.50
4/23/2008	<0.50	**0.73**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2008	<0.50	**0.89**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/28/2008	<0.50UJ	**1.4J**	**0.26F**	<0.50	<0.50	<0.50	<1.0	<0.50
2/9/2009	<0.50	**0.56**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/20/2009	<0.50	**0.94**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-438 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/18/2008	**0.5**	**3.7**	<0.50	<0.50	**1**	<0.50	<1.0	<0.50
2/9/2009	**0.48F**	**2.4**	<0.50	<0.50	**1.3**	<0.50	<1.0	<0.50
5/4/2009	<0.50	**4.4J**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	**0.48F**	**4.5**	<0.50	<0.50	**0.97**	<0.50	<1.0	<0.50
10/22/2009	**0.42F**	**3.5**	<0.50	<0.50	**1**	<0.50	<1.0	<0.50
MAFB-439 (WT) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/2/2008	<0.50	**33**	**7.2**	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	**0.27F**	**49**	**7.1**	<0.50	**0.23F**	<0.50	<1.0	<0.50
5/26/2009	**0.23F**	**53J**	**9**	<0.50	<0.50	<0.50	<1.0	<0.50
7/16/2009	**0.17F**	**61M**	**12**	<0.50	<0.50	<0.50	<1.0	<0.50
10/29/2009	**0.24F**	**77M**	**14**	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-440 (WT) Landfill Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/29/2008	<0.50	**0.19F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/27/2008	**0.81**	**0.44F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	**0.63**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/19/2009	<0.50	**0.59**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-440P (WTZPERCH) Landfill Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/29/2008	<0.50	**0.16F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/27/2008	**0.61**	**0.38F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	**0.56**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/19/2009	<0.50	**0.53**	<0.50M	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-441 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/3/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/29/2009	<0.50M	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/23/2009	<0.50	<0.50M	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
10/28/2009	<0.50	<0.50M	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-442 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/2/2008	<0.50	**0.45F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/18/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/26/2009	**0.16F**	<0.50M	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
MAFB-443 (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	**0.16F**	**0.22F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/26/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/12/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-444 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	**1.7**	**0.53**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	**1.6**	**0.34F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/27/2009	**1.6**	<0.50	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/13/2009	**1.4M**	**0.26F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/12/2009	**1.4M**	**0.24F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-445 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	**2.8**	**0.55**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	**3.6**	**0.55**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/27/2009	**3.5**	**0.53**	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/13/2009	**2.9M**	**0.51**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/12/2009	**2.9M**	**0.46F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-446 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	**18**	**2.9**	<0.50	**0.37F**	**0.71**	**0.25F**	<1.0	<0.50
1/30/2009	**48**	**6.6**	<0.50	**0.92**	**1.7**	**0.46F**	<1.0	<0.50
5/27/2009	**53**	**9.2**	<0.50	**1.1**	**1.6**	<0.50M	<1.0M	<0.50
7/13/2009	**48M**	**9.4**	<0.50	**1.1**	**1.7**	**0.41F**	<1.0	<0.50
10/12/2009	**57M**	**9.3**	<0.50	**1.1**	**1.8**	**0.5**	<1.0	<0.50
MAFB-447 (C) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	**10**	**1.3**	<0.50	<0.50	**0.24F**	<0.50	<1.0	<0.50
1/30/2009	**15**	**1.5**	<0.50	**0.33F**	**0.38F**	<0.50	<1.0	<0.50
5/27/2009	**15**	**2.1**	<0.50	**0.37F**	**0.21F**	<0.50M	<1.0M	<0.50
7/13/2009	**15M**	**1.9**	<0.50	**0.38F**	<0.50	<0.50	<1.0	<0.50
10/12/2009	**18M**	**2.1**	<0.50	**0.46F**	**0.30F**	<0.50	<1.0	<0.50
MAFB-448 (B) Site 7 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	**7.1**	**0.79**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	**7.5**	**1.2**	<0.50	<0.50	**0.19F**	<0.50	<1.0	<0.50
5/27/2009	**8.5**	**1.3**	<0.50	<0.50	<0.50	<0.50M	<1.0M	<0.50
7/13/2009	**8.3M**	**1.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/12/2009	**9.0M**	**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-449Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/8/2008	<0.50	**0.20F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/12/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-449Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/8/2008	<0.50	**0.17F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/13/2009	**0.36F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-450 (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/30/2009	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50	<0.50	<1.0	<0.50M
7/20/2009	<0.50	**0.22FM**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/26/2009	<0.50	<0.50M	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
MAFB-451 (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	**13**	**2.7**	**0.49F**	**0.32F**	**0.76**	<0.50	<1.0	<0.50
2/3/2009	**13**	**3.1**	<0.50	<0.50	**0.78**	<0.50	<1.0	<0.50
4/29/2009	**13**	**2.8**	<0.50	<0.50	**0.77J**	<0.50	<1.0	<0.50
7/23/2009	**14**	**2.6M**	<0.50UJ	<0.50	**0.96**	<0.50	<1.0	<0.50
10/28/2009	**16**	**3.8M**	<0.50	<0.50	**0.30F**	<0.50	<1.0	<0.50
MAFB-452B (B) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/25/2009	**40**	**11**	**2.8**	**0.69**	<0.50	<0.50	<1.0	<0.50
4/29/2009	**36**	**8.7**	<0.50	**0.55**	**1.1J**	<0.50	<1.0	<0.50
7/23/2009	**51**	**15M**	<0.50UJ	**1.9**	**1.7**	<0.50	<1.0	<0.50
10/28/2009	**48**	**13M**	<0.50	**0.63**	**0.79**	<0.50	<1.0	<0.50
MAFB-452Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/25/2009	**9.9**	**3.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/29/2009	**12**	**3.8**	<0.50	<0.50	**1.5J**	<0.50	<1.0	<0.50
7/23/2009	**19**	**5.7M**	<0.50UJ	**0.52**	**3**	<0.50	<1.0	<0.50
10/28/2009	**18**	**5.4M**	<0.50	<0.50	**1.4**	<0.50	<1.0	<0.50
MAFB-453 (WT) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**1.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/23/2009	**1.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	**1.6M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**2.7**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-453C (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**0.23F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/23/2009	**0.55**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	**4.2M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**11**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-454 (WT) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**0.89**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/24/2009	**1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	**1.1M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**1**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
MAFB-454C (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**4.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/24/2009	**4.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/14/2009	**4.5M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**5.5**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-455 (WT) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/27/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/16/2009	<0.50M	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	<0.50	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-456 (WT) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**0.28F**	**0.57**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/26/2009	**0.61**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/16/2009	**0.53M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**0.42F**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-456C (C) AC & W Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**1.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/27/2009	**1.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/16/2009	**2.0M**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	**0.98**	<0.50	<0.50	<0.50M	<0.50	<0.50	<1.0	<0.50
MAFB-457Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	**0.26F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/30/2009	**0.26F**	<0.50	<0.50	<0.50	**0.17F**	<0.50	<1.0	<0.50
4/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/23/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-457Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	**8.6**	**1.5**	<0.50	<0.50	**0.42F**	<0.50	<1.0	<0.50
1/30/2009	**9.4**	**1.1**	<0.50	<0.50	**0.56**	<0.50	<1.0	<0.50
4/24/2009	**9.4**	**2.1**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/13/2009	**9.6**	**2**	<0.50	<0.50	**0.33F**	<0.50	<1.0	<0.50
10/12/2009	**10**	**1.9**	<0.50	<0.50	**0.47F**	<0.50	<1.0	<0.50
MAFB-458Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	**7.4**	**1.2**	<0.50	<0.50	**0.38F**	<0.50	<1.0	<0.50

TABLE A-1

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/30/2009	**11**	**1.1**	<0.50	<0.50	**0.71**	<0.50	<1.0	<0.50
4/24/2009	**13M**	**1.9**	<0.50	<0.50	**0.85J**	<0.50	<1.0	<0.50
7/13/2009	**5.4**	**0.87**	<0.50	<0.50	**0.24F**	<0.50	<1.0	<0.50
10/12/2009	**5.5**	**0.77**	<0.50	<0.50	**0.33F**	<0.50	<1.0	<0.50
MAFB-458Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	**3.1**	**0.44F**	<0.50	<0.50	**0.32F**	<0.50	<1.0	<0.50
1/30/2009	**4.5**	**0.47F**	<0.50	<0.50	**0.55**	<0.50	<1.0	<0.50
4/24/2009	**4.6M**	**0.63**	<0.50	<0.50	**0.58J**	<0.50	<1.0	<0.50
7/13/2009	**4.3**	**0.67**	<0.50	<0.50	**0.26F**	<0.50	<1.0	<0.50
10/23/2009	**4.4**	**0.59**	<0.50	<0.50	**0.47F**	<0.50	<1.0	<0.50
MAFB-459D (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/20/2009	<0.50	<0.50M	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-459Dd (Dd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/13/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/20/2009	<0.50	<0.50M	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-460Bd (D) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/30/2009	**0.29F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-460Bs (Bs) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/30/2009	**3.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-461Bd (Bd) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MAFB-461Bs (Bs) Main Base/SAC Groundwater Monitoring Well								

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MB-3 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MB-4 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/2/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS 19EW01 (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS 39ABuB (WT/B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.26F**	**6.4**	<0.50UJ	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	<0.50	**2.8M**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.39F**	**5.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-10B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.94**	**28M**	**2.6J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**0.79**	**17**	**0.38F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-11B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	<0.50	**3.6**	**2.8J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/15/2009	<0.50	**3.7**	**0.91**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-12AB (WT/B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.26F**	**1.3**	<0.50UJ	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.39F**	**1.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-12B (B) Main Base/SAC Groundwater Extraction Well								
1/10/2008	<0.50	**0.16F**	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
4/18/2008	<0.50	<0.50	**0.82J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/10/2008	<0.50	**0.26F**	**0.24F**	<0.50	<0.50	<0.50	<1.0	**0.31F**
10/31/2008	<0.50	<0.50M	**0.31F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<0.50	**0.30F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-13BuB (Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	**15**	**3.1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/15/2009	**14**	**3**	<0.50	**0.36F**	**0.76**	<0.50	<1.0	<0.50
7/23/2009	**18**	**3.3**	<0.50UJ	<0.50	**1**	<0.50	<1.0	<0.50
10/15/2009	**17**	**3.2**	<0.50	**0.36F**	**0.75**	<0.50	<1.0	<0.50
MBS EW-1A (WT) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW1ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**65**	**17M**	**0.49F**	**1.4**	**0.32F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	**70**	**17M**	**0.29F**	**1.7**	**0.41F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**68**	**19**	<0.50	**1.6**	**0.36F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-1B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**2.1**	**6.2M**	**2**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	**0.31F**	**2.6M**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**0.79**	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-1Bu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
5/1/2008	**2.1**	**0.62**	<0.50	<0.50	**1.1**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	**1.6**	<0.50	<0.50	<0.50	**0.83**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**2**	**0.59**	<0.50	<0.50	**0.80J**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-1D (D) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.57**	**59**	**1.5J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.61**	**42**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2A (WT) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW2ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**40**	**11**	**0.26FJ**	**1.3**	**0.30FJ**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**43**	**13**	<0.50	**1.1**	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2AR (WT/A) Main Base/SAC Groundwater Extraction Well								
2/7/2008	**3.8**	**5.5**	**1.3**	<0.50	<0.50	<0.50	<1.0	<0.50
6/12/2008	**5.1**	**5.4**	**2.3**	<0.50	**0.26F**	<0.50	<1.0	**0.41F**
7/10/2008	**5**	**5.1**	**1.7**	<0.50	**0.20F**	<0.50	<1.0	**0.66**
10/31/2008	**6.8**	**7.3M**	**3.2**	**0.39F**	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**10**	**8**	**7.2**	**0.7**	**0.25F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**8.1**	**33**	**0.55J**	<0.50	**0.22FJ**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**6.5**	**27**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2Bu (Bu) Main Base/SAC Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/12/2008	**0.31F**	**0.36F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2D (D) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**2**	**27M**	**2.5**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	**2.1**	**31M**	**2.5**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**2.3**	**30**	**0.7**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-3A (WT) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-3B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**2.7**	**13**	**0.95J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/31/2008	**4.3**	**14M**	**0.73**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**5.5**	**14**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-3Bu (Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	<0.50	<0.50M	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**0.26F**	**0.28F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-3D (D) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**1.8**	**56M**	**2.1**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**1.9**	**56**	**0.69**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-4A (WT/B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.16F**	**0.51**	<0.50UJ	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	<0.50	**0.44F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW4ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**19**	**11**	**9.5J**	**1.6**	**0.37FJ**	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**20**	**7.6**	**5.6**	**1.2**	**0.38F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-4B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/30/2008	**0.34F**	**4.5**	**0.22F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	**0.34F**	**3.8**	**0.17F**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.53**	**5.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-4Bu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**28**	**8.7M**	**0.38F**	**0.41F**	**0.37F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**18**	**6**	<0.50	**0.37F**	**0.57J**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-4D (D) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.53**	**27**	**0.26FJ**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.55**	**25**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-5A (WT/B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.19F**	**3.3**	<0.50UJ	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW5ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**71**	**21**	**7.8J**	**7.6**	**0.74J**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	**50**	**14**	**7.9**	**4.5**	**0.44F**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**68**	**18**	**7.3**	**6.2**	**0.6**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-5B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	<0.50	**7.5**	**0.54J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<0.50	**6.3**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-5D (D) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	<0.50	**6.8**	**1.0J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	<0.50	**4.7**	**0.61**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<0.50	**5.7**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW6ABu (WT) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.95**	**1**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-6B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**0.33F**	**3**	**0.33FJ**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	**0.34F**	**2.6**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-6D (D) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	<0.50	**5.4**	**1.6J**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	<0.50	**4.1**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<0.50	**5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW7ABu (WT/Bu) Main Base/SAC Groundwater Extraction Well								
2/7/2008	**0.25F**	**2.9**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/18/2008	**0.22F**	**2.7**	<0.50UJ	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**0.26F**	**2.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-7B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**0.36F**	**7.9M**	**0.29F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**0.33F**	**6.1**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-8B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	<0.50	**3.1**	**0.13FJ**	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<0.50	**1.5**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-9B (B) Main Base/SAC Groundwater Extraction Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**7.2**	**2.5**	**0.34F**	<0.50	**0.6**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**6**	**2.2**	<0.50	<0.50	**0.60J**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PTE AF Treatment System Effluent (after filter)								
1/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/6/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/20/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/3/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/17/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/1/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/15/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/12/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/10/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.32F**
7/24/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/7/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/4/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/18/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/2/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/30/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/13/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/26/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/11/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/22/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/8/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/4/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
2/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/5/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
3/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/2/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
4/30/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/14/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
5/28/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/11/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
6/25/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/9/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/23/2009	<0.50	<0.50	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
8/6/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
8/20/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
9/3/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
9/17/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/15/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/29/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/12/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
11/24/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/10/2009	**0.21F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
12/22/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MBS PTE201 Treatment System Mid-fluent								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PTE301 Treatment System Effluent								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PTI Treatment System Influent								
1/10/2008	**2.5**	**17**	**1.0J**	<0.50	<0.50	<0.50	<1.0	<0.50
4/17/2008	**4**	**13**	**1.2**	<0.50	<0.50	<0.50	<1.0	<0.50
7/10/2008	**6.7**	**11**	**0.85**	<0.50	**0.25F**	<0.50	<1.0	**0.52**
10/30/2008	**4.1**	**11**	**0.93**	<0.50	<0.50	<0.50	<1.0	<0.50
2/4/2009	**3.3**	**11**	**0.96**	<0.50	<0.50	<0.50	<1.0	<0.50
4/16/2009	**4.4**	**9.4**	<0.50	<0.50	**0.21FJ**	<0.50	<1.0	<0.50
7/23/2009	**4.7**	**9.5**	**0.86J**	<0.50	<0.50	<0.50	<1.0	<0.50
10/15/2009	**4.1**	**9.6**	**1.3**	<0.50	**0.17F**	<0.50	<1.0	<0.50
MBS PZ-01 (WT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-02 (WT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-03 (WT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-04 (WT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-11 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**1.3M**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**0.44F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-12 (LMT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<0.50	**0.46F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-13 (Dd) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.50	**0.89**	**0.20F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<0.50	**0.99**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-14 (LMT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-15 (LMT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-19 (WT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-37 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	<0.50	**1.7**	<0.50	<0.50	<0.50UJ	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-38 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	**0.30F**	**4.4**	**0.25F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	**0.33F**	**4.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-39 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	**4.4M**	**0.30F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	<0.50	**3.8**	**0.27F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-41 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-42D (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	<0.50	**7**	**0.38F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/6/2009	<0.50	**6.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-43 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-44 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**1.4**	**0.76**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**1.3**	**0.64**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-47 (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-48D (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-48S (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-49D (LMT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-50D (LMT) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-50S (Dd) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**0.27F**	**75**	**0.97**	<0.50	<0.50	<0.50	<1.0	<0.50

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/8/2009	**0.25F**	**110**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-51 (D) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**2.8**	**37**	**1.8**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	**2.7**	**36**	**2**	<0.50	**0.29F**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-52 (D) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/28/2008	<0.50M	**4.5**	**0.12F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/20/2009	<0.50	**5.4**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-53 (D) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-54 (D) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<0.50	**13**	**0.48F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<0.50	**7.7**	**0.56**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-55B (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**18**	**6.8**	**1.9**	**0.33F**	**0.38F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**13**	**5.2**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-55Bu (Bu) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	**12**	**4.2**	**0.68**	<0.50	**1.1**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	**10**	**4.8**	**0.76**	<0.50	**1.2**	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**8.5**	**3.5**	<0.50	<0.50	**1**	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-57B (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-57D (D) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-58 (D) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	<0.50	<0.50M	**0.11F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	<0.50UJ	**0.26FJ**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/4/2009	<0.50	<0.50UJ	<0.50UJ	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-59B (B) Main Base/SAC Groundwater Piezometer								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-04 (NA) Off-Base Groundwater Production Well								
1/29/2008	<0.20	**0.051F**	**0.27**	<0.50	<0.50	<0.50	<0.50	<0.50
2/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
3/25/2008	<0.20	<0.20	<0.20	<0.50	**0.15F**	<0.50	<0.50	<0.50
4/29/2008	<0.20	<0.20	**0.21**	<0.50	<0.50	<0.50	<0.50	<0.50
5/27/2008	<0.20	<0.20	**0.26**	<0.50	<0.50	<0.50	<0.50	<0.50
6/24/2008	<0.20	**0.12F**	**0.21**	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	**0.080F**	**0.21**	<0.50	<0.50	<0.50	<0.50	<0.50
9/30/2008	<0.20	**0.074F**	**0.19F**	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	**0.096FM**	**0.16F**	<0.50	<0.50	<0.50	<0.50	<0.50
11/25/2008	<0.20	<0.20M	**0.24**	<0.50	<0.50	<0.50	<0.50	<0.50
12/30/2008	<0.20UJ	<0.20UJM	**0.20J**	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ
1/27/2009	<0.20	**0.055FM**	**0.19F**	<0.50	<0.50	<0.50	<0.50	<0.50
2/24/2009	<0.20	<0.20M	**0.18F**	<0.50	<0.50	<0.50	<0.50	<0.50
3/31/2009	<0.20	<0.20M	**0.2**	<0.50	<0.50	<0.50	<0.50	<0.50
4/28/2009	<0.20	<0.20	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
5/26/2009	<0.20	<0.20	**0.15F**	<0.50	<0.50	<0.50	<0.50	<0.50
6/30/2009	<0.20	**0.074F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	<0.20	**0.067F**	**0.26**	<0.50	<0.50	<0.50	<0.50	<0.50
8/25/2009	<0.20	**0.054F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
9/29/2009	<0.20	<0.20	**0.16F**	<0.50	<0.50	<0.50	<0.50	<0.50
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
11/24/2009	<0.20	<0.20	**0.096F**	<0.50	<0.50	<0.50	<0.50	<0.50
12/29/2009	<0.20	<0.20	**0.14F**	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-06 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-07 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	**4.3**	**0.51**	<0.50	<0.50	**0.51**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	**3.7**	**0.39F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-08 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-09 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	**0.62**	**0.17F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	**0.55**	**0.17F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-11 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-12 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	**5.7**	**0.23F**	**0.14F**	<0.50	**0.19F**	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	**3.2**	<0.50	**0.14F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-17 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	**0.17F**	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-22 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-23 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-24 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	**0.18F**	**3.8**	**0.21F**	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	**0.28F**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-27 (NA) Off-Base Groundwater Production Well								
1/29/2008	<0.20	**0.079F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
5/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	**0.10F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	**0.11FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	**0.051F**	**0.066FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
4/28/2009	**0.044F**	<0.20	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	**0.045F**	**0.058F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-31 (NA) Off-Base Groundwater Production Well								
1/29/2008	**0.12F**	**0.17F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
4/29/2008	<0.20	**0.087F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	**0.12F**	**0.17F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	**0.10F**	**0.16FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	**0.18F**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/28/2009	<0.20	**0.10F**	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	**0.072FM**	**0.15FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-32 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	**0.059FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/28/2009	<0.20	<0.20	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M

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FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-39 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-40 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-41 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-42 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-43 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-44 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-45 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-46 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-47 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-48 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-49 (NA) Off-Base Groundwater Production Well								
1/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
4/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/28/2009	<0.20	<0.20	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-51 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/27/2009	<0.20	<0.20	**0.47**	<0.50	<0.50	<0.50	<0.50	<0.50M
4/28/2009	<0.20	<0.20	**0.64J**	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	<0.20M	<0.20M	**0.53**	<0.50	<0.50	<0.50	<0.50	<0.50M
10/27/2009	<0.20	<0.20	**0.53**	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-51/52I (NA) Off-Base Treatment System Influent								
1/29/2008	**0.25**	**0.12F**	**0.29**	<0.50	**0.40F**	<0.50	<0.50	<0.50
2/26/2008	**0.2**	<0.20	**0.21**	<0.50	**0.32F**	<0.50	<0.50	<0.50
3/25/2008	<0.20	<0.20	<0.20	<0.50	**0.20F**	<0.50	<0.50	<0.50
4/29/2008	**0.14F**	<0.20	**0.23**	<0.50	**0.24F**	<0.50	<0.50	<0.50
5/27/2008	<0.20	<0.20	**0.25**	<0.50	**0.19F**	<0.50	<0.50	<0.50
6/24/2008	**0.13F**	**0.13F**	**0.24**	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	**0.12F**	**0.17F**	**0.3**	<0.50	**0.25F**	<0.50	<0.50	<0.50
9/30/2008	**0.089F**	**0.061F**	**0.18F**	<0.50	**0.15F**	<0.50	<0.50	<0.50

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/28/2008	**0.061F**	**0.079FM**	**0.22**	<0.50	**0.11F**	<0.50	<0.50	<0.50
11/25/2008	**0.10F**	**0.059FM**	**0.23**	<0.50	**0.21F**	<0.50	<0.50	<0.50
12/30/2008	<0.20UJ	<0.20UJM	<0.20UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ
1/27/2009	**0.067F**	**0.062FM**	**0.3**	<0.50	<0.50	<0.50	<0.50	<0.50
2/24/2009	**0.037F**	<0.20M	**0.41**	<0.50	<0.50	<0.50	<0.50	<0.50
3/31/2009	<0.20	<0.20M	**0.42**	<0.50	<0.50	<0.50	<0.50	<0.50
4/28/2009	<0.20	<0.20	**0.55J**	<0.50	**0.065F**	<0.50	<0.50	<0.50
5/26/2009	<0.20	<0.20	**0.29**	<0.50	<0.50	<0.50	<0.50	<0.50
6/30/2009	<0.20	<0.20	**0.35**	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	**0.033F**	<0.20	**0.34**	<0.50	<0.50	<0.50	<0.50	<0.50
8/25/2009	<0.20	<0.20	**0.28**	<0.50	<0.50	<0.50	<0.50	<0.50
9/29/2009	<0.20	<0.20	**0.37**	<0.50	<0.50	<0.50	<0.50	<0.50
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
11/24/2009	<0.20	<0.20	**0.38**	<0.50	<0.50	<0.50	<0.50	<0.50
12/29/2009	<0.20	<0.20	**0.35**	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-52 (NA) Off-Base Groundwater Production Well								
1/29/2008	**0.23**	**0.13F**	**0.28**	<0.50	**0.39F**	<0.50	<0.50	<0.50
5/27/2008	<0.20	<0.20	**0.32**	<0.50	**0.24F**	<0.50	<0.50	<0.50
8/26/2008	**0.18F**	**0.14F**	**0.31**	<0.50	**0.23F**	<0.50	<0.50	<0.50
10/29/2008	**0.16F**	**0.085FM**	**0.27**	<0.50	**0.25F**	<0.50	<0.50	<0.50
1/27/2009	**0.23**	**0.18F**	**0.29**	<0.50	**0.34F**	<0.50	<0.50	<0.50M
4/28/2009	**0.25**	**0.15F**	**0.46J**	<0.50	**0.36F**	<0.50	<0.50	<0.50
7/28/2009	**0.17FM**	**0.12FM**	**0.19F**	<0.50	**0.28F**	<0.50	<0.50	<0.50M
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-53 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-54 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	**0.058FM**	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/28/2009	<0.20	<0.20	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-55 (NA) Off-Base Groundwater Production Well								
1/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
4/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-56 (NA) Off-Base Groundwater Production Well								
1/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
4/29/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2008	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2008	<0.20	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
1/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M
4/28/2009	<0.20	<0.20	<0.20UJ	<0.50	<0.50	<0.50	<0.50	<0.50
7/28/2009	<0.20M	<0.20M	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50M

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SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/27/2009	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
OFB-57 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-67 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-68 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/16/2008	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-69 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-70 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-71 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-72 (NA) Main Base/SAC Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	**3.6M**	**0.51**	<0.50	<0.50M	**0.49FM**	<0.50M	<1.0M	<0.50M
6/29/2009	**3.6M**	**0.52**	<0.50	<0.50M	**0.35FM**	<0.50M	<1.0M	<0.50M
8/17/2009	**3**	**0.48F**	<0.50	<0.50	**0.24F**	<0.50	<1.0	<0.50
10/28/2009	**3.8**	**0.46FM**	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
OFB-73 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-74 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-75 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-76 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-77 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/1/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-78 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/2/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-79 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/2/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-80 (NA) Main Base/SAC Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/2/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
8/17/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
10/28/2009	<0.50	<0.50M	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
OFB-81 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/2/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-82 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/22/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-83 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/22/2009	<0.50M	<0.50	<0.50	<0.50M	<0.50M	<0.50M	<1.0M	<0.50M
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-84 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-85 (NA) Off-Base Groundwater Production Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-1

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
SIGNIFICANT VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number/Hsg Unit/Location/Type Date Sampled	TCE (µg/L)	PCE (µg/L)	CCl4 (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,2-DCA (µg/L)	1,2-DCP (µg/L)	Chloromethane (µg/L)
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2009	<0.50	<0.50M	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

Notes:

B - Blank contamination.
J - Result is an estimate.
M - Matrix interference.
R - Result is invalid.

CCl4 - Carbon tetrachloride
DCA - Dichloroethane
DCE - Dichloroethene
DCP - Dichloropropane
PCE - Tetrachloroethene
TCE - Trichloroethene

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7-BV-01 (NA) Landfill Soil Vapor Extraction/Injection Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	*NS*	*NS*	**0.78**	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	*NS*	*NS*	**6.8**	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	*NS*	*NS*	**5.3**	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-BV-02 (NA) Landfill Soil Vapor Extraction/Injection Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-BV-04 (NA) Landfill Soil Vapor Extraction/Injection Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-BV-06 (NA) Landfill Soil Vapor Extraction/Injection Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-BV-07 (NA) Landfill Soil Vapor Extraction/Injection Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-BV-13 (NA) Landfill Soil Vapor Extraction/Injection Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	<50	**110**	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	<50	**180**	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-EW-1 (B) Site 7 Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**11F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-EW-2 (B) Site 7 Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**17F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	**19F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	**14F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**13F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PTE Treatment System Effluent										
1/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/24/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/7/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/21/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/6/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/20/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/3/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/15/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/29/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/12/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/26/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/11/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/12/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/24/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/28/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/7/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/21/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/4/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/18/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
10/2/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/16/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/13/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/26/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/11/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/22/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/8/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/22/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/4/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/19/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/5/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/19/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/2/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/30/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/14/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/28/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/11/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/25/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/6/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/20/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/3/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/17/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/1/2009	<50	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/15/2009	<50	<50	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2009	<50	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/12/2009	<50	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/24/2009	<50	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/10/2009	<50	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/22/2009	<50	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-PTI Treatment System Influent										
1/10/2008	**9.1F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/17/2008	**15F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	**19F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/11/2008	**18F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/12/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/17/2008	**10F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/24/2008	**14F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/28/2008	**15F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/7/2008	**14F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/21/2008	**9.3F**	<50	<0.50	<1.0	**0.22F**	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	**9.3F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/4/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	**13F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
10/15/2009	**9.0F**	<50	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-PZ-37 (WT) Landfill Groundwater Piezometer										
1/14/2008	**20F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/14/2008	**27F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	**23F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/26/2009	**11F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/20/2009	**13F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	**16F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-37P (WTZPERCH) Landfill Groundwater Piezometer										
1/8/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/15/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/7/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/28/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/15/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/21/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7-PZ-38P (WTZPERCH) Landfill Groundwater Piezometer										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<50	**170**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PTE Treatment System Effluent										
1/10/2008	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/24/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/6/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/20/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/3/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/12/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/26/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/24/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/4/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
10/2/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/16/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	*NS*	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/13/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/26/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/11/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/8/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/22/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/4/2009	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/5/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/2/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2009	*NS*	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/11/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/25/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/6/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/3/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/17/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/15/2009	*NS*	<50	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/12/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/24/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/10/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/22/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
ACW PTI Treatment System Influent										
1/10/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/4/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/15/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
FFS EW15-1 (NA) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
FFS EW15-2 (NA) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
FFS MW15-1 (NA) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
FFS MW15-2 (NA) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
FFS MW15-3 (NA) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-044 (WTZPERCH) Landfill Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-092 (WT) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2008	**22F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-148 (B) Site 7 WP07 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well										
1/8/2008	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/7/2008	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/28/2009	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/13/2009	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-203 (WT) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**26F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**17F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-239 (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/11/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-271 (B) Off-Base Groundwater Monitoring Well										
1/11/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/8/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well										
1/8/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/15/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/7/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/28/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/14/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/21/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-314 (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**36F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**35F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-319 (D) Main Base/SAC Groundwater Monitoring Well										
1/11/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-321 (Dd) Off-Base Groundwater Monitoring Well										
1/11/2008	*NS*	*NS*	<0.50	<0.50	**0.13F**	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/31/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-322 (B) Off-Base Groundwater Monitoring Well										
1/9/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	**0.088F**	<0.50	**0.13F**	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-323 (B) Off-Base Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/7/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/31/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-324 (B) Off-Base Groundwater Monitoring Well										
1/11/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-326 (D) Off-Base Groundwater Monitoring Well										
1/9/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-327 (D) Off-Base Groundwater Monitoring Well										
1/9/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/7/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-328 (D) Off-Base Groundwater Monitoring Well										
1/11/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-330 (B) Off-Base Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/7/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-336 (D) Off-Base Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/7/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/31/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-337 (Dd) Off-Base Groundwater Monitoring Well										
1/9/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
2/3/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-338 (Dd) Off-Base Groundwater Monitoring Well										
1/11/2008	*NS*	*NS*	**0.13F**	<0.50	**0.23F**	<0.50	*NS*	*NS*	*NS*	*NS*
4/10/2008	*NS*	*NS*	<0.50	<0.50	**0.15F**	<0.50	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<0.50	**0.18F**	**0.11F**	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	**0.13F**	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	**0.15F**	<0.50	**0.16F**	<0.50	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<0.50	**0.15F**	<0.50	*NS*	*NS*	*NS*	*NS*
7/15/2009	*NS*	*NS*	<0.50	**0.045F**	**0.16F**	**0.13F**	*NS*	*NS*	*NS*	*NS*
10/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
MAFB-349 (LMT) Off-Base Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/7/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-359 (WT/Bu) Main Base/SAC Groundwater Monitoring Well										
1/9/2008	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/24/2008	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/9/2008	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	*NS*	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	*NS*	<50M	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-371D (D) Site 7 Groundwater Monitoring Well										
1/31/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-372B (B) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-372D (D) Site 7 Groundwater Monitoring Well										
1/31/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-374 (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-383D (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-386D (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-387Ds (Ds) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-388Dd (Dd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-391 (C) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-393 (C) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-394 (C) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/5/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-413 (WT/B) Landfill Groundwater Monitoring Well										
1/8/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/15/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/7/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/28/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/14/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/22/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-414 (WT) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/18/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/26/2009	<50	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-417 (WT/B) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	**12F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	**9.0F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-419 (WT/B) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	**190**	**320**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/4/2008	**32F**	**550**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	<50	<50M	<0.50	<1.0	<1.0	**0.33F**	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/26/2009	<50	<50	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-424 (WT/C) Landfill Groundwater Monitoring Well										
1/8/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/22/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-428 (WT/B) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/18/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/21/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-429Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/4/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-429Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/4/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-429Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	**0.64F**	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/4/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-430 (LMT) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
5/18/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-431Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-431Dd (Dd) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-431Ds (Ds) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-432 (WT/C) AC & W Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/25/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/3/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-433 (WT/C) AC & W Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/8/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/3/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-434Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	**0.30F**	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-434Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-434Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well										
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-435 (Dd) Main Base/SAC Groundwater Monitoring Well										
1/3/2008	*NS*	*NS*	<0.50	<1.0	**0.29F**	<1.0	*NS*	*NS*	*NS*	*NS*
1/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/6/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-436 (WT) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	<50	<50	<0.50	<1.0	**1.7**	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-437Dd (Dd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
4/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/23/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-437Ds (Ds) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/23/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-438 (WT) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/4/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/22/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-439 (WT) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/2/2008	**13F**	**370**	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	**21F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/26/2009	**18F**	<50M	<0.50	<1.0	**0.21F**	<1.0	*NS*	*NS*	*NS*	*NS*
7/16/2009	**29F**	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2009	**27F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-440 (WT) Landfill Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-440P (WTZPERCH) Landfill Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
9/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/27/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-441 (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
9/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/3/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/29/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-442 (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/2/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/18/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-443 (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-444 (B) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-445 (B) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-446 (C) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-447 (C) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/20/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-448 (B) Site 7 Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-449Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/8/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-449Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/8/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-450 (WT/Bu) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-451 (B) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/3/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/29/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-452B (B) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/25/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/29/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-452Bu (WT/Bu) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/25/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/29/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-453 (WT) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-453C (C) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-454 (WT) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-454C (C) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-455 (WT) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/16/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-456 (WT) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/26/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/16/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-456C (C) AC & W Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
4/27/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/16/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50M	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-457Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-457Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-458Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-458Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/5/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-459D (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MAFB-459Dd (Dd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-460Bd (D) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-460Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-461Bd (Bd) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MAFB-461Bs (Bs) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MB-4 (NA) Off-Base Groundwater Production Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/2/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-10B (B) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-11B (B) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-12AB (WT/B) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-12B (B) Main Base/SAC Groundwater Extraction Well										
1/10/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/31/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-13BuB (Bu) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MBS EW-1D (D) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	**22F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	**14F**	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2AR (WT/A) Main Base/SAC Groundwater Extraction Well										
2/7/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/12/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/31/2008	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<50	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-2Bu (Bu) Main Base/SAC Groundwater Monitoring Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
6/12/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-3Bu (Bu) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-4Bu (WT/Bu) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
MBS EW-4D (D) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-5D (D) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-6D (D) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/31/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS EW-9B (B) Main Base/SAC Groundwater Extraction Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PTE AF Treatment System Effluent (after filter)										
1/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/24/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/6/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/20/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/3/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/1/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/15/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
6/12/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/26/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/24/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/7/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/4/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/18/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/2/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/16/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/13/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/26/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/11/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/22/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/8/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
1/22/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/4/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/5/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
3/19/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/2/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2009	<50	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/30/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/14/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
5/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/11/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
6/25/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/9/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/23/2009	<50	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/6/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
8/20/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/3/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
9/17/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/15/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/29/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/12/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
11/24/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/10/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
12/22/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MBS PTI Treatment System Influent										
1/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/10/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/30/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
2/4/2009	**12F**	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
4/16/2009	<50	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
7/23/2009	<50	<50M	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
10/15/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
MBS PZ-51 (D) Main Base/SAC Groundwater Piezometer										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/18/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PZ-53 (D) Main Base/SAC Groundwater Piezometer										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/28/2009	*NS*	*NS*	<0.50	<1.0	<1.0	<1.0	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
OFB-04 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
2/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
3/25/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
5/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
6/24/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
9/30/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
11/25/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/30/2008	*NS*	*NS*	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
2/24/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
3/31/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
5/26/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
6/30/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/25/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
9/29/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
11/24/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/29/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-27 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
5/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-31 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-32 (NA) Off-Base Groundwater Production Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-49 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-51 (NA) Off-Base Groundwater Production Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-51/52I (NA) Off-Base Treatment System Influent										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
2/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
3/25/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
5/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
6/24/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

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TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
9/30/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
11/25/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/30/2008	*NS*	*NS*	<0.50UJ	<0.50UJ	<0.50UJ	<0.50UJ	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
2/24/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
3/31/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
5/26/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
6/30/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/25/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
9/29/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
11/24/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
12/29/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-52 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
5/27/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-54 (NA) Off-Base Groundwater Production Well										
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-55 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
OFB-56 (NA) Off-Base Groundwater Production Well										
1/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/29/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
8/26/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

TABLE A-2

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
FUEL CONSTITUENTS - TPH-G, TPH-D, BTEX, AND MTBE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	TPH-G (µg/L)	TPH-D (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TBA (µg/L)
10/28/2008	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
1/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
4/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
7/28/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*
10/27/2009	*NS*	*NS*	<0.50	<0.50	<0.50	<0.50	*NS*	*NS*	*NS*	*NS*

Notes:

B - Blank contamination.
J - Result is an estimate.
M - Matrix interference.
R - Result is invalid.

DIPE - Diisopropyl ether
ETBE - Ethyl tertiary-butyl ether
MTBE - Methyl tertiary-butyl ether
TAME - Tertiary-amyl methyl ether
TBA - Tertiary-butyl alcohol
TPH-D - Total petroleum hydrocarbons, diesel-range
TPH-G - Total petroleum hydrocarbons, gasoline-range

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
7-BV-01 (NA) Landfill Soil Vapor Extraction/Injection Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/9/2008	NS	NS	NS	NS	NS	**131000**	NS	NS	<10	**509**	NS	**71700**	**5980**	NS	NS	NS	NS	**22200**	NS	NS	**9.5F**
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/23/2008	NS	NS	NS	NS	NS	**91200J**	NS	NS	<10	**267**	NS	**49400J**	**3980J**	NS	NS	NS	NS	**23900J**	NS	NS	<50
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/12/2009	NS	NS	NS	NS	NS	**103000**	NS	NS	<10	**49F**	NS	**55800**	**4360**	NS	NS	NS	NS	**28700**	NS	NS	**57**
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/19/2009	NS	NS	NS	NS	NS	**65500M**	NS	NS	**5.0F**	**90**	NS	**34500M**	**3000**	NS	NS	NS	NS	**21300M**	NS	NS	**12F**
7-BV-02 (NA) Landfill Soil Vapor Extraction/Injection Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/10/2008	NS	NS	NS	NS	NS	**131000**	NS	NS	<10	**41F**	NS	**73000**	**21**	NS	NS	NS	NS	**30800**	NS	NS	<50
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/27/2008	NS	NS	NS	NS	NS	**124000J**	NS	NS	**2.7F**	<70	NS	**69400J**	**21**	NS	NS	NS	NS	**29400J**	NS	NS	<50
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/13/2009	NS	NS	NS	NS	NS	**125000**	NS	NS	<10	<70	NS	**70900**	**5.8F**	NS	NS	NS	NS	**30100**	NS	NS	<50
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/21/2009	NS	NS	NS	NS	NS	**123000M**	NS	NS	<10	**23F**	NS	**66300M**	**8.5F**	NS	NS	NS	NS	**28800M**	NS	NS	**12F**
7-BV-04 (NA) Landfill Soil Vapor Extraction/Injection Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/9/2008	NS	NS	NS	NS	NS	**105000**	NS	NS	**1.3F**	**12F**	NS	**56600**	**453**	NS	NS	NS	NS	**28100**	NS	NS	**9.2F**
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/23/2008	NS	NS	NS	NS	NS	**133000J**	NS	NS	**1.1F**	<70	NS	**72500J**	**843J**	NS	NS	NS	NS	**28000J**	NS	NS	<50
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/12/2009	NS	NS	NS	NS	NS	**129000**	NS	NS	<10	**8.7F**	NS	**72600**	**972**	NS	NS	NS	NS	**30800**	NS	NS	**51**
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/19/2009	NS	NS	NS	NS	NS	**110000M**	NS	NS	**5.9F**	<70	NS	**59500M**	**837**	NS	NS	NS	NS	**28000M**	NS	NS	**9.2F**
7-BV-06 (NA) Landfill Soil Vapor Extraction/Injection Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/9/2008	NS	NS	NS	NS	NS	**107000**	NS	NS	**1.9F**	**1080**	NS	**62600**	**6470**	NS	NS	NS	NS	**37200**	NS	NS	**8.8F**
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/23/2008	NS	NS	NS	NS	NS	**105000J**	NS	NS	<10	**892J**	NS	**60100J**	**6390J**	NS	NS	NS	NS	**31900J**	NS	NS	<50
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/12/2009	NS	NS	NS	NS	NS	**85100**	NS	NS	<10	**668**	NS	**49300**	**5280**	NS	NS	NS	NS	**32400**	NS	NS	**51**
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/19/2009	NS	NS	NS	NS	NS	**78700M**	NS	NS	**2.3F**	**544**	NS	**44400M**	**4430**	NS	NS	NS	NS	**31200M**	NS	NS	**6.1F**
7-BV-07 (NA) Landfill Soil Vapor Extraction/Injection Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/9/2008	NS	NS	NS	NS	NS	**75600**	NS	NS	<10	**43F**	NS	**42800**	**38**	NS	NS	NS	NS	**22500**	NS	NS	**7.7F**
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/23/2008	NS	NS	NS	NS	NS	**84700J**	NS	NS	<10	<70	NS	**47300J**	<15	NS	NS	NS	NS	**23000J**	NS	NS	<50
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/13/2009	NS	NS	NS	NS	NS	**82900**	NS	NS	<10	**186**	NS	**48600**	**15F**	NS	NS	NS	NS	**25200**	NS	NS	<50
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/21/2009	NS	NS	NS	NS	NS	**85400M**	NS	NS	<10	**7.1F**	NS	**48400M**	**3.5F**	NS	NS	NS	NS	**25400M**	NS	NS	**4.0F**
7-BV-13 (NA) Landfill Soil Vapor Extraction/Injection Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/9/2008	<60	<5.0	**81**	<3.0	<5.0	NS	<10	**3.5F**	<10	NS	<3.0	NS	**393**	<0.20	**3.8F**	<5.0	<10	NS	<1.0	**5.9F**	**9.6F**
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/27/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.0	NS	**198JM**	NS	NS	NS	NS	NS	NS	NS	NS
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/13/2009	<60	<5.0	**83**	<3.0	<5.0	NS	<10	<50	<10	NS	<3.0	NS	**151**	<0.20	**2.4F**	<5.0	<10	NS	<1.0	**4.9F**	<50

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-EW-1 (B) Site 7 Groundwater Extraction Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**28900**	*NS*	*NS*	**1.2F**	**7.3F**	*NS*	**15500**	<15	*NS*	*NS*	*NS*	*NS*	**14600**	*NS*	*NS*	**17F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**22600J**	*NS*	*NS*	<10	<70	*NS*	**12000J**	<15	*NS*	*NS*	*NS*	*NS*	**13300J**	*NS*	*NS*	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**24500J**	*NS*	*NS*	**2.1F**	<70	*NS*	**13400J**	<15	*NS*	*NS*	*NS*	*NS*	**15000J**	*NS*	*NS*	**19F**
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-EW-2 (B) Site 7 Groundwater Extraction Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**34100**	*NS*	*NS*	<10	<70	*NS*	**17100**	<15	*NS*	*NS*	*NS*	*NS*	**16200**	*NS*	*NS*	**10F**
7/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**33900J**	*NS*	*NS*	**1.8F**	<70	*NS*	**16100J**	<15	*NS*	*NS*	*NS*	*NS*	**16500J**	*NS*	*NS*	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**37400J**	*NS*	*NS*	**1.5F**	**231**	*NS*	**17900J**	<15	*NS*	*NS*	*NS*	*NS*	**18200J**	*NS*	*NS*	**45F**
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PTE Treatment System Effluent																					
1/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**29300**	*NS*	*NS*	<10	<70	*NS*	**14600**	<15	*NS*	*NS*	*NS*	*NS*	**15500**	*NS*	*NS*	**16F**
4/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**34100**	*NS*	*NS*	<10	<70	*NS*	**17200**	<15	*NS*	*NS*	*NS*	*NS*	**16300**	*NS*	*NS*	**15F**
7/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/11/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/12/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**4.5**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/24/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/28/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**4.4**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
8/7/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**37100JM**	*NS*	*NS*	<10	**7.3FM**	*NS*	**18000J**	<15	*NS*	*NS*	*NS*	*NS*	**17300J**	*NS*	*NS*	**16FM**
8/21/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.8**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**29100J**	*NS*	*NS*	<10	<70	*NS*	**14400J**	<15	*NS*	*NS*	*NS*	*NS*	**15300J**	*NS*	*NS*	<50
2/4/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**22300J**	*NS*	*NS*	<10	**8.8F**	*NS*	**11500J**	<15	*NS*	*NS*	*NS*	*NS*	**12200R**	*NS*	*NS*	**16F**
4/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**32100J**	*NS*	*NS*	**1.6F**	<70	*NS*	**16200J**	<15	*NS*	*NS*	*NS*	*NS*	**17100J**	*NS*	*NS*	**48F**
7/23/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**31800J**	*NS*	*NS*	<10	<70	*NS*	**15900J**	<15	*NS*	*NS*	*NS*	*NS*	**16000J**	*NS*	*NS*	**8.1F**
10/15/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**33100J**	*NS*	*NS*	<10	<70	*NS*	**16400J**	<15	*NS*	*NS*	*NS*	*NS*	**16800J**	*NS*	*NS*	**16F**
7-PTI Treatment System Influent																					
1/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**28400**	*NS*	*NS*	<10	<70	*NS*	**14300**	<15	*NS*	*NS*	*NS*	*NS*	**15400**	*NS*	*NS*	**6.1F**
4/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**35300**	*NS*	*NS*	**1.3F**	<70	*NS*	**17800**	<15	*NS*	*NS*	*NS*	*NS*	**16800**	*NS*	*NS*	**9.2F**
7/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/11/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/12/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.6F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/24/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/28/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.7F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
8/7/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**38200JM**	*NS*	*NS*	<10	**8.7FM**	*NS*	**18500J**	<15	*NS*	*NS*	*NS*	*NS*	**17700J**	*NS*	*NS*	**3.8FM**
8/21/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**28300J**	*NS*	*NS*	<10	<70	*NS*	**14000J**	<15	*NS*	*NS*	*NS*	*NS*	**14800J**	*NS*	*NS*	<50
2/4/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**21900J**	*NS*	*NS*	<10	<70	*NS*	**11400J**	<15	*NS*	*NS*	*NS*	*NS*	**12000R**	*NS*	*NS*	**7.0F**
4/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**31700J**	*NS*	*NS*	<10	<70	*NS*	**15900J**	<15	*NS*	*NS*	*NS*	*NS*	**16800J**	*NS*	*NS*	<50
7/23/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**32600J**	*NS*	*NS*	<10	<70	*NS*	**16300J**	<15	*NS*	*NS*	*NS*	*NS*	**16400J**	*NS*	*NS*	<50
10/15/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**34600J**	*NS*	*NS*	<10	<70	*NS*	**17300J**	<15	*NS*	*NS*	*NS*	*NS*	**17700J**	*NS*	*NS*	**40F**

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
7-PZ-23 (B) Site 7 Groundwater Piezometer																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**17600**	*NS*	*NS*	<10	**24F**	*NS*	**10900**	<15	*NS*	*NS*	*NS*	*NS*	**12000**	*NS*	*NS*	**6.9F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**18900J**	*NS*	*NS*	<10	<70	*NS*	**11600J**	<15	*NS*	*NS*	*NS*	*NS*	**15200J**	*NS*	*NS*	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-24 (B) Site 7 Groundwater Piezometer																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**14000**	*NS*	*NS*	<10	**13F**	*NS*	**8690**	<15	*NS*	*NS*	*NS*	*NS*	**11000**	*NS*	*NS*	**5.9F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**15900J**	*NS*	*NS*	<10	<70	*NS*	**9930J**	<15	*NS*	*NS*	*NS*	*NS*	**14300J**	*NS*	*NS*	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-25 (B) Site 7 Groundwater Piezometer																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**27200**	*NS*	*NS*	<10	**9.9F**	*NS*	**16300**	<15	*NS*	*NS*	*NS*	*NS*	**14800**	*NS*	*NS*	**5.7F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**29000J**	*NS*	*NS*	<10	<70	*NS*	**17300J**	<15	*NS*	*NS*	*NS*	*NS*	**18500J**	*NS*	*NS*	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-26 (B) Site 7 Groundwater Piezometer																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**27500**	*NS*	*NS*	<10	**16F**	*NS*	**16600**	<15	*NS*	*NS*	*NS*	*NS*	**14800**	*NS*	*NS*	**7.4F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**30300J**	*NS*	*NS*	<10	<70	*NS*	**18600J**	<15	*NS*	*NS*	*NS*	*NS*	**19100J**	*NS*	*NS*	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-37 (WT) Landfill Groundwater Piezometer																					
1/14/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**1.7BF**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<60	**7.2B**	**41**	<3.0	<5.0	*NS*	**28**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**14F**	<50
7/9/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/26/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.4F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/20/2009	<60	<5.0	**46**	<3.0	<5.0	*NS*	**28**	<50	**1.0F**	*NS*	<3.0	*NS*	**30M**	**0.062F**	<40	**3.7F**	<10	*NS*	**0.049F**	**13F**	**8.2F**
7/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-37P (WTZPERCH) Landfill Groundwater Piezometer																					
1/8/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.9F**	*NS*	**2980JM**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	<60	<5.0	**66**	<3.0	<5.0	*NS*	<10	**1.2F**	<10	*NS*	**1.8BF**	*NS*	**2650**	<0.20	**13F**	<5.0	<10	*NS*	<1.0	**5.0F**	**4.7F**
7/7/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	**2890J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	<60	<5.0	**92**	<3.0	<5.0	*NS*	<10	<50	<10	*NS*	<3.0	*NS*	**2890JM**	<0.20	<40	<5.0	<10	*NS*	<1.0	**5.5F**	<50
1/28/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.3F**	*NS*	**4680JM**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2009	<60	<5.0	**75**	<3.0	<5.0	*NS*	**1.4F**	<50	**1.0F**	*NS*	<3.0	*NS*	**3150M**	**0.097BF**	**8.1F**	**3.2F**	**0.28F**	*NS*	**0.063F**	**5.2F**	<50

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
7/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	**3490M**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	<60	<5.0	**79**	<3.0	<5.0	*NS*	<10	<50	**1.8F**	*NS*	<3.0	*NS*	**2200**	<0.20	**9.3F**	<5.0	<10	*NS*	**0.68F**	**6.3F**	**2.5F**
7-PZ-38P (WTZPERCH) Landfill Groundwater Piezometer																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<60	**2.5BF**	**77**	<3.0	<5.0	*NS*	<10	<50	<10	*NS*	**2.1BF**	*NS*	**2.8F**	<0.20	**1.8F**	<5.0	<10	*NS*	**0.58F**	**3.1F**	**7.8F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	<60	<5.0	**97**	<3.0	<5.0	*NS*	<10	<50	<10	*NS*	<3.0	*NS*	**260**	<0.20	**5.3F**	<5.0	<10	*NS*	**0.014F**	**2.2F**	**36F**
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PTE Treatment System Effluent																					
1/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**10200**	*NS*	*NS*	<10	<70	*NS*	**5300**	<15	*NS*	*NS*	*NS*	*NS*	**10100**	*NS*	*NS*	**7.9F**
4/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**9490**	*NS*	*NS*	<10	<70	*NS*	**5320**	<15	*NS*	*NS*	*NS*	*NS*	**9110**	*NS*	*NS*	**14F**
7/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**11500M**	*NS*	*NS*	<10	<70UJ	*NS*	**6120M**	<15	*NS*	*NS*	*NS*	*NS*	**10900M**	*NS*	*NS*	**8.6F**
10/30/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**10600J**	*NS*	*NS*	<10	<70	*NS*	**5050J**	<15	*NS*	*NS*	*NS*	*NS*	**9650J**	*NS*	*NS*	<50
2/4/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**9270JM**	*NS*	*NS*	<10	**21F**	*NS*	**4650JM**	<15	*NS*	*NS*	*NS*	*NS*	**8460JM**	*NS*	*NS*	**4.8F**
4/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**10100J**	*NS*	*NS*	<10	<70	*NS*	**5310J**	<15	*NS*	*NS*	*NS*	*NS*	**10500J**	*NS*	*NS*	<50
7/23/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**10000J**	*NS*	*NS*	<10	<70	*NS*	**5230J**	<15	*NS*	*NS*	*NS*	*NS*	**10000J**	*NS*	*NS*	<50
10/15/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**10100J**	*NS*	*NS*	**1.5F**	<70	*NS*	**5230J**	<15	*NS*	*NS*	*NS*	*NS*	**10200J**	*NS*	*NS*	**13F**
ACW PTI Treatment System Influent																					
1/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**10200**	*NS*	*NS*	<10	<70	*NS*	**5250**	<15	*NS*	*NS*	*NS*	*NS*	**10000**	*NS*	*NS*	**8.2F**
4/17/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**9660**	*NS*	*NS*	<10	<70	*NS*	**5410**	<15	*NS*	*NS*	*NS*	*NS*	**9210**	*NS*	*NS*	**18F**
7/10/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**11000M**	*NS*	*NS*	<10	<70UJ	*NS*	**5970M**	<15	*NS*	*NS*	*NS*	*NS*	**10300M**	*NS*	*NS*	**14F**
10/30/2008	*NS*	*NS*	*NS*	*NS*	*NS*	**10600J**	*NS*	*NS*	<10	<70	*NS*	**4940J**	<15	*NS*	*NS*	*NS*	*NS*	**9620J**	*NS*	*NS*	<50
2/4/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**22000JM**	*NS*	*NS*	<10	**7.7F**	*NS*	**9160JM**	<15	*NS*	*NS*	*NS*	*NS*	**12400JM**	*NS*	*NS*	**2.7F**
4/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**10100J**	*NS*	*NS*	<10	<70	*NS*	**5320J**	<15	*NS*	*NS*	*NS*	*NS*	**10500J**	*NS*	*NS*	**5.0F**
7/23/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**9670J**	*NS*	*NS*	<10	<70	*NS*	**5060J**	<15	*NS*	*NS*	*NS*	*NS*	**9660J**	*NS*	*NS*	<50
10/15/2009	*NS*	*NS*	*NS*	*NS*	*NS*	**10200J**	*NS*	*NS*	**1.2F**	<70	*NS*	**5260J**	<15	*NS*	*NS*	*NS*	*NS*	**10300J**	*NS*	*NS*	**13F**
MAFB-005 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	<60	<5.0	**32**	<3.0	<5.0	*NS*	**14**	<50	**1.0F**	*NS*	<3.0	*NS*	**29**	<0.20	**11F**	<5.0	<10	*NS*	<1.0	**5.0F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-013 (WT/B) Main Base/SAC NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/29/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-044 (WTZPERCH) Landfill Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<60	**2.7BF**	**123**	<3.0	<5.0	*NS*	<10	**1.1F**	<10	*NS*	<3.0	*NS*	**39**	<0.20	**5.1F**	<5.0	<10	*NS*	**0.42F**	**6.0F**	**4.5F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	**20JM**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/13/2009	<60	<5.0	**102**	<3.0	<5.0	NS	<10	<50	<10	NS	<3.0	NS	**14FM**	<0.20	<40	<5.0	**0.78F**	NS	**0.13F**	**4.8F**	**2.3F**
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAFB-092 (WT) Main Base/SAC Groundwater Monitoring Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/30/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAFB-111 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
4/22/2008	<60	<5.0	**11F**	<3.0	<5.0	NS	**1.7F**	<50	<10	NS	<3.0	NS	<15	**0.18F**	**0.55F**	<5.0	**0.27F**	NS	<1.0	**10F**	<50
7/1/2008	NS	NS	NS	NS	NS	NS	**1.8F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
10/1/2008	NS	NS	NS	NS	NS	NS	**3.7F**	NS	NS	NS	NS	NS	NS	NS	**0.41F**	NS	NS	NS	NS	NS	NS
1/1/2009	NS	NS	NS	NS	NS	NS	**2.1F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
4/23/2009	<60	<5.0	**12F**	<3.0	<5.0	NS	**2.5F**	<50	**0.99F**	NS	<3.0	NS	**7.5F**	<0.20	<40	<5.0	<10	NS	**0.033F**	**11F**	**55**
7/1/2009	NS	NS	NS	NS	NS	NS	**3.5F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
10/1/2009	NS	NS	NS	NS	NS	NS	**1.7F**	NS	NS	NS	NS	NS	NS	NS	**0.39F**	NS	NS	NS	NS	NS	NS
MAFB-112 (WT/C) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	**51J**	NS	NS	NS	NS	NS	NS	NS	**51**	NS	NS	NS	NS	NS	NS
4/8/2008	<60	<5.0	**17F**	<3.0	<5.0	NS	**43**	**0.99F**	<10	NS	<3.0	NS	**4.7F**	<0.20	**31F**	<5.0	<10	NS	**0.55F**	**7.6F**	**3.1F**
7/1/2008	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	**94**	NS	NS	NS	NS	NS	NS
10/1/2008	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	**60**	NS	NS	NS	NS	NS	NS
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/19/2009	<60	<5.0	**26**	<3.0	<5.0	NS	**3.8F**	**8.6F**	<10	NS	<3.0	NS	**797**	<0.20	**61**	<5.0	<10	NS	<1.0	**6.4F**	<50
7/1/2009	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	**113**	NS	NS	NS	NS	NS	NS
10/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAFB-129 (WT/C) Landfill NE Plume Groundwater Monitoring Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
4/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**0.52F**	NS	NS	NS	NS	NS	NS
7/1/2008	NS	NS	NS	NS	NS	NS	**1.9F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
10/1/2008	NS	NS	NS	NS	NS	NS	**3.1F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
1/1/2009	NS	NS	NS	NS	NS	NS	**3.8F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
4/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
7/1/2009	NS	NS	NS	NS	NS	NS	**2.7F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
10/1/2009	NS	NS	NS	NS	NS	NS	**2.4F**	NS	NS	NS	NS	NS	NS	NS	<40	NS	NS	NS	NS	NS	NS
MAFB-131 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/1/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/18/2009	<60	<5.0	**96**	<3.0	**0.51F**	NS	**41**	**6.0F**	**12**	NS	<3.0	NS	**379**	<0.20	**33F**	<5.0	**0.63F**	NS	<1.0	**23F**	**7.7F**
7/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAFB-132 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well																					
1/9/2008	<60	<5.0	**81J**	<3.0	<5.0	NS	**15**	**1.9F**	<10	NS	**1.8F**	NS	**37**	**0.17BF**	**108J**	**7.5**	**0.35F**	NS	<1.0	**1.2F**	**3.9F**
4/1/2008	NS	NS	NS	NS	NS	NS	**2.1F**	NS	NS	NS	NS	NS	NS	NS	**60J**	NS	NS	NS	NS	NS	NS

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.5F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**61**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**57J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**62**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**67**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**70J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8FJ**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**67J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**27**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**67J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**278J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**80J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.4F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**66J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.9F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**69J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**31**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**68**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**5.4FJ**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**74J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**52J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**69J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<60	**6.4**	**80**	<3.0	<5.0	*NS*	**58**	**1.1F**	<10	*NS*	**1.9F**	*NS*	**11F**	**0.21**	**55**	<5.0	<10	*NS*	<1.0	**4.6F**	**5.8F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**1.9F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**55**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.1F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**54**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.3F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**60J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.7F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**59J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.7F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**57J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**57J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
8/7/2008	<60M	<5.0	**72**	<3.0	<5.0	*NS*	**9.7F**	**1.2F**	<10	*NS*	<3.0	*NS*	**26**	<0.20	**186**	<5.0	<10	*NS*	<1.0	**4.3F**	**4.0F**
10/22/2008	<60	<5.0	**68**	<3.0	<5.0	*NS*	**12**	<50	<10	*NS*	<3.0	*NS*	**8.0F**	<0.20	**198**	**3.6F**	<10	*NS*	<1.0	**4.4F**	<50
1/28/2009	<60	<5.0	**67J**	<3.0	<5.0	*NS*	**12**	**2.2F**	<10	*NS*	<3.0	*NS*	**44J**	<0.20M	**337J**	<5.0	<10	*NS*	<1.0	**3.5F**	**11F**
5/14/2009	<60	<5.0	**75**	<3.0	<5.0	*NS*	**23**	**17F**	<10	*NS*	<3.0	*NS*	**405**	<0.20	**401**	<5.0	<10	*NS*	<1.0	**1.8F**	<50
7/15/2009	**2.6F**	<5.0	**55**	<3.0	<5.0	*NS*	**73**	**2.4F**	<10	*NS*	<3.0	*NS*	**42**	<0.20	**309**	<5.0	<10	*NS*	<1.0	**2.5F**	**3.2F**
10/22/2009	<60	<5.0	**71**	<3.0	<5.0	*NS*	**9.9F**	**2.7F**	**1.6F**	*NS*	<3.0	*NS*	**51**	<0.20	**194**	**3.3F**	<10	*NS*	**0.77F**	**3.6F**	**12F**
MAFB-133 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/14/2008	<60	<5.0	**20**	<3.0	<5.0	*NS*	**2.2FJ**	<50	<10	*NS*	**2.6BF**	*NS*	<15	**0.11BF**	**1.2F**	<5.0	**0.22F**	*NS*	<1.0	**7.5F**	<50
4/8/2008	<60	<5.0	**20**	<3.0	<5.0	*NS*	**1.7F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**2.6F**	<5.0	**0.25F**	*NS*	<1.0	**7.3F**	**2.5F**
8/7/2008	<60M	<5.0	**19F**	<3.0	<5.0	*NS*	**3.4F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**2.6F**	<5.0	<10	*NS*	<1.0	**8.1F**	**3.8F**
10/22/2008	<60	<5.0	**23**	<3.0	<5.0	*NS*	**2.8F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**8.1F**	<50
1/26/2009	<60	<5.0	**20**	<3.0	<5.0	*NS*	**2.7F**	<50	**1.1F**	*NS*	**1.9F**	*NS*	<15	**0.18FM**	**2.5F**	<5.0	<10	*NS*	<1.0	**7.8F**	**6.3F**
5/18/2009	<60	<5.0	**22**	<3.0	<5.0	*NS*	**2.1F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**4.6F**	<5.0	<10	*NS*	<1.0	**6.9F**	<50
7/16/2009	**2.7F**	<5.0	**20**	<3.0	<5.0	*NS*	**3.3F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**2.5F**	<5.0	<10	*NS*	**0.012F**	**7.4F**	**3.7F**
10/27/2009	<60	**2.5F**	**19F**	<3.0	<5.0	*NS*	**2.3F**	<50	<10	*NS*	<3.0	*NS*	<15R	**0.11BF**	**2.5F**	**4.1BF**	<10	*NS*	**1.1**	**7.8F**	**16F**
MAFB-136 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well																					
1/9/2008	<60	<5.0	**41J**	<3.0	<5.0	*NS*	**23**	<50	<10	*NS*	**3**	*NS*	**4.2F**	**0.095BF**	**52J**	**8.3**	<10	*NS*	<1.0	<50	<50
4/21/2008	<60	<5.0	**32**	<3.0	<5.0	*NS*	**32**	<50	<10	*NS*	<3.0	*NS*	**1.5F**	**0.12F**	**38F**	<5.0	<10	*NS*	<1.0	**2.6F**	**4.3F**
7/8/2008	**3.2FM**	<5.0	**48J**	<3.0	<5.0	*NS*	**21**	<50	**2.8F**	*NS*	<3.0	*NS*	**4.3F**	**0.066F**	**62J**	**7.6B**	<10	*NS*	<1.0	<50	**3.8F**
12/22/2008	<60	<5.0	**72**	<3.0	<5.0	*NS*	**12**	**0.77F**	<10	*NS*	<3.0	*NS*	**11F**	<0.20	**116**	<5.0	<10	*NS*	<1.0	**1.4F**	<50
1/29/2009	**3.0F**	<5.0	**79**	<3.0	<5.0	*NS*	**201**	**9.5F**	**3.9F**	*NS*	<3.0	*NS*	**315J**	<0.20M	**293**	<5.0	<10	*NS*	<1.0	**2.3F**	**9.2F**
5/18/2009	<60	<5.0	**92**	<3.0	<5.0	*NS*	**1.5F**	**13F**	<10	*NS*	<3.0	*NS*	**366**	<0.20	**622**	<5.0	<10	*NS*	<1.0	<50	<50
7/16/2009	**2.3F**	<5.0	**71**	<3.0	<5.0	*NS*	**5.6F**	**1.1F**	<10	*NS*	<3.0	*NS*	**24**	<0.20	**131**	<5.0	**0.27F**	*NS*	<1.0	**2.2F**	**2.4F**
10/22/2009	<60	<5.0	**83**	<3.0	<5.0	*NS*	**79**	**8.6F**	**5.1F**	*NS*	<3.0	*NS*	**242**	<0.20	**439**	<5.0	<10	*NS*	**0.37F**	**1.7F**	**8.8F**
MAFB-140 (WT/C) Landfill NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**18F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-140 (WT/C) Main Base/SAC NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**18F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2008	<60	<5.0	**30**	<3.0	<5.0	*NS*	**5.3F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**4.6F**	<5.0	<10	*NS*	**0.54F**	**14F**	<50
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	<60	<5.0	**28**	<3.0	<5.0	*NS*	**5.7F**	<50	<10	*NS*	<3.0	*NS*	<15JM	<0.20	<40	<5.0	<10	*NS*	<1.0	**14F**	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	<60	<5.0	**29**	<3.0	<5.0	*NS*	**5.5F**	<50	<10	*NS*	<3.0	*NS*	<15M	<0.20	<40	<5.0	**1.2F**	*NS*	**0.068F**	**13F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-202 (WT) Main Base/SAC Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/25/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/29/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	<60	<5.0	**35**	<3.0	<5.0	*NS*	**5.5F**	<50	<10	*NS*	<3.0	*NS*	<15	**0.061F**	**0.57F**	<5.0	<10	*NS*	<1.0	**14F**	**3.4F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/28/2008	<60	<5.0	**44**	<3.0	<5.0	*NS*	**6.7F**	<50	<10	*NS*	<3.0	*NS*	<15JM	<0.20	<40	<5.0	<10	*NS*	<1.0	**12F**	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<60	<5.0	**18F**	<3.0	<5.0	*NS*	**2.9F**	<50	**3.5F**	*NS*	<3.0	*NS*	<15M	**0.062F**	<40	<5.0	**0.62F**	*NS*	**0.030F**	**13F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	<60	<5.0	**41**	<3.0	<5.0	*NS*	**3.5F**	<50	**1.5F**	*NS*	<3.0	*NS*	<15	**0.083BF**	**1.3F**	<5.0	<10	*NS*	**0.36F**	**13F**	<50
MAFB-288 (B) Landfill NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.2F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.0F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.9F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	<60	<5.0	**14F**	<3.0	<5.0	*NS*	**2.9F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**9.1F**	**56**
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.0F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-398 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<60	**7.1**	**31**	<3.0	<5.0	*NS*	<10	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**0.97F**	<5.0	**0.25F**	*NS*	<1.0	**5.4F**	**3.9F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/22/2008	<60	<5.0	**56**	<3.0	<5.0	*NS*	**7.4F**	**2.5F**	**1.5F**	*NS*	<3.0	*NS*	**229**	<0.20	**8.9F**	<5.0	<10	*NS*	<1.0	**13F**	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
5/14/2009	<60	<5.0	**29**	<3.0	<5.0	*NS*	**2.8F**	<50	**1.0F**	*NS*	<3.0	*NS*	**36**	<0.20	**4.0F**	<5.0	<10	*NS*	<1.0	**6.7F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	<60	<5.0	**18F**	<3.0	<5.0	*NS*	<10	<50	**2.9F**	*NS*	<3.0	*NS*	**2.3F**	<0.20	**0.57F**	<5.0	<10	*NS*	**0.97F**	**6.4F**	**13F**
MAFB-398C (C) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<60	<5.0	**22**	<3.0R	<5.0	*NS*	**3.3F**	<50	<10	*NS*	**1.6BF**	*NS*	<15	<0.20	**1.8F**	<5.0	<10	*NS*	<1.0	**6.7F**	**3.0F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2008	<60	<5.0	**26**	<3.0	<5.0	*NS*	**3.4F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**7.7F**	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	<60	<5.0	**31**	<3.0	<5.0	*NS*	**3.4F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**7.2F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2009	<60	**3.9F**	**28**	<3.0	<5.0	*NS*	**2.8F**	<50	<10	*NS*	<3.0	*NS*	**1.6F**	**0.11BF**	**2.3F**	**5.6B**	<10	*NS*	**0.58F**	**7.4F**	**5.9F**
MAFB-399 (C) Landfill LF03/NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	<60	<5.0	**27**	<3.0R	<5.0	*NS*	**2.1F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**1.1F**	<5.0	<10	*NS*	<1.0	**9.1F**	**2.3F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2008	<60	<5.0	**29**	<3.0	<5.0	*NS*	**3.0F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**10F**	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<60	<5.0	**31**	<3.0	<5.0	*NS*	**2.6F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**11F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	<60	<5.0	**31**	<3.0	<5.0	*NS*	**3.0F**	<50	**2.2F**	*NS*	<3.0	*NS*	<15	<0.20	**0.68F**	<5.0	<10	*NS*	**0.24F**	**10F**	**6.9F**
MAFB-400 (C) Landfill LF04/NE Plume Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**1.5F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	<60	**7.3**	**90**	<3.0	<5.0	*NS*	<10	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**1.2F**	**3.2BF**	<10	*NS*	<1.0	**5.3F**	**3.9F**
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**1.7F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/3/2008	<60	<5.0	**96**	<3.0	<5.0	*NS*	**2.2F**	<50	**2.2F**	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**5.1F**	<50
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<10	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	<60	<5.0	**76**	<3.0	<5.0	*NS*	**1.7F**	<50	<10	*NS*	**2.0BF**	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	**0.024F**	**5.4F**	**61**
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**1.8F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<40	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	<60	<5.0	**93**	<3.0	<5.0	*NS*	**11**	<50	**1.1F**	*NS*	<3.0	*NS*	**6.3F**	<0.20	**0.68F**	<5.0	<10	*NS*	**0.20F**	**5.6F**	**12F**
MAFB-413 (WT/B) Landfill Groundwater Monitoring Well																					
1/8/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/15/2008	<60	**3.5BF**	**58**	<3.0	<5.0	*NS*	**4.0F**	<50	<10	*NS*	<3.0	*NS*	<15	**0.082F**	**0.77F**	<5.0	<10	*NS*	<1.0	**10F**	**3.6F**
7/7/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2008	<60	<5.0	**68J**	<3.0	<5.0	*NS*	**5.5F**	<50	<10	*NS*	<3.0	*NS*	<15M	<0.20	<40	<5.0	<10	*NS*	<1.0	**10F**	<50
1/28/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<60	<5.0	**71**	<3.0	<5.0	*NS*	**6.1F**	<50	**2.4F**	*NS*	<3.0	*NS*	<15M	<0.20	<40	<5.0	**0.36F**	*NS*	**0.055F**	**11F**	<50
7/13/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	<60	<5.0	**72**	<3.0	<5.0	*NS*	**5.3F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	**0.15F**	**10F**	**5.2F**
MAFB-424 (WT/C) Landfill Groundwater Monitoring Well																					
1/8/2008	<60	<5.0	**18F**	<3.0	<5.0	*NS*	**3.1F**	<50	**1.2F**	*NS*	<3.0	*NS*	<15JM	<0.20	<40	<5.0	**0.32F**	*NS*	**0.73F**	**12F**	**5.7F**
4/15/2008	<60	<5.0	**17F**	<3.0	<5.0	*NS*	**2.7F**	<50	<10	*NS*	**2.3BF**	*NS*	<15	**0.078F**	<40	<5.0	**0.30F**	*NS*	<1.0	**14F**	**3.2F**
7/7/2008	**4.0FM**	**3.5BF**	**18F**	<3.0	<5.0	*NS*	**3.1F**	<50	**3.5F**	*NS*	**2.5BF**	*NS*	<15	**0.072F**	<40	**11B**	**0.72F**	*NS*	<1.0	**13F**	**5.0F**
10/29/2008	<60	<5.0	**17F**	<3.0	<5.0	*NS*	**3.2F**	<50	<10	*NS*	<3.0	*NS*	<15M	<0.20	<40	<5.0	<10	*NS*	<1.0	**12F**	<50
1/28/2009	<60	<5.0	**18F**	<3.0	<5.0	*NS*	**5.8F**	<50	<10	*NS*	<3.0	*NS*	<15JM	<0.20M	<40	<5.0	<10	*NS*	<1.0	**14F**	**4.1F**
4/14/2009	<60	<5.0	**42**	<3.0	<5.0	*NS*	**6.4F**	<50	**1.4F**	*NS*	<3.0	*NS*	<15M	**0.085F**	<40	<5.0	**0.70F**	*NS*	**0.051F**	**13F**	<50
7/13/2009	**2.1F**	<5.0	**18F**	<3.0	<5.0	*NS*	**2.0F**	<50	<10	*NS*	<3.0	*NS*	<15M	<0.20	<40	<5.0	<10	*NS*	<1.0	**11F**	**7.0F**
10/22/2009	<60	<5.0	**19F**	<3.0	<5.0	*NS*	**3.2F**	<50	**1.1F**	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	**0.13F**	**13F**	**8.1F**
MAFB-439 (WT) Main Base/SAC Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-3

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
LANDFIL METAL/GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
10/2/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.0F**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/30/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/26/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/16/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/29/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	<3.0	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-440 (WT) Landfill Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<60	<5.0	**7.3F**	<3.0	<5.0	*NS*	**5.9F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**10F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-440P (WTZPERCH) Landfill Groundwater Monitoring Well																					
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	<60	<5.0	**110**	<3.0	<5.0	*NS*	**2.4F**	<50	<10	*NS*	<3.0	*NS*	**5.9F**	<0.20	**1.4F**	<5.0	<10	*NS*	<1.0	**4.9F**	<50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MBS PTE AF Treatment System Effluent (after filter)																					
1/10/2008	<60	<5.0	**61**	<3.0	<5.0	*NS*	**4.6F**	<50	<10	*NS*	<3.0	*NS*	<15	**0.096BF**	<40	**6.7**	<10	*NS*	<1.0	**9.8F**	**5.0F**
4/17/2008	<60	**8.7**	**62**	<3.0	<5.0	*NS*	**4.3F**	<50	<10	*NS*	**4.2B**	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**12F**	**14F**
7/10/2008	**4.5F**	<5.0	**54J**	<3.0	<5.0	*NS*	**3.9F**	<50	<10	*NS*	<3.0	*NS*	**3.2F**	**0.098FM**	**1.2F**	<5.0	**0.49F**	*NS*	**0.61F**	**12F**	**12F**
10/30/2008	<60	<5.0	**62**	<3.0	<5.0	*NS*	**5.3F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**12F**	<50
2/4/2009	<60	<5.0	**59**	<3.0	<5.0	*NS*	**4.1F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	<1.0	**10F**	<50
4/16/2009	<60	<5.0	**58**	<3.0	<5.0	*NS*	**4.9F**	<50	**1.4F**	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	**1.0F**	*NS*	**0.055F**	**10F**	**50**
7/23/2009	<60	<5.0	**62**	<3.0	<5.0	*NS*	**4.4F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	**0.29F**	*NS*	<1.0	**11F**	<50
10/15/2009	<60	<5.0	**62**	<3.0	<5.0	*NS*	**4.6F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	<10	*NS*	**0.22F**	**11F**	**12F**
MBS PTI Treatment System Influent																					
1/10/2008	<60	<5.0	**62**	<3.0	<5.0	*NS*	**4.8F**	<50	<10	*NS*	**1.9BF**	*NS*	<15	**0.12BF**	<40	**4.6F**	<10	*NS*	<1.0	**10F**	**11F**
4/17/2008	<60	**3.7F**	**58**	<3.0	<5.0	*NS*	**4.1F**	<50	<10	*NS*	**4.1B**	*NS*	<15	**0.063F**	<40	<5.0	<10	*NS*	<1.0	**11F**	**13F**
7/10/2008	**5.1F**	<5.0	**53J**	<3.0	<5.0	*NS*	**4.1F**	**1.1F**	<10	*NS*	<3.0	*NS*	**3.0F**	<0.20M	**1.6F**	<5.0	**0.53F**	*NS*	<1.0	**12F**	**9.6F**
10/30/2008	<60	<5.0	**57**	<3.0	<5.0	*NS*	**5.3F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**1.1F**	<5.0	<10	*NS*	<1.0	**12F**	<50
2/4/2009	<60	<5.0	**59**	<3.0	<5.0	*NS*	**4.5F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	**2.5F**	<5.0	<10	*NS*	<1.0	**11F**	**2.9F**
4/16/2009	<60	<5.0	**59**	<3.0	<5.0	*NS*	**5.0F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	**3.2F**	**0.84F**	*NS*	**0.059F**	**10F**	**9.1F**
7/23/2009	<60	<5.0	**59**	<3.0	<5.0	*NS*	**4.3F**	<50	<10	*NS*	<3.0	*NS*	<15	<0.20	<40	<5.0	**0.31F**	*NS*	<1.0	**11F**	<50
10/15/2009	<60	<5.0	**62**	<3.0	<5.0	*NS*	**4.7F**	<50	<10	*NS*	<3.0	*NS*	**5.2F**	<0.20	**0.52F**	<5.0	<10	*NS*	**0.14F**	**11F**	**9.4F**

Notes:

(D) Dissolved analyte concentration

B - Blank contamination.
J = Result is an estimate.
M - Matrix interference.
R - Result is invalid.

TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
7-BV-01 (NA) Landfill Soil Vapor Extraction/Injection Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**339**	**339**	<	**7.1**	*NS*	**556**	**1.8**	**288**	*NS*	**813**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	**336**	*NS*	*NS*	**10**	*NS*	**445**	**1.9**	**178**	*NS*	**649**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	**381**	**381**	<1.0	**11**	*NS*	**189**	**1**	**183**	*NS*	**660**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	**184**	**184**	<1.0	**9.5**	*NS*	**299**	**5.5**	**134**	*NS*	**480**	*NS*
7-BV-02 (NA) Landfill Soil Vapor Extraction/Injection Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/10/2008	**395**	**395**	<	**10**	*NS*	**522**	**2.4**	**208**	*NS*	**780**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2008	**400**	**400**	<	**10**	*NS*	**562**	**2.5**	**207**	*NS*	**741**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/13/2009	**455**	**455**	<1.0	**10**	*NS*	**534**	**2.4**	**210**	*NS*	**807**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	**381**	*NS*	*NS*	**10**	*NS*	**125J**	**2.6**	**227**	*NS*	**794**	*NS*
7-BV-04 (NA) Landfill Soil Vapor Extraction/Injection Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**220**	**220**	<	**9.5**	*NS*	**478**	**5.2**	**253**	*NS*	**687**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	**318**	*NS*	*NS*	**13**	*NS*	**696**	**3.1**	**355**	*NS*	**932**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	**488**	**488**	<1.0	**34**	*NS*	**570**	**2**	**207**	*NS*	**813**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	**345**	**345**	<1.0	**33**	*NS*	**493**	**3.7**	**143**	*NS*	**681**	*NS*
7-BV-06 (NA) Landfill Soil Vapor Extraction/Injection Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**334**	**334**	<	**30**	*NS*	**550**	**2.2**	**191**	*NS*	**730**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	**280**	*NS*	*NS*	**18**	*NS*	**526**	**3.6**	**291**	*NS*	**791**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/12/2009	**305**	**305**	<1.0	**22**	*NS*	**365**	**5.5**	**165**	*NS*	**608**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/19/2009	**242**	**242**	<1.0	**24**	*NS*	**380**	**7.9**	**145**	*NS*	**552**	*NS*
7-BV-07 (NA) Landfill Soil Vapor Extraction/Injection Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/9/2008	**219**	**219**	<	**7.6**	*NS*	**335**	**6.5**	**147**	*NS*	**522**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/23/2008	**243**	*NS*	*NS*	**8**	*NS*	**364**	**7**	**181**	*NS*	**581**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
5/13/2009	**240**	**240**	<1.0	**7.5**	*NS*	**361**	**7.4**	**164**	*NS*	**570**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/21/2009	**220**	*NS*	*NS*	**7.1**	*NS*	**141J**	**7.7**	**172**	*NS*	**556**	*NS*
7-EW-1 (B) Site 7 Groundwater Extraction Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**128**	**128**	<	**8.8**	*NS*	**117**	**2.2**	**17**	*NS*	**231**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	**122**	*NS*	*NS*	**8.7**	*NS*	**105**	**2.7**	**12**	*NS*	**178**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**129**	**129**	<1.0	**8.8**	*NS*	**113**	**2.8**	**10**	*NS*	**210**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-EW-2 (B) Site 7 Groundwater Extraction Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/17/2008	**139**	**139**	<	**8.4**	*NS*	**142**	**1.8**	**27**	*NS*	**249**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/30/2008	**166**	*NS*	*NS*	**8.7**	*NS*	**137**	**1.8**	**27**	*NS*	**237**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2009	**183**	**183**	<1.0	**8.7**	*NS*	**130**	**1.9**	**27**	*NS*	**264**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PTE Treatment System Effluent											
1/10/2008	**115**	**115**	<	**8.6**	*NS*	**127**	**2.1**	**16**	*NS*	**228**	*NS*
4/17/2008	**144**	**144**	<	**8.5**	*NS*	**148**	**1.9**	**23**	*NS*	**241**	*NS*
8/7/2008	**139**	**139**	<	**8.5**	*NS*	**153**	**1.7**	**27**	*NS*	**248**	*NS*
10/30/2008	**153**	*NS*	*NS*	**8.7**	*NS*	**121**	**2.2**	**20**	*NS*	**201**	*NS*
2/4/2009	**155**	**155**	<1.0	**8.6**	*NS*	**108**	**2.7**	**9.7**	*NS*	**195**	*NS*
4/16/2009	**155**	**155**	<1.0	**8.8**	*NS*	**133**	**2.3**	**19**	*NS*	**236**	*NS*
7/23/2009	**131**	**131**	<1.0	**8.8**	*NS*	**116**	**2.2**	**21**	*NS*	**258**	*NS*
10/15/2009	**134**	*NS*	*NS*	**8.9**	*NS*	**116**	**2.1**	**21**	*NS*	**242**	*NS*
7-PTI Treatment System Influent											
1/10/2008	**112**	**112**	<	**8.6**	*NS*	**114**	**2.1**	**16**	*NS*	**224**	*NS*
4/17/2008	**134**	**134**	<	**8.4**	*NS*	**130**	**1.9**	**22**	*NS*	**242**	*NS*
8/7/2008	**138**	**138**	<	**8.5**	*NS*	**154**	**1.7**	**27**	*NS*	**213**	*NS*
10/30/2008	**139**	*NS*	*NS*	**8.6**	*NS*	**121**	**2.2**	**20**	*NS*	**204**	*NS*
2/4/2009	**148**	**148**	<1.0	**8.6**	*NS*	**140**	**2.7**	**9.7**	*NS*	**208**	*NS*
4/16/2009	**175**	**175**	<1.0	**8.7**	*NS*	**130**	**2.3**	**19**	*NS*	**230**	*NS*
7/23/2009	**141**	**141**	<1.0	**8.8**	*NS*	**124**	**2.2**	**21**	*NS*	**249**	*NS*
10/15/2009	**135**	*NS*	*NS*	**8.9**	*NS*	**136**	**2.1**	**21**	*NS*	**241**	*NS*
7-PZ-23 (B) Site 7 Groundwater Piezometer											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**84**	**84**	<	**6.9**	*NS*	**64**	**2.4**	**11**	*NS*	**167**	*NS*

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TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	**101**	**101**	<1.0	**7.3**	*NS*	**80**	**2.5**	**10**	*NS*	**178**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-24 (B) Site 7 Groundwater Piezometer											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**71**	**71**	<	**6.3**	*NS*	**73**	**2.5**	**7.1**	*NS*	**149**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	**80**	**80**	<1.0	**7**	*NS*	**60**	**2.6**	**9**	*NS*	**168**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-25 (B) Site 7 Groundwater Piezometer											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**127**	**127**	<	**8.6**	*NS*	**105**	**2**	**20**	*NS*	**218**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	**149**	**149**	<1.0	**9.1**	*NS*	**121**	**2.4**	**19**	*NS*	**227**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7-PZ-26 (B) Site 7 Groundwater Piezometer											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/16/2008	**127**	**127**	<	**8.4**	*NS*	**113**	**1.9**	**21**	*NS*	**215**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/13/2009	**154**	**154**	<1.0	**9.1**	*NS*	**125**	**2.2**	**20**	*NS*	**235**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
ACW PTE Treatment System Effluent											
1/10/2008	**54**	*NS*	*NS*	**3.4**	*NS*	**42J**	**2.6**	**2.2**	*NS*	**120**	<3.0
4/17/2008	**50**	**50**	<	**3.3**	*NS*	**28J**	**2.6**	**2.1**	*NS*	**113**	<3.0
7/10/2008	**49**	**49**	<	**3.5**	*NS*	**39**	**2.6**	**1.8F**	*NS*	**108**	<3.0
10/30/2008	**58**	*NS*	*NS*	**3.5**	*NS*	**40J**	**2.6**	**2.1**	*NS*	**122**	<3.0
2/4/2009	**74**	**74**	<1.0	**3.4**	*NS*	**60**	**2.6**	**2.1**	*NS*	**122**	<3.0
4/16/2009	**60**	**60**	<1.0	**3.6**	*NS*	**32**	**2.7**	**2.2**	*NS*	**132**	<3.0
7/23/2009	**39**	**39**	<1.0	**3.4**	*NS*	**32**	**2.6**	**2.1**	*NS*	**129**	<3.0
10/15/2009	**48**	*NS*	*NS*	**3.4**	*NS*	**72J**	**2.6**	**2.1**	*NS*	**141**	<3.0

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TABLE A-4

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GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
ACW PTI Treatment System Influent											
1/10/2008	**52**	*NS*	*NS*	**3.4**	*NS*	**42J**	**2.6**	**2.1**	*NS*	**117**	*NS*
4/17/2008	**50**	**50**	<	**3.3**	*NS*	**24J**	**2.6**	**2.1**	*NS*	**113**	*NS*
7/10/2008	**48**	**48**	<	**3.5**	*NS*	**39**	**2.6**	**1.8F**	*NS*	**123**	*NS*
10/30/2008	**59**	*NS*	*NS*	**3.5**	*NS*	**40J**	**2.5**	**2.2**	*NS*	**117**	*NS*
2/4/2009	**74**	**74**	<1.0	**3.4**	*NS*	**40**	**2.6**	**2.1**	*NS*	**115**	*NS*
4/16/2009	**58**	**58**	<1.0	**3.6**	*NS*	**24**	**2.7**	**2.2**	*NS*	**132**	*NS*
7/23/2009	**41**	**41**	<1.0	**3.4**	*NS*	**28**	**2.6**	**2.1**	*NS*	**125**	*NS*
10/15/2009	**56**	*NS*	*NS*	**3.5**	*NS*	**40J**	**2.6**	**2.1**	*NS*	**116**	*NS*
MAFB-005 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**71**	**71**	<1.0	**15**	**0.42**	*NS*	*NS*	**5.4**	<0.20	**179**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-111 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/22/2008	**53**	**53**	<	**4**	**0.12**	*NS*	*NS*	**6.7**	<0.20	**114**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**63**	**63**	<1.0	**3.8**	**0.19**	*NS*	*NS*	**6.8**	<0.20	**126**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-112 (WT/C) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	**75**	**75**	<	**7**	**0.14**	*NS*	*NS*	**9.7**	**0.090F**	**141**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**76**	**76**	<1.0	**7.5**	<0.10	*NS*	*NS*	**8.8**	<0.20UJ	**155**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-131 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-4

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GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
5/18/2009	**47**	**47**	<1.0	**6.1**	**0.16**	*NS*	*NS*	**16**	<0.20	**183**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-132 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well											
1/9/2008	**241**	**241**	<	**61**	**0.14**	*NS*	*NS*	**3.4**	<0.20	**366**	*NS*
4/21/2008	**252**	**252**	<	**61**	**0.13**	*NS*	*NS*	**4**	<0.20	**367**	*NS*
8/7/2008	**238**	**238**	<	**45**	**0.17**	*NS*	*NS*	**4.3**	<0.20	**360**	*NS*
10/22/2008	**284**	**284**	<	**38**	**0.11**	*NS*	*NS*	**4.7**	<0.20	**337**	*NS*
1/28/2009	**276**	**276**	<1.0	**47**	**0.17**	*NS*	*NS*	**4.5**	<0.20UJ	**344**	*NS*
5/14/2009	**235**	**235**	<1.0	**46**	**0.28**	*NS*	*NS*	**4.6**	<0.20	**356**	*NS*
7/15/2009	**175**	**175**	<1.0	**49**	**0.11**	*NS*	*NS*	**4**	<0.20	**307**	*NS*
10/22/2009	**239**	*NS*	*NS*	**39**	**0.18**	*NS*	*NS*	**5.1**	<0.20R	**349**	*NS*
MAFB-133 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/14/2008	**77**	**77**	<	**4**	**0.16**	*NS*	*NS*	**9.4**	<0.20	**159**	*NS*
4/8/2008	**89**	**89**	<	**3.9**	**0.16**	*NS*	*NS*	**8.7**	**0.090F**	**139**	*NS*
8/7/2008	**81**	**81**	<	**3.8**	**0.16**	*NS*	*NS*	**8.4**	<0.20	**165**	*NS*
10/22/2008	**111**	**111**	<	**4**	**0.12**	*NS*	*NS*	**8.5**	<0.20	**154**	*NS*
1/26/2009	**110**	**110**	<1.0	**4**	**0.22**	*NS*	*NS*	**8.6**	<0.20	**168**	*NS*
5/18/2009	**94**	**94**	<1.0	**4**	**0.22**	*NS*	*NS*	**8.1**	<0.20	**175**	*NS*
7/16/2009	**94**	**94**	<1.0	**4**	**0.22**	*NS*	*NS*	**9.2**	<0.20	**167**	*NS*
10/27/2009	**86**	*NS*	*NS*	**4.4**	**0.2**	*NS*	*NS*	**10**	<0.20	**161**	*NS*
MAFB-136 (WT/B) Landfill LF04/NE Plume Groundwater Monitoring Well											
1/9/2008	**108**	**108**	<	**34**	**0.14**	*NS*	*NS*	**6.8**	<0.20	**223**	*NS*
4/21/2008	**83**	**83**	<	**33**	**0.16**	*NS*	*NS*	**5.4**	<0.20	**204**	*NS*
7/8/2008	**126**	**126**	<	**34**	**0.15**	*NS*	*NS*	**7.5**	<0.20	**245**	*NS*
12/22/2008	**180**	**180**	<	**43**	**0.18**	*NS*	*NS*	**12**	<0.20	**306**	*NS*
1/29/2009	**208**	**208**	<1.0	**41**	**0.18**	*NS*	*NS*	**12**	<0.20	**292**	*NS*
5/18/2009	**137**	**137**	<1.0	**45**	**0.28**	*NS*	*NS*	**13**	<0.20	**307**	*NS*
7/16/2009	**164**	**164**	<1.0	**41**	**0.25**	*NS*	*NS*	**12**	**0.16F**	**302**	*NS*
10/22/2009	**145**	*NS*	*NS*	**44**	**0.15**	*NS*	*NS*	**13**	<0.20R	**315**	*NS*
MAFB-288 (B) Landfill NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**49**	**49**	<1.0	**3.8**	**0.25**	*NS*	*NS*	**4.5**	<0.20	**116**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-398 (WT/B) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**143**	**143**	<	**5.3**	**0.066F**	*NS*	*NS*	**7.8**	<0.20	**216**	*NS*

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TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/22/2008	**127**	**127**	<	**6.7**	**0.097F**	*NS*	*NS*	**9.1**	<0.20	**221**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**95**	**95**	<1.0	**7.7**	**0.17**	*NS*	*NS*	**9.4**	<0.20	**204**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
12/1/2009	**65**	<1.0	<1.0	**7.2**	**0.056F**	*NS*	*NS*	**15**	<0.20UJ	**159**	*NS*
MAFB-398C (C) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	**48**	**48**	<	**4.4**	**0.21**	*NS*	*NS*	**2.6**	**0.050F**	**116**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2008	**61**	**61**	<	**5**	**0.15**	*NS*	*NS*	**2.6**	<0.20	**111**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/14/2009	**53**	**53**	<1.0	**7.4**	**0.24**	*NS*	*NS*	**2.4**	<0.20	**137**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/27/2009	**65**	*NS*	*NS*	**8.4**	**0.16**	*NS*	*NS*	**2.7**	<0.20	**154**	*NS*
MAFB-399 (C) Landfill LF03/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/8/2008	**49**	**49**	<	**4.7**	**0.17**	*NS*	*NS*	**3.7**	<0.20	**112**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2008	**53**	**53**	<	**4.9**	**0.13**	*NS*	*NS*	**3.9**	<0.20	**124**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
5/19/2009	**50**	**50**	<1.0	**5**	<0.10	*NS*	*NS*	**4.1**	<0.20UJ	**148**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	**52**	*NS*	*NS*	**5.3**	**0.15**	*NS*	*NS*	**4.4**	<0.20R	**137**	*NS*
MAFB-400 (C) Landfill LF04/NE Plume Groundwater Monitoring Well											
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/21/2008	**112**	**112**	<	**40**	**0.092F**	*NS*	*NS*	**7.3**	<0.20	**247**	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/3/2008	**152000**	**152000**	<	**43**	**0.083F**	*NS*	*NS*	**10**	<0.20	**204**	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/23/2009	**128**	**128**	<1.0	**29**	**0.13**	*NS*	*NS*	**7**	<0.20	**250**	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/22/2009	**129**	*NS*	*NS*	**37**	**0.071F**	*NS*	*NS*	**11**	<0.20	**261**	*NS*
MAFB-424 (WT/C) Landfill Groundwater Monitoring Well											
1/8/2008	**50**	**50**	<	**3**	**0.21**	*NS*	*NS*	**6.4**	<0.20	**118**	*NS*
4/15/2008	**43**	**43**	<	**2.8**	**0.18**	*NS*	*NS*	**6.4**	<0.20	**109**	*NS*
7/7/2008	**38**	**38**	<	**3.1**	**0.17**	*NS*	*NS*	**6.4**	<0.20	**196**	*NS*
10/29/2008	**48**	**48**	<	**3.1**	**0.19**	*NS*	*NS*	**6.3**	<0.20	**114**	*NS*
1/28/2009	**51**	**51**	<1.0	**2.9**	**0.19**	*NS*	*NS*	**6.2**	<0.20	**128**	*NS*
4/14/2009	**48**	**48**	<1.0	**3.3**	**0.043F**	*NS*	*NS*	**6.6**	<0.20	**114**	*NS*
7/13/2009	**45**	**45**	<1.0	**3**	**0.4**	*NS*	*NS*	**6.1**	<0.20	**133**	*NS*
10/22/2009	**43**	*NS*	*NS*	**3.8**	**0.18**	*NS*	*NS*	**6.7M**	<0.20	**141**	*NS*

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TABLE A-4

SUMMARY OF ANALYTICAL RESULTS FOR THE PAST TWO YEARS
GENERAL MINERALS ANALYSES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Alkalinity (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TDS (mg/L)	Perchlorate (µg/L)
MBS PTE AF Treatment System Effluent (after filter)											
1/10/2008	**93**	**93**	<	**6.6**	*NS*	**88**	**3.3**	**8.8**	*NS*	**172**	**1.4F**
4/17/2008	**89**	**89**	<	**6.1**	*NS*	**77**	**3.1**	**8.4**	*NS*	**160**	**1.1F**
7/10/2008	**78**	**78**	<	**5.9**	*NS*	**67**	**2.9**	**6.2**	*NS*	**145**	<3.0
10/30/2008	**99**	**99**	<	**6.8**	*NS*	**80**	**3.1**	**9.4**	*NS*	**152**	<3.0
2/4/2009	**143**	**143**	<1.0	**6.8**	*NS*	**88**	**3.2**	**9.6**	*NS*	**175**	<3.0
4/16/2009	**119**	**119**	<1.0	**7.2**	*NS*	**80**	**3.2**	**10**	*NS*	**188**	<3.0
7/23/2009	**100**	**100**	<1.0	**6.9**	*NS*	**89**	**3.2**	**10**	*NS*	**200**	**1.0F**
10/15/2009	**98**	*NS*	*NS*	**7**	*NS*	**88**	**3.2**	**10**	*NS*	**178**	<3.0
MBS PTI Treatment System Influent											
1/10/2008	**85**	**85**	<	**6.6**	*NS*	**98**	**3.3**	**8.9**	*NS*	**175**	*NS*
4/17/2008	**97**	**97**	<	**6.1**	*NS*	**68**	**3.1**	**8.3**	*NS*	**163**	*NS*
7/10/2008	**77**	**77**	<	**5.8**	*NS*	**64**	**2.9**	**6.7**	*NS*	**145**	*NS*
10/30/2008	**101**	**101**	<	**6.8**	*NS*	**84**	**3.2**	**9**	*NS*	**153**	*NS*
2/4/2009	**136**	**136**	<1.0	**6.8**	*NS*	**108**	**3.2**	**9.5**	*NS*	**154**	*NS*
4/16/2009	**113**	**113**	<1.0	**7.2**	*NS*	**72**	**3.3**	**10**	*NS*	**197**	*NS*
7/23/2009	**97**	**97**	<1.0	**6.9**	*NS*	**80**	**3.2**	**10**	*NS*	**193**	*NS*
10/15/2009	**101**	*NS*	*NS*	**7**	*NS*	**85**	**3.2**	**10**	*NS*	**163**	*NS*

Notes:
B - Blank contamination.
J = Result is an estimate.
M - Matrix interference.
R - Result is invalid.

TDS - Total dissolved solids

TABLE A-5

SUMMARY OF HISTORIC ANALYTICAL RESULTS FOR PAST TWO YEARS
HEXAVALENT CHROMIUM, PAHS, PCBS, AND PESTICIDES FOR THE SITE 7 LANDFILL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	2-Methylnaphthalene (ug/L)	4,4'-DDD (ug/L)	4,4'-DDE (ug/L)	4,4'-DDT (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Aldrin (ug/L)	Alpha endosulfan (ug/L)
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<10	<0.10	<0.10	<0.10	<10	<10	<0.10	<0.10
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-5

SUMMARY OF HISTORIC ANALYTICAL RESULTS FOR PAST TWO YEARS
HEXAVALENT CHROMIUM, PAHS, PCBS, AND PESTICIDES FOR THE SITE 7 LANDFILL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	alpha-BHC (ug/L)	alpha-Chlordane (ug/L)	Anthracene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(g,h,i)perylene (ug/L)
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well							
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well							
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.10	<0.10	<10	<10	<10	<10M	<10
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-5

SUMMARY OF HISTORIC ANALYTICAL RESULTS FOR PAST TWO YEARS
HEXAVALENT CHROMIUM, PAHS, PCBS, AND PESTICIDES FOR THE SITE 7 LANDFILL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Benzo(k)fluoranthene (ug/L)	Beta endosulfan (ug/L)	beta-BHC (ug/L)	Chromium, hexavalent (ug/L)	Chrysene (ug/L)	delta-BHC (ug/L)	Dibenz(a,h)anthracene (ug/L)	Dieldrin (ug/L)
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<10	<0.10	<0.10	<0.020	<10	<0.10	<10	<0.10
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	<0.020	*NS*	*NS*	*NS*	*NS*

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TABLE A-5

SUMMARY OF HISTORIC ANALYTICAL RESULTS FOR PAST TWO YEARS
HEXAVALENT CHROMIUM, PAHS, PCBS, AND PESTICIDES FOR THE SITE 7 LANDFILL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Endosulfan sulfate (ug/L)	Endrin (ug/L)	Endrin aldehyde (ug/L)	Endrin ketone (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	gamma-BHC (Lindane) (ug/L)	gamma-Chlordane (ug/L)	Heptachlor (ug/L)
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well									
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well									
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.10	<0.10	<0.10	*NS*	<10	<10	<0.10	<0.10	<0.10
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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SUMMARY OF HISTORIC ANALYTICAL RESULTS FOR PAST TWO YEARS
HEXAVALENT CHROMIUM, PAHS, PCBS, AND PESTICIDES FOR THE SITE 7 LANDFILL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	Heptachlor epoxide (ug/L)	Indeno(1,2,3-c,d)pyrene (ug/L)	Methoxychlor (ug/L)	Naphthalene (ug/L)	PCB-1016 (ug/L)	PCB-1221 (ug/L)	PCB-1232 (ug/L)	PCB-1242 (ug/L)
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well								
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.10	<10	<0.50	<10	<0.50	<0.50	<0.50	<0.50
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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TABLE A-5

SUMMARY OF HISTORIC ANALYTICAL RESULTS FOR PAST TWO YEARS
HEXAVALENT CHROMIUM, PAHS, PCBS, AND PESTICIDES FOR THE SITE 7 LANDFILL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number/Hsg Unit/Location/Type Date Sampled	PCB-1248 (ug/L)	PCB-1254 (ug/L)	PCB-1260 (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)	Toxaphene (ug/L)
MAFB-149 (WT/B) Landfill WP07 Groundwater Monitoring Well						
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MAFB-284 (B) Landfill WP07 Groundwater Monitoring Well						
1/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
7/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2008	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4/14/2009	<0.50	<0.50	<0.50	<10	<10	<1.0
7/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
10/1/2009	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Notes:

B - Blank contamination.

J = Result is an estimate.

M - Matrix interference.

R - Result is invalid.

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APPENDIX B

QUARTERLY GROUNDWATER ELEVATIONS

APPENDIX B

FIGURE LOCATION INDEX
ACCORDING TO WELL NAME
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Well Name	Figure Number	Well Name	Figure Number	Well Name	Figure Number
08N06E09Q004M	Figure36	MAFB-006	Figure-7	MAFB-074	Figure-31
08N06E20R001M	Figure37	MAFB-012	Figure 9-1	MAFB-075	Figure-2
08N07E08R001M	Figure38	MAFB-013	Figure-7	MAFB-076	Figure-2
08N07E20J001M	Figure39	MAFB-018	Figure 9-2	MAFB-076	Figure-15
7-PZ-37P	Figure-1	MAFB-022	Figure-2	MAFB-077	Figure-31
7-PZ-38P	Figure-1	MAFB-022	Figure-15	MAFB-078	Figure-35
ACW EW-1	Figure 34	MAFB-024	Figure-15	MAFB-079	Figure-31
ACW EW-1	Figure-33	MAFB-026	Figure-3	MAFB-080	Figure-35
ACW EW-2	Figure-33	MAFB-026	Figure-15	MAFB-081	Figure-31
ACW EW-3	Figure-33	MAFB-028	Figure-5	MAFB-082	Figure-31
ACW EW-4	Figure-33	MAFB-033	Figure-13	MAFB-083	Figure-31
ACW EW-5	Figure-33	MAFB-034	Figure-6	MAFB-084	Figure-31
ACW EW-6	Figure-33	MAFB-035	Figure-6	MAFB-087	Figure-11
ACW IW-1	Figure-32	MAFB-037	Figure-14	MAFB-088	Figure-6
ACW IW-2	Figure-32	MAFB-039	Figure-1	MAFB-089	Figure-6
ACW IW-3	Figure-32	MAFB-041	Figure-24	MAFB-090	Figure-6
ACW IW-4	Figure-32	MAFB-042	Figure-23	MAFB-090	Figure-13
ACW IW-5	Figure-32	MAFB-043	Figure-23	MAFB-091	Figure-8
ACW IW-6	Figure-32	MAFB-044	Figure-1	MAFB-093	Figure-7
ACW IW-7	Figure-32	MAFB-046	Figure-1	MAFB-093	Figure-16
ACW IW-8	Figure-32	MAFB-047	Figure-14	MAFB-094	Figure-16
ACW-AT-1	Figure 34	MAFB-047	Figure-10	MAFB-095	Figure-8
ACW-AT-1	Figure-33	MAFB-048	Figure-10	MAFB-096	Figure-7
ACW-AT-2	Figure 34	MAFB-050	Figure-31	MAFB-097	Figure-7
ACW-AT-2	Figure-33	MAFB-051	Figure-31	MAFB-099	Figure-6
ACW-EW2	Figure 34	MAFB-052	Figure-31	MAFB-101	Figure-18
ACW-EW3	Figure 34	MAFB-053	Figure-30	MAFB-102	Figure-26
ACW-EW4	Figure 34	MAFB-054	Figure-31	MAFB-104	Figure-28
ACW-EW5	Figure 34	MAFB-056	Figure-29	MAFB-105	Figure-8
ACW-EW6	Figure 34	MAFB-057	Figure-29	MAFB-106	Figure-8
ACW-IW1	Figure 34	MAFB-058	Figure-29	MAFB-107	Figure 9-1
ACW-IW2	Figure 34	MAFB-060	Figure-27	MAFB-107	Figure-15
ACW-IW3	Figure 34	MAFB-061	Figure-27	MAFB-108	Figure-7
ACW-IW4	Figure 34	MAFB-062	Figure-27	MAFB-110	Figure-3
ACW-IW5	Figure 34	MAFB-063	Figure-26	MAFB-111	Figure-3
ACW-IW6	Figure 34	MAFB-064	Figure-25	MAFB-111	Figure-15
ACW-IW7	Figure 34	MAFB-065	Figure-25	MAFB-112	Figure-3
ACW-IW8	Figure 34	MAFB-066	Figure-25	MAFB-112	Figure-15
ACW-PZ-01	Figure-30	MAFB-067	Figure-35	MAFB-113	Figure-15
ACW-PZ-02	Figure-30	MAFB-068	Figure-35	MAFB-115	Figure 9-1
ACW-PZ-03	Figure-30	MAFB-069	Figure-35	MAFB-115	Figure-17
ACW-PZ-04	Figure-30	MAFB-070	Figure-35	MAFB-116	Figure 9-1
ACW-PZ-05	Figure-30	MAFB-071	Figure-35	MAFB-116	Figure-17
MAFB-005	Figure-2	MAFB-072	Figure-35	MAFB-117	Figure-24
MAFB-118	Figure-24	MAFB-158	Figure-14	MAFB-199	Figure-10
MAFB-119	Figure-23	MAFB-158	Figure-11	MAFB-200	Figure-11
MAFB-120	Figure-23	MAFB-159	Figure-10	MAFB-201	Figure-13
MAFB-121	Figure-10	MAFB-160	Figure-8	MAFB-201	Figure-11
MAFB-122	Figure-10	MAFB-161	Figure-8	MAFB-202	Figure-11
MAFB-123	Figure-10	MAFB-162	Figure-8	MAFB-203	Figure-11
MAFB-124	Figure-10	MAFB-163	Figure-8	MAFB-204	Figure-11
MAFB-125	Figure 9-1	MAFB-164	Figure-22	MAFB-205	Figure-6
MAFB-125	Figure-17	MAFB-165	Figure-22	MAFB-206	Figure-6

APPENDIX B

FIGURE LOCATION INDEX
ACCORDING TO WELL NAME
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

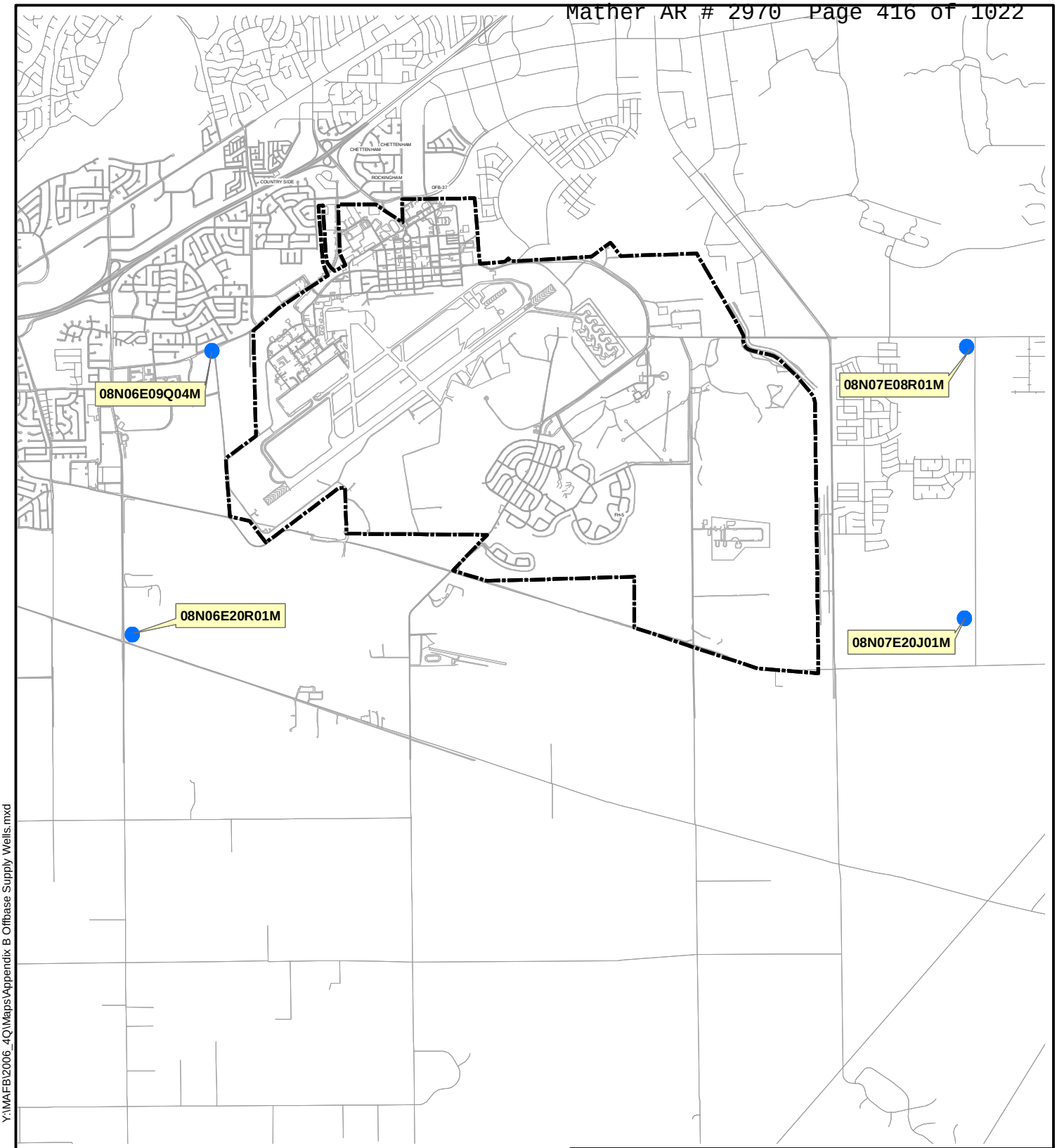
Well Name	Figure Number	Well Name	Figure Number	Well Name	Figure Number
MAFB-126	Figure 9-1	MAFB-166	Figure-22	MAFB-207	Figure-6
MAFB-126	Figure-17	MAFB-167	Figure-22	MAFB-208	Figure-11
MAFB-128	Figure 9-2	MAFB-168	Figure-14	MAFB-209	Figure-11
MAFB-129	Figure 9-2	MAFB-169	Figure-18	MAFB-210	Figure-6
MAFB-130	Figure-3	MAFB-170	Figure-21	MAFB-211	Figure-6
MAFB-130	Figure-15	MAFB-171	Figure-21	MAFB-212	Figure-6
MAFB-131	Figure-3	MAFB-172	Figure-14	MAFB-213	Figure-8
MAFB-131	Figure-15	MAFB-174	Figure-14	MAFB-214	Figure-8
MAFB-132	Figure-2	MAFB-175	Figure-20	MAFB-216	Figure-21
MAFB-133	Figure-3	MAFB-176	Figure-14	MAFB-217	Figure-19
MAFB-133	Figure-15	MAFB-177	Figure-20	MAFB-217	Figure-21
MAFB-136	Figure-2	MAFB-178	Figure-26	MAFB-218	Figure-21
MAFB-137	Figure-2	MAFB-179	Figure-25	MAFB-219	Figure-21
MAFB-139	Figure-4	MAFB-180	Figure-28	MAFB-220	Figure-18
MAFB-140	Figure-4	MAFB-181	Figure-28	MAFB-220	Figure-18
MAFB-141	Figure-4	MAFB-182	Figure-12	MAFB-221	Figure-13
MAFB-142	Figure-5	MAFB-182	Figure-23	MAFB-223	Figure-18
MAFB-143	Figure-5	MAFB-183	Figure-12	MAFB-224	Figure-8
MAFB-143	Figure-4	MAFB-183	Figure-23	MAFB-224	Figure-18
MAFB-144	Figure-5	MAFB-184	Figure-1	MAFB-225	Figure-21
MAFB-145	Figure-12	MAFB-185	Figure-1	MAFB-226	Figure-18
MAFB-145	Figure-24	MAFB-186	Figure-8	MAFB-227	Figure-18
MAFB-147	Figure-23	MAFB-187	Figure-8	MAFB-228	Figure-18
MAFB-148	Figure-23	MAFB-188	Figure-8	MAFB-230	Figure-16
MAFB-149	Figure-23	MAFB-189	Figure-1	MAFB-231	Figure-8
MAFB-150	Figure-7	MAFB-190	Figure-31	MAFB-231	Figure-16
MAFB-150	Figure-16	MAFB-191	Figure-35	MAFB-233	Figure-16
MAFB-151	Figure 9-1	MAFB-192	Figure-31	MAFB-234	Figure-16
MAFB-151	Figure-17	MAFB-193	Figure-30	MAFB-235	Figure-26
MAFB-152	Figure 9-1	MAFB-194	Figure-30	MAFB-236	Figure-5
MAFB-152	Figure-17	MAFB-195	Figure-30	MAFB-237	Figure-5
MAFB-154	Figure-16	MAFB-196	Figure-30	MAFB-238	Figure-5
MAFB-155	Figure-16	MAFB-197	Figure-31	MAFB-239	Figure-27
MAFB-156	Figure-10	MAFB-198	Figure-30	MAFB-240	Figure-27
MAFB-157	Figure-10	MAFB-199	Figure-14	MAFB-241	Figure-26
MAFB-242	Figure-26	MAFB-281	Figure-16		
MAFB-243	Figure-26	MAFB-283	Figure-23		
MAFB-245	Figure-13	MAFB-284	Figure-23		
MAFB-245	Figure-11	MAFB-285	Figure-24		
MAFB-246	Figure-6	MAFB-286	Figure-24		
MAFB-246	Figure-13	MAFB-287	Figure-23		
MAFB-247	Figure-17	MAFB-289	Figure-3		
MAFB-248	Figure-21	MAFB-289	Figure-15		
MAFB-249	Figure-17	MAFB-291	Figure-28		
MAFB-250	Figure-26	MAFB-292	Figure-28		
MAFB-251	Figure-10	MAFB-293	Figure-28		
MAFB-252	Figure-8	MAFB-294	Figure-25		
MAFB-253	Figure-8	MAFB-295	Figure-29		
MAFB-254	Figure-12	MAFB-296	Figure-28		
MAFB-254	Figure-23	MAFB-300	Figure-24		
MAFB-255	Figure-12	MAFB-301	Figure-30		
MAFB-255	Figure-23	MAFB-302	Figure-30		
MAFB-257	Figure-1	MAFB-303	Figure-30		

APPENDIX B

FIGURE LOCATION INDEX
ACCORDING TO WELL NAME
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Well Name	Figure Number	Well Name	Figure Number	Well Name	Figure Number
MAFB-258	Figure 9-1	MAFB-304	Figure-30		
MAFB-258	Figure-14	MAFB-305	Figure-30		
MAFB-259	Figure-14	MAFB-306	Figure-30		
MAFB-260	Figure-14	MAFB-307	Figure 9-2		
MAFB-261	Figure-14	MAFB-308	Figure-6		
MAFB-262	Figure-29	MAFB-308	Figure-18		
MAFB-263	Figure-14	MAFB-309	Figure-19		
MAFB-264	Figure-13	MAFB-310	Figure-19		
MAFB-265	Figure-18	MAFB-311	Figure-19		
MAFB-266	Figure-22	MAFB-312	Figure-20		
MAFB-267	Figure-20	MAFB-313	Figure-20		
MAFB-269	Figure-20	MAFB-314	Figure-26		
MAFB-270	Figure-20	MAFB-322	Figure-19		
MAFB-272	Figure-19	MAFB-323	Figure-20		
MAFB-273	Figure-19	MAFB-324	Figure-19		
MAFB-274	Figure-16	MAFB-325	Figure-19		
MAFB-275	Figure 9-1	MAFB-330	Figure-20		
MAFB-275	Figure-13	MAFB-331	Figure-20		
MAFB-276	Figure-17	MAFB-364D	Figure-27		
MAFB-277	Figure 9-1	MAFB-365D	Figure-27		
MAFB-277	Figure-17				
MAFB-278	Figure 9-1				
MAFB-278	Figure-17				
MAFB-279	Figure-7				
MAFB-279	Figure-16				
MAFB-280	Figure-16				



Friday, September 14, 2007 2:25:32 PM
Y:\MAFB\2006_4Q\Maps\Appendix B Offbase Supply Wells.mxd

N

LEGEND:

SUPPLY WELL

08N06E20R01M

0 1,250 2,500 5,000 Feet

MATHER PROPERTY BOUNDARY

NOTES:
Elevation data for these wells is plotted on the following pages.
Source: Department of Water Resources (http://wwwdwr.water.ca.gov)

MWH

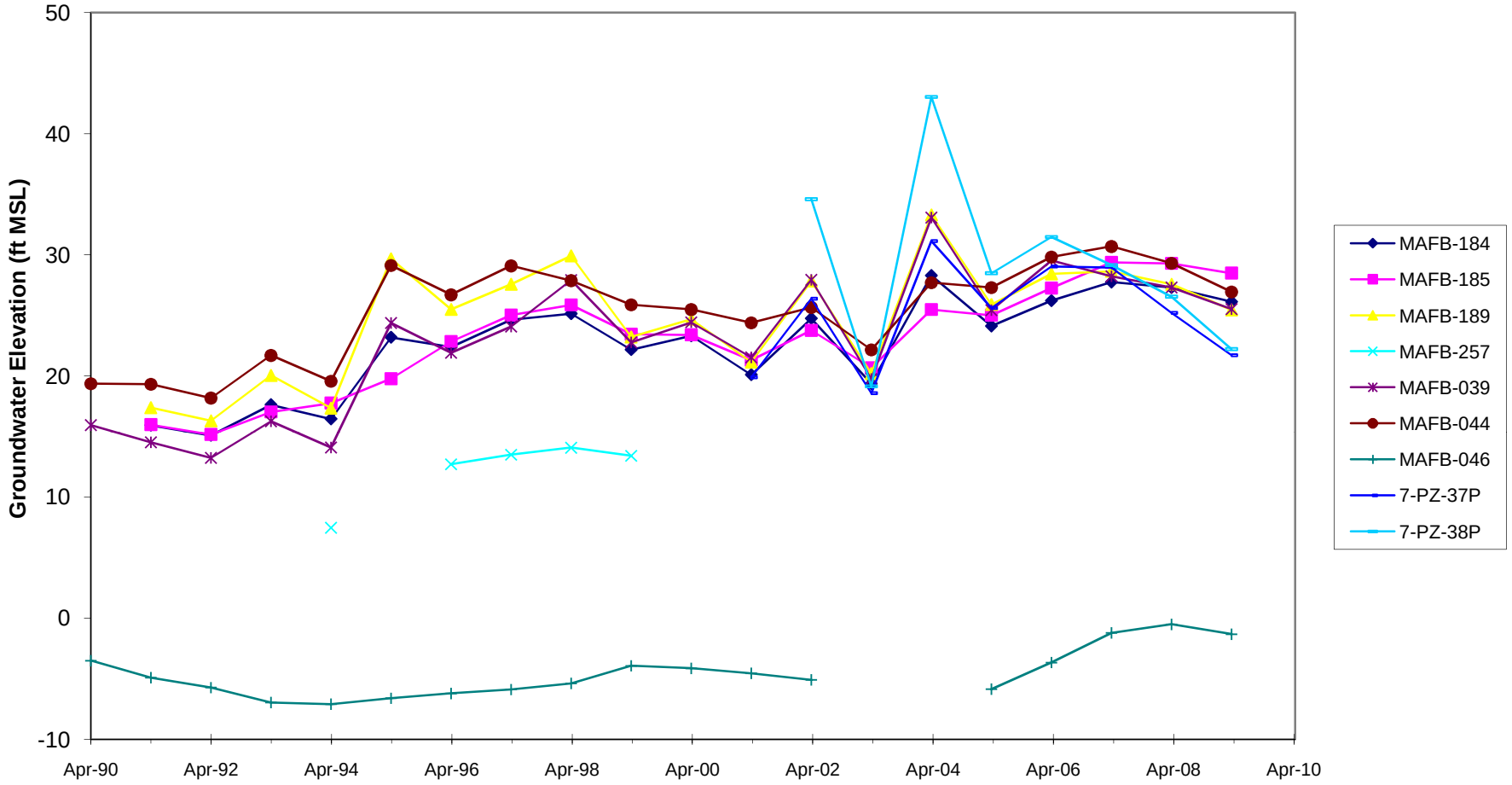
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

LOCATION MAP OF SELECTED SUPPLY WELLS NEAR MATHER AFB FOR WHICH GROUNDWATER ELEVATION DATA IS AVAILABLE

APPENDIX B

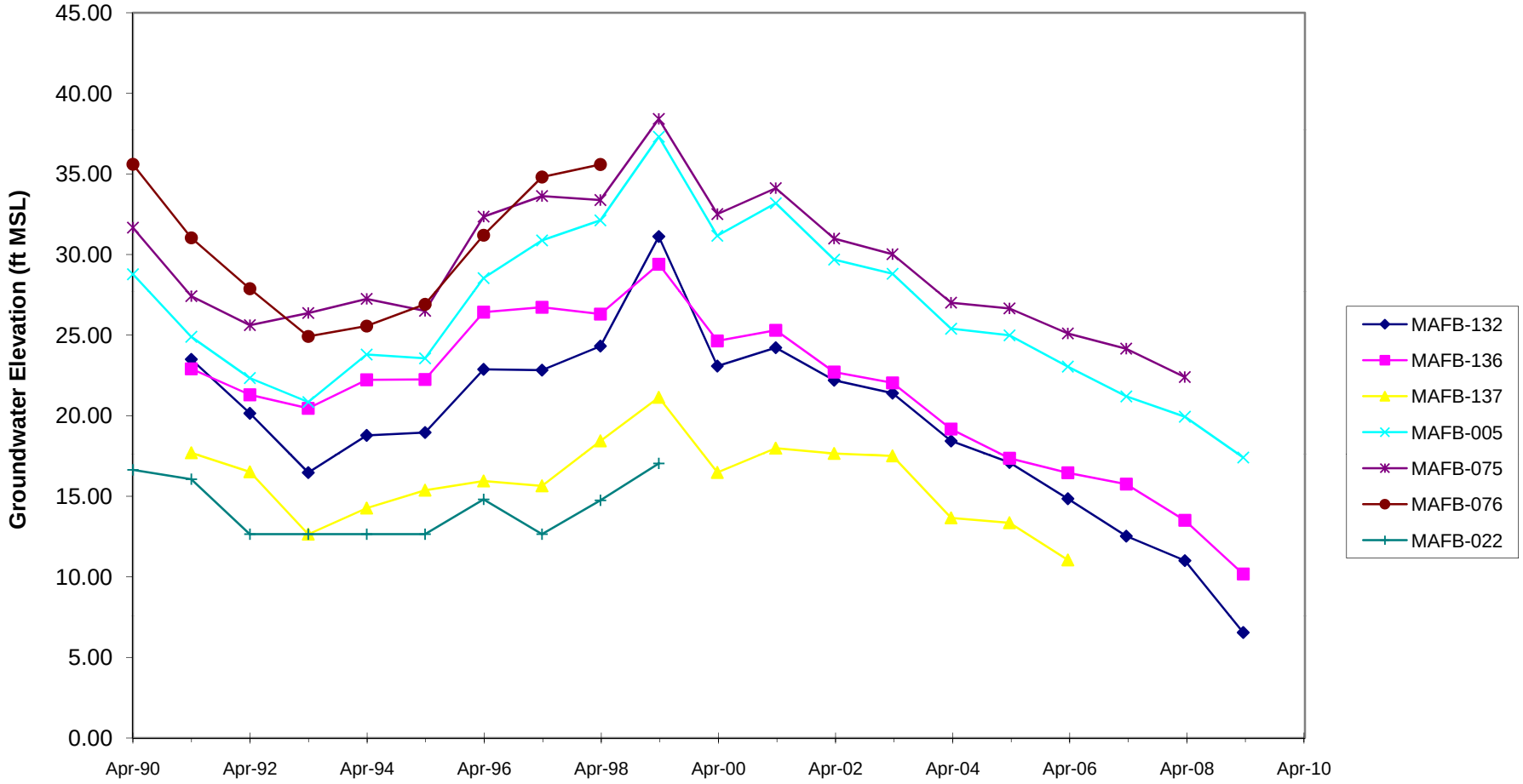
SITE 7 SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009
WTZPERCH WELLS

FIGURE 1



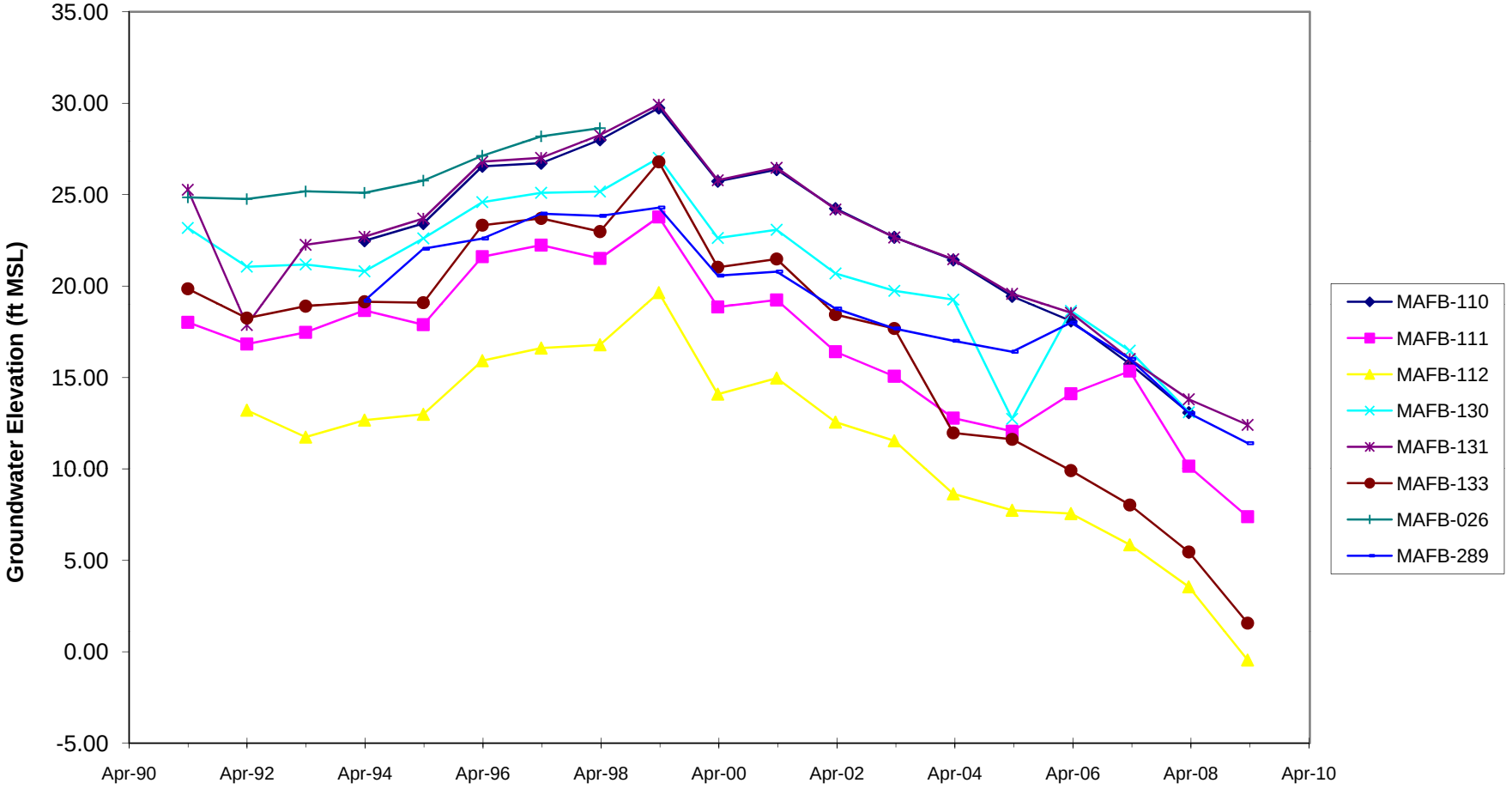
LANDFILL 04 SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009
WATER TABLE WELLS

FIGURE 2



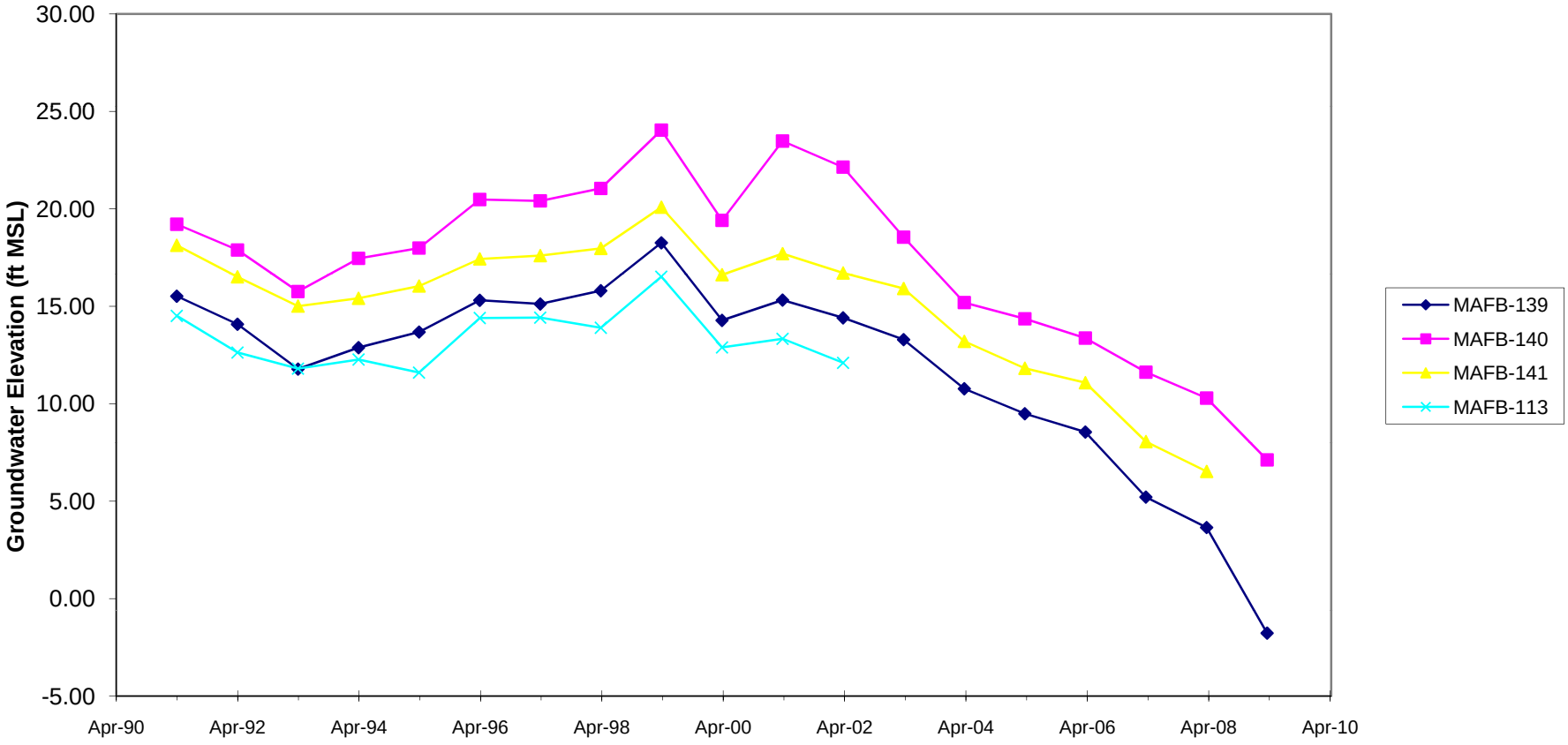
LANDFILL 03 SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009
WATER TABLE WELLS

FIGURE 3



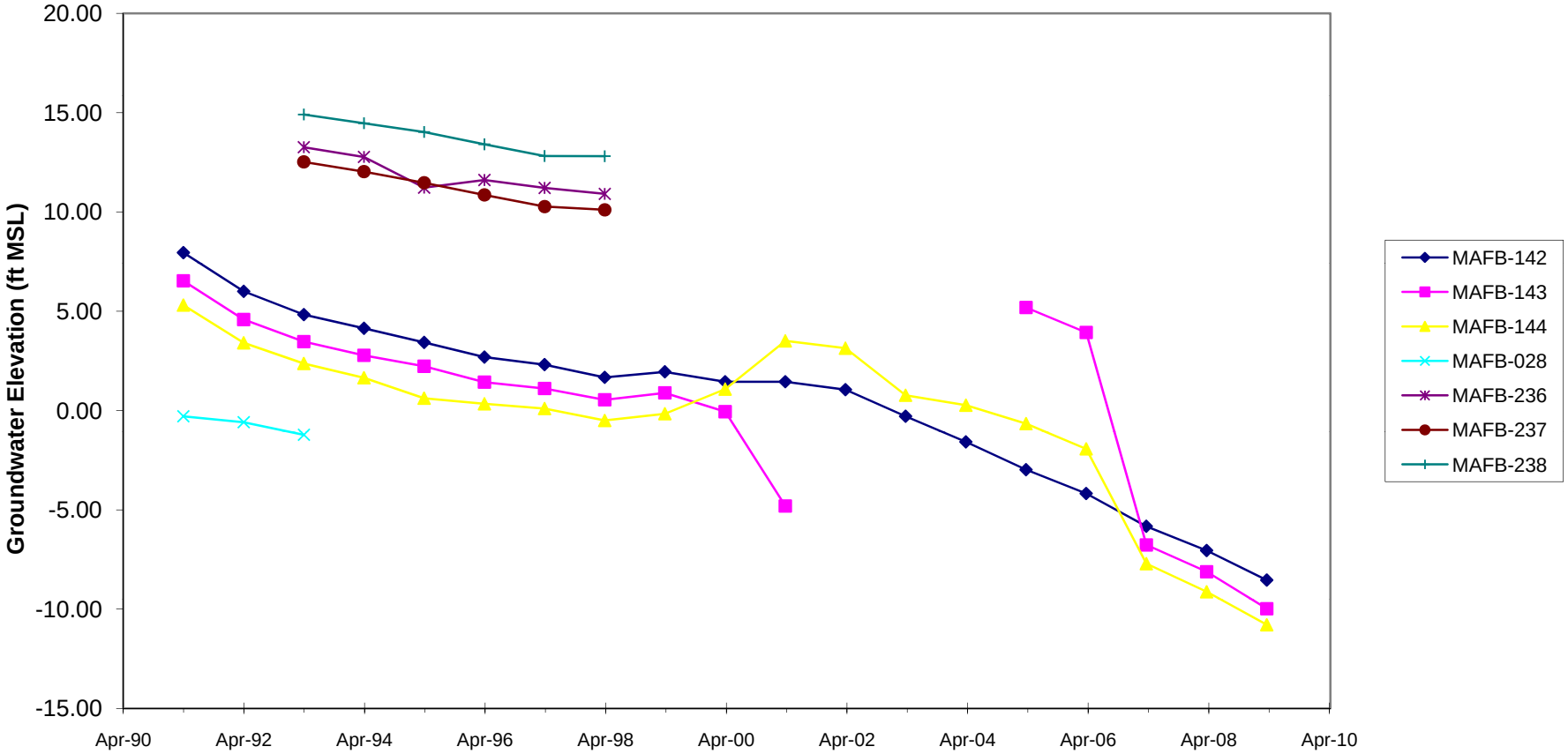
LANDFILL 05 SECOND QUARTER GROUDWATER ELEVATIONS 1991-2009
WATER TABLE WELLS

FIGURE 4



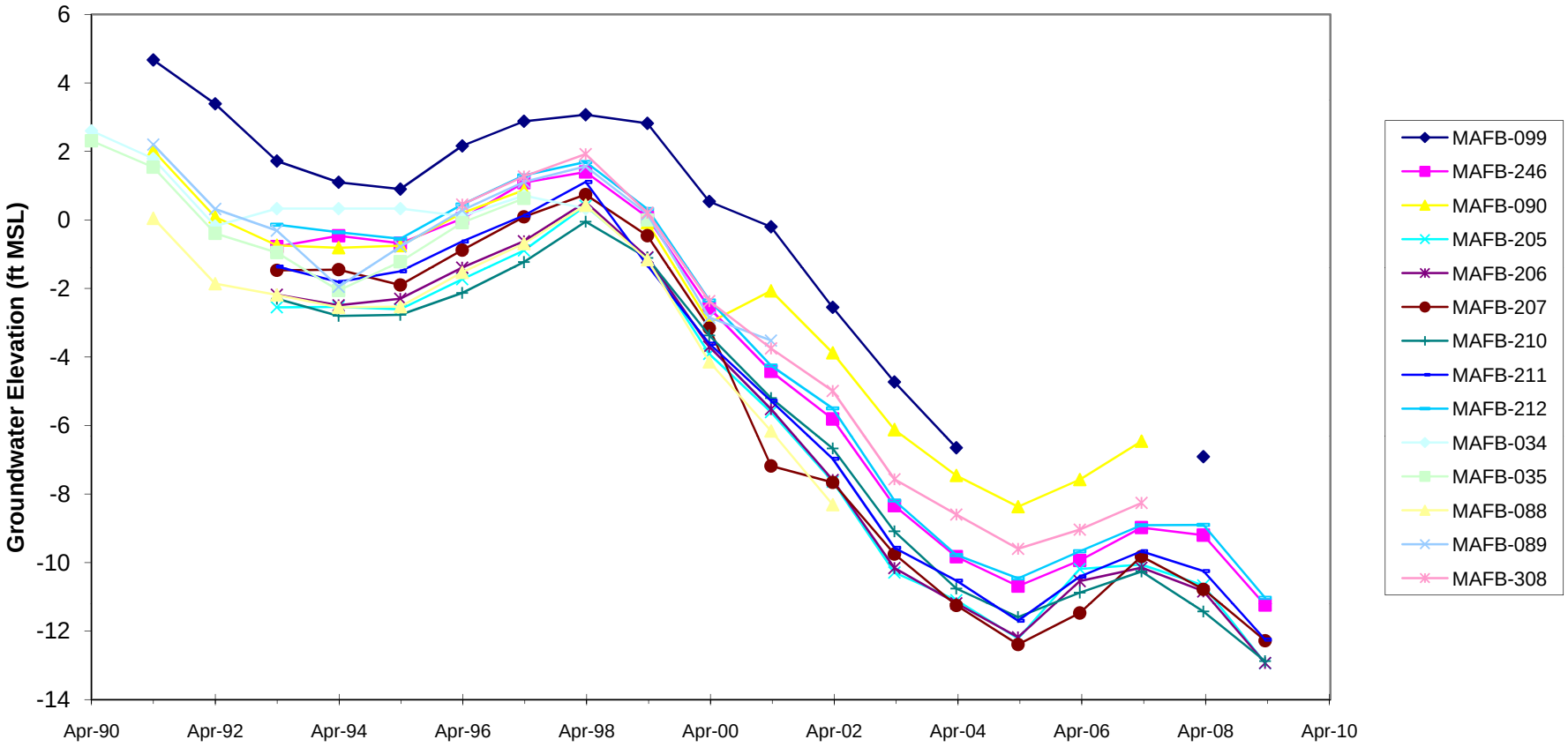
LANDFILL 06 AND AREA NORTHEAST OF LF06 SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009 WATER TABLE WELLS

FIGURE 5



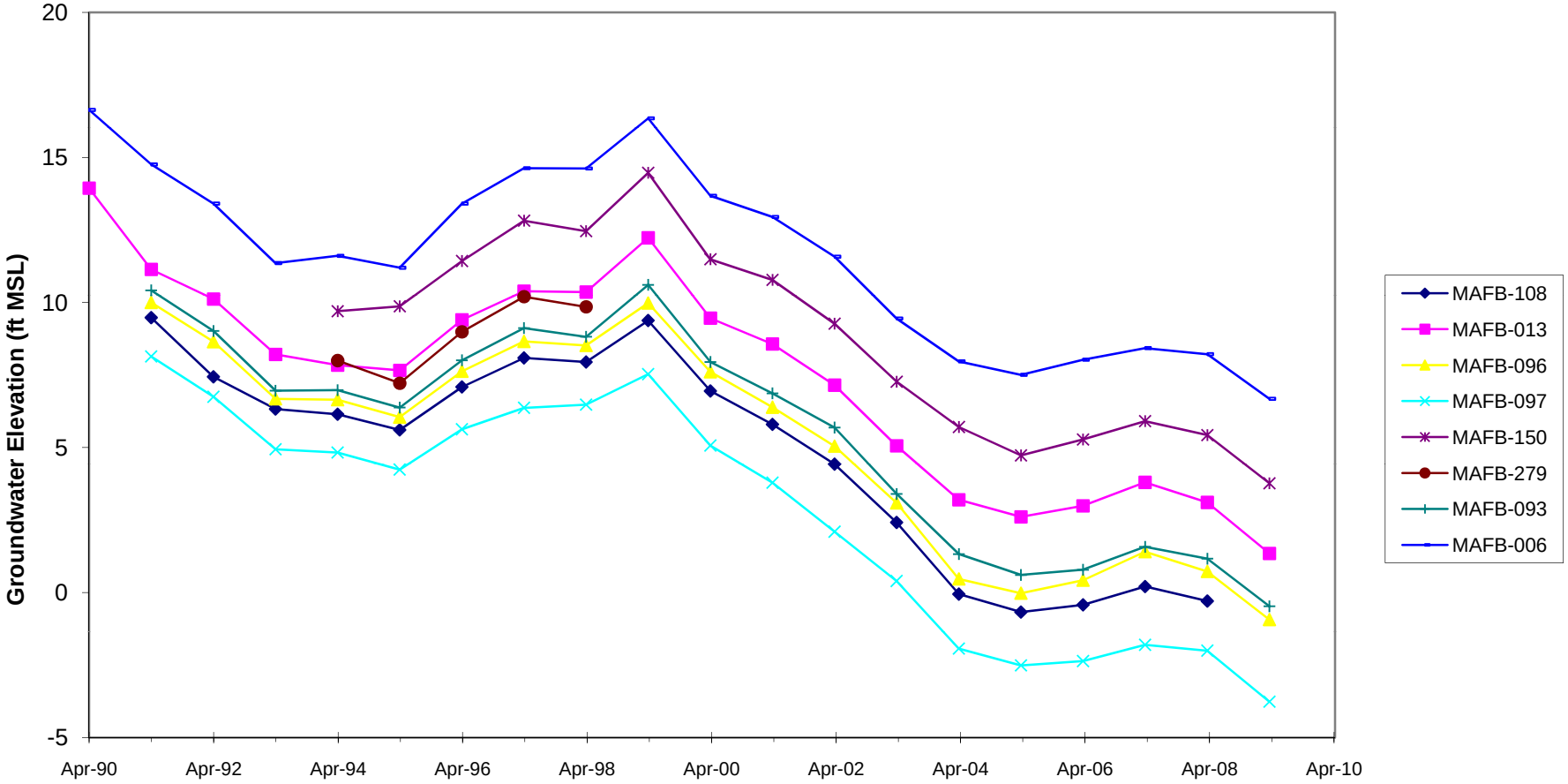
NORTH SAC AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009 WATER TABLE WELLS

FIGURE 6



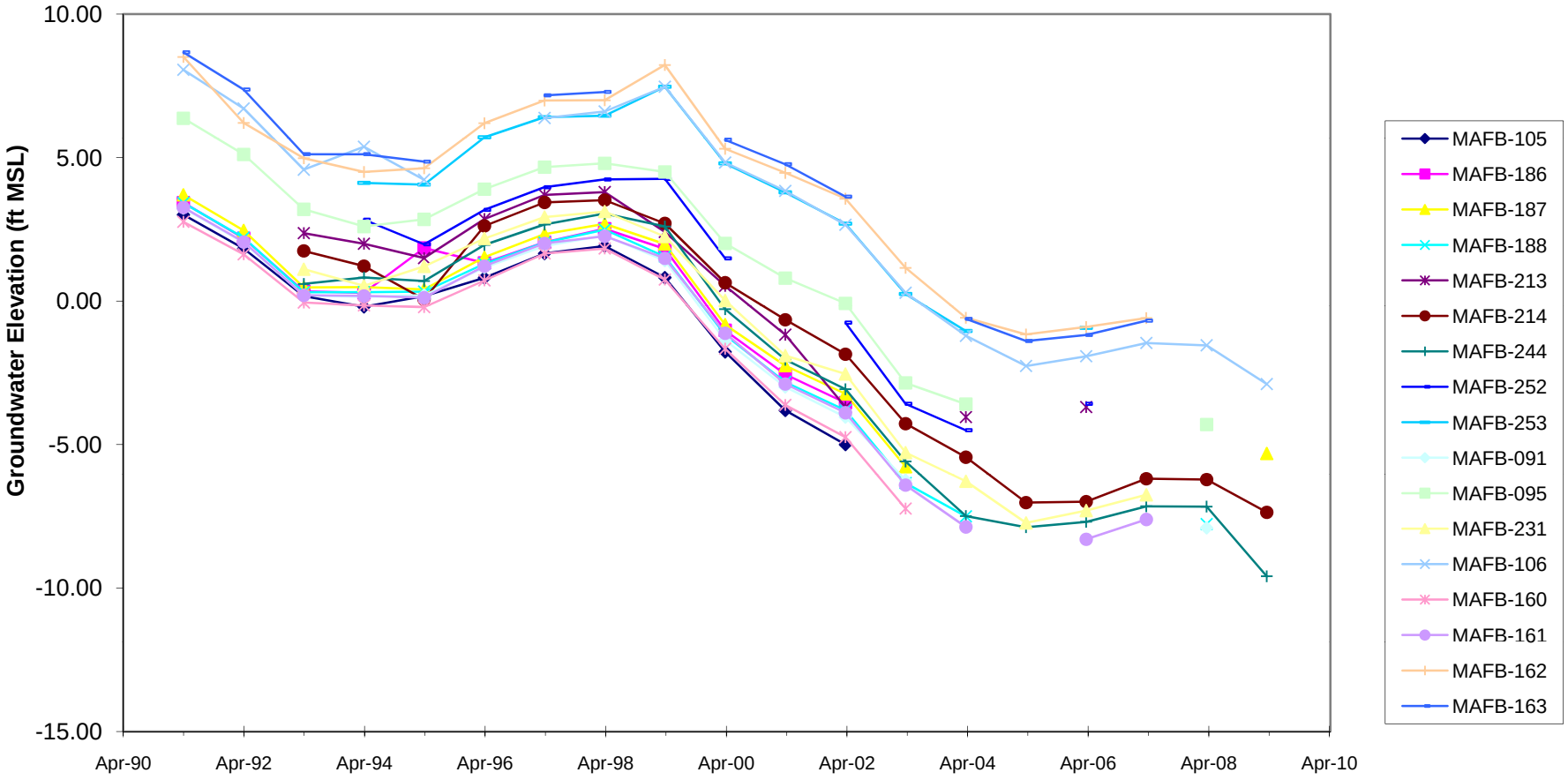
NORTHEAST MAIN BASE AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009 WATER TABLE WELLS (1)

FIGURE 7



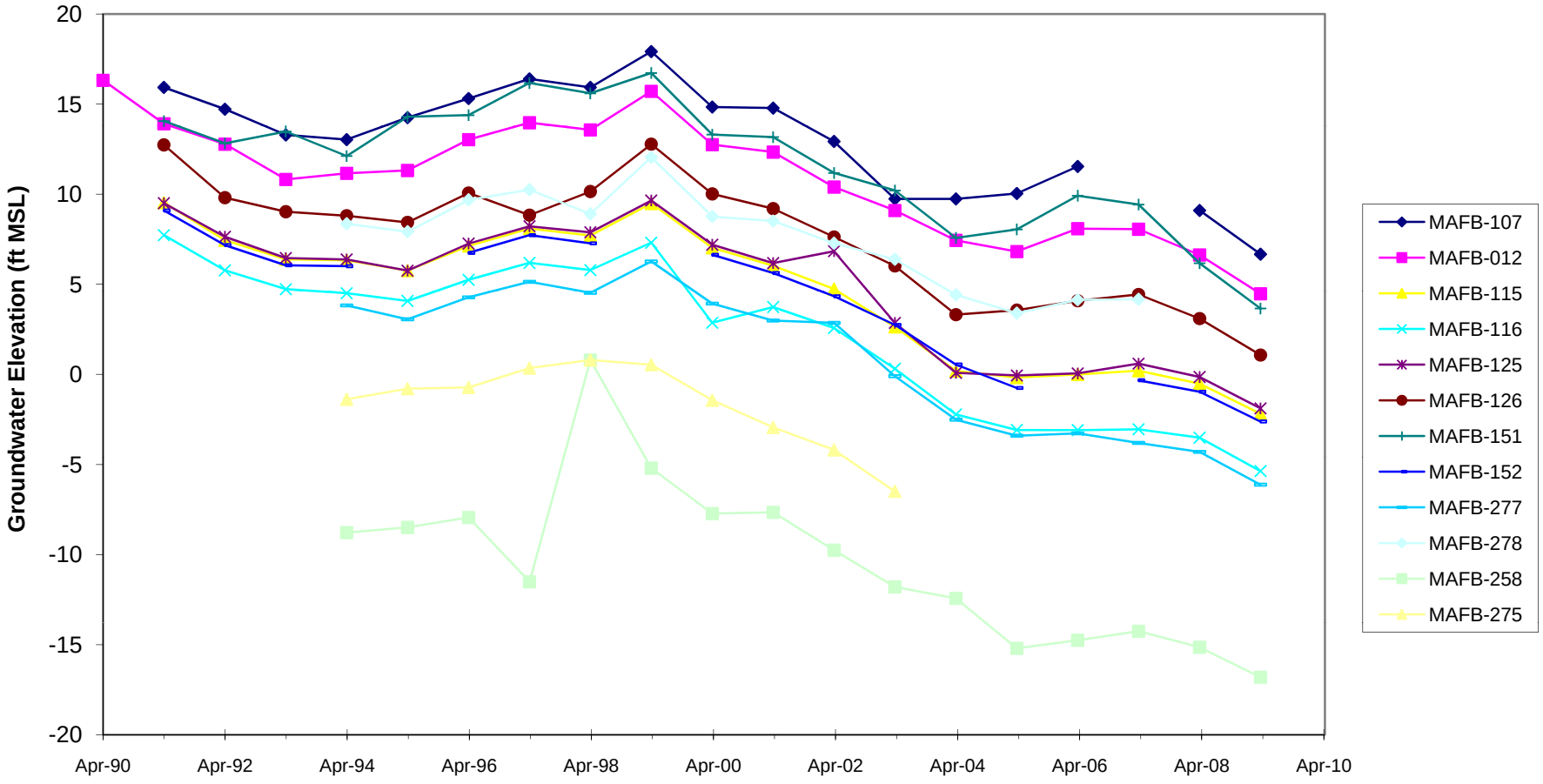
EAST MAIN BASE AREA SECOND QUARTER GROUNDWATER ELEVATIONS
1990-2009 WATER TABLE WELLS (2)

FIGURE 8



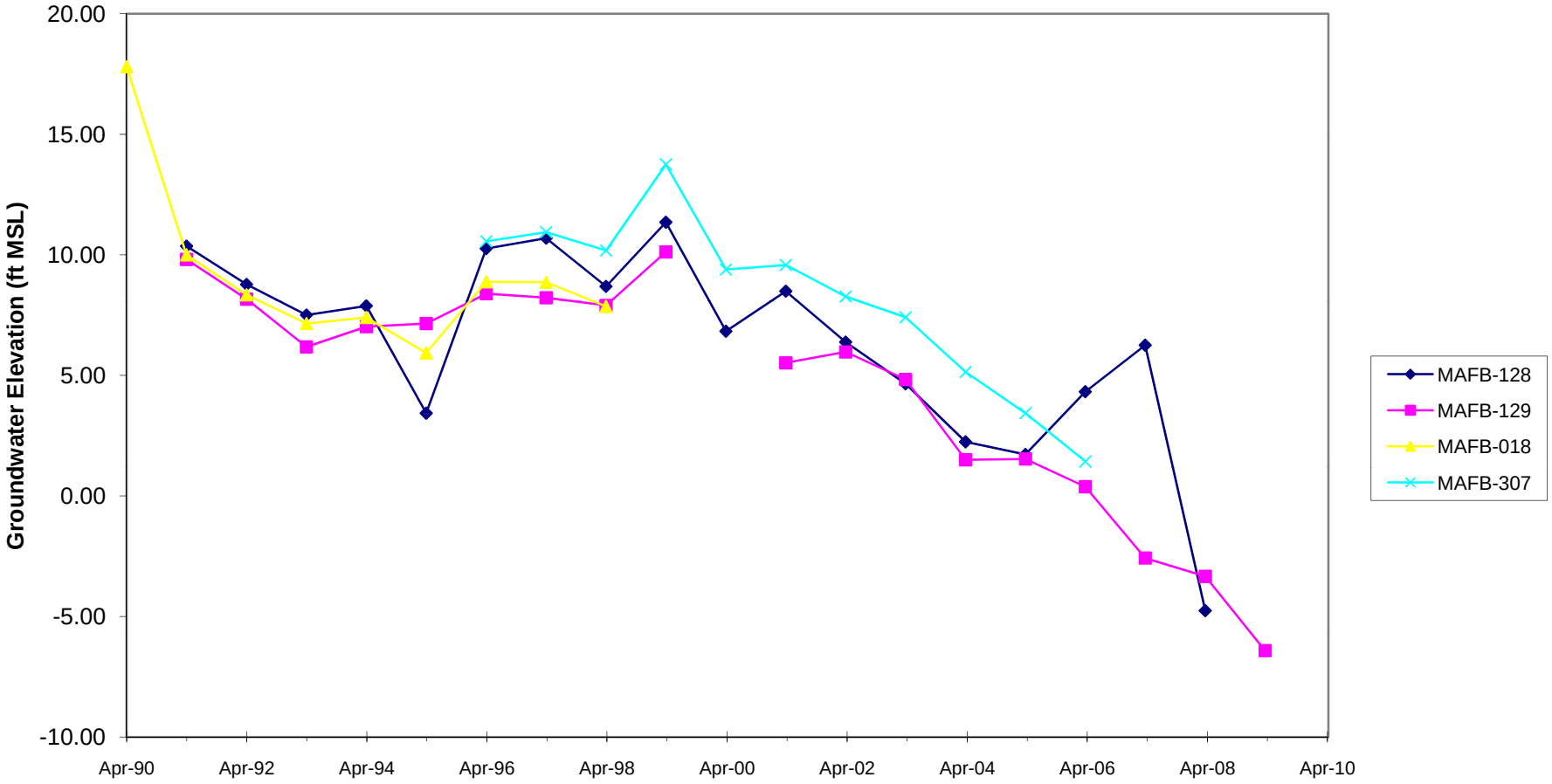
AIRFIELD AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009
WATER TABLE WELLS

FIGURE 9-1



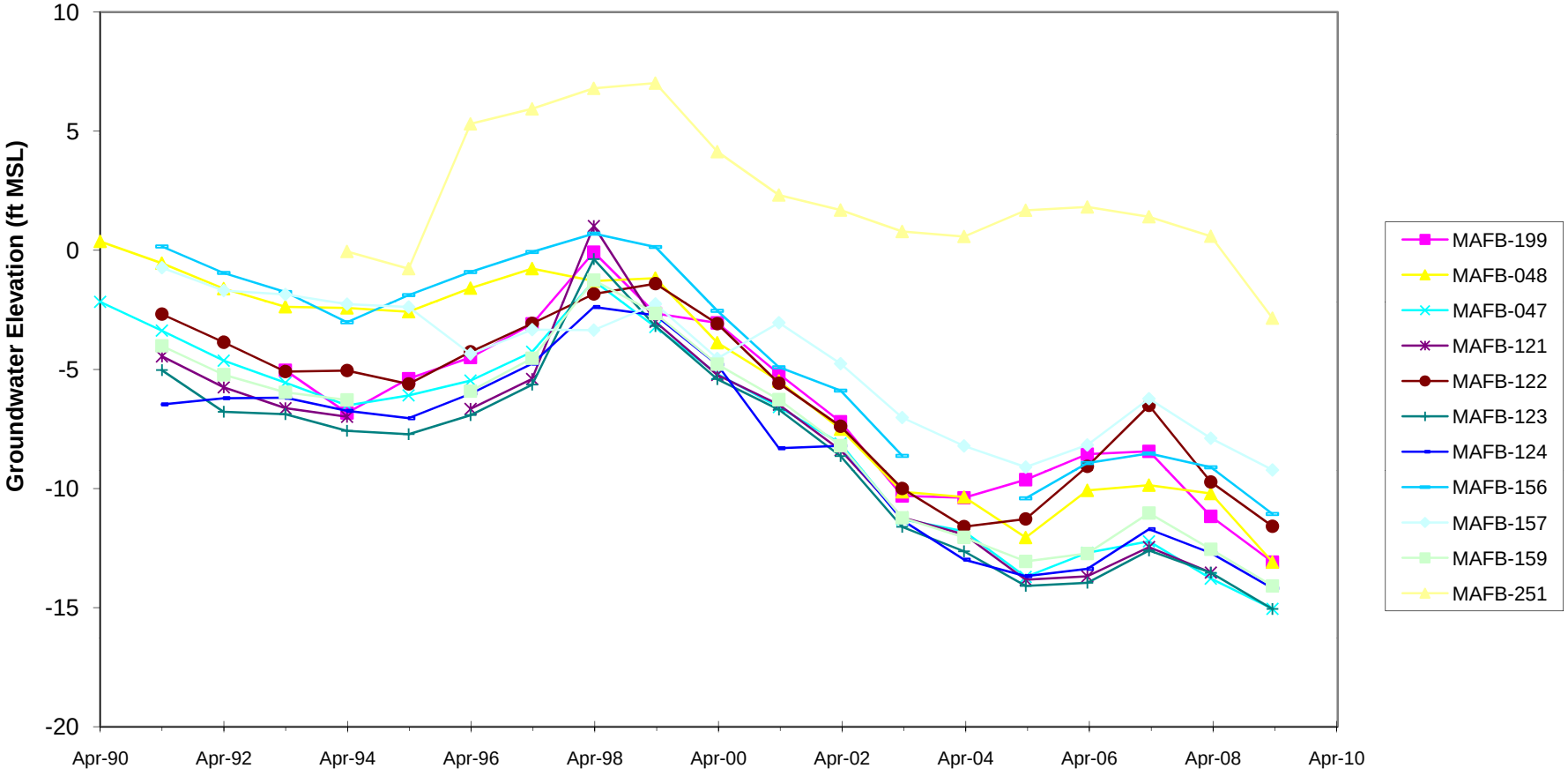
LANDFILL 02 SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009
WATER TABLE WELLS

FIGURE 9-2



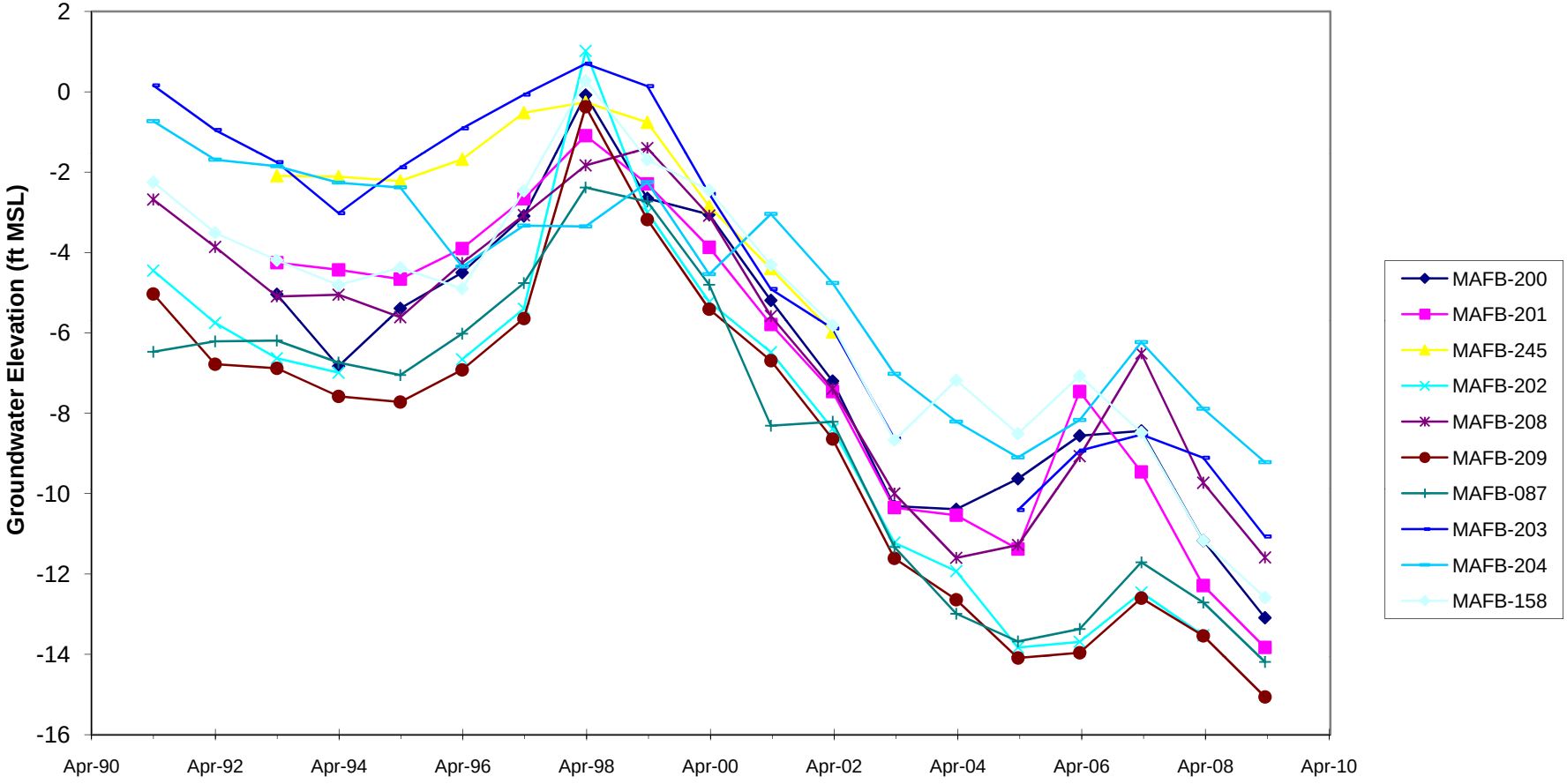
WEST SAC AND OFF-BASE WEST AREAS SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009 WATER TABLE WELLS

FIGURE 10



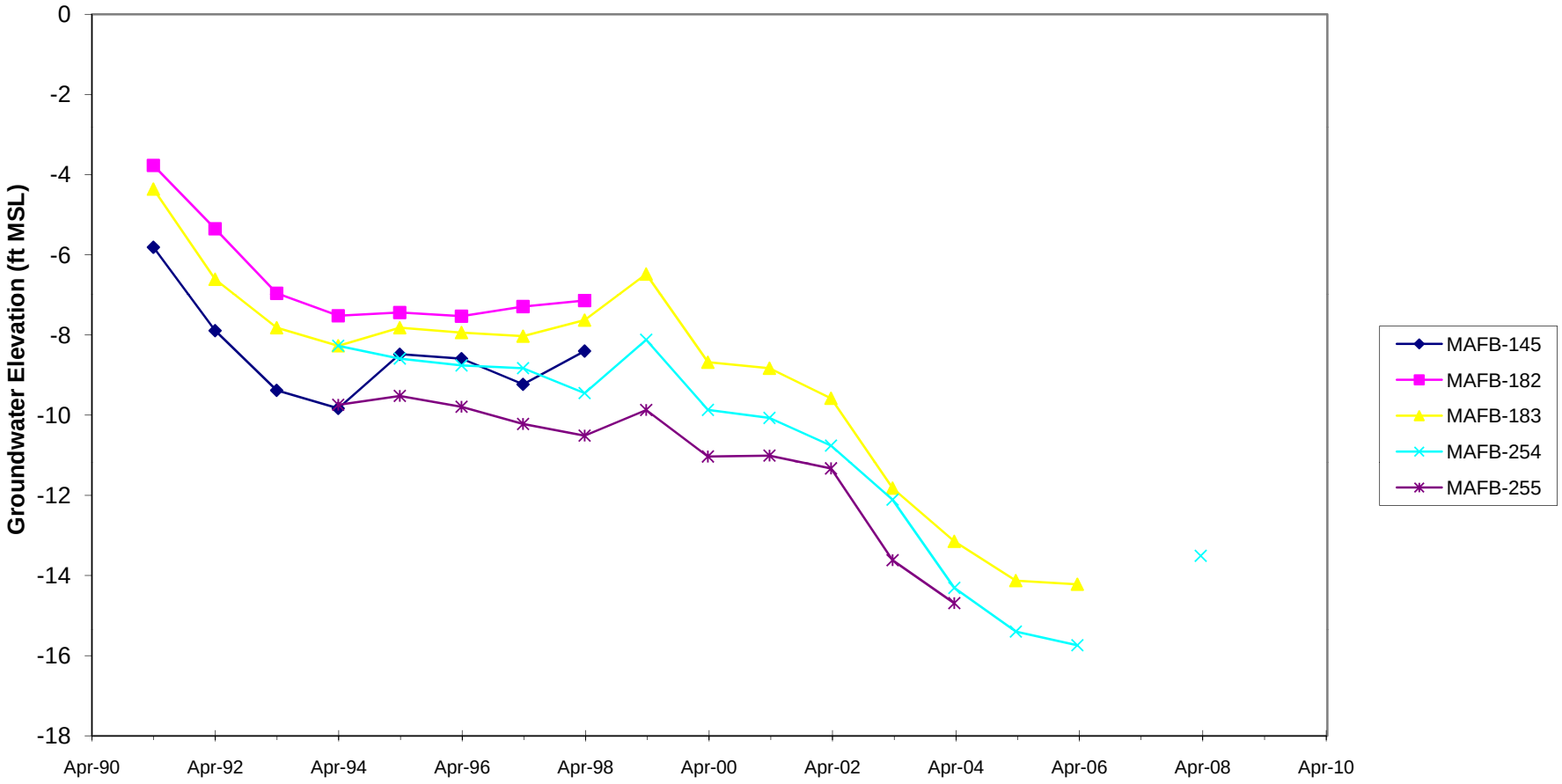
SOUTH SAC AREA SECOND QUARTER GROUNDWATER ELEVATIONS
1991-2009 WATER TABLE WELLS

FIGURE 11



SITE 7 AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1991-2009
WATER TABLE WELLS

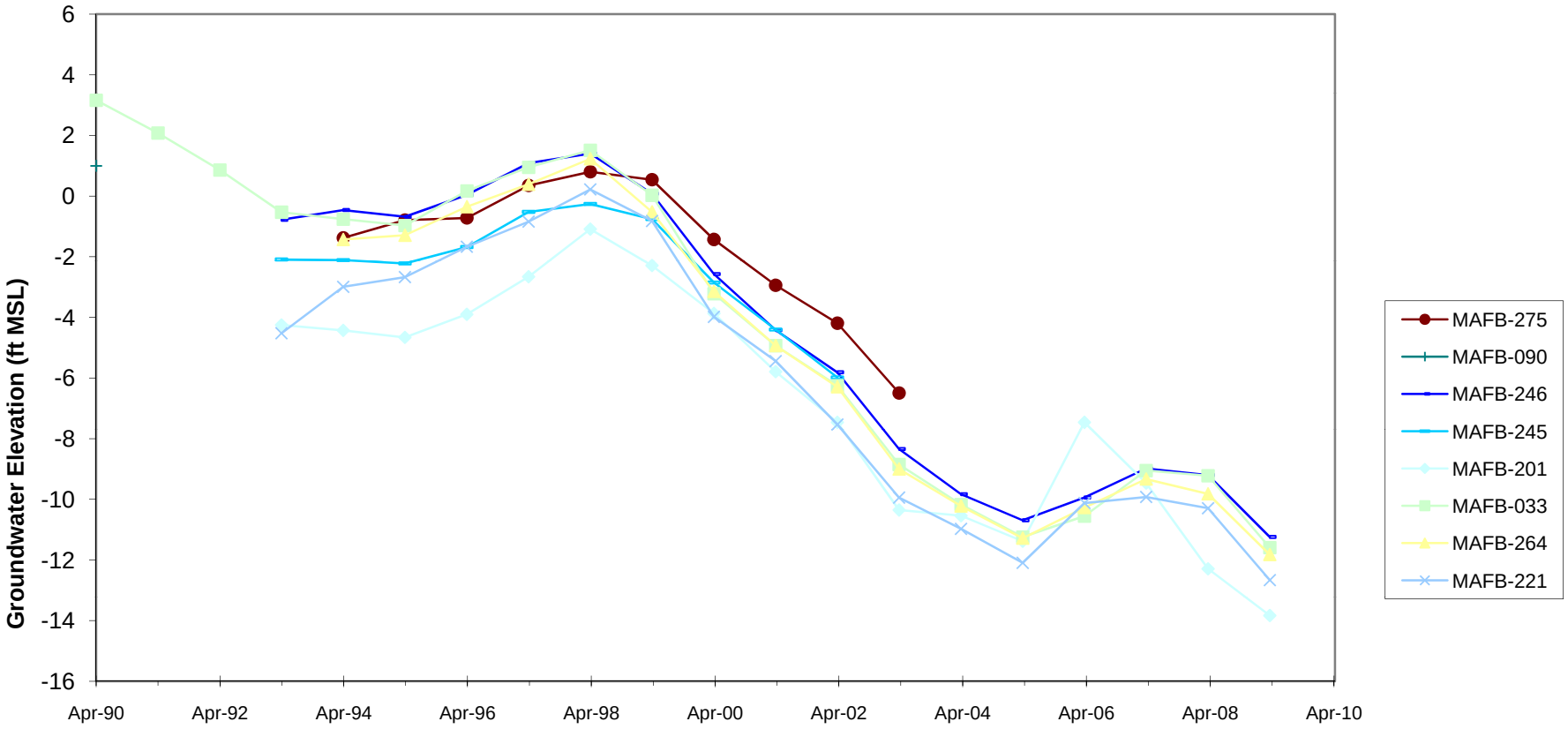
FIGURE 12



EAST SAC AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT Bu

FIGURE 13

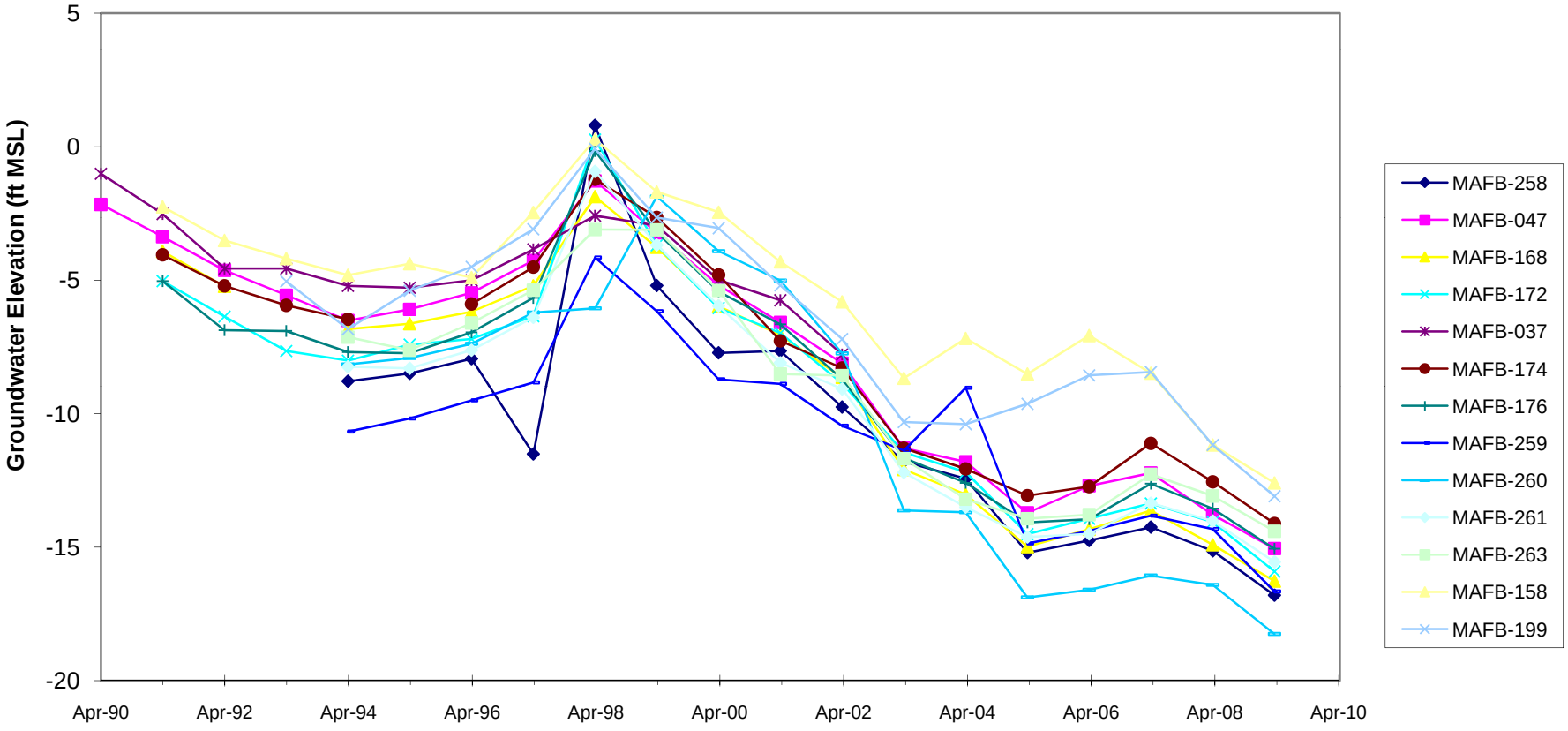


Mather AR # 2970 Page 430 of 1022

WEST SAC AND OFF-BASE WEST AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT Bu

FIGURE 14

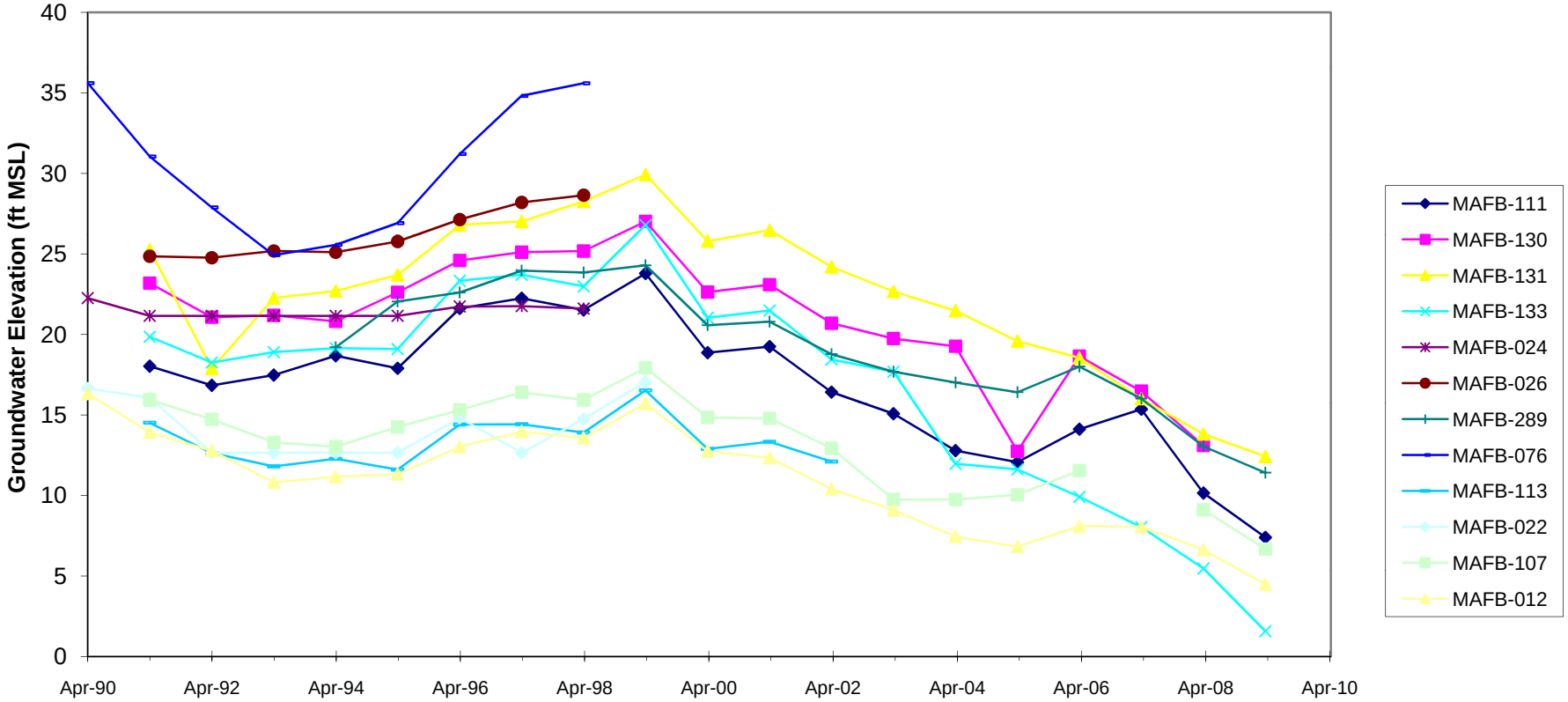


Mather AR # 2970 Page 431 of 1022

NORTHEAST/LANDFILL SECOND QUARTER GROUNDWATER ELEVATIONS
1990-2009

UNIT B

FIGURE 15



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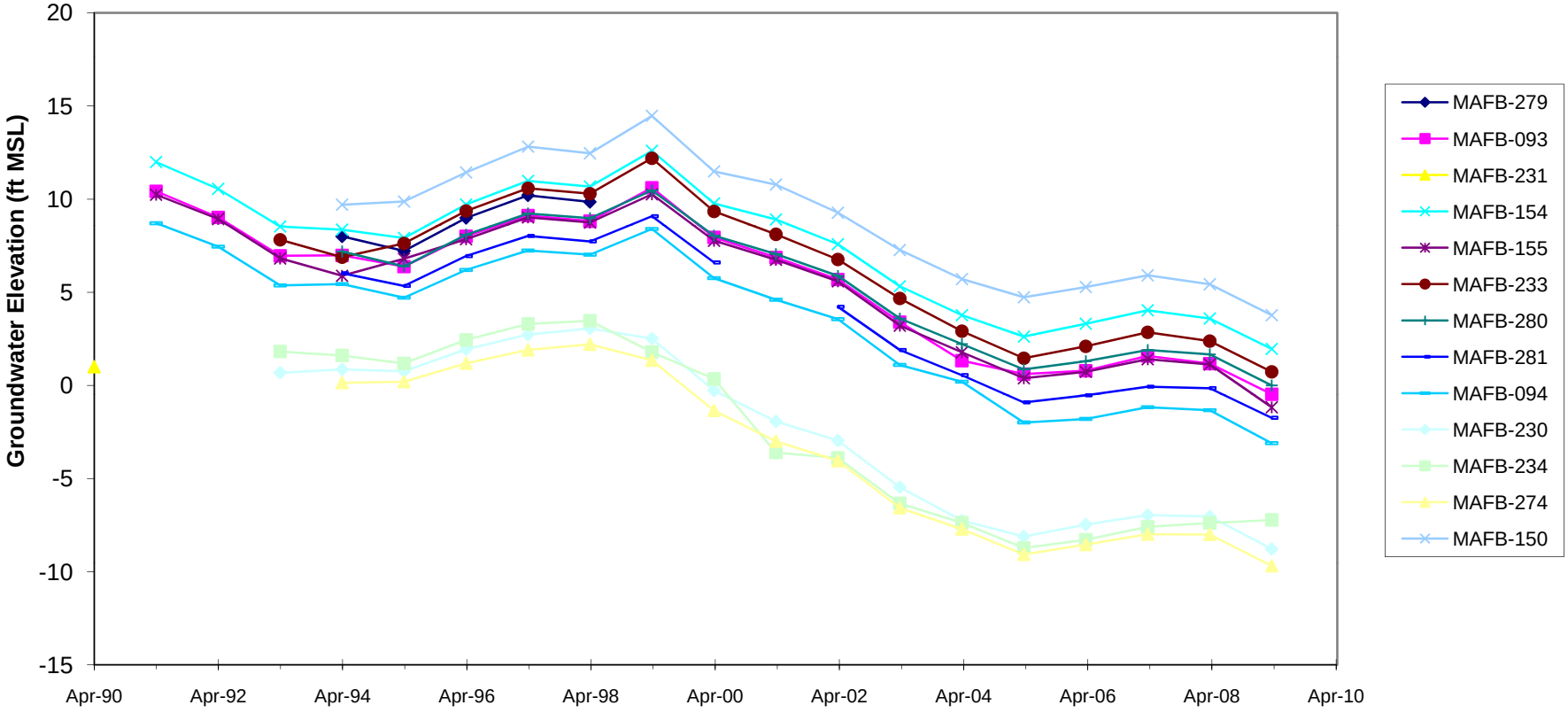
NORTH/EAST SAC SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT B

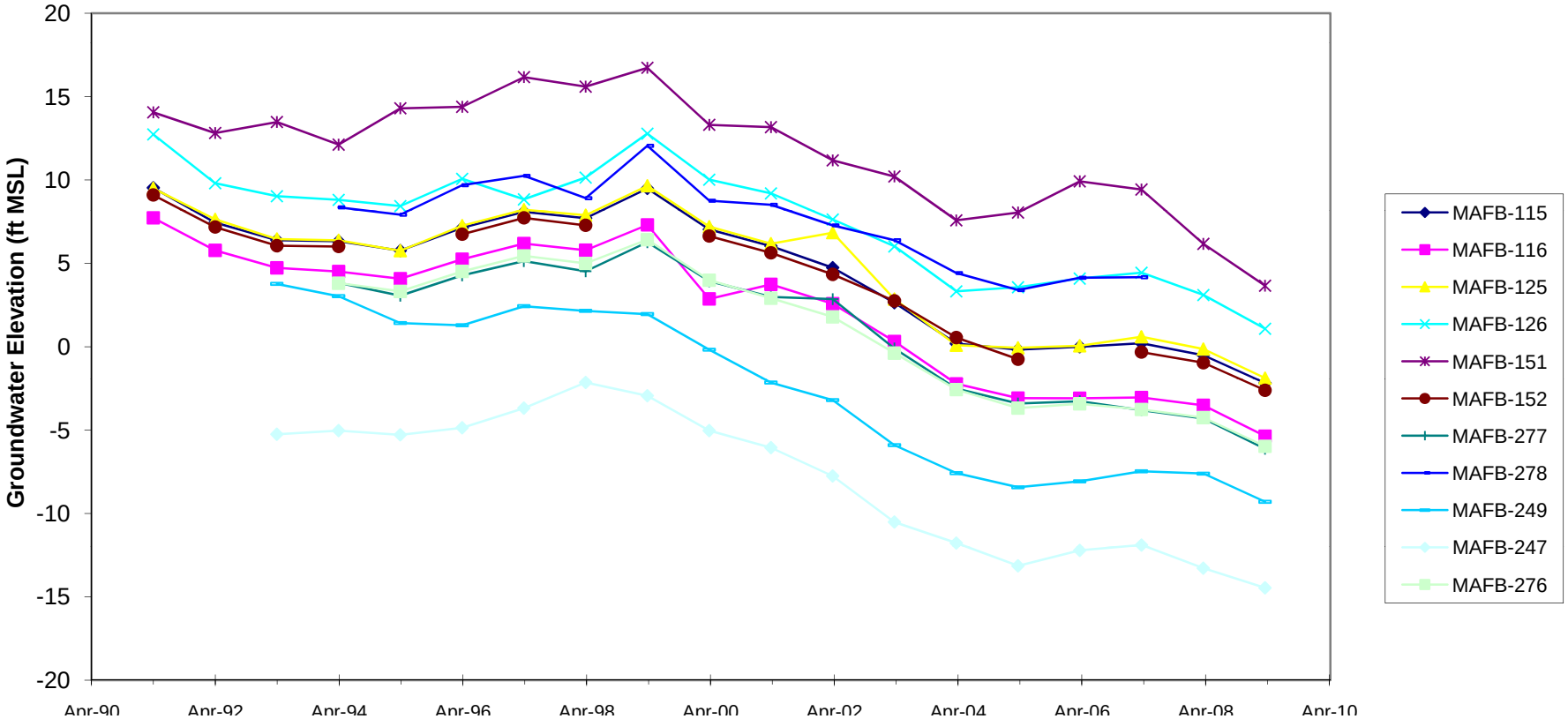
FIGURE 16



EASTERN RUNWAY SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT B

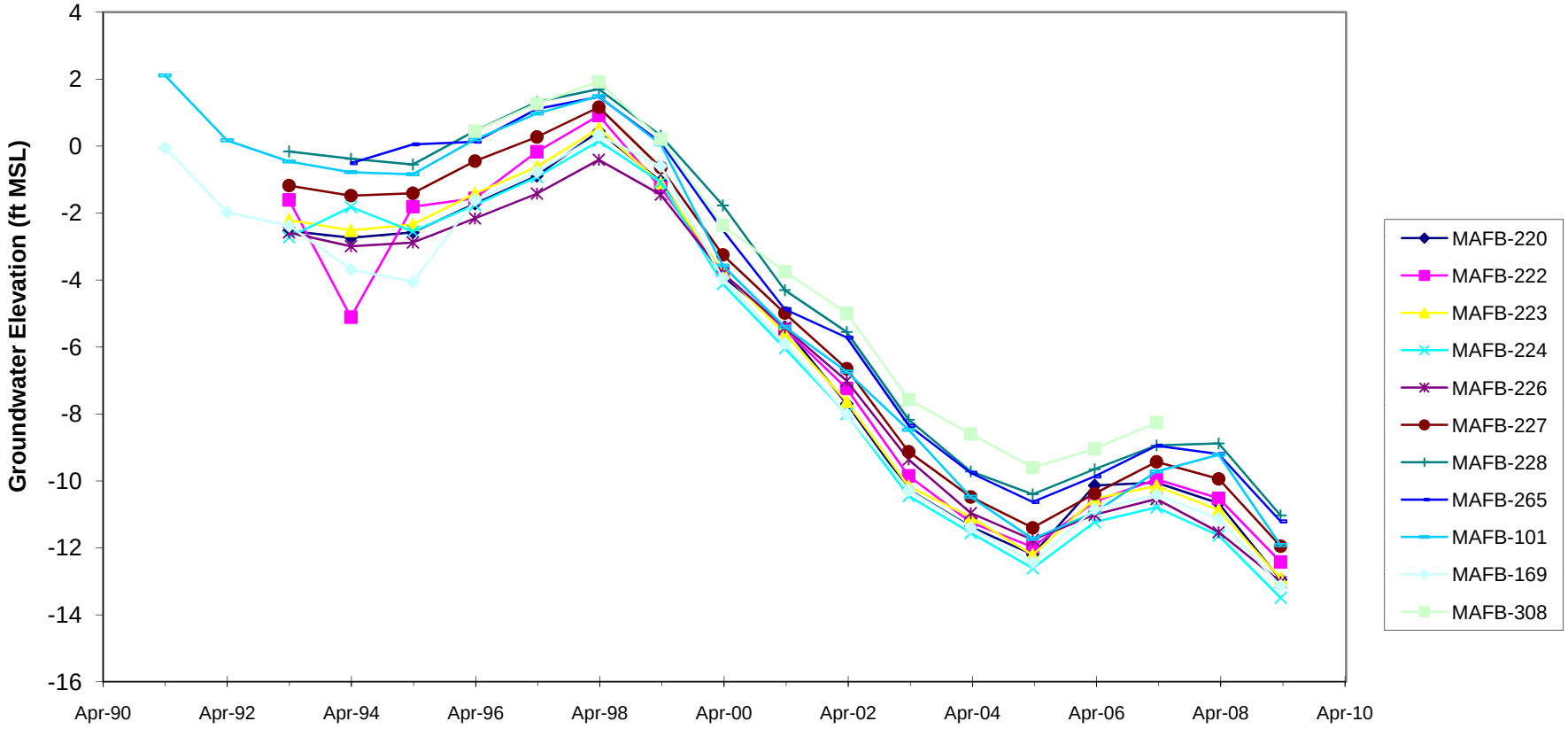
FIGURE 17



MAIN BASE SAC SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT B

FIGURE 18



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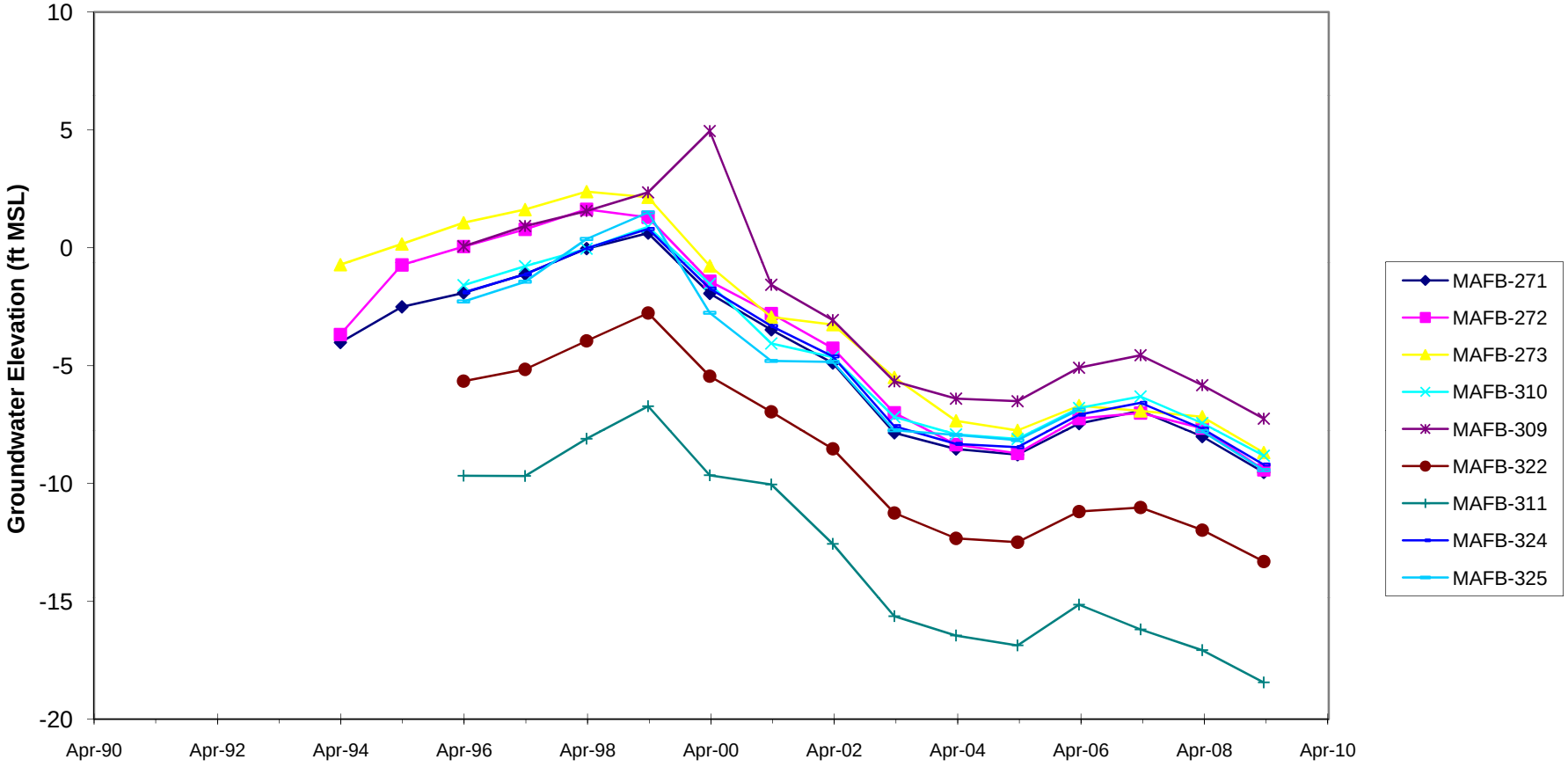
NW OFF-BASE SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT B

FIGURE 19



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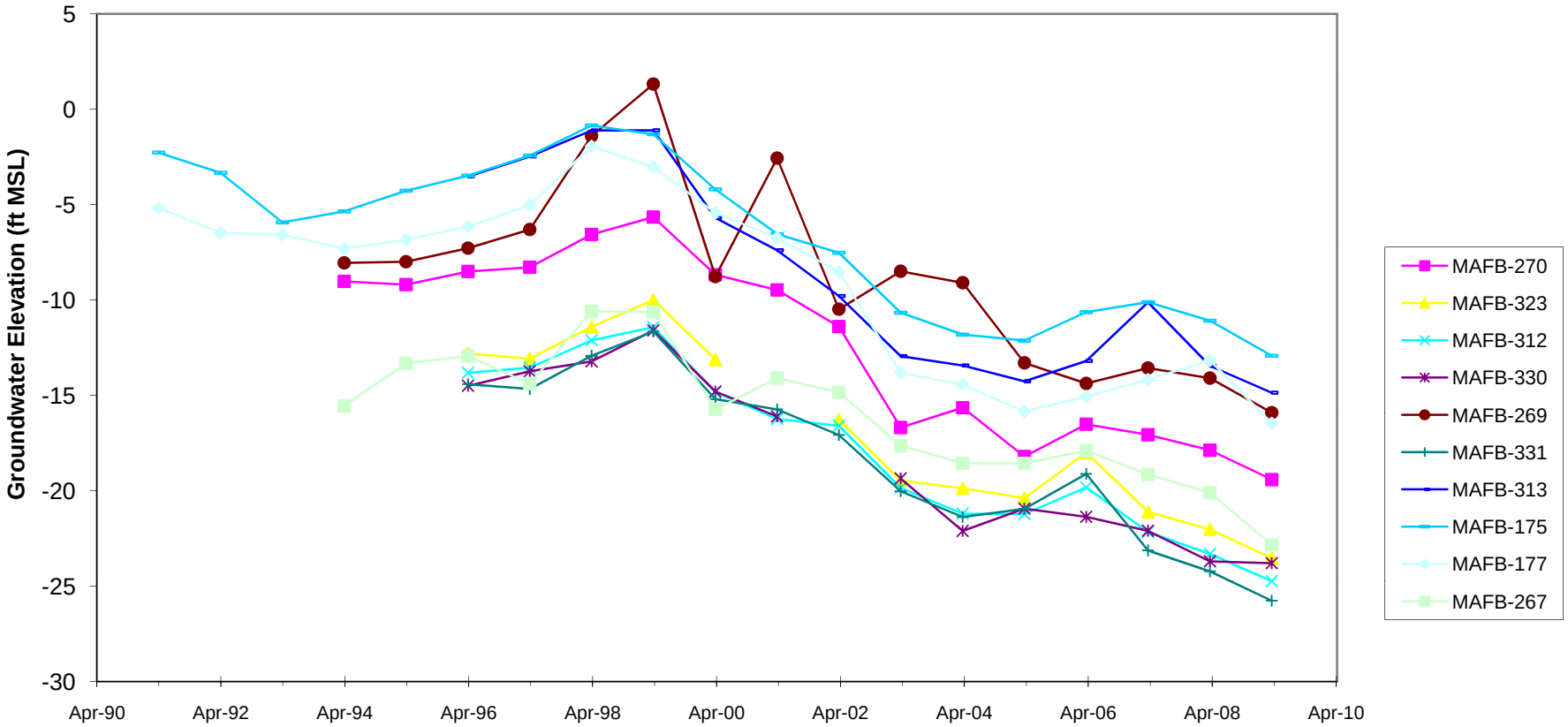
WEST OFF-BASE SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT B

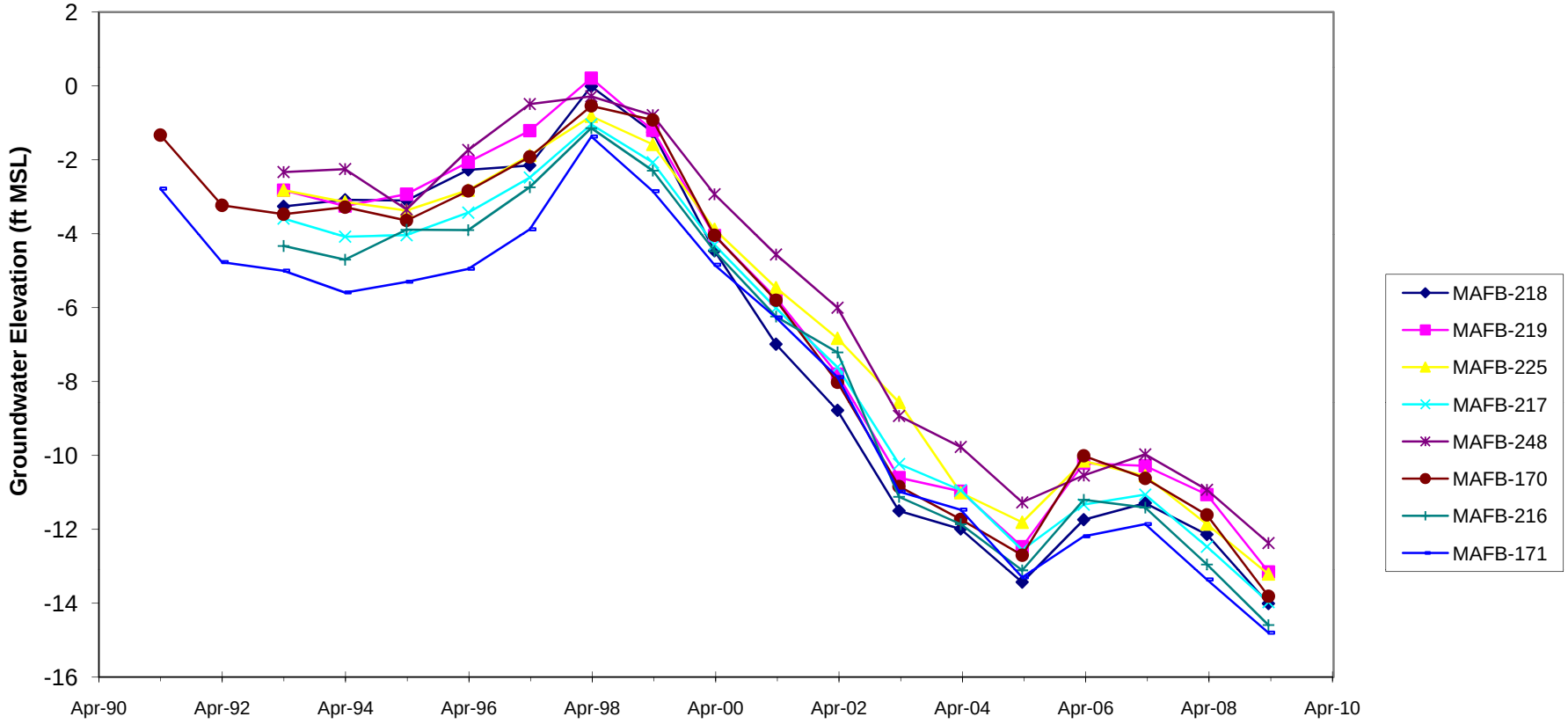
FIGURE 20



SOUTH CENTRAL SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT B

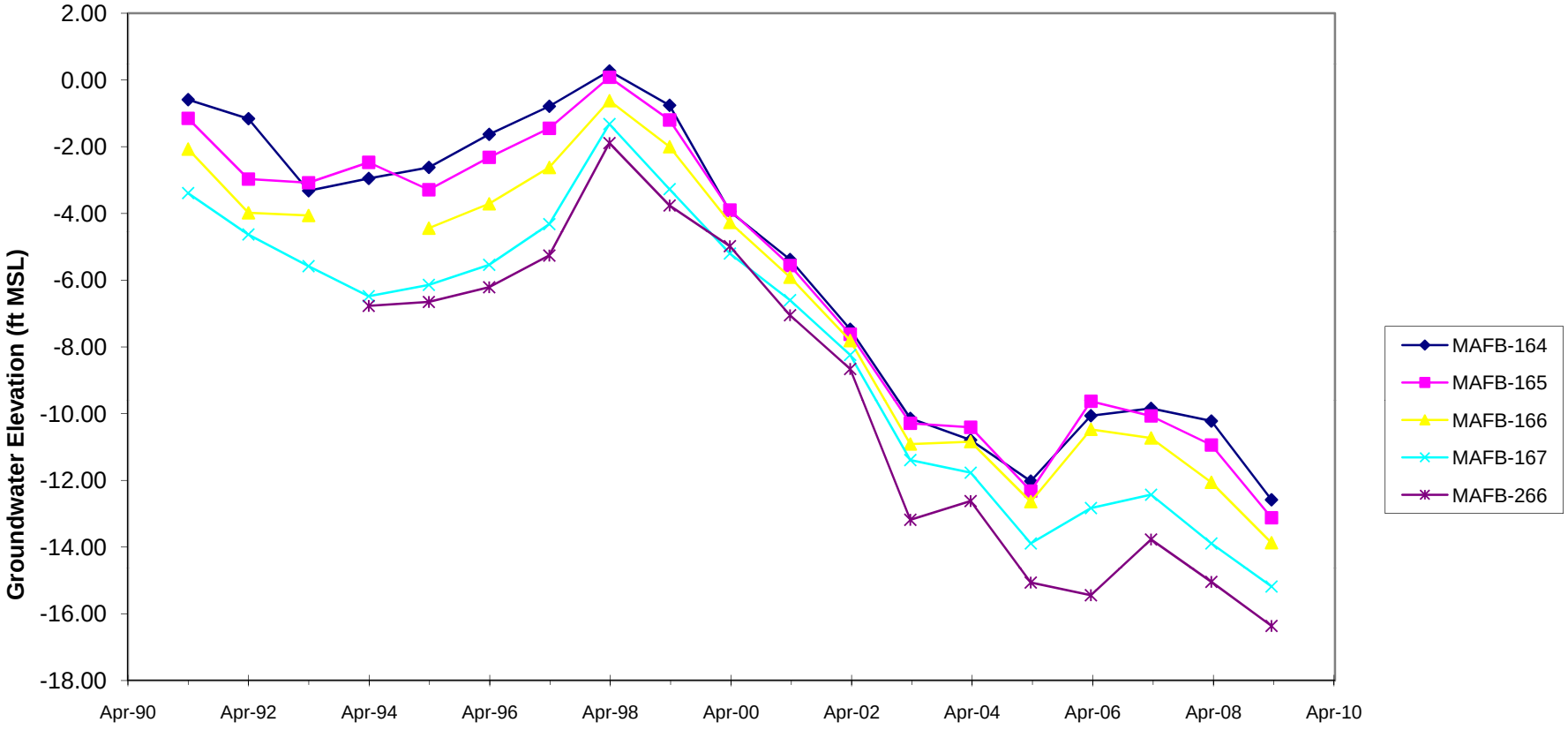
FIGURE 21



SOUTHWEST SAC AREA SECOND QUARTER GROUNDWATER ELEVATIONS
1990-2009

UNIT B

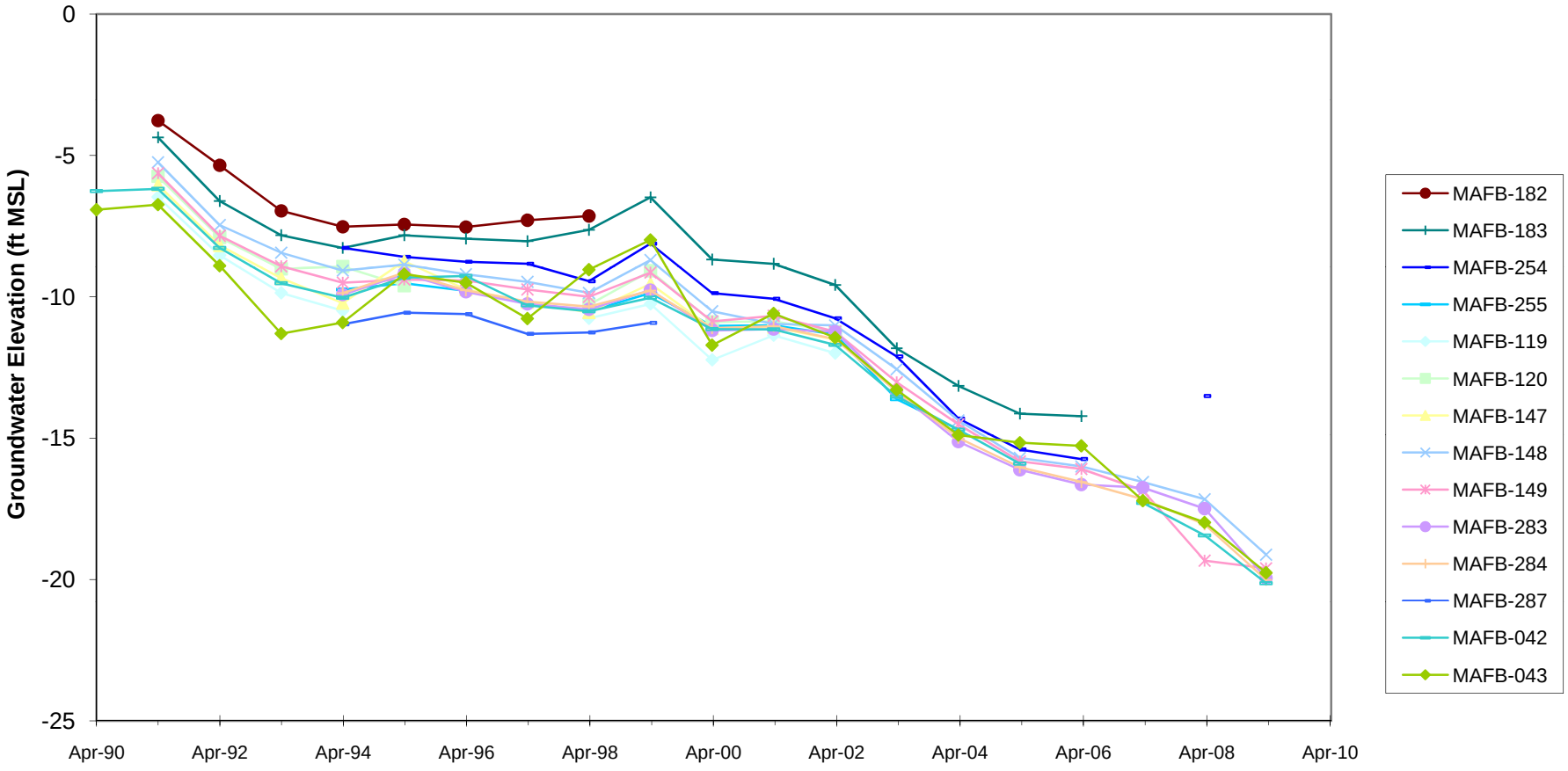
FIGURE 22



EAST SITE 7 GROUNDWATER ELEVATIONS 1990-2009

UNIT B

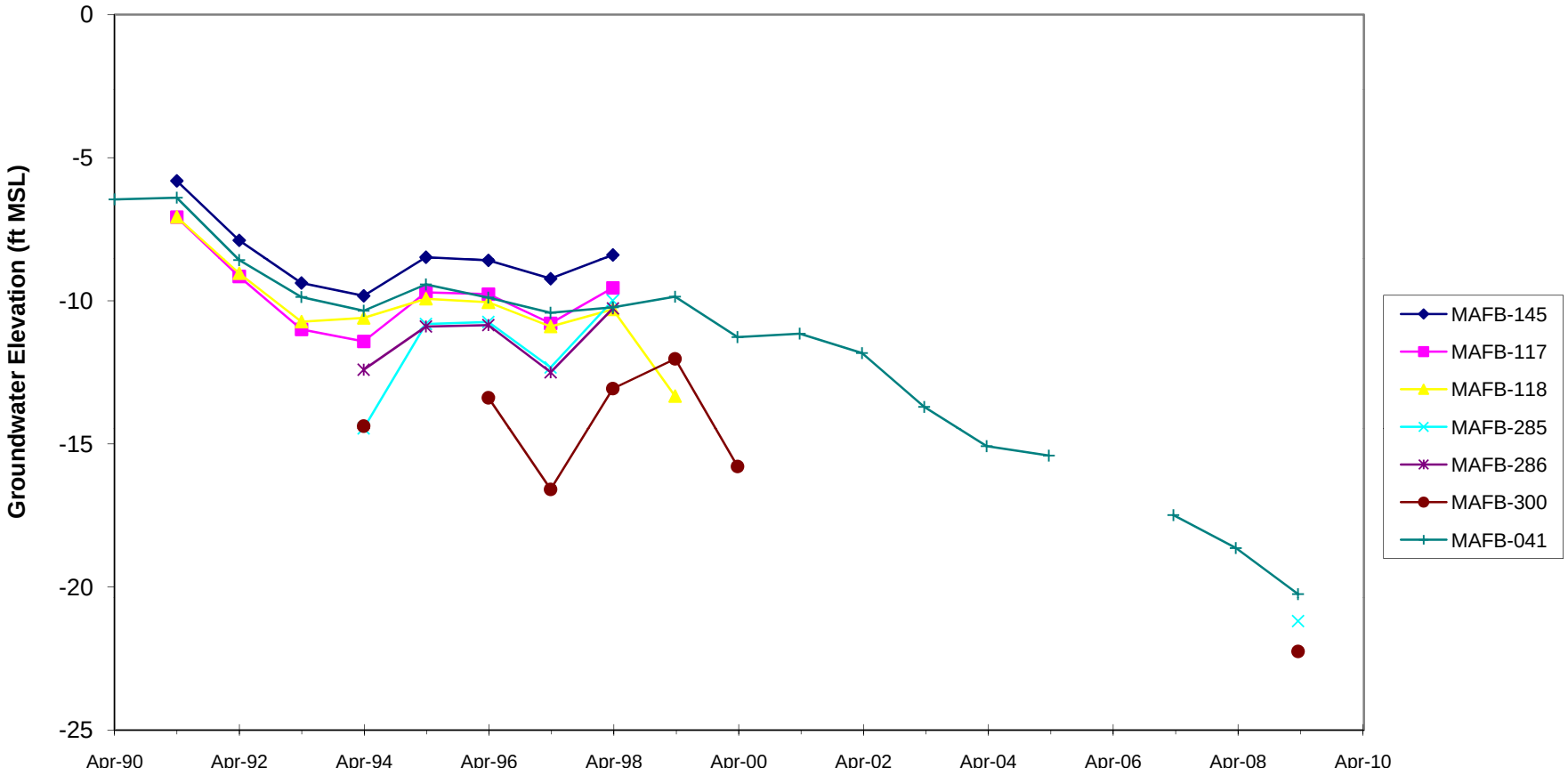
FIGURE 23



WEST SITE 7 GROUNDWATER ELEVATIONS 1990-2009

UNIT C

FIGURE 24



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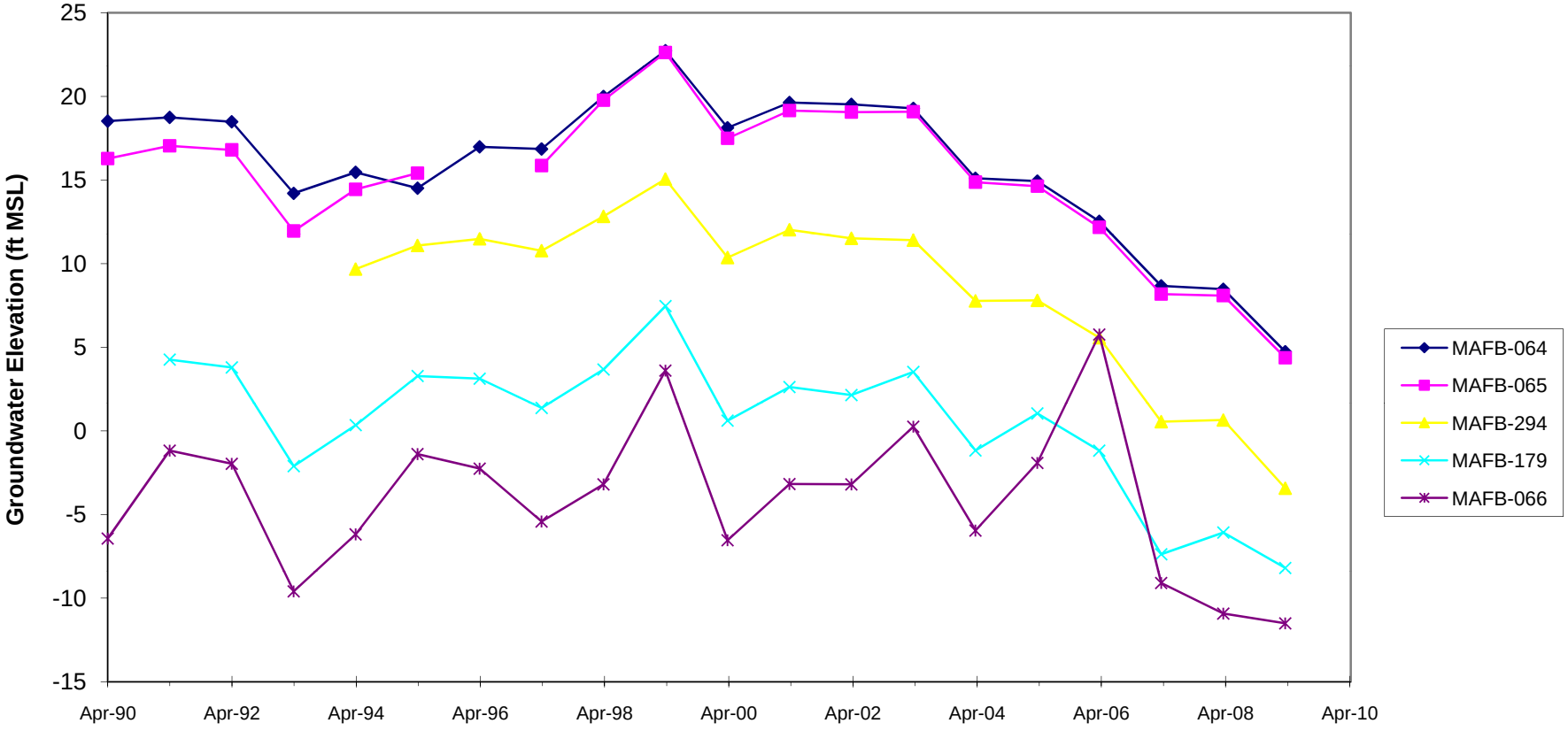
NORTHEAST AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT D

FIGURE 25



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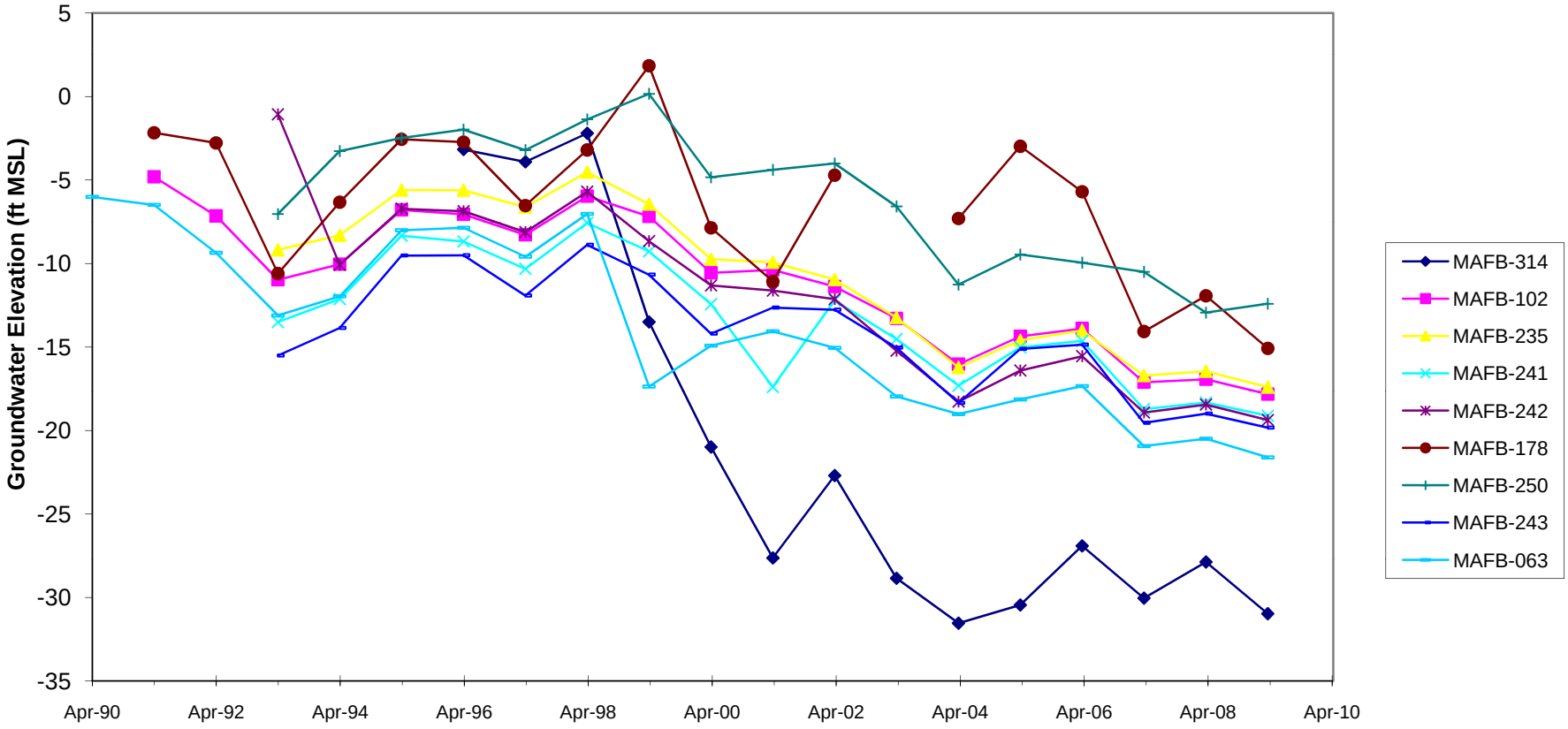
MAIN BASE/SAC AREA SECOND QUARTER GROUNDWATER ELEVATIONS
1991-2009

UNIT D

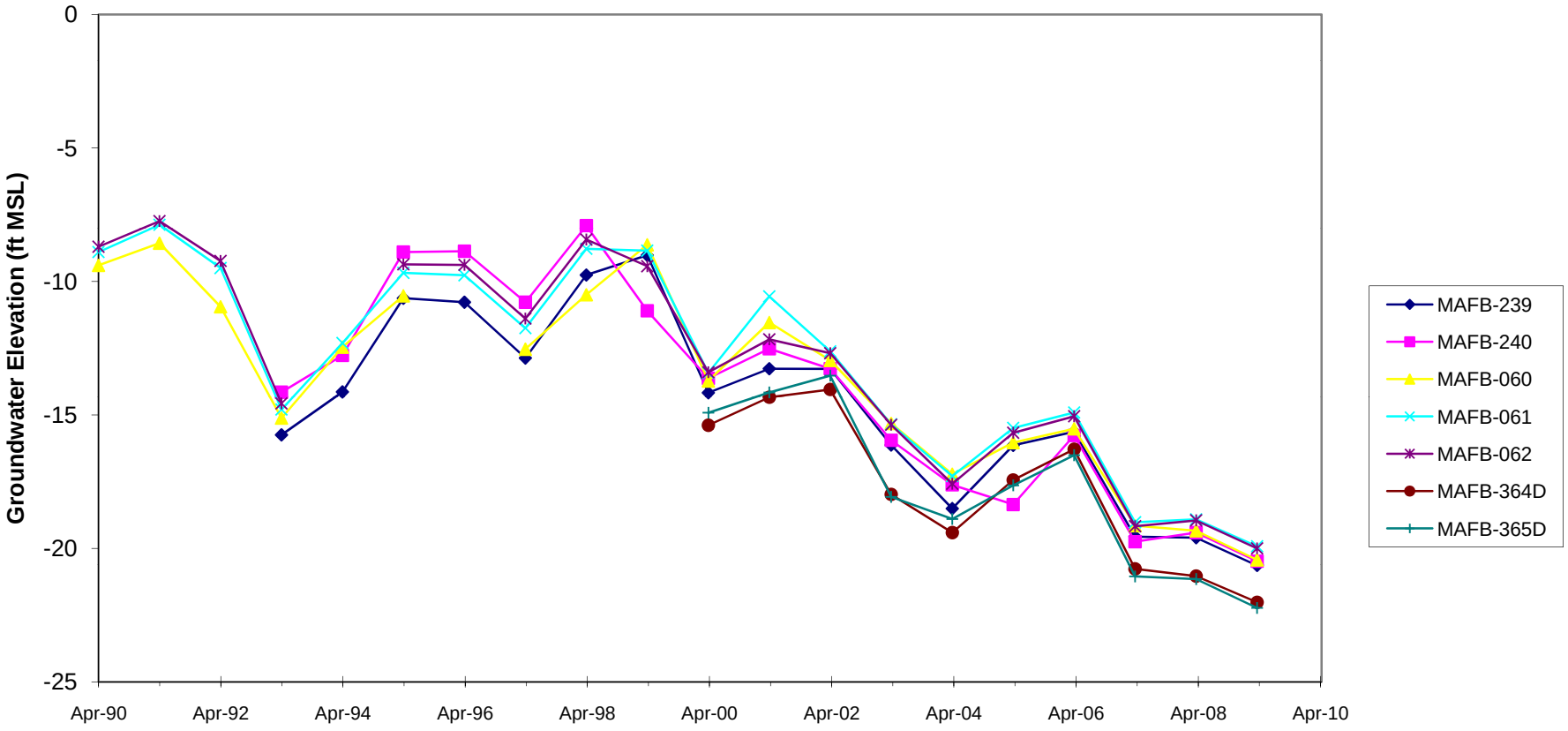
FIGURE 26



SOUTH MAIN BASE/SAC AREA SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

UNIT D

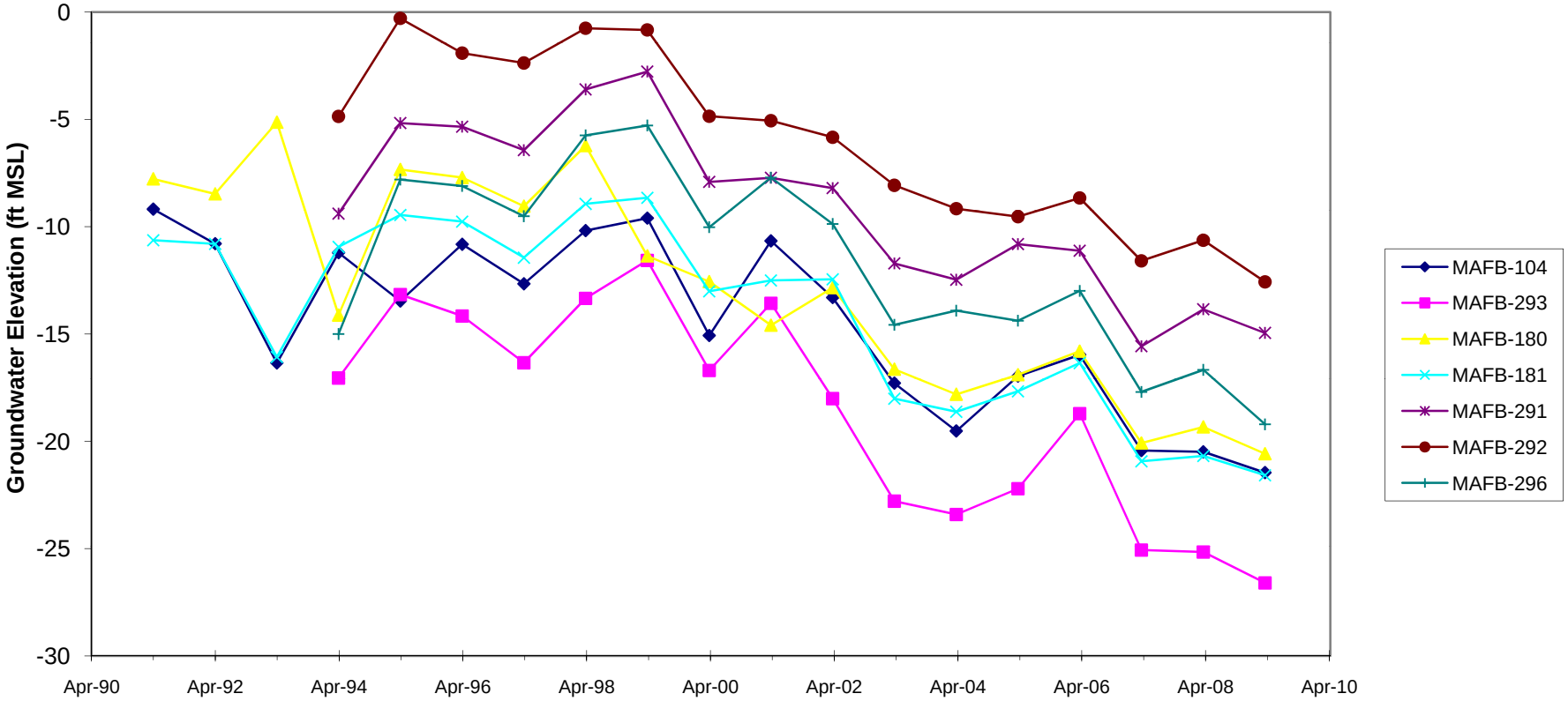
FIGURE 27



OFF-BASE WEST AREA SECOND QUARTER GROUNDWATER ELEVATIONS
1991-2009

UNIT D

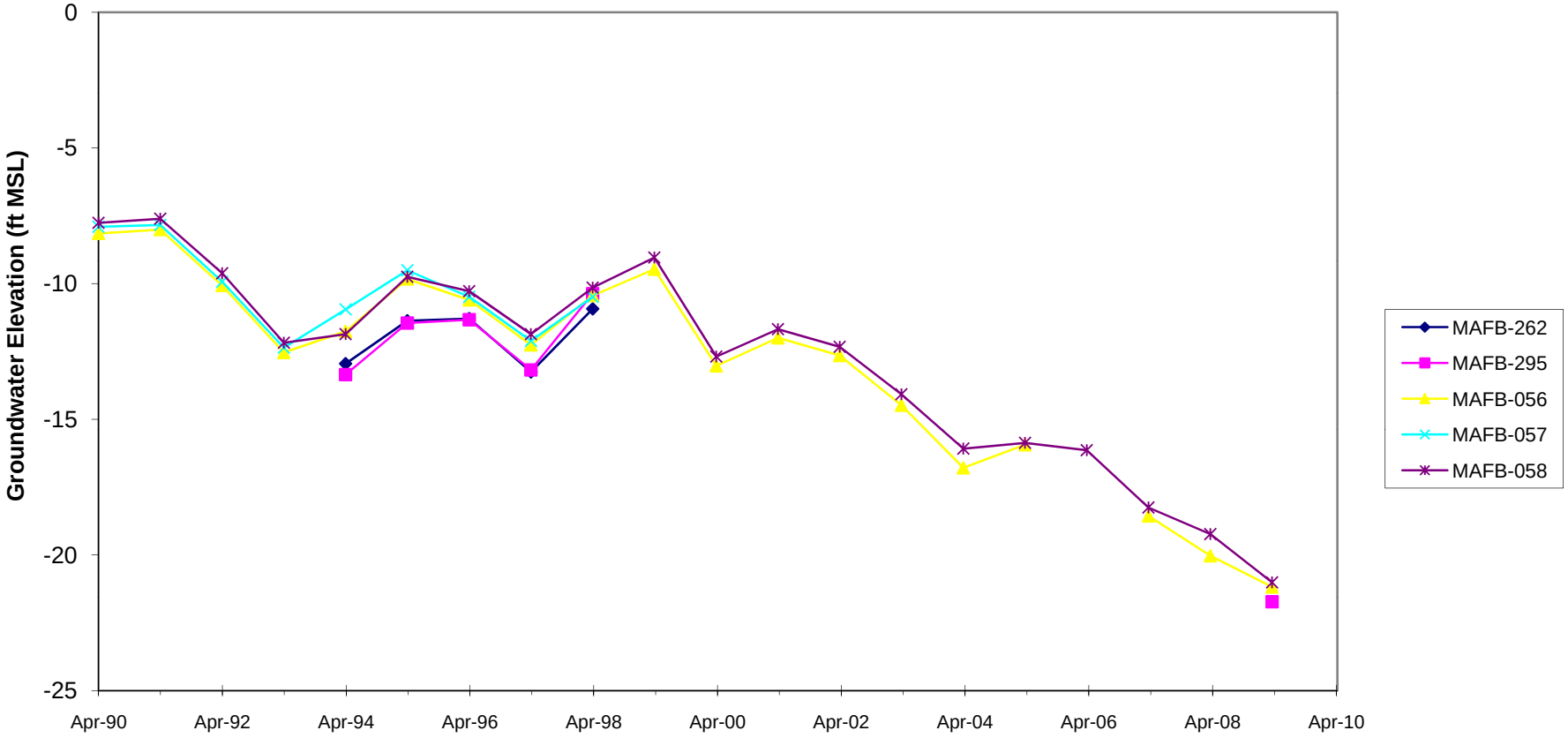
FIGURE 28



SITE 7 SECOND QUARTER GROUNDWATER ELEVATIONS 1990-2009

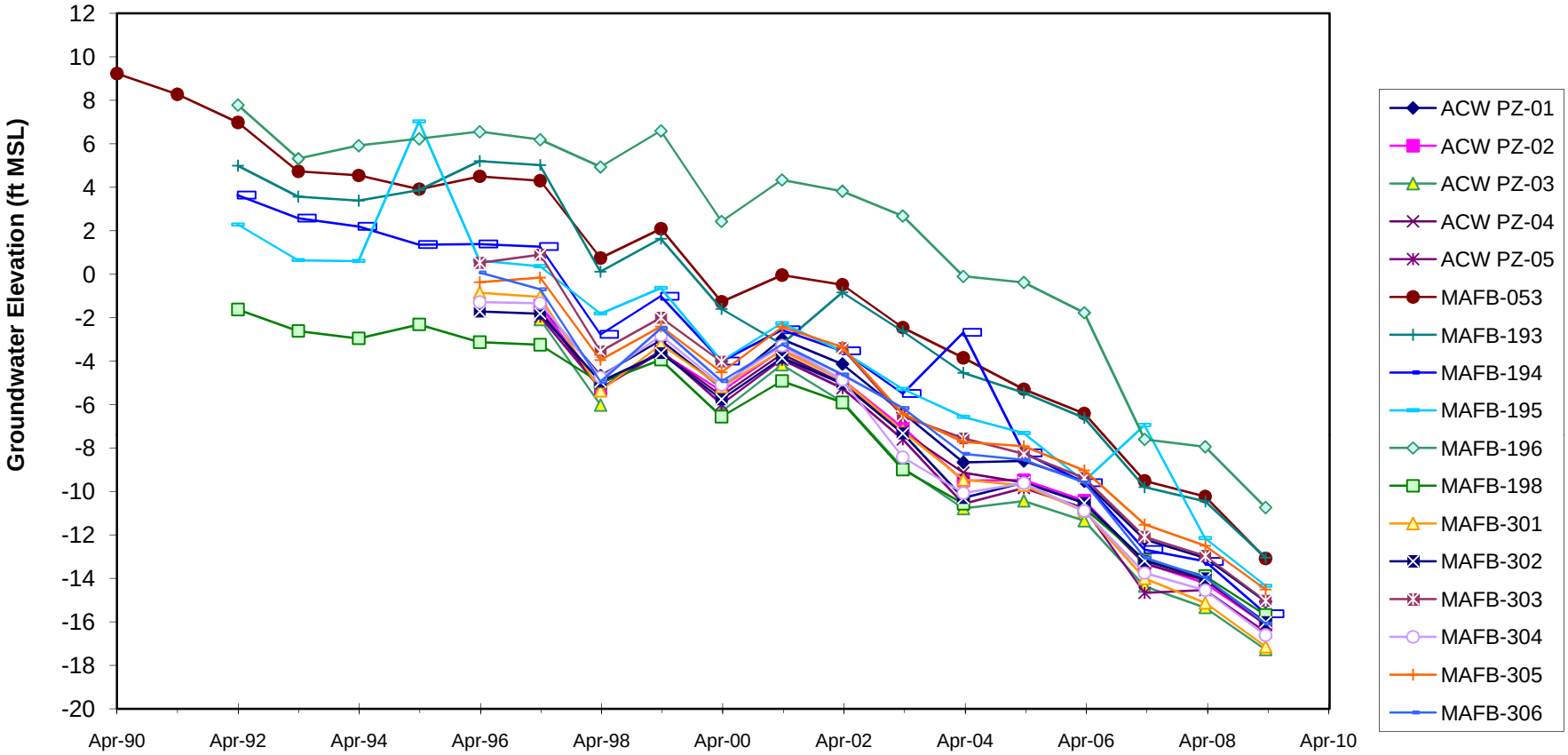
UNIT D

FIGURE 29



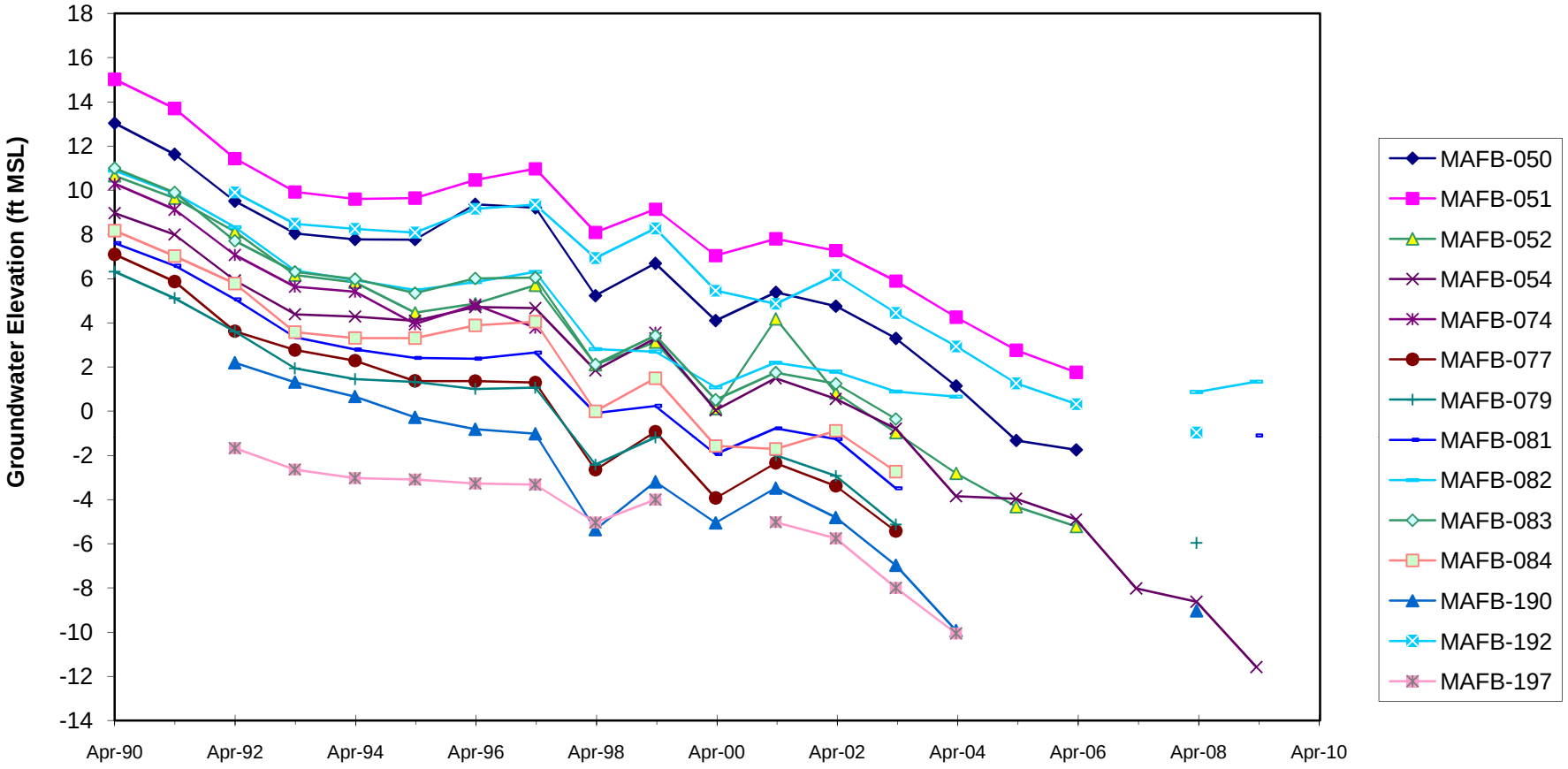
AC&W SECOND QUARTER
GROUNDWATER ELEVATIONS 1990-2009
UNIT C MONITORING WELLS

FIGURE 30



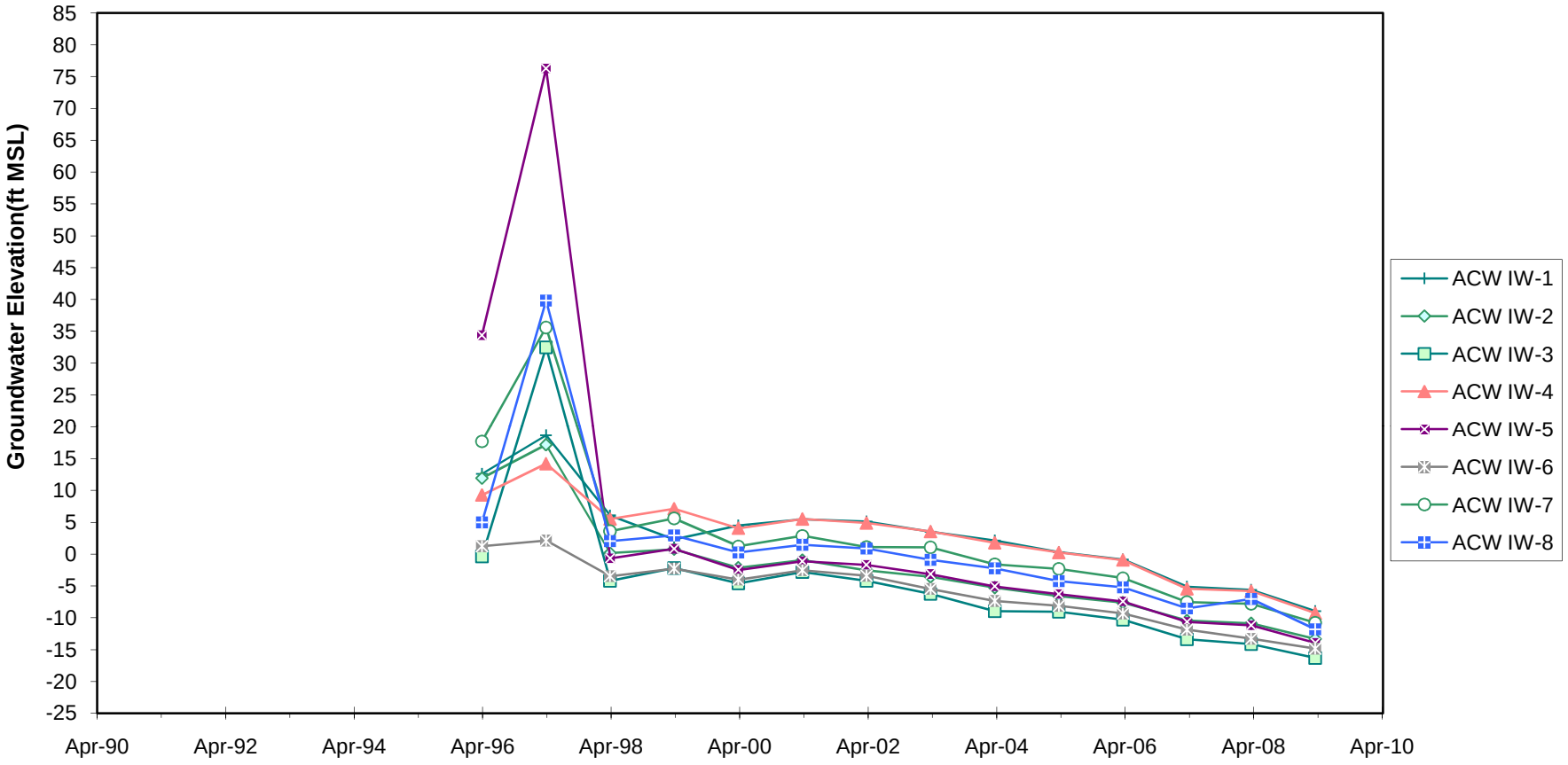
AC&W SECOND QUARTER
GROUNDWATER ELEVATIONS 1990-2009
WATER TABLE MONITORING WELLS

FIGURE 31



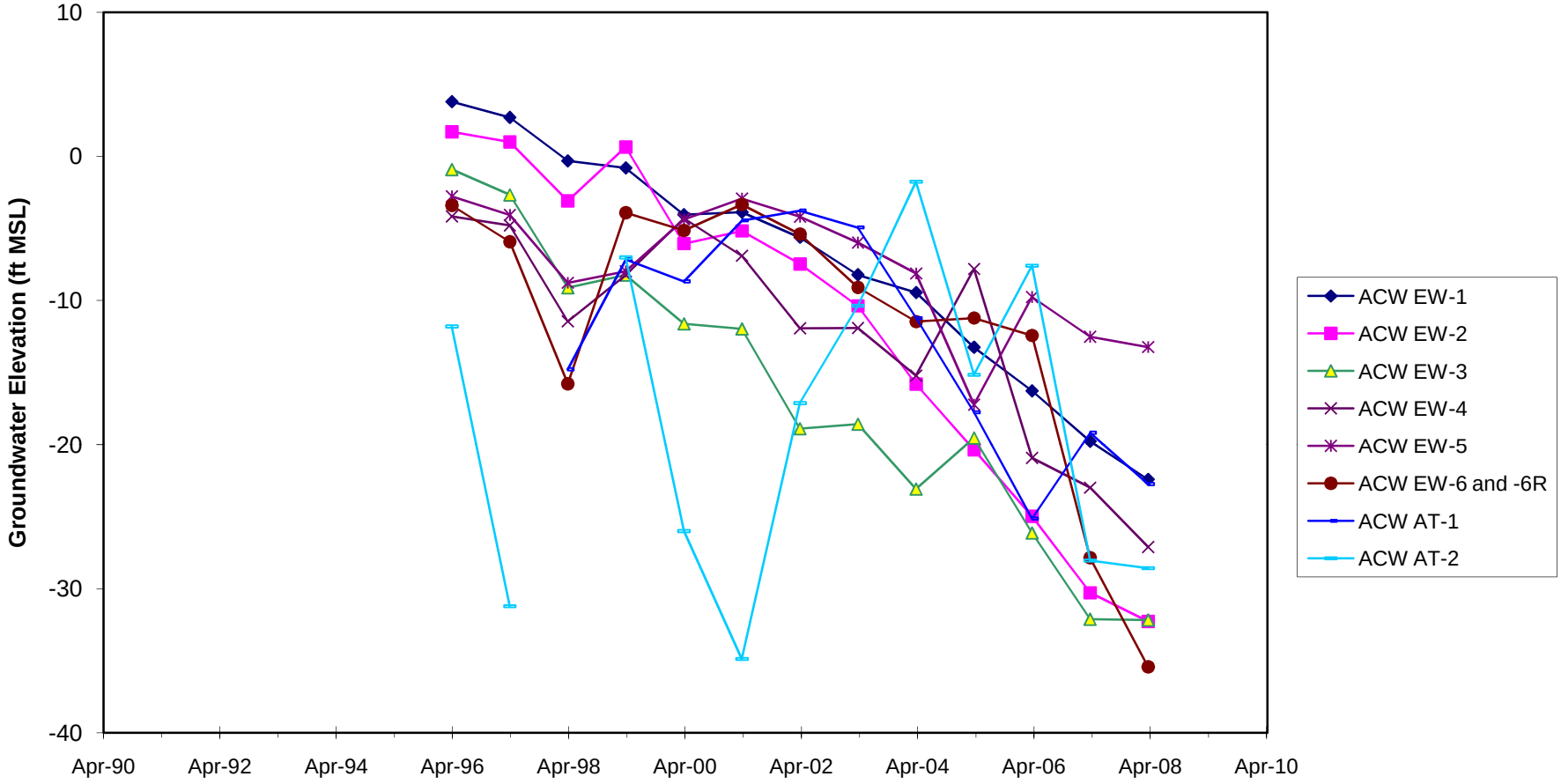
AC&W SECOND QUARTER
GROUNDWATER ELEVATIONS 1996-2009
INJECTION WELLS

FIGURE 32



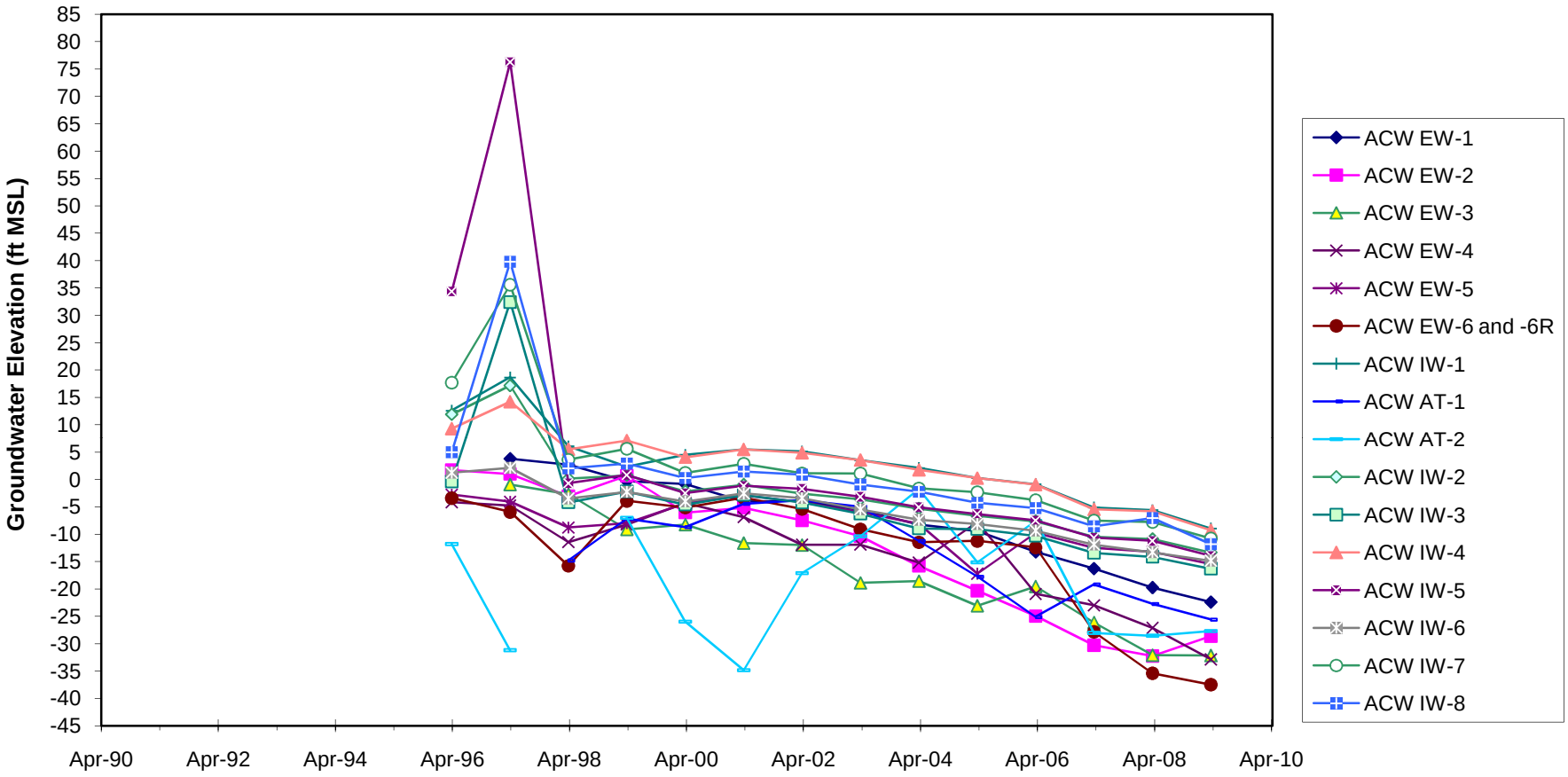
AC&W SECOND QUARTER
GROUNDWATER ELEVATIONS 1996-2009
EXTRACTION WELLS

FIGURE 33



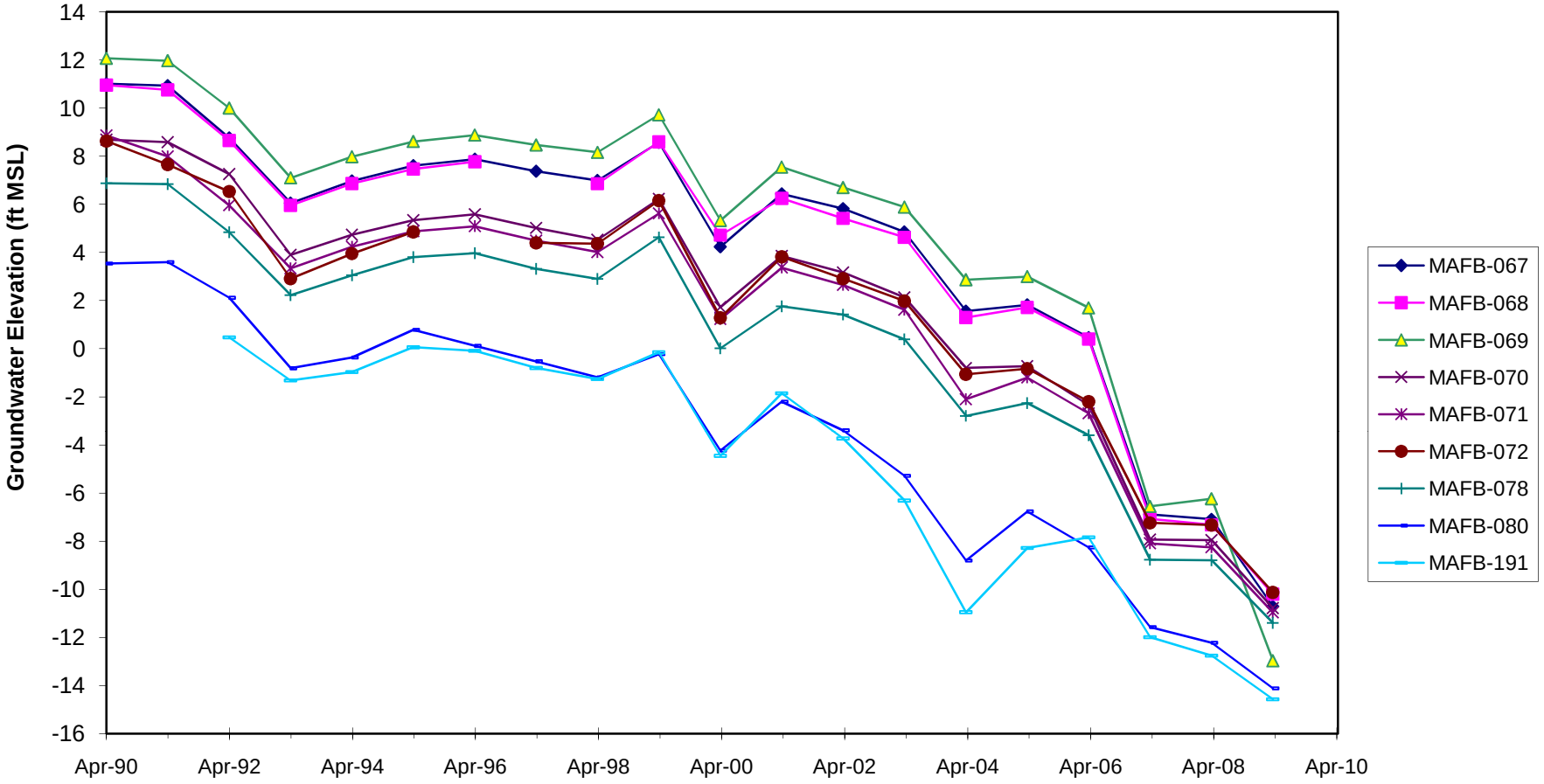
AC&W SECOND QUARTER
GROUNDWATER ELEVATIONS 1996-2009
EXTRACTION AND INJECTION WELLS

FIGURE 34



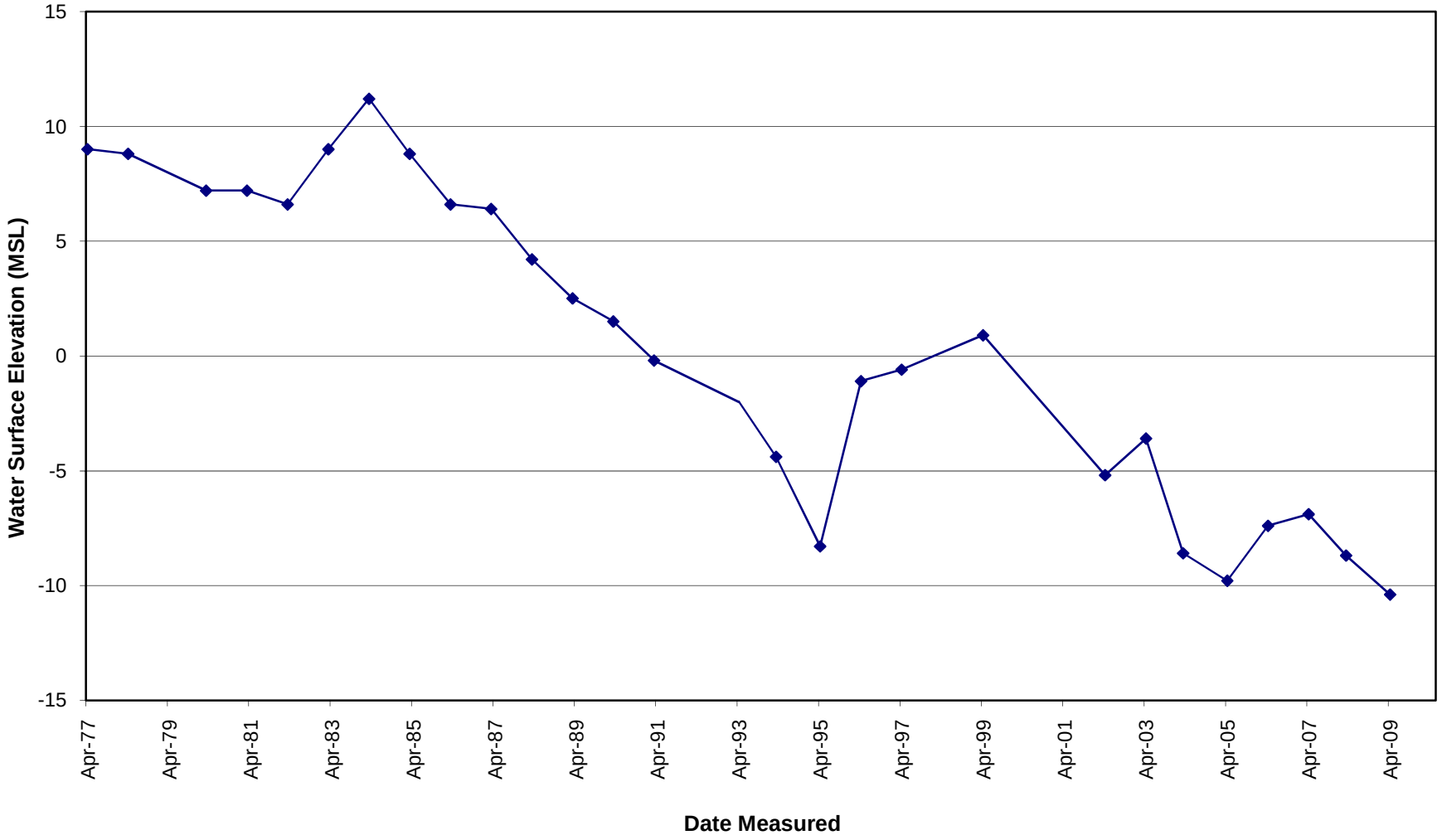
AC&W SECOND QUARTER
GROUNDWATER ELEVATIONS 1990-2009
UNIT D MONITORING WELLS

FIGURE 35



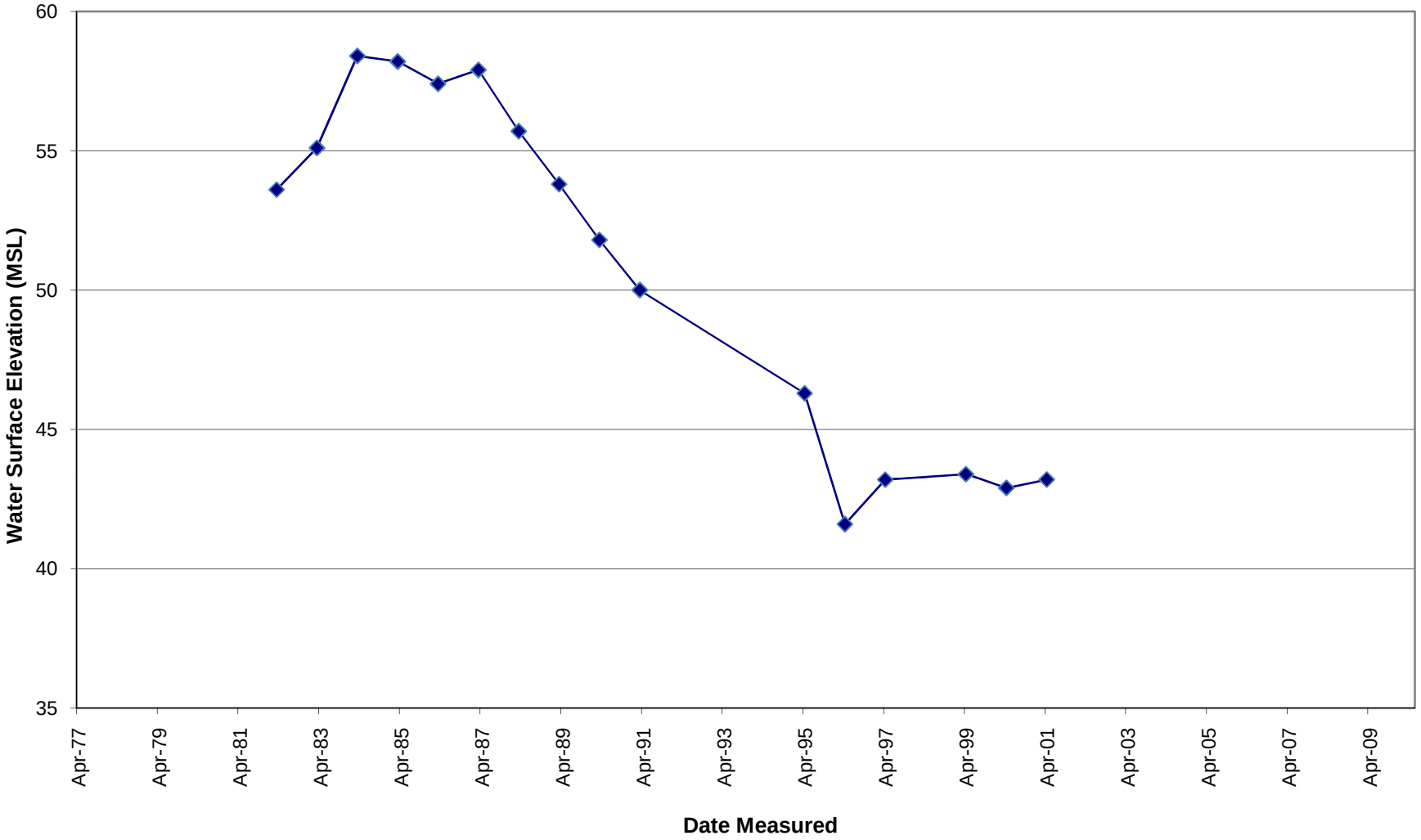
08N06E09Q004M

Figure 36



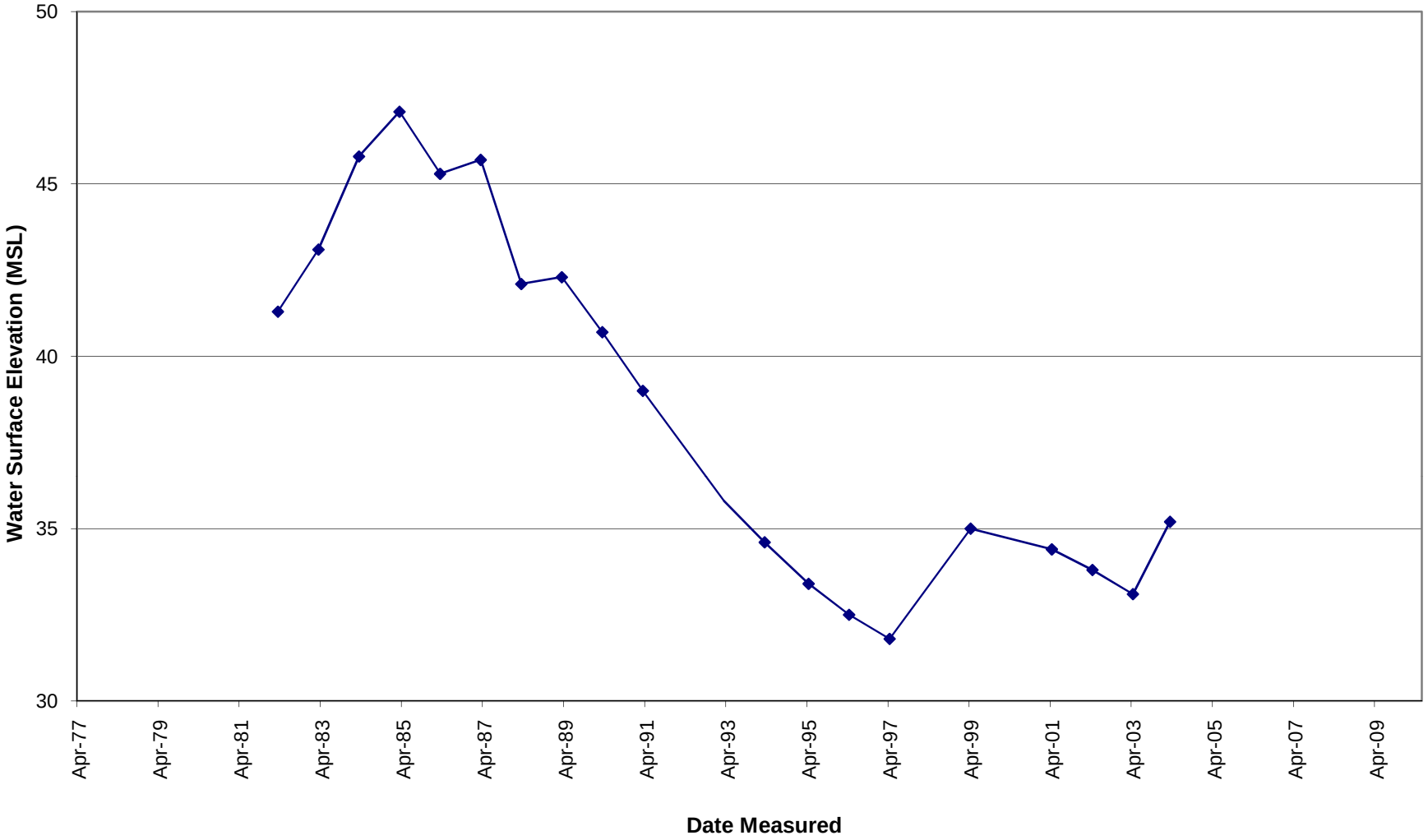
08N07E08R001M

FIGURE 37



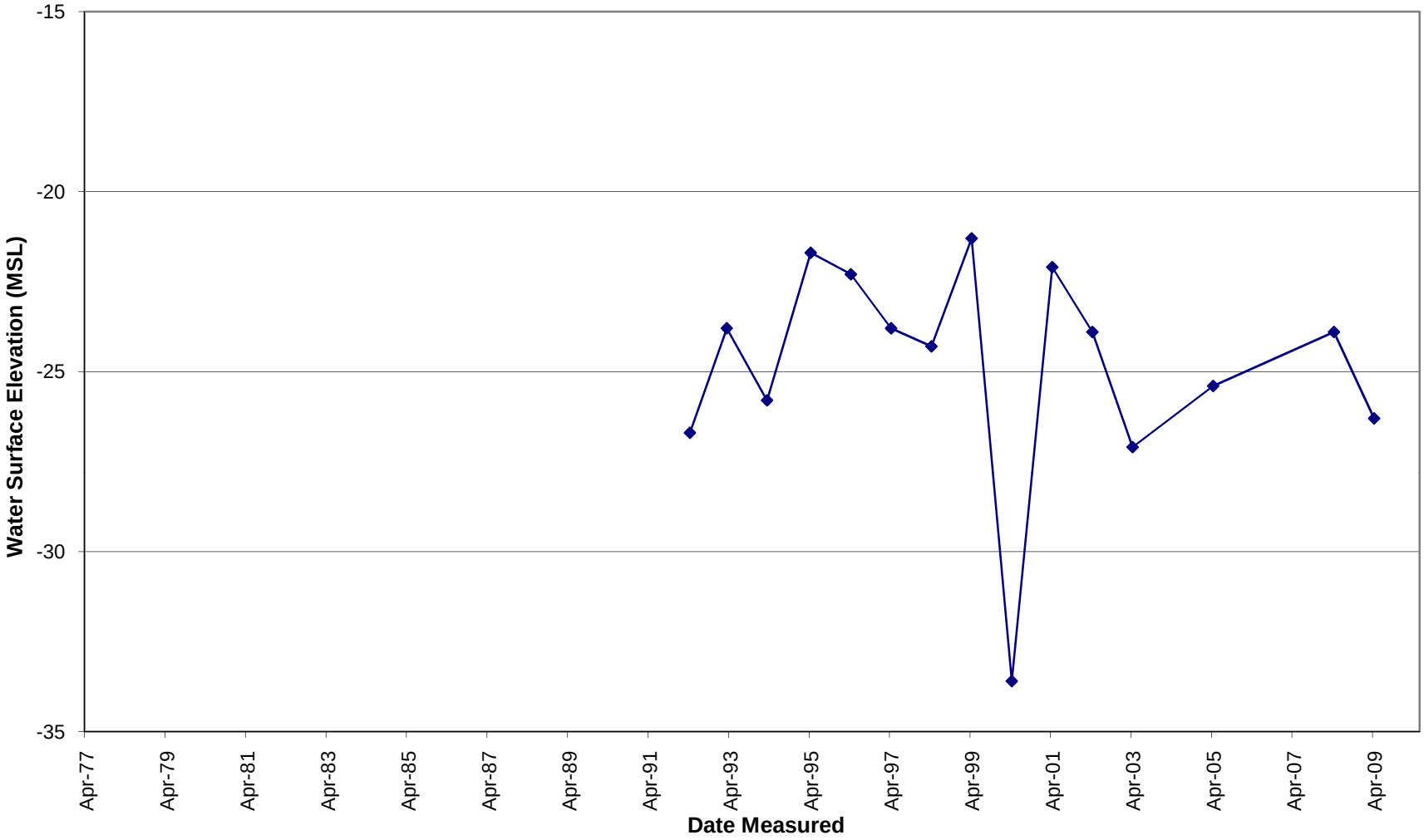
08N07E20J001M

FIGURE38



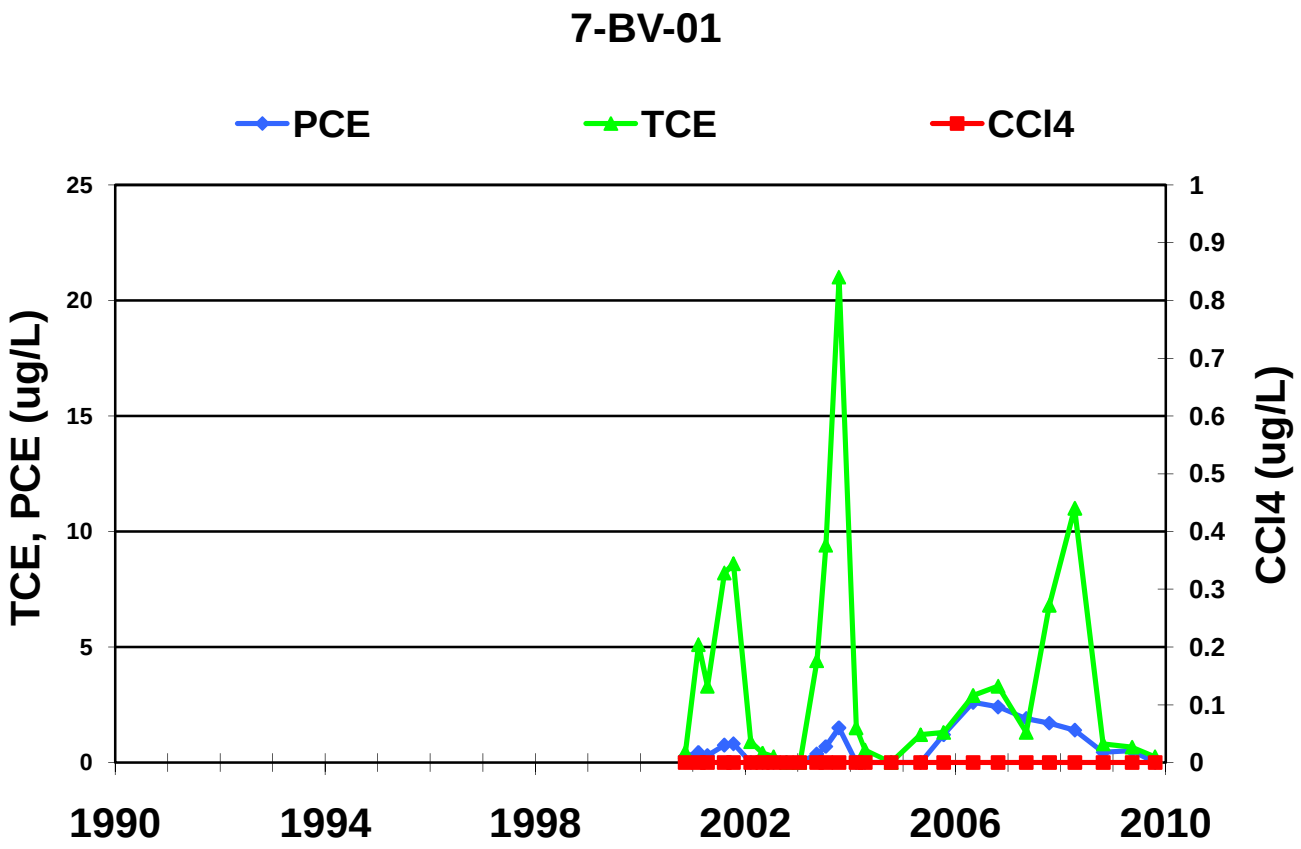
08N06E20R001M

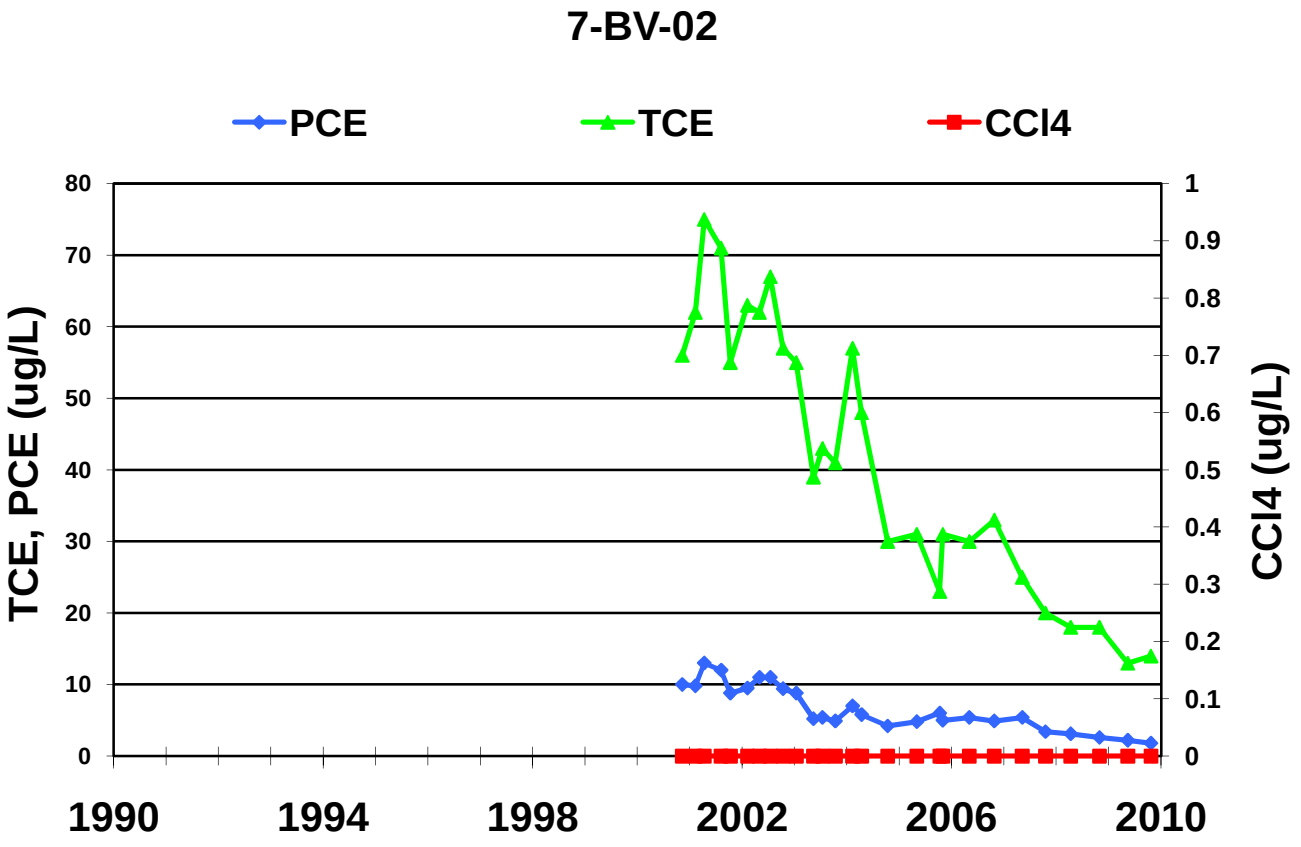
FIGURE 39

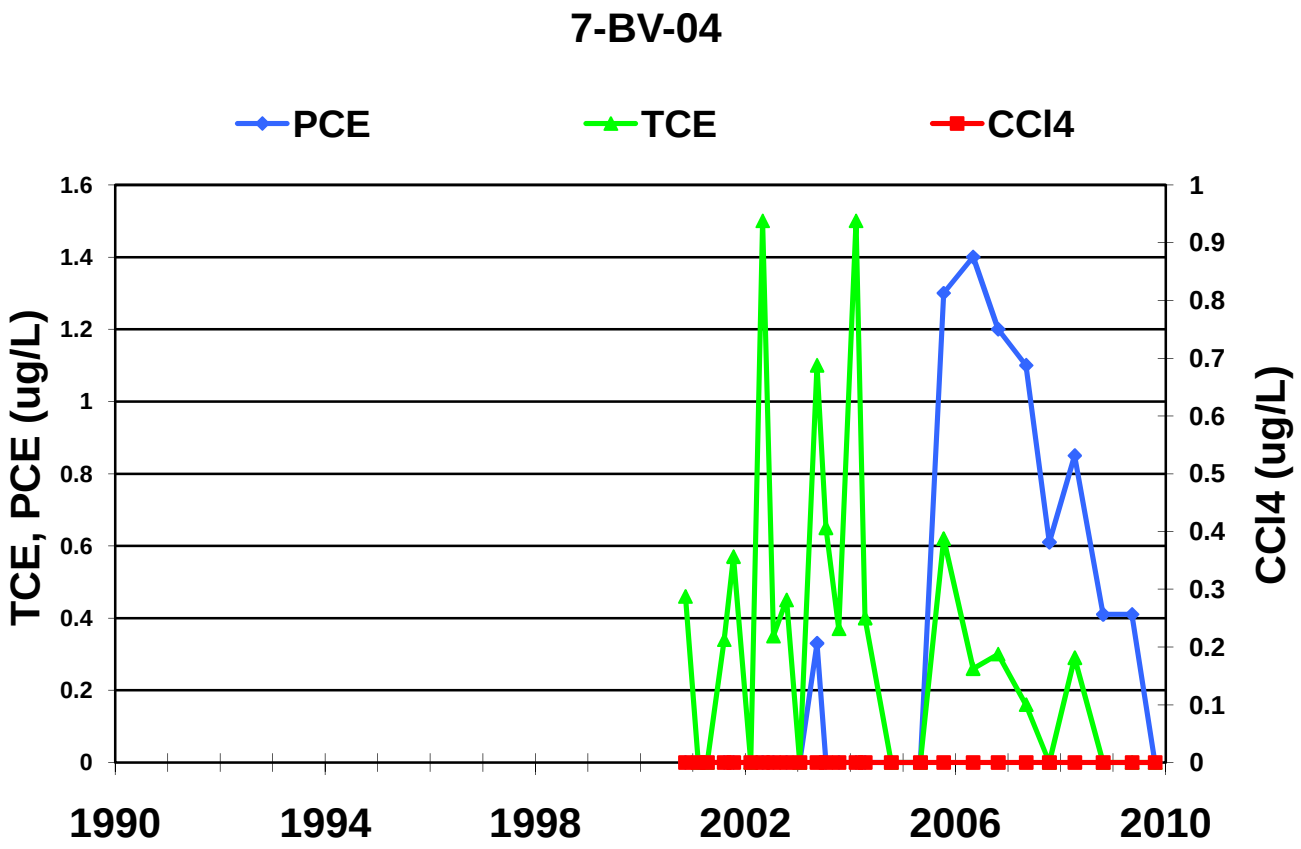


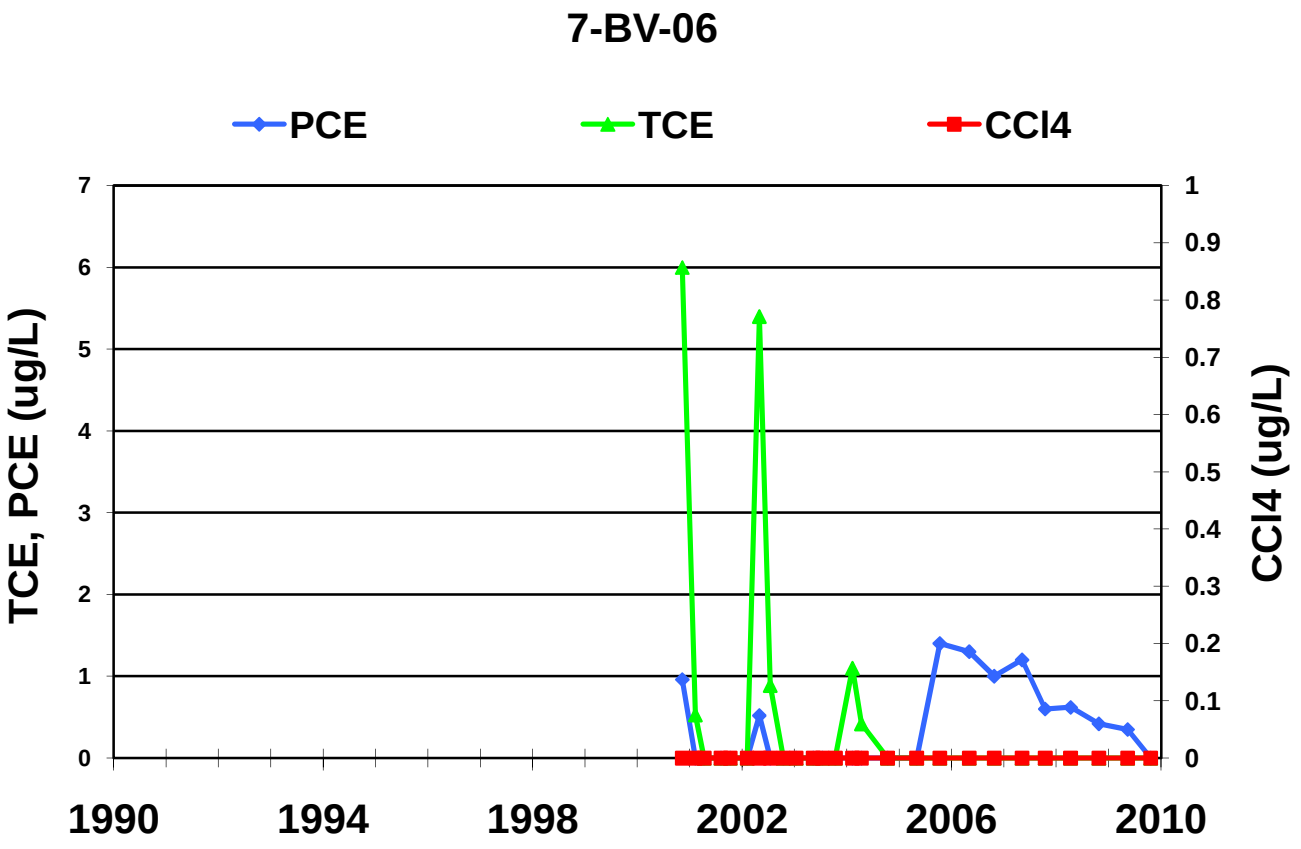
APPENDIX C

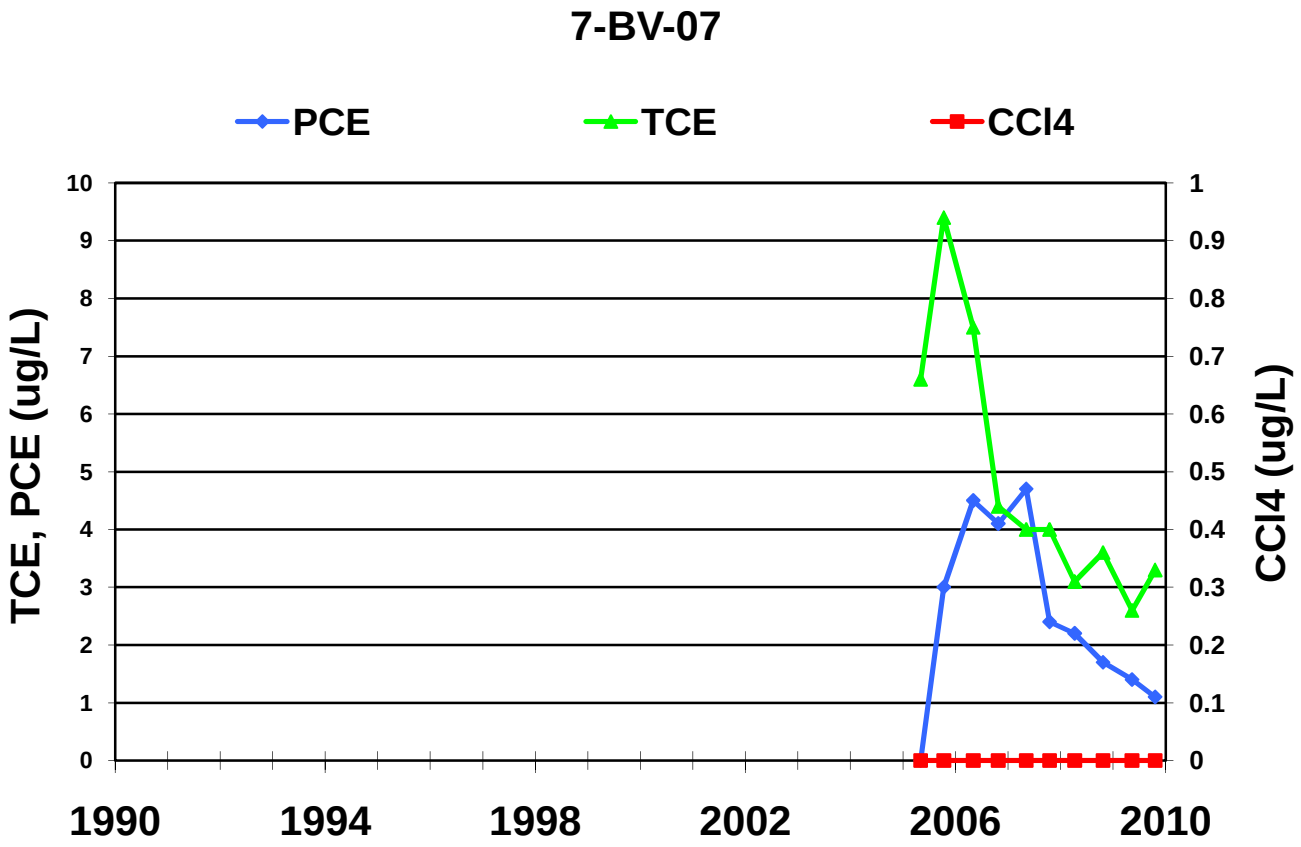
PCE, TCE, AND CCl_4 CONCENTRATION TREND PLOTS

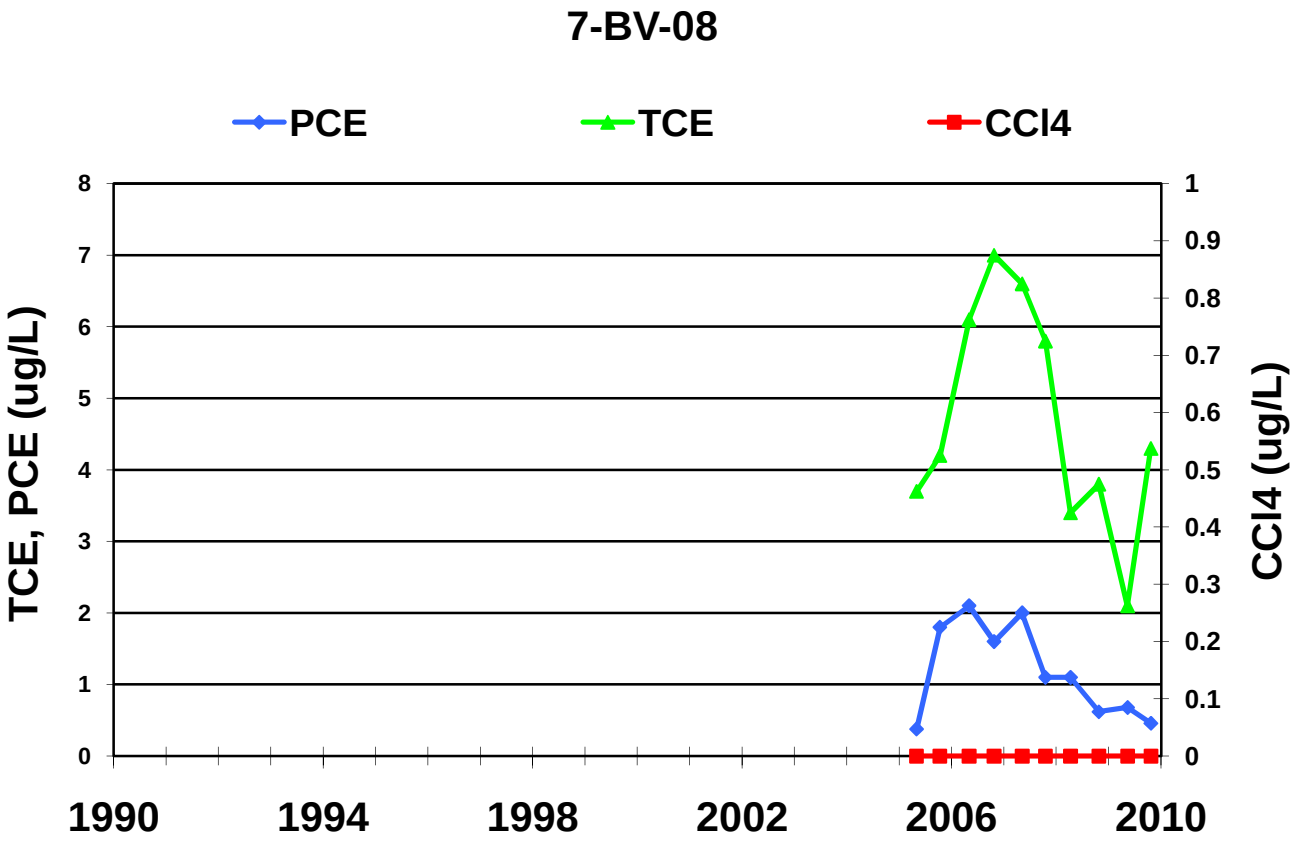

7-BV-01
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

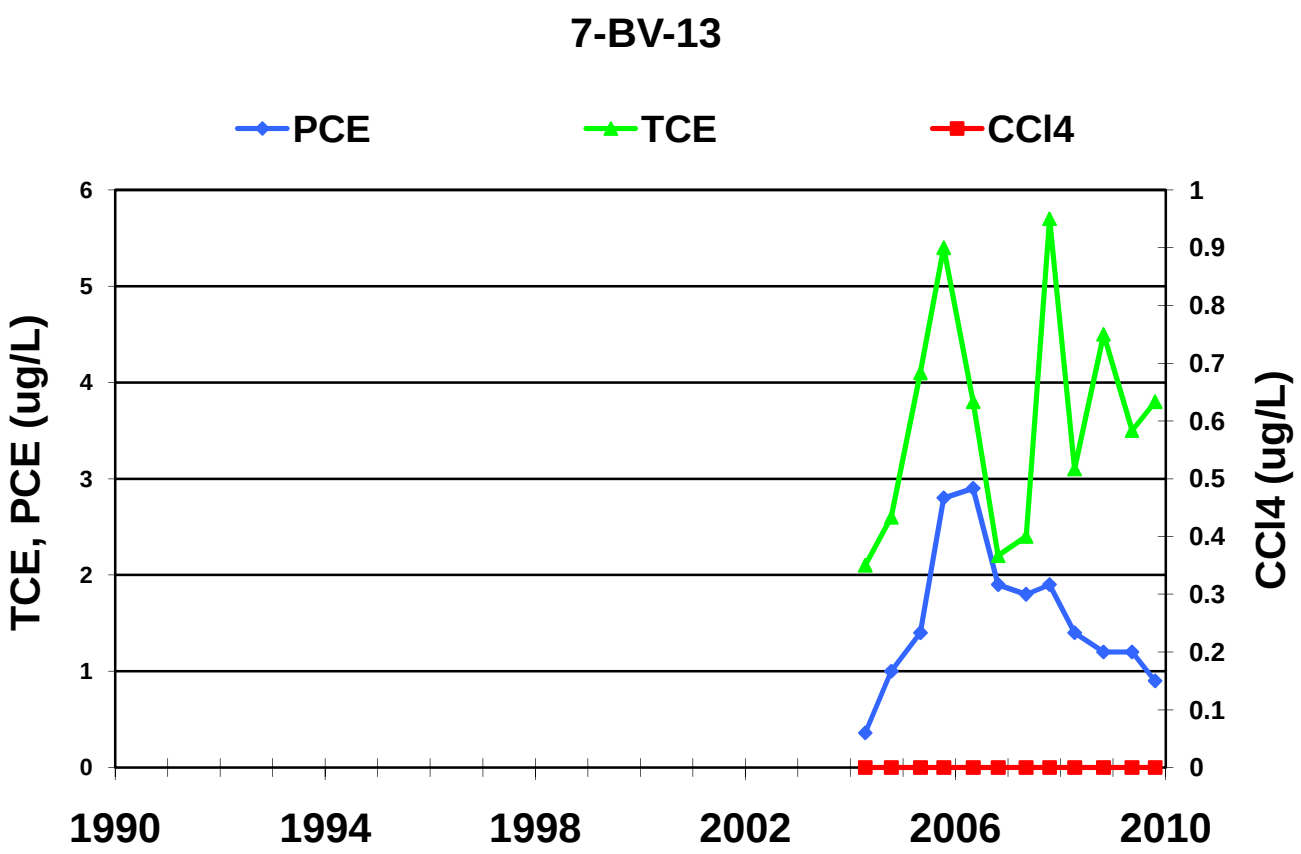

7-BV-02
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

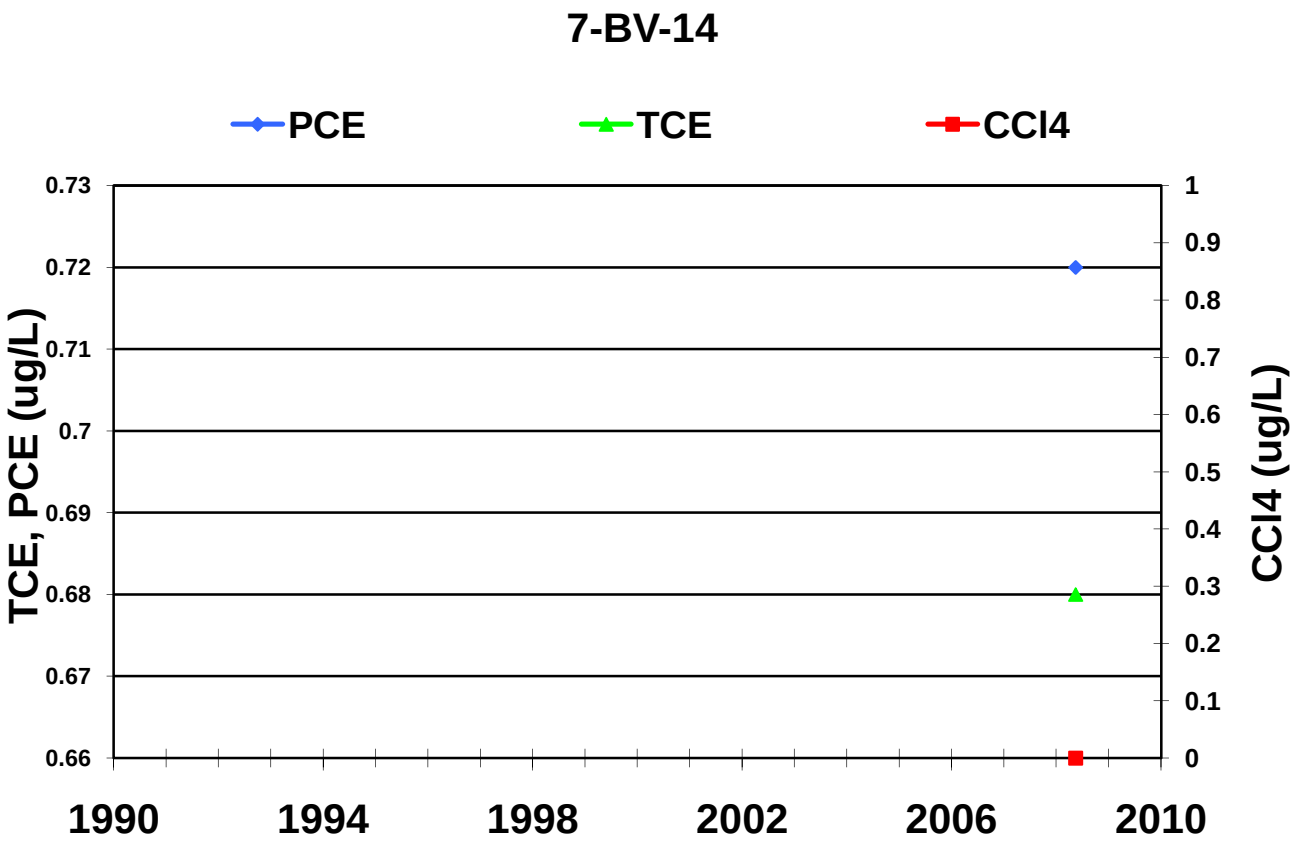

7-BV-04
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

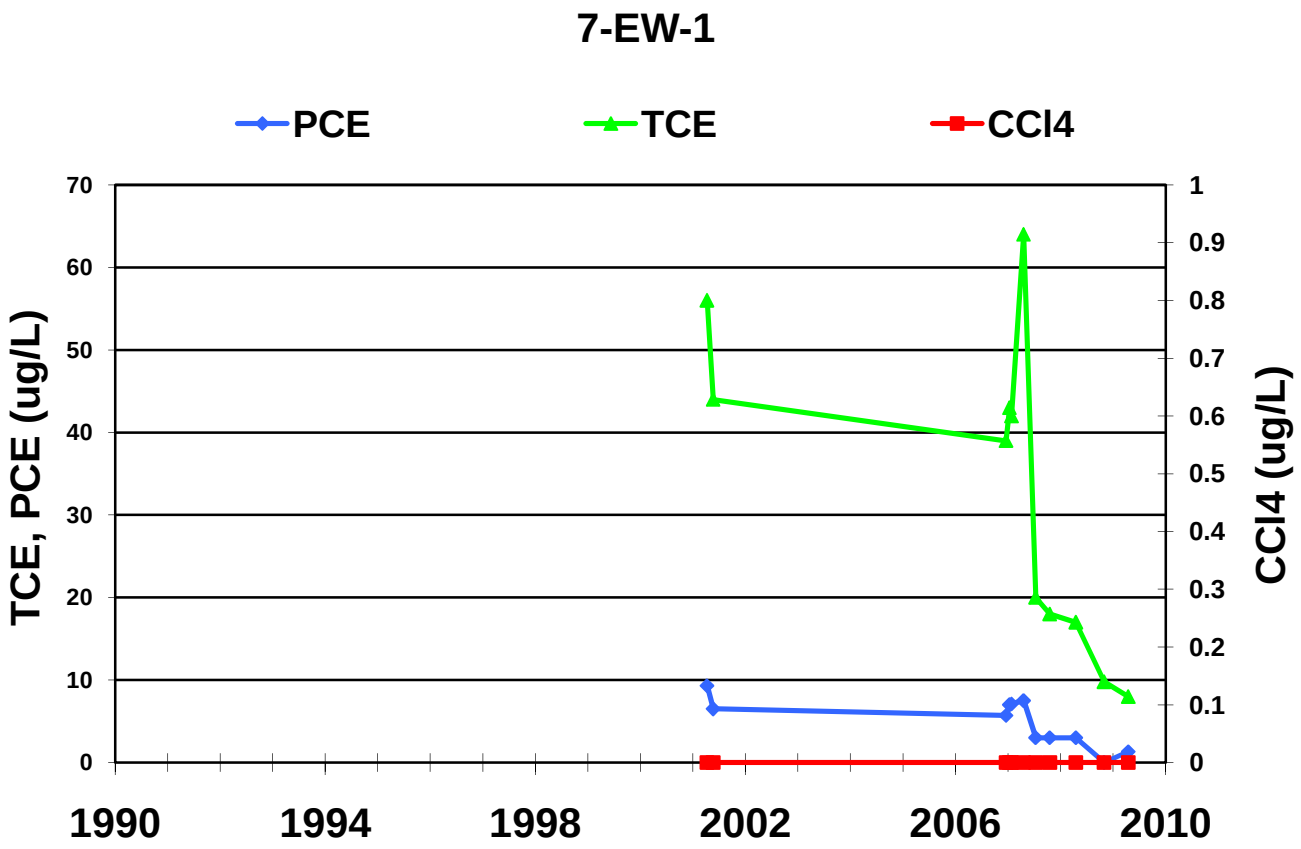

7-BV-06
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

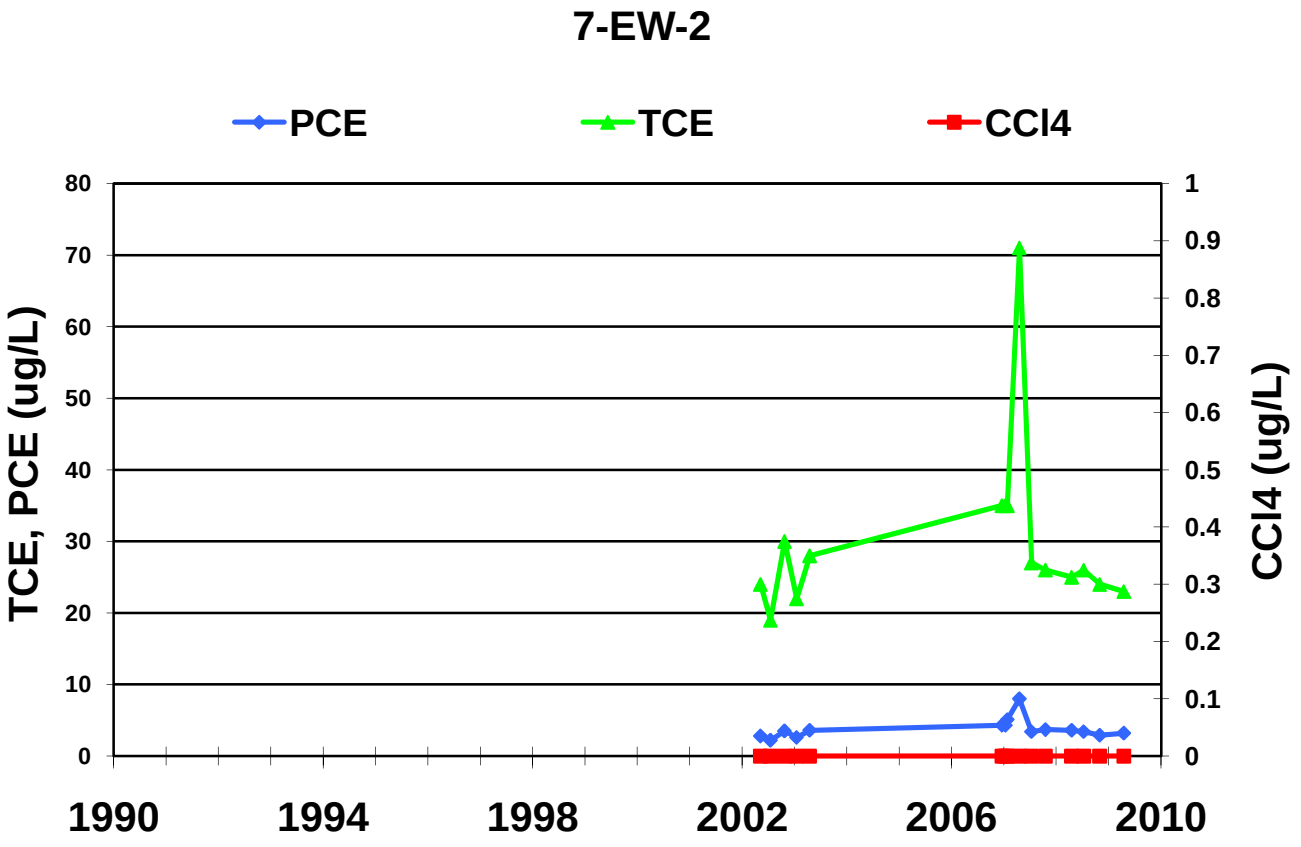

7-BV-07
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

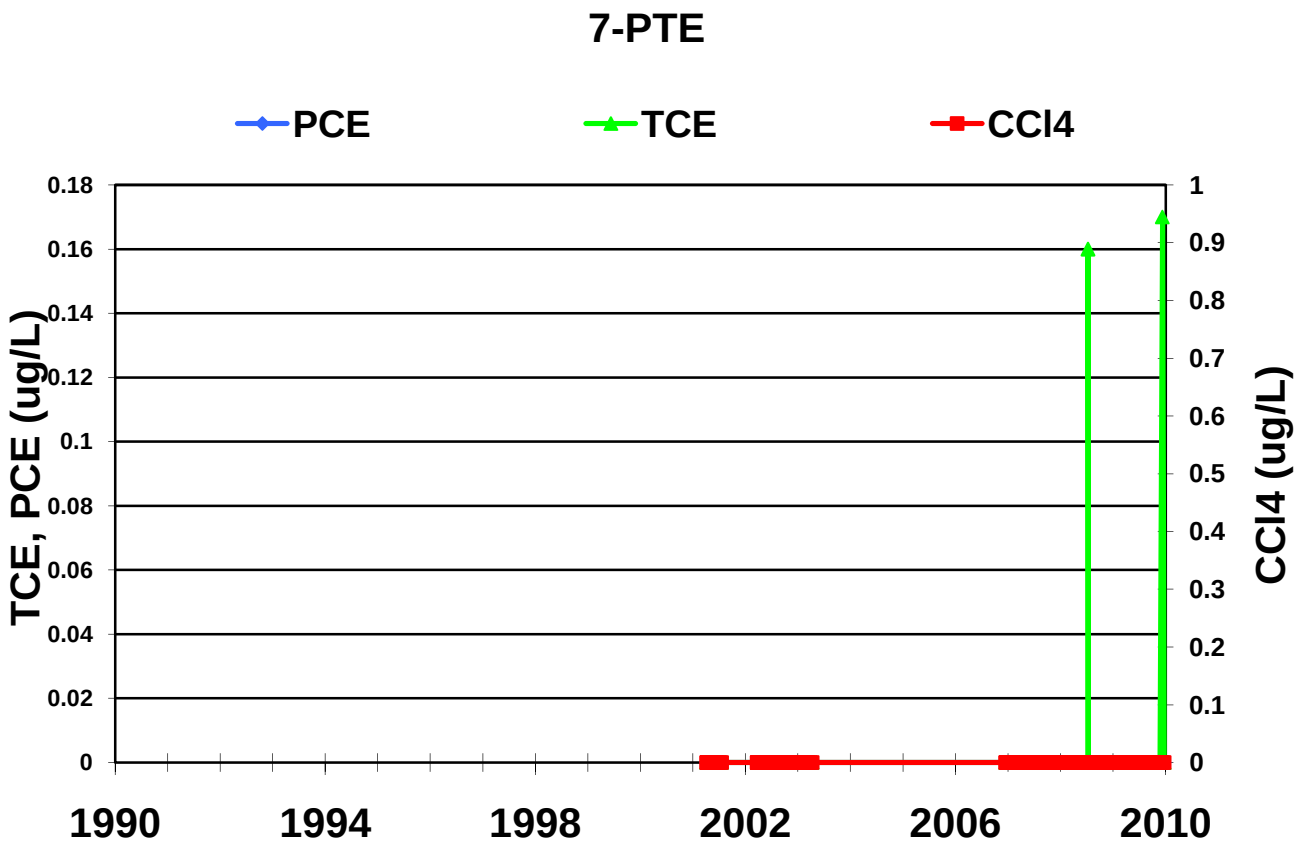

7-BV-08
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

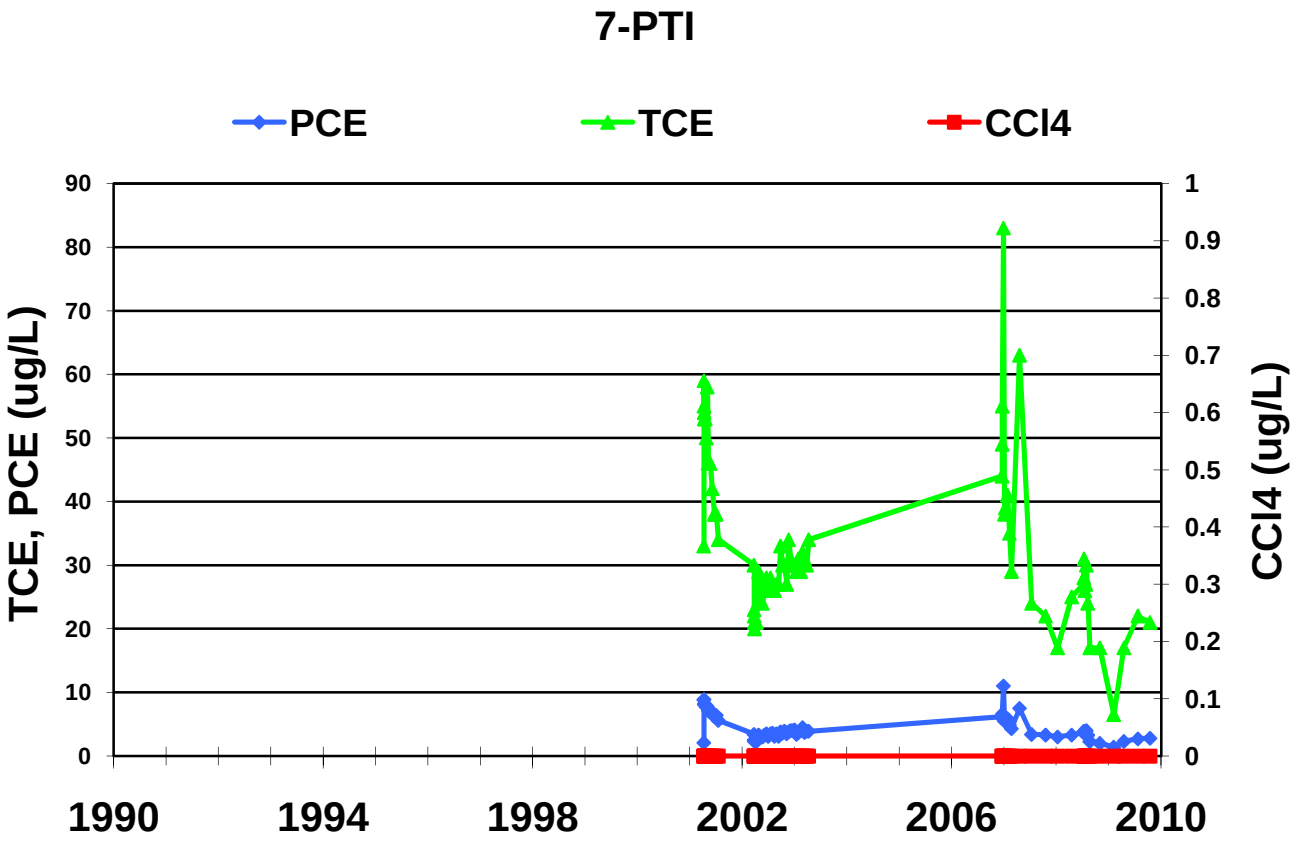

7-BV-13
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

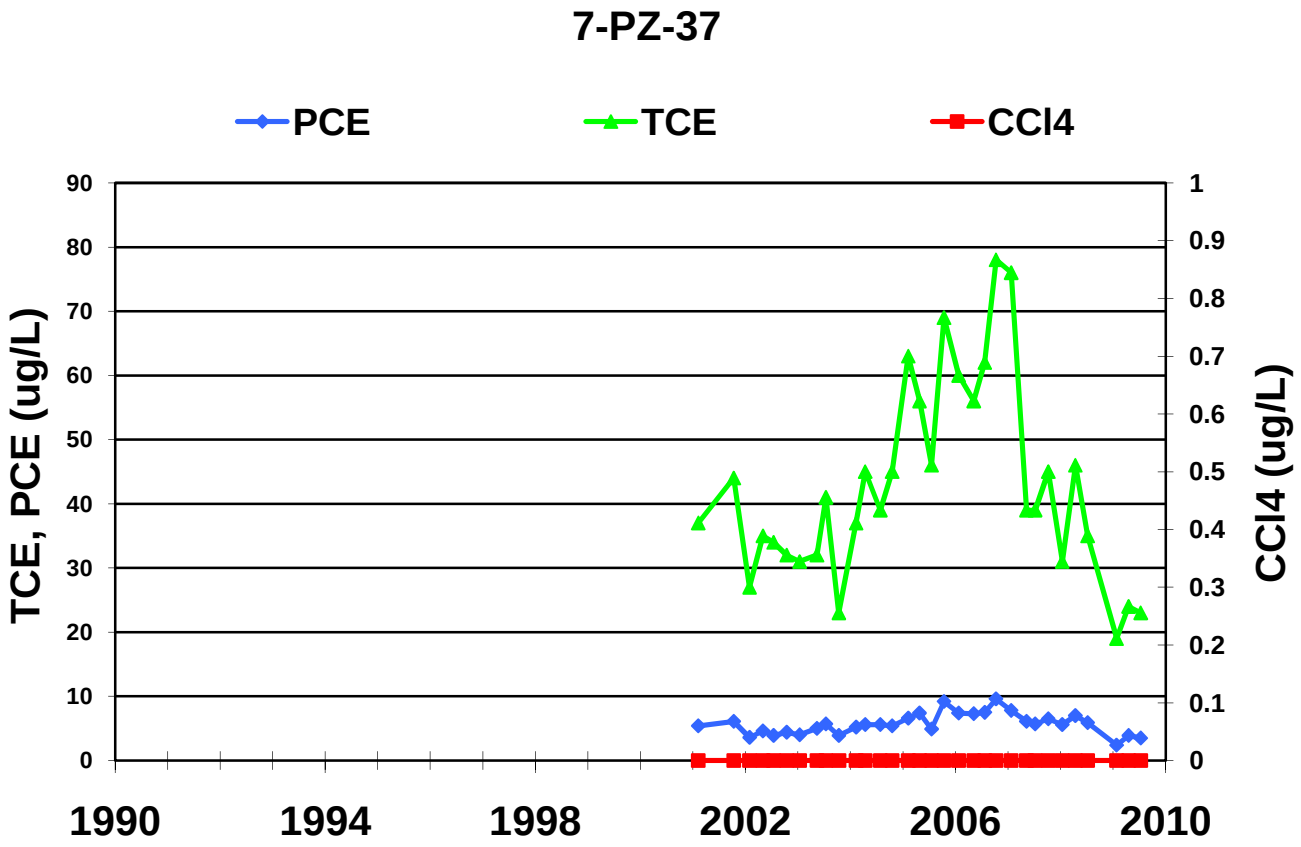

7-BV-14
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.66
0.67
0.68
0.69
0.7
0.71
0.72
0.73
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

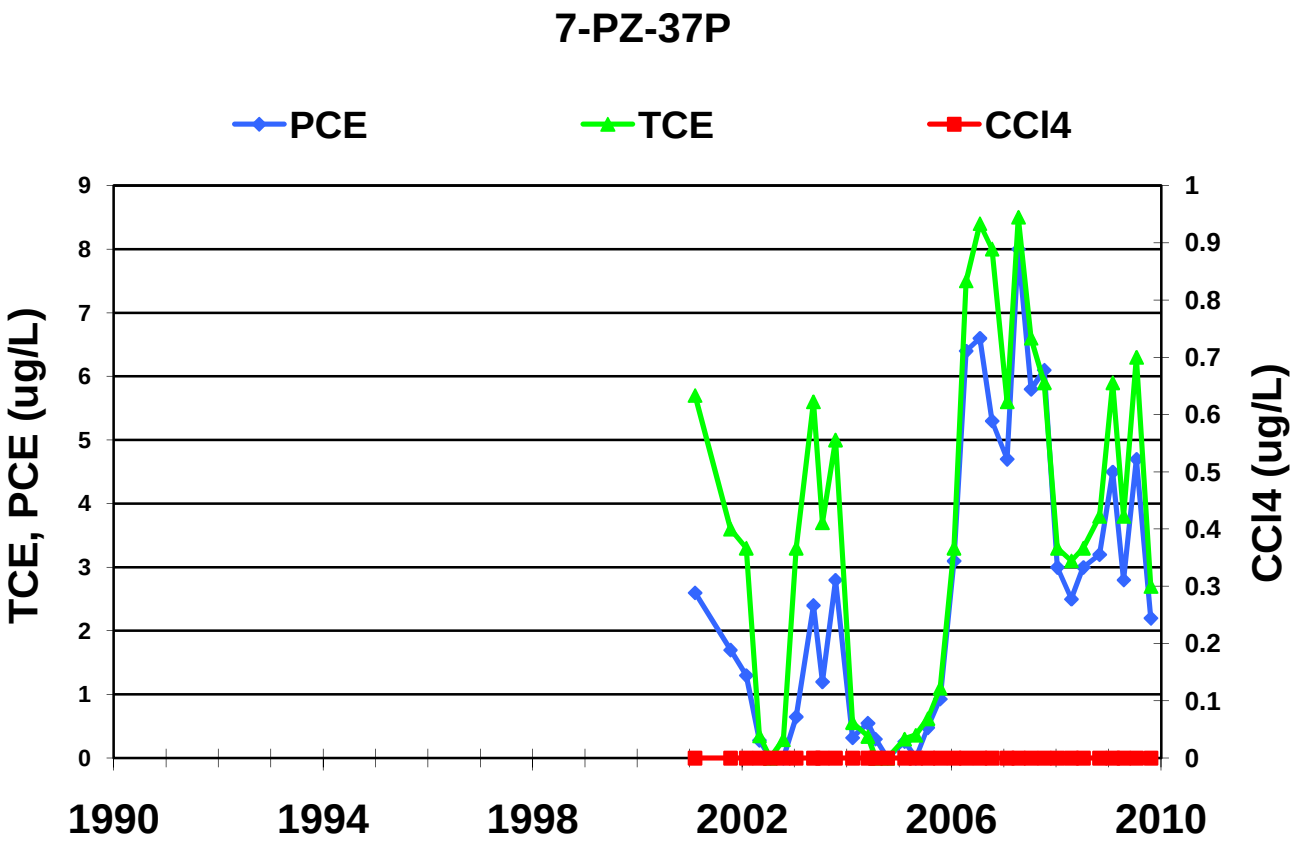

7-EW-1
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

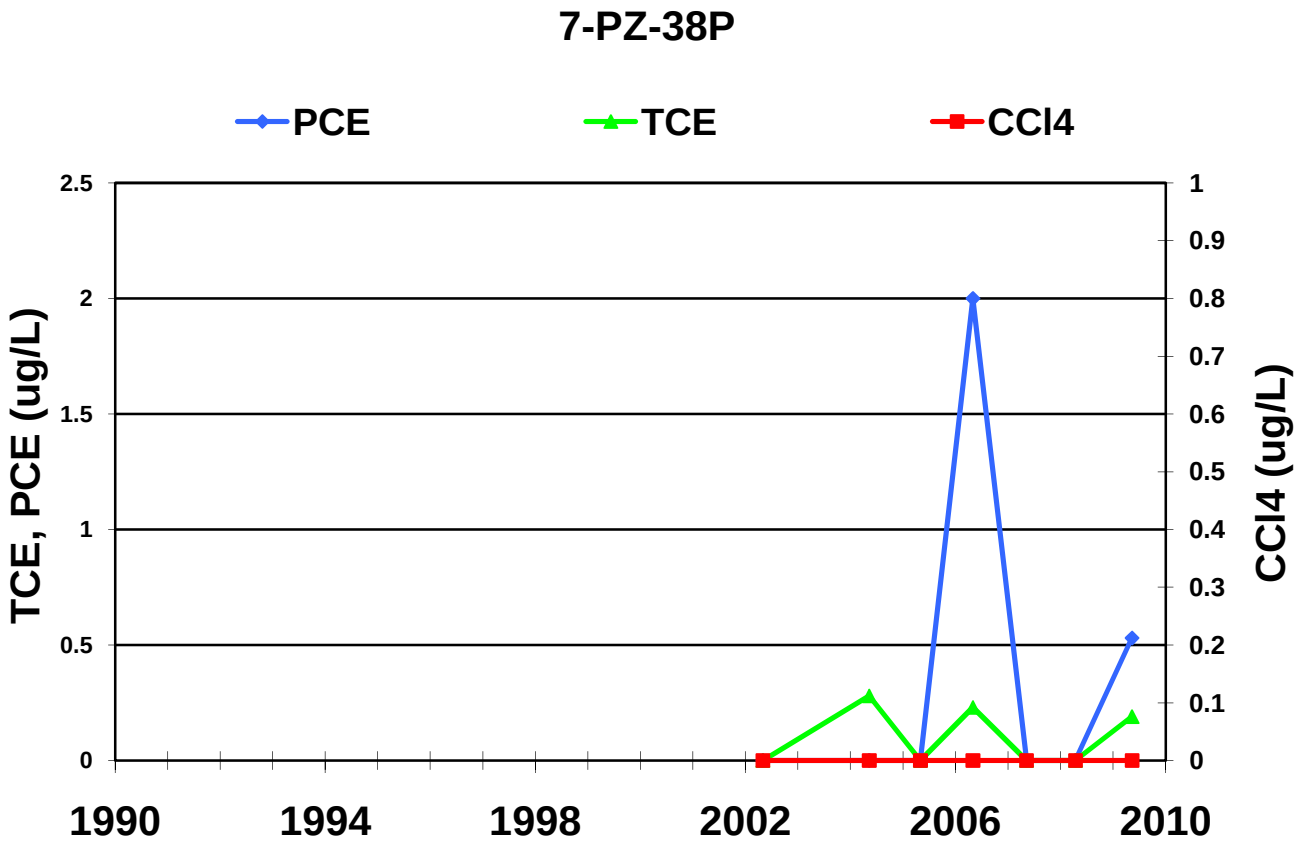

7-EW-2
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

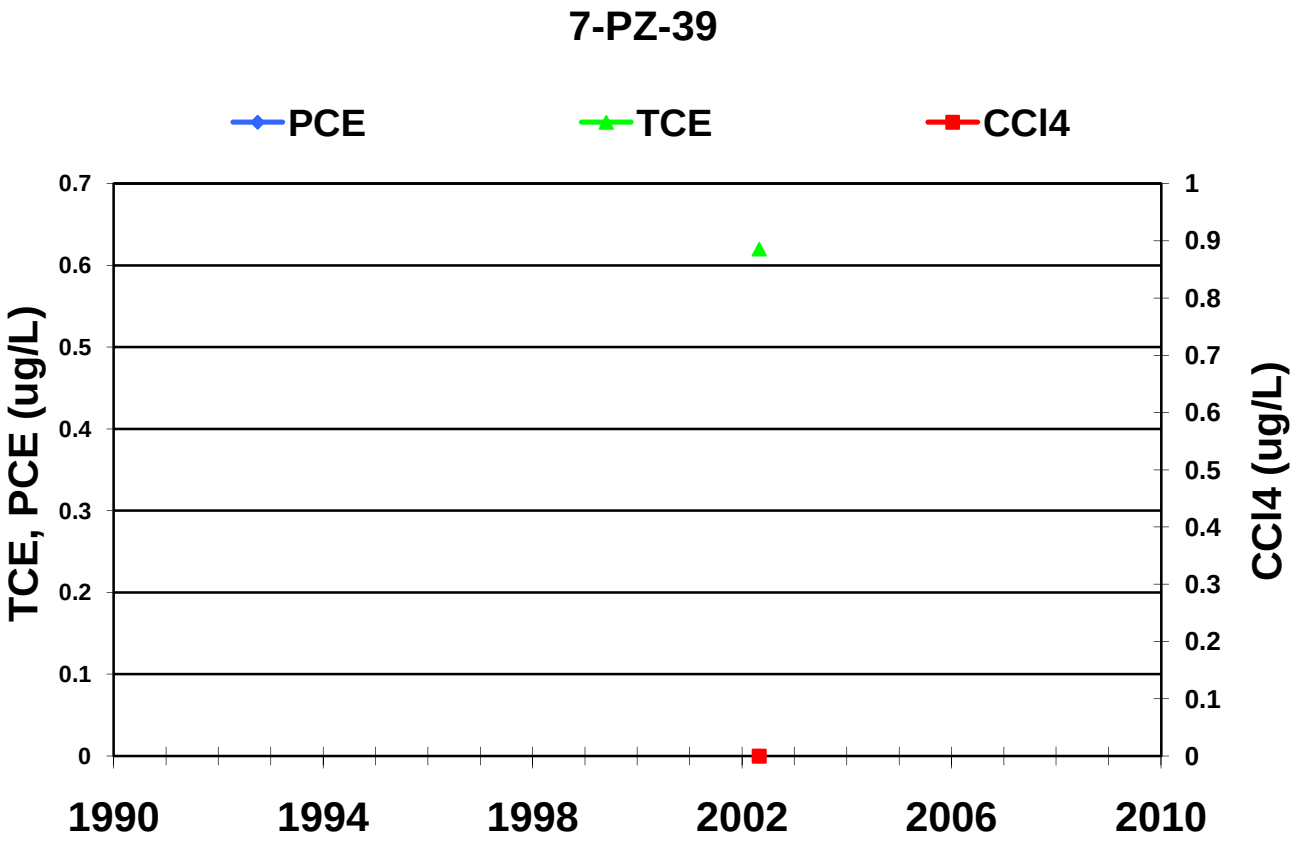

7-PTE
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

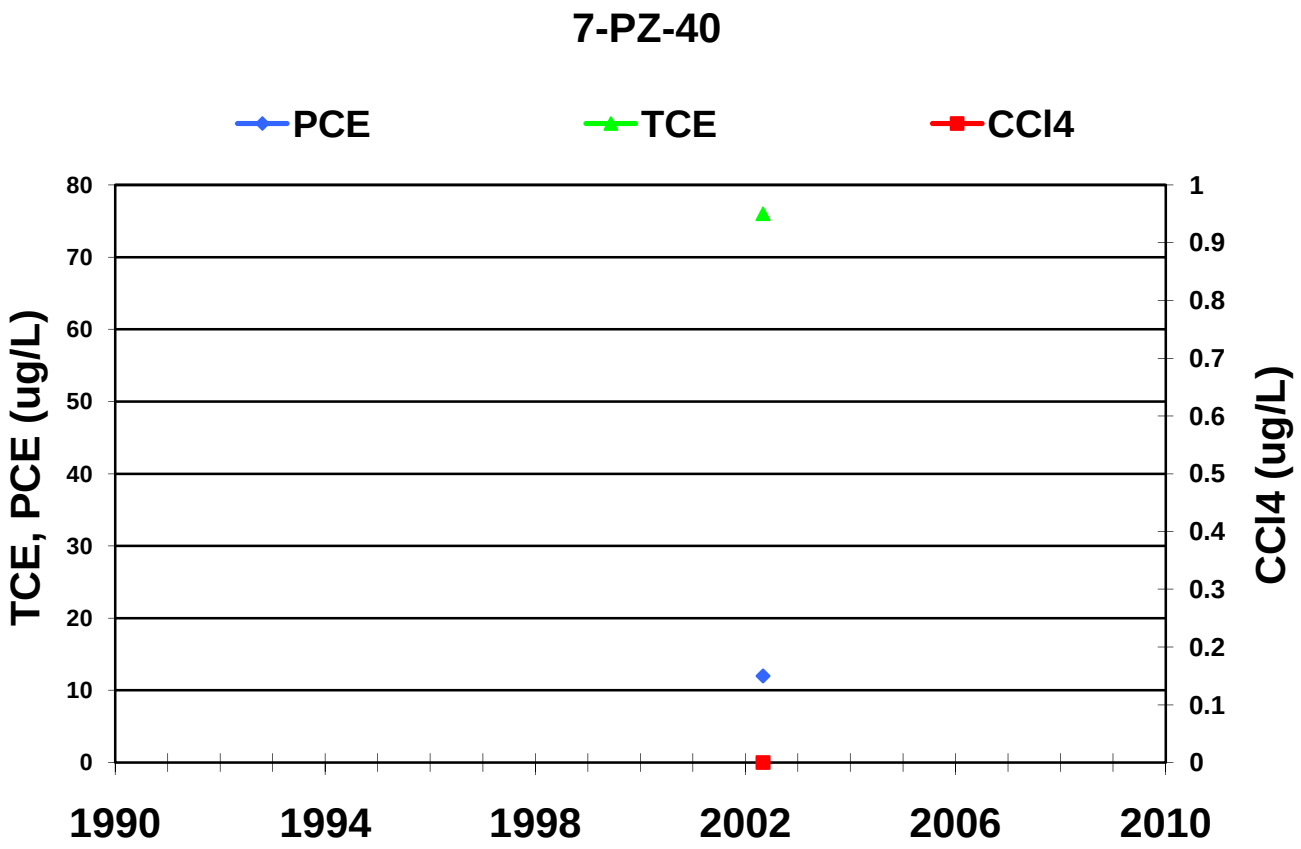

7-PTI
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

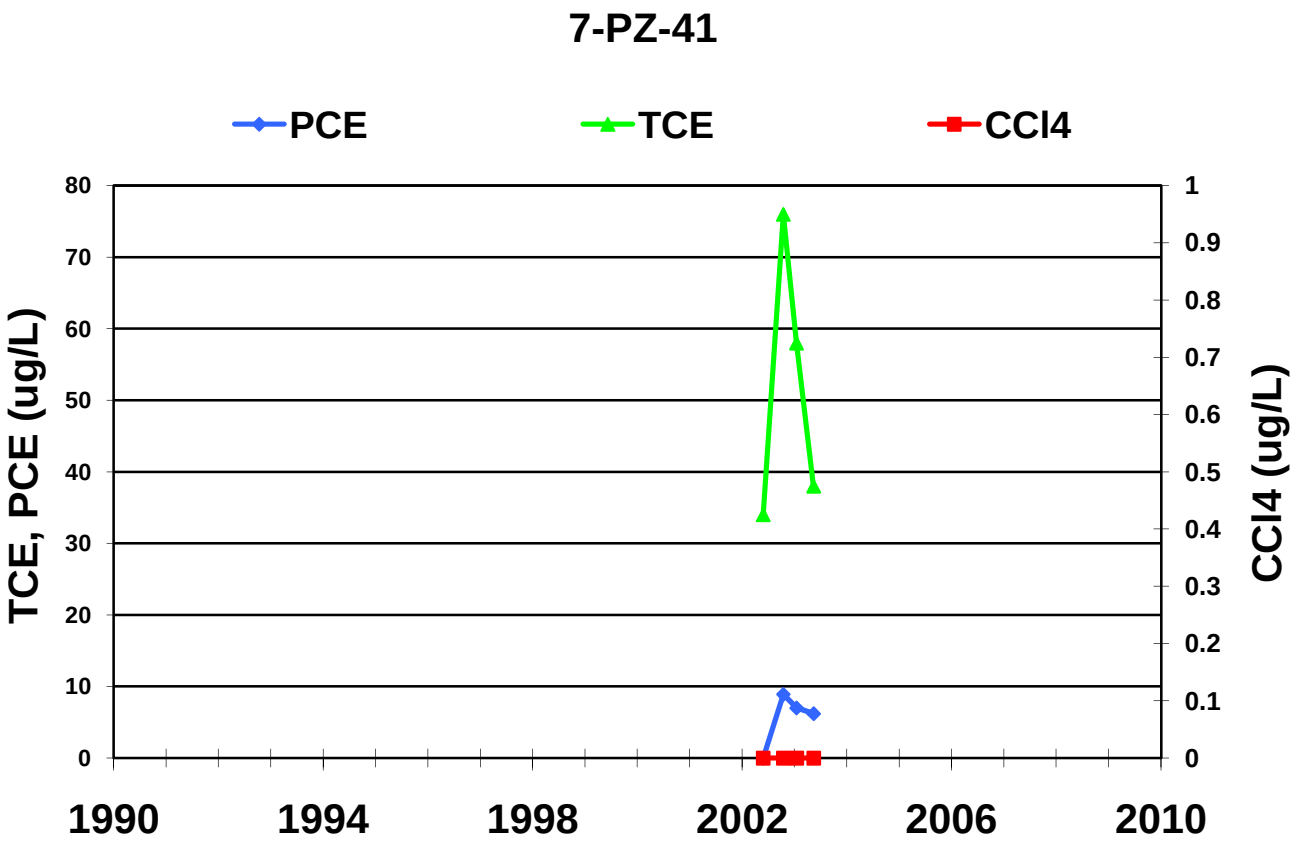

7-PZ-37
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

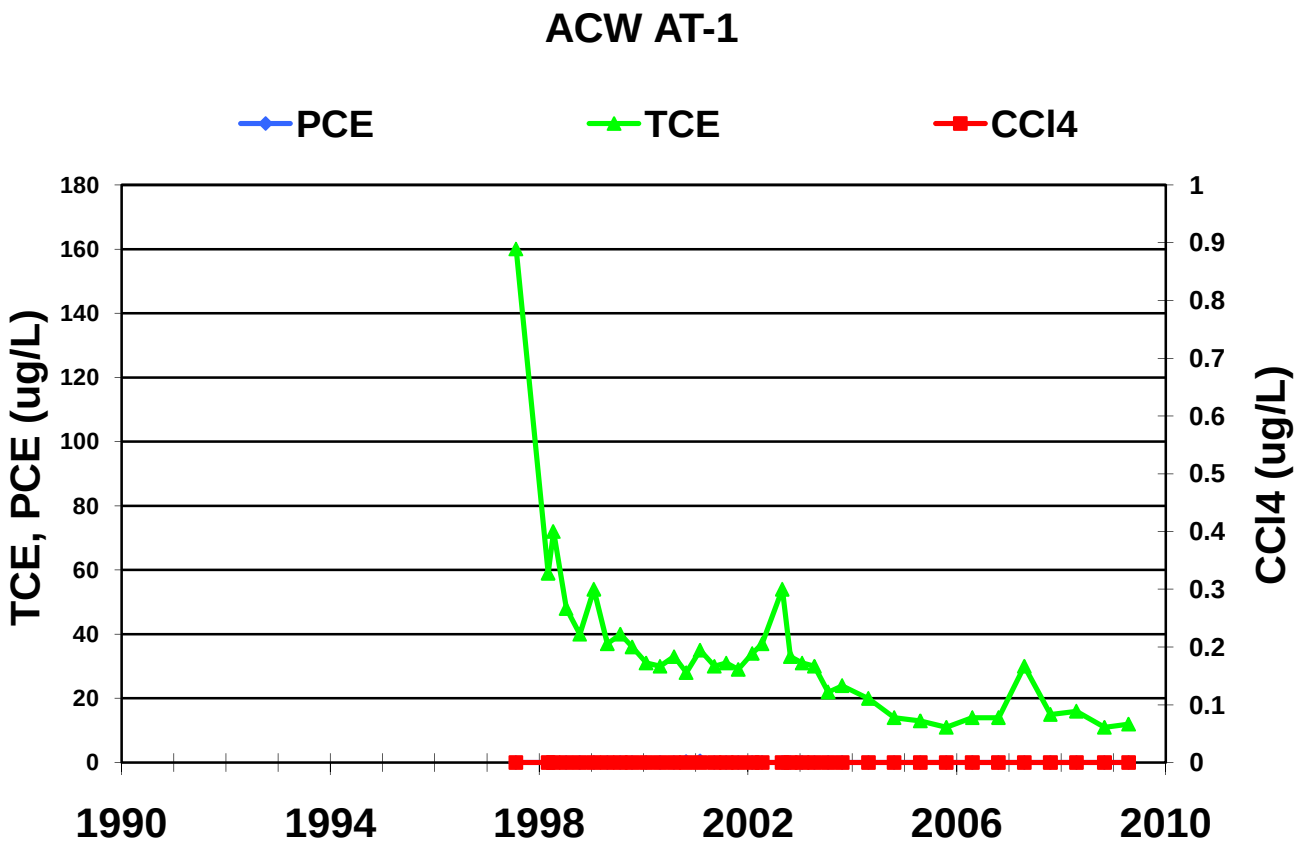

7-PZ-37P
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

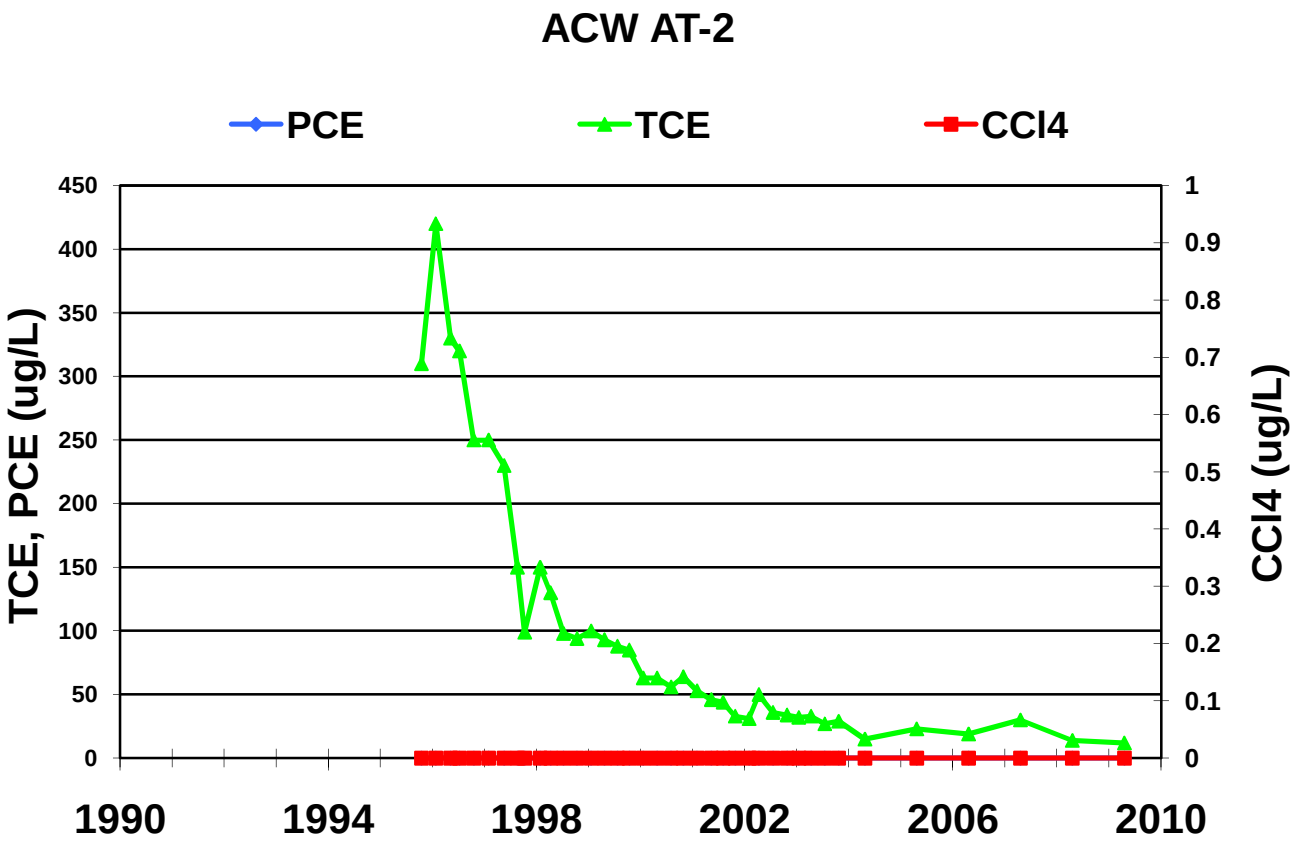

7-PZ-38P
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

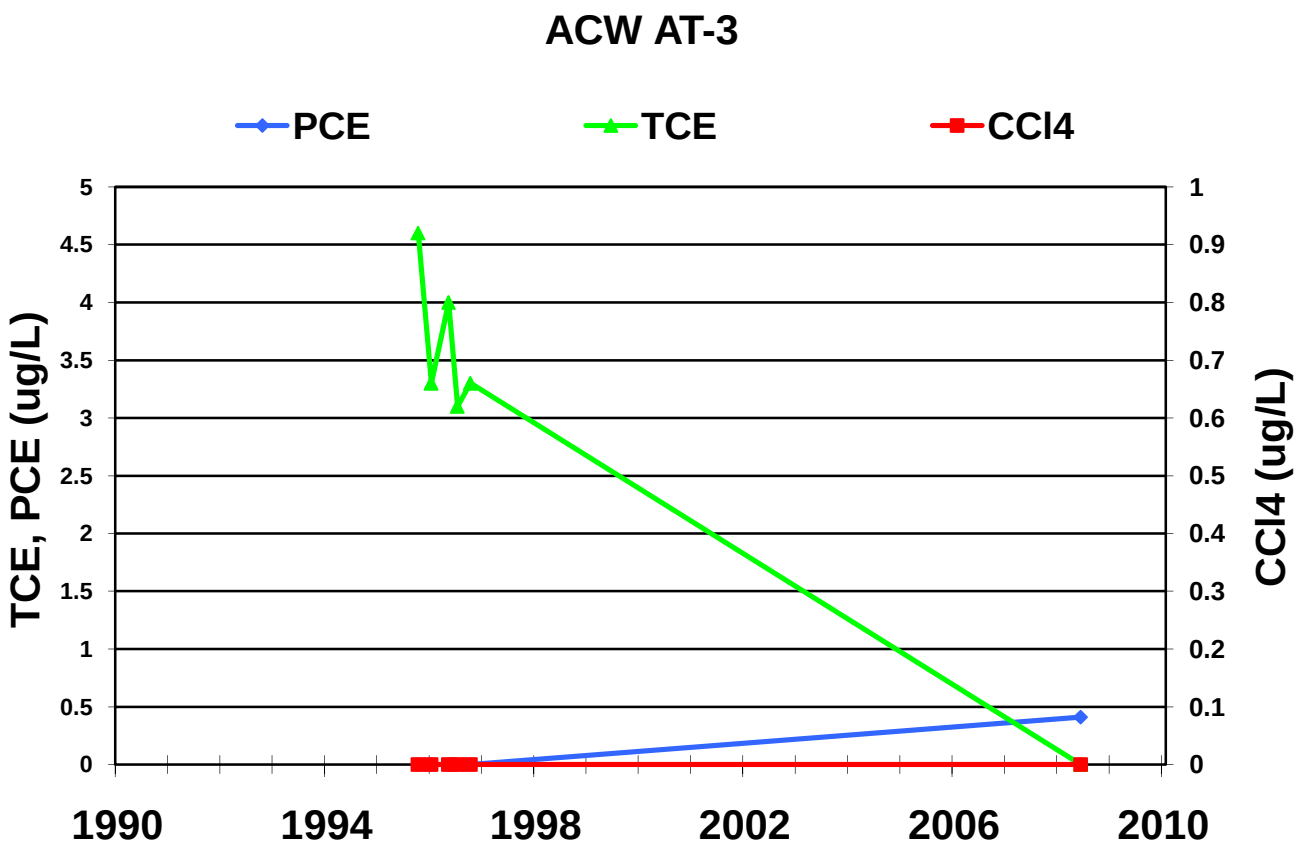

7-PZ-39
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

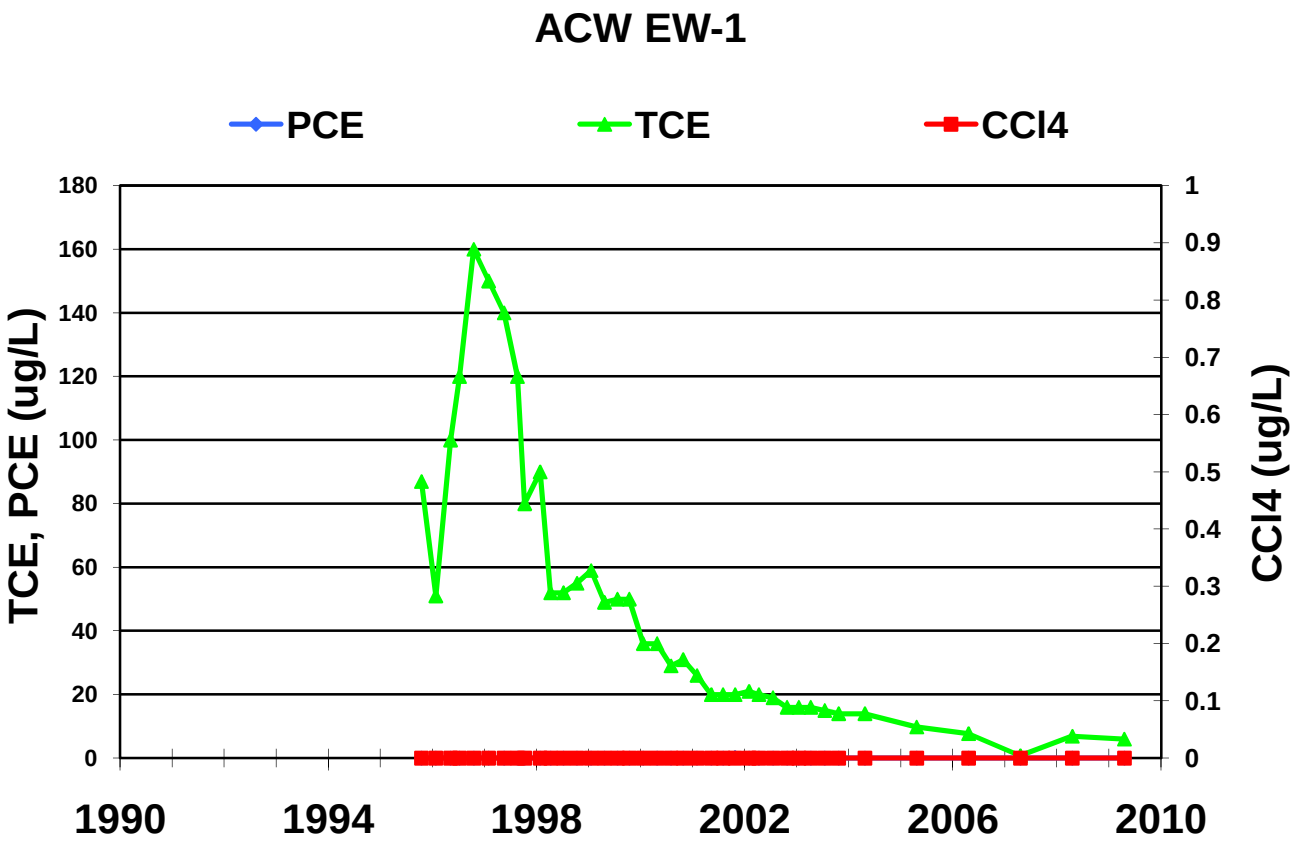

7-PZ-40
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

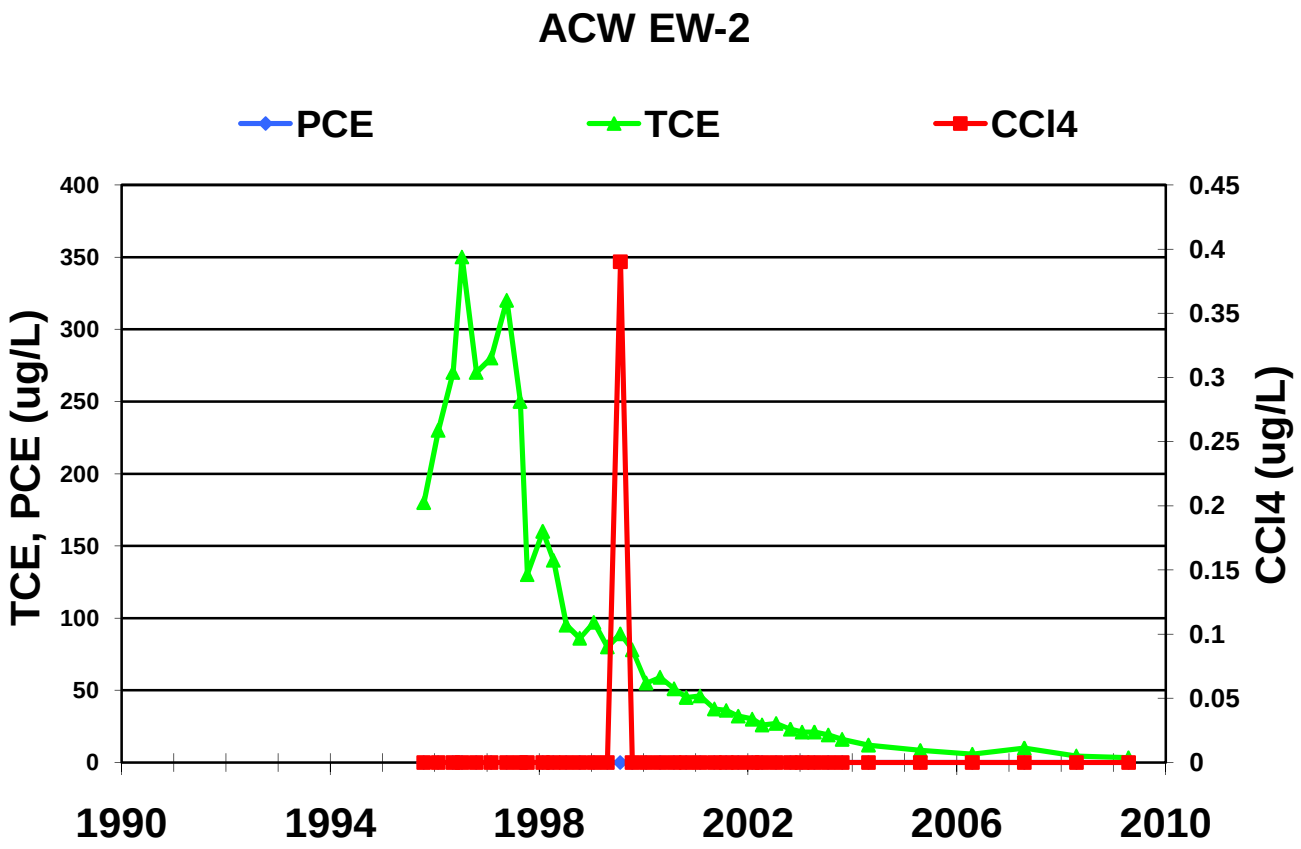

7-PZ-41
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

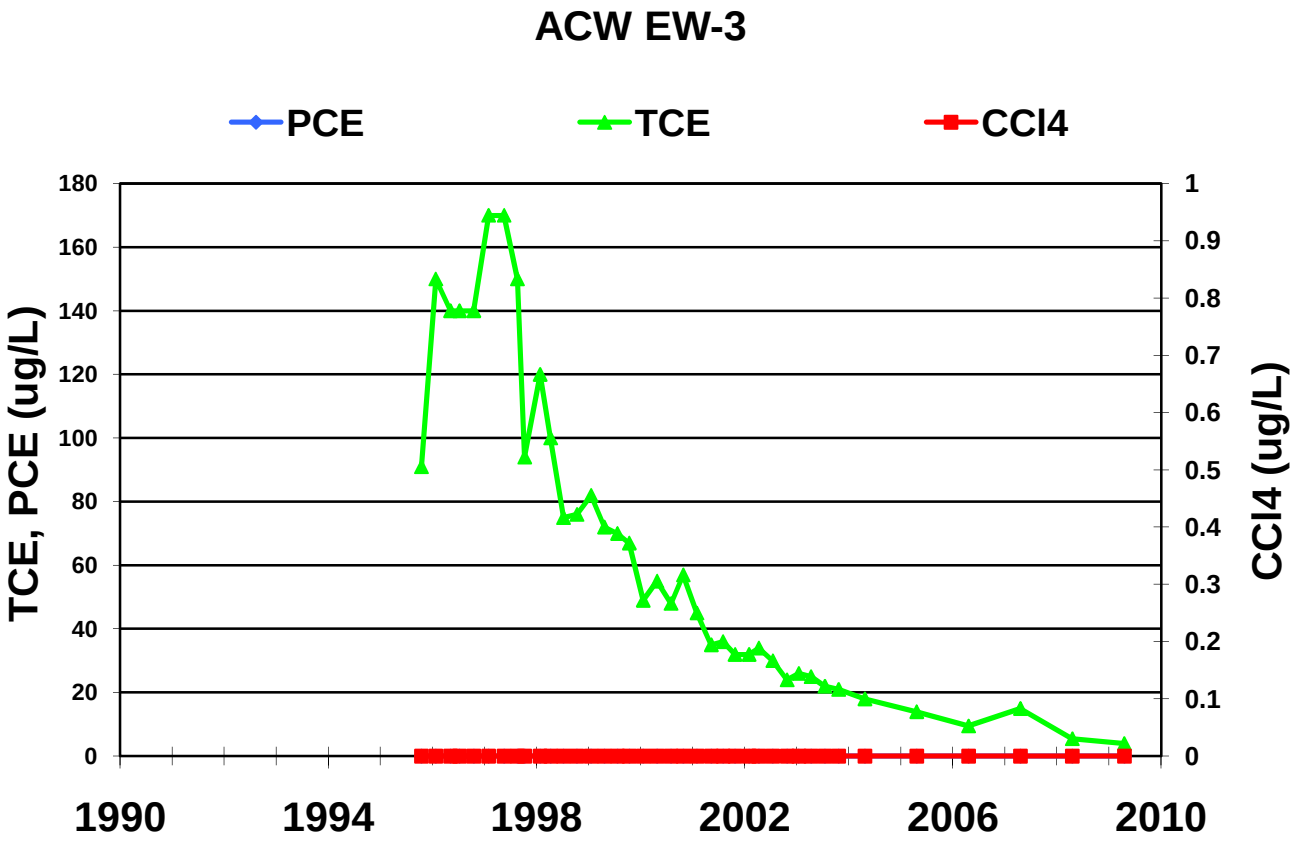

ACW AT-1
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
180
160
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

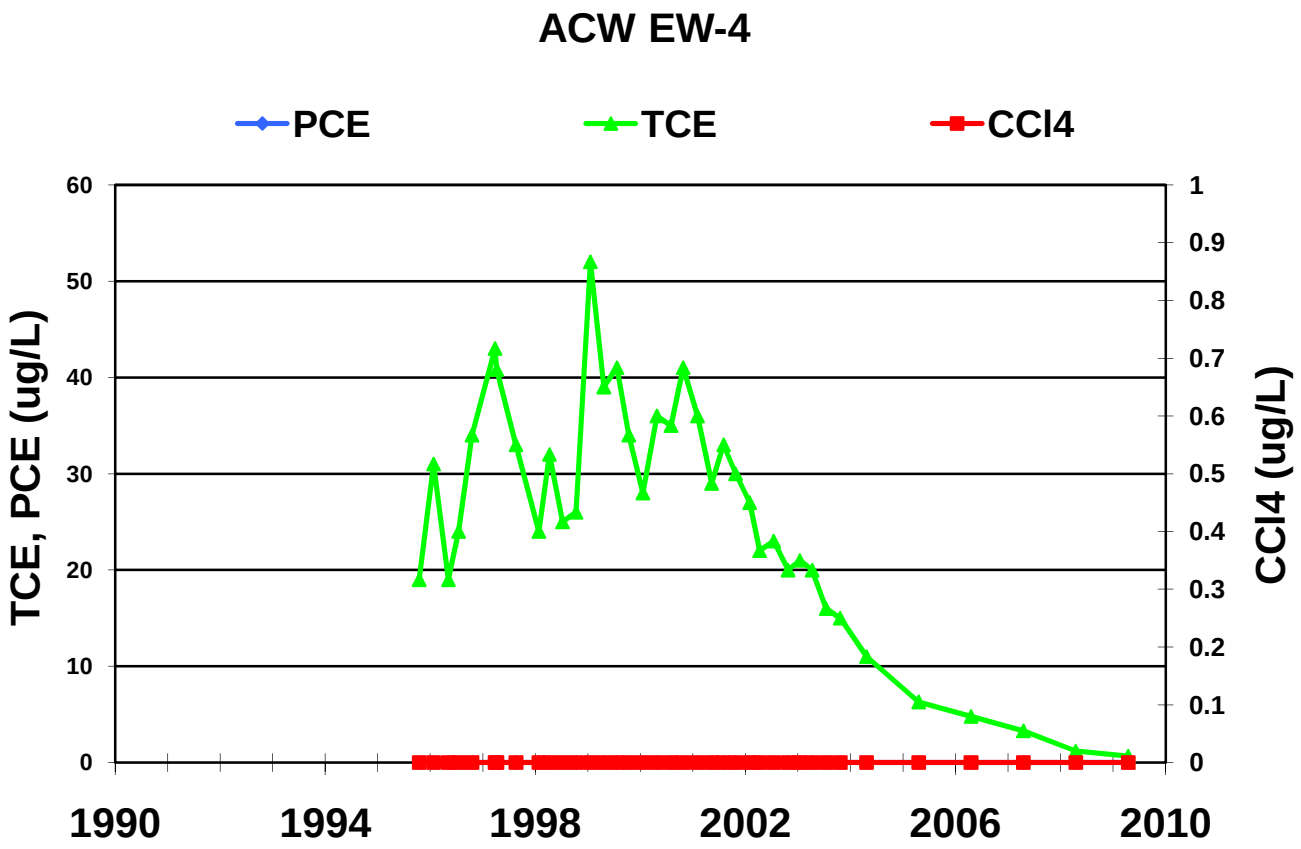

ACW AT-2
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
450
400
350
300
250
200
150
100
50
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

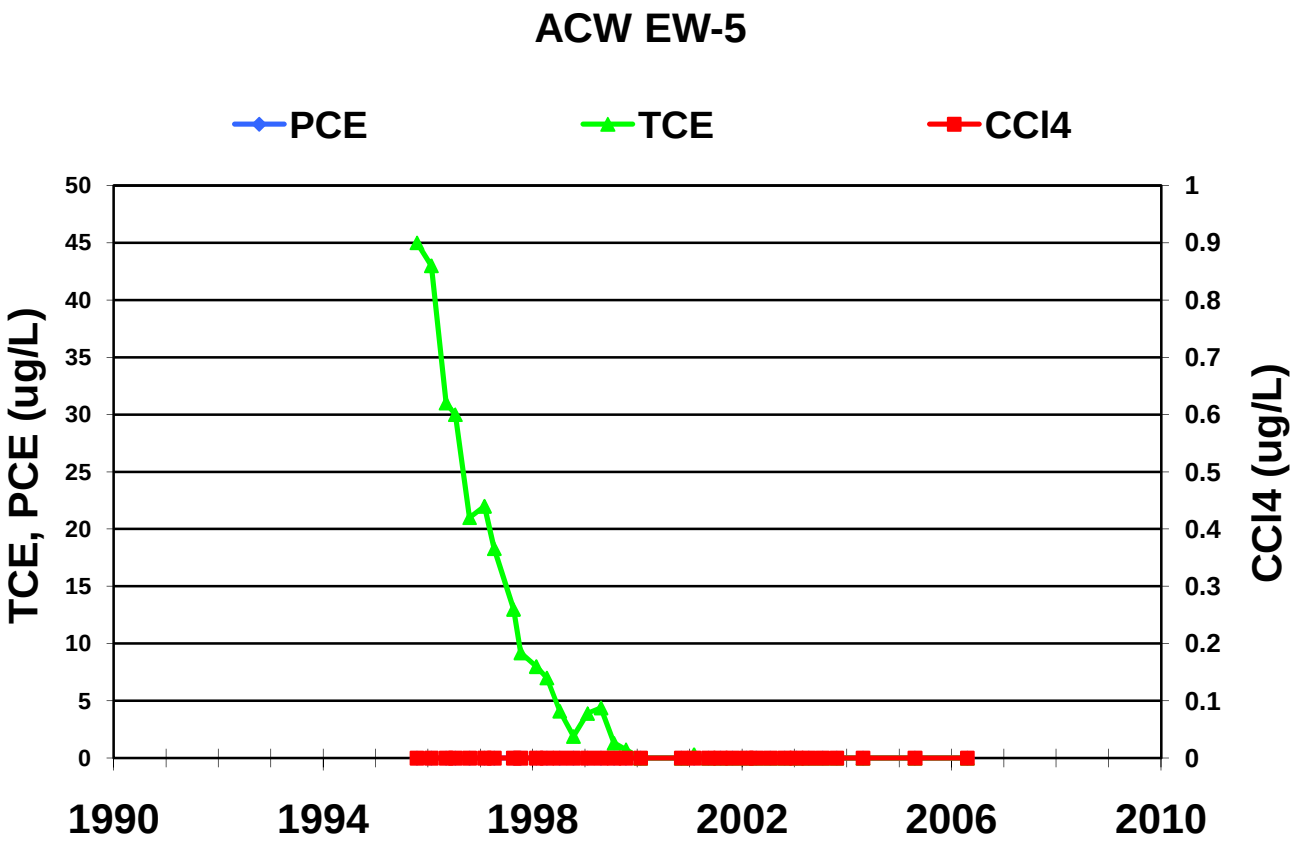

ACW AT-3
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

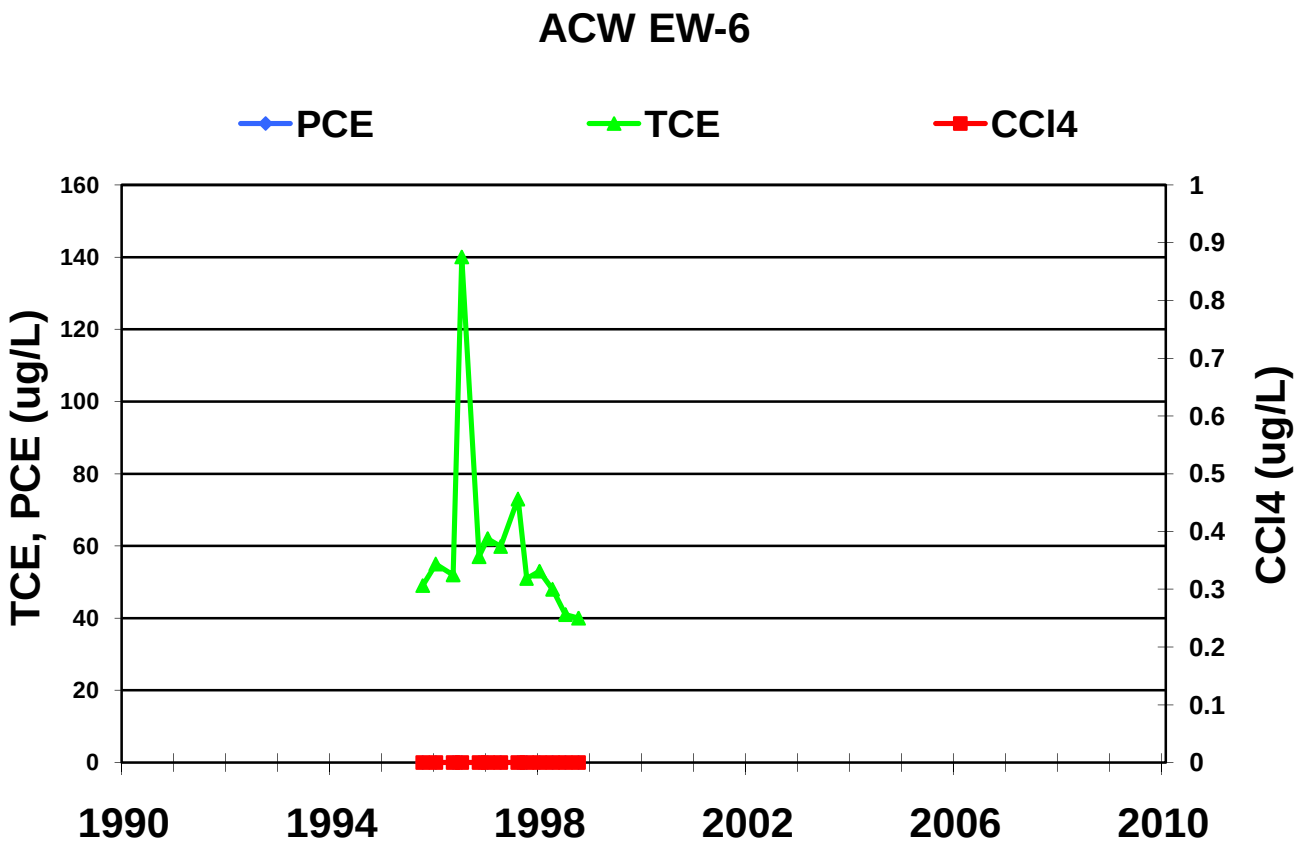

ACW EW-1
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
180
160
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

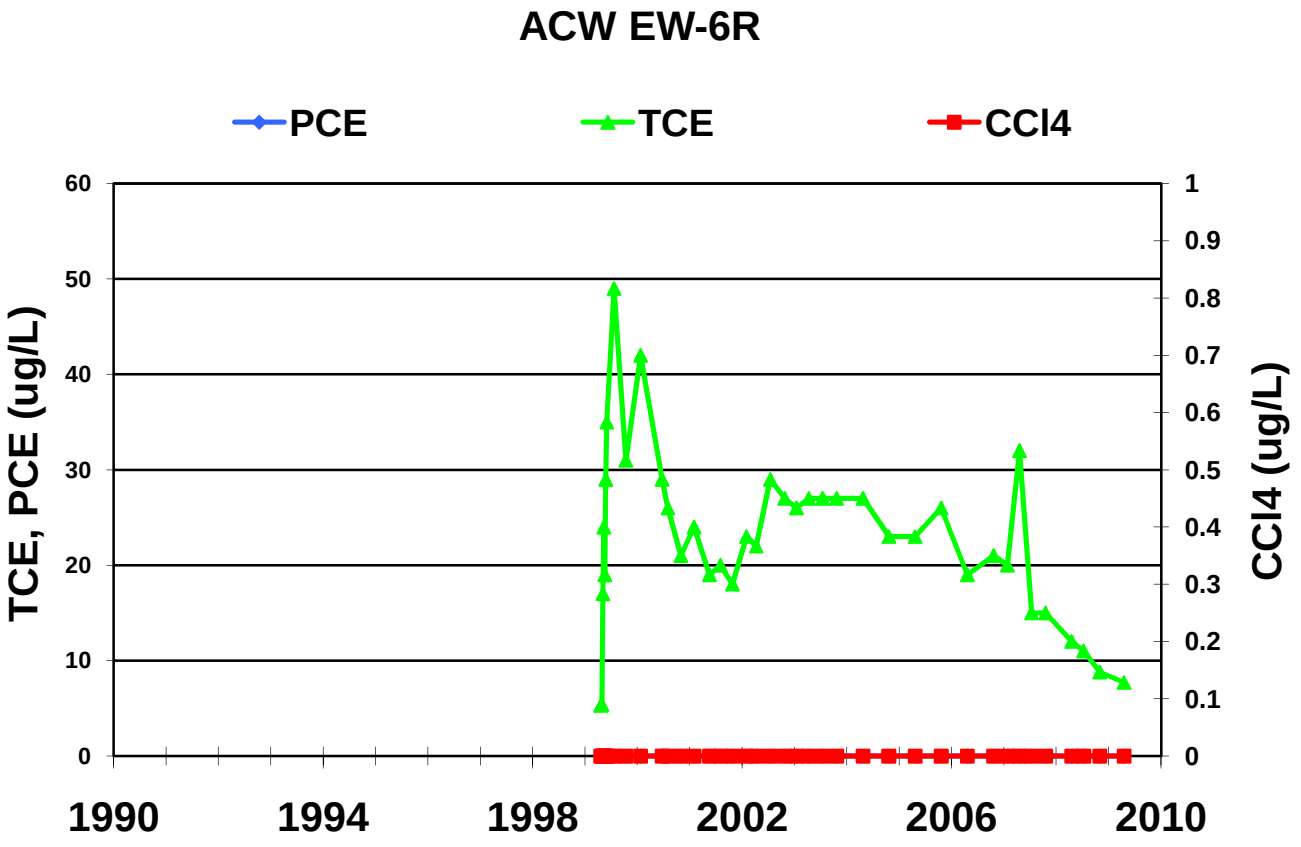

ACW EW-2
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
400
350
300
250
200
150
100
50
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

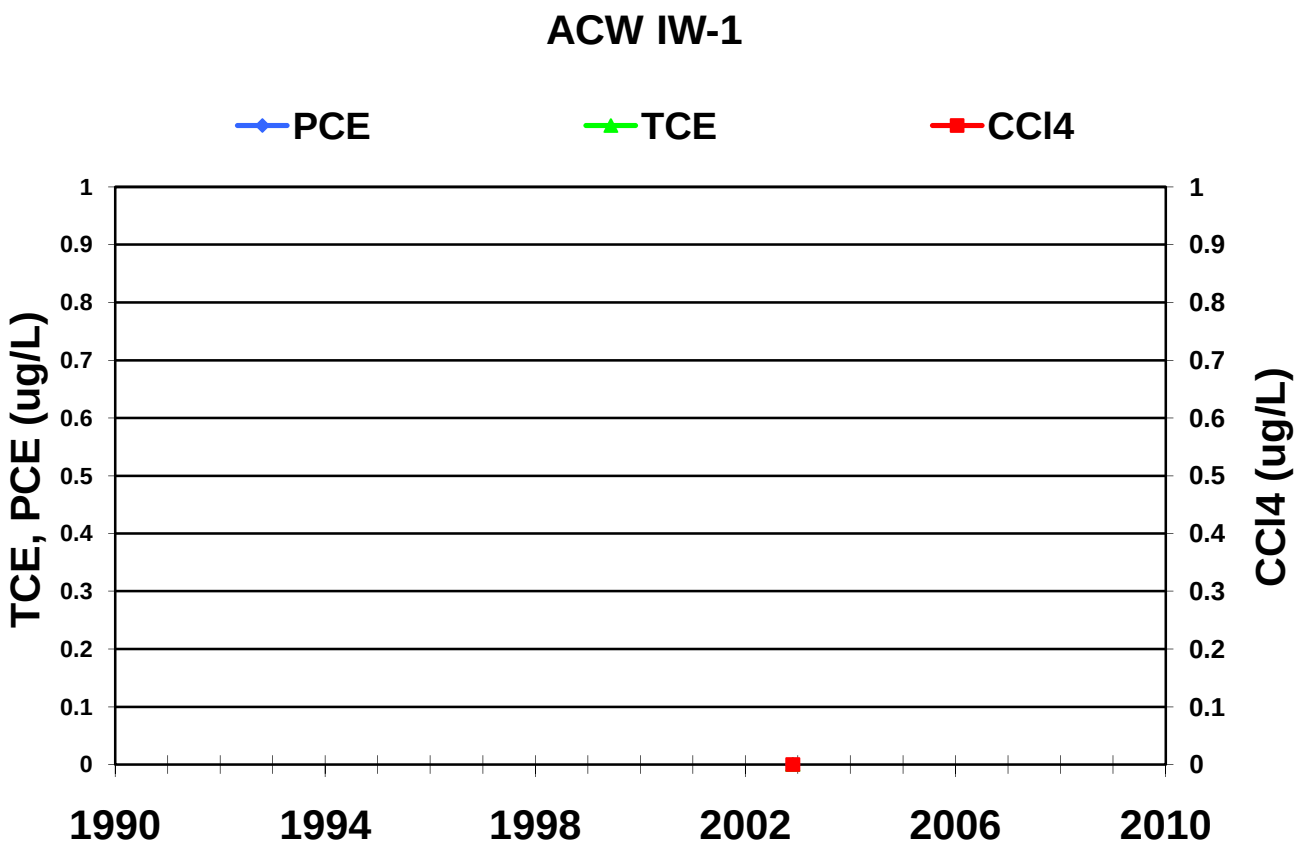

ACW EW-3
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
180
160
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

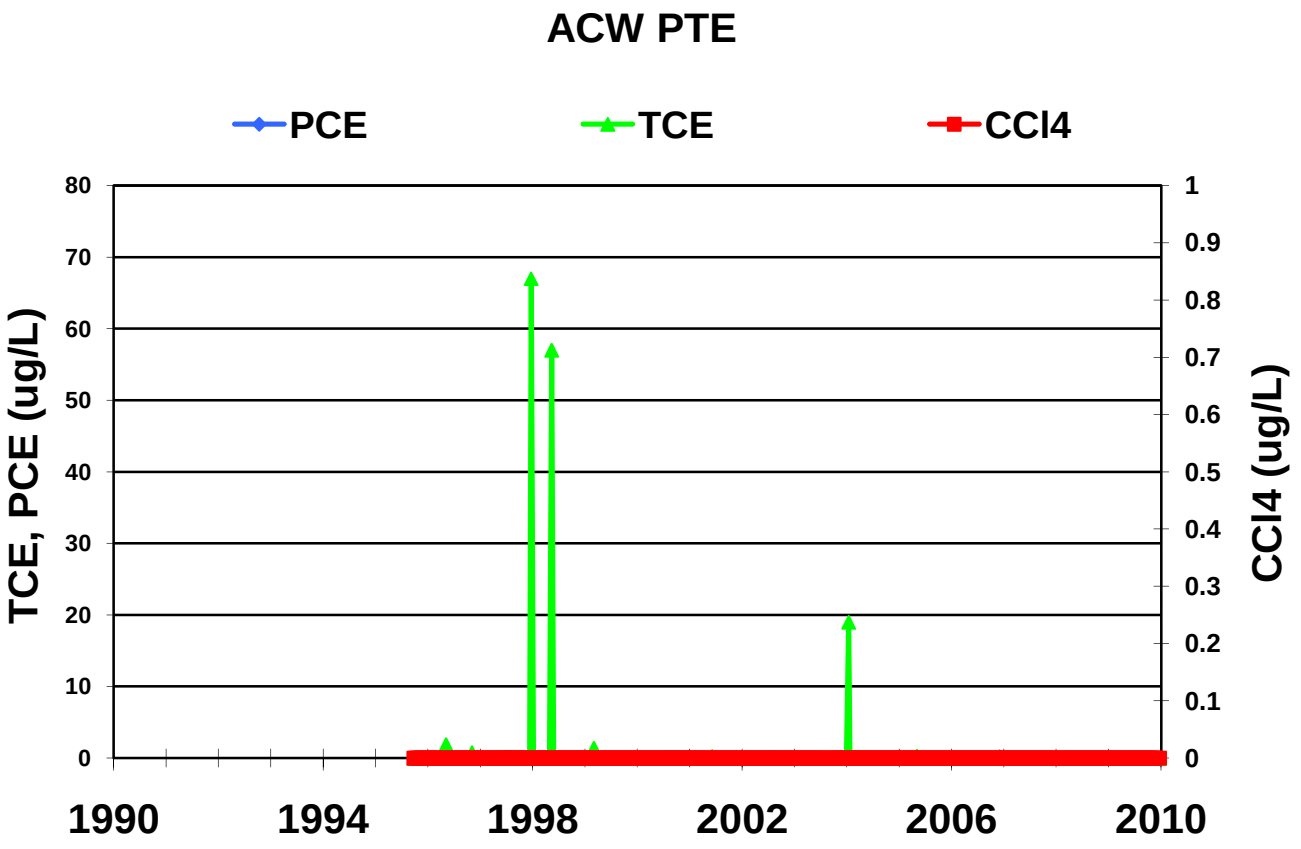

ACW EW-4
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

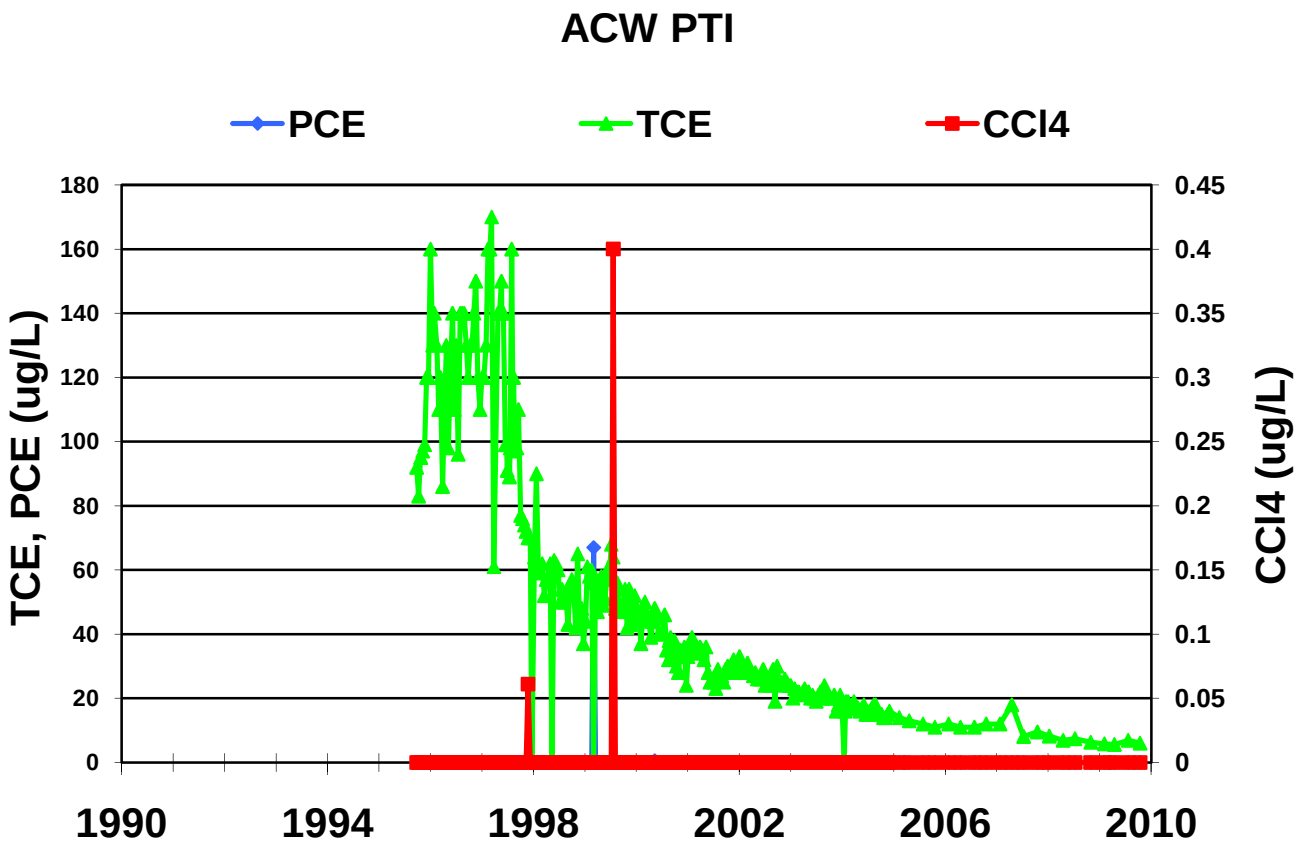

ACW EW-5
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
50
45
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

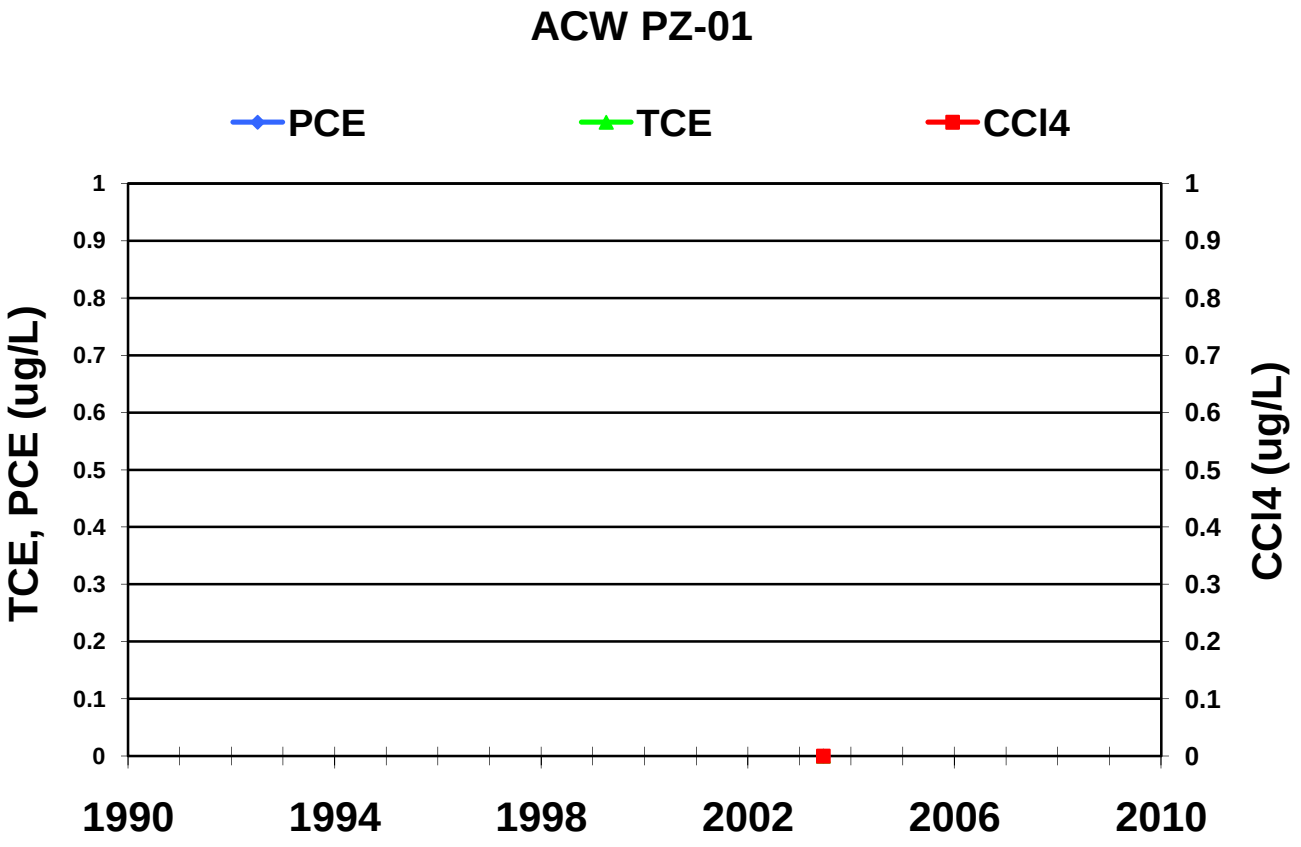

ACW EW-6
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
160
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

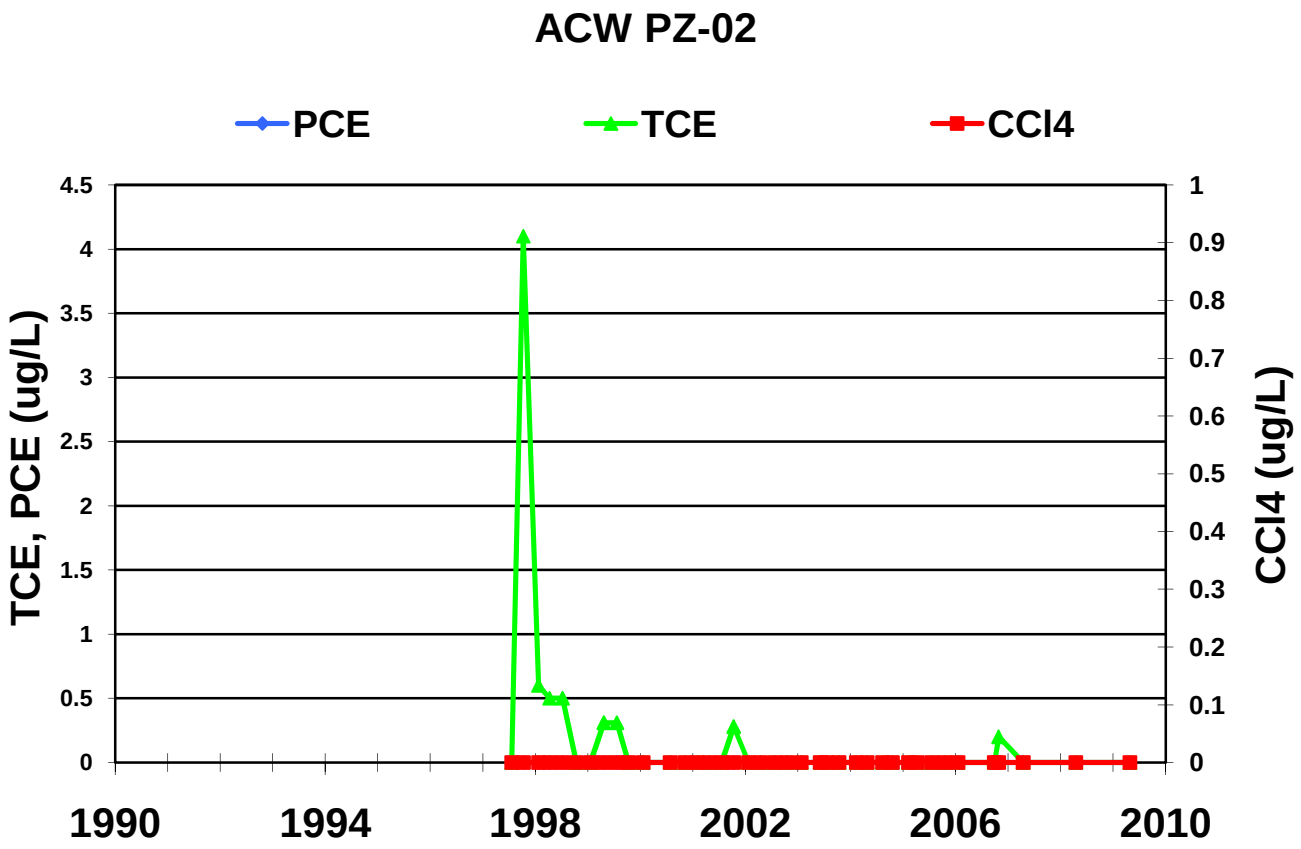

ACW EW-6R
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

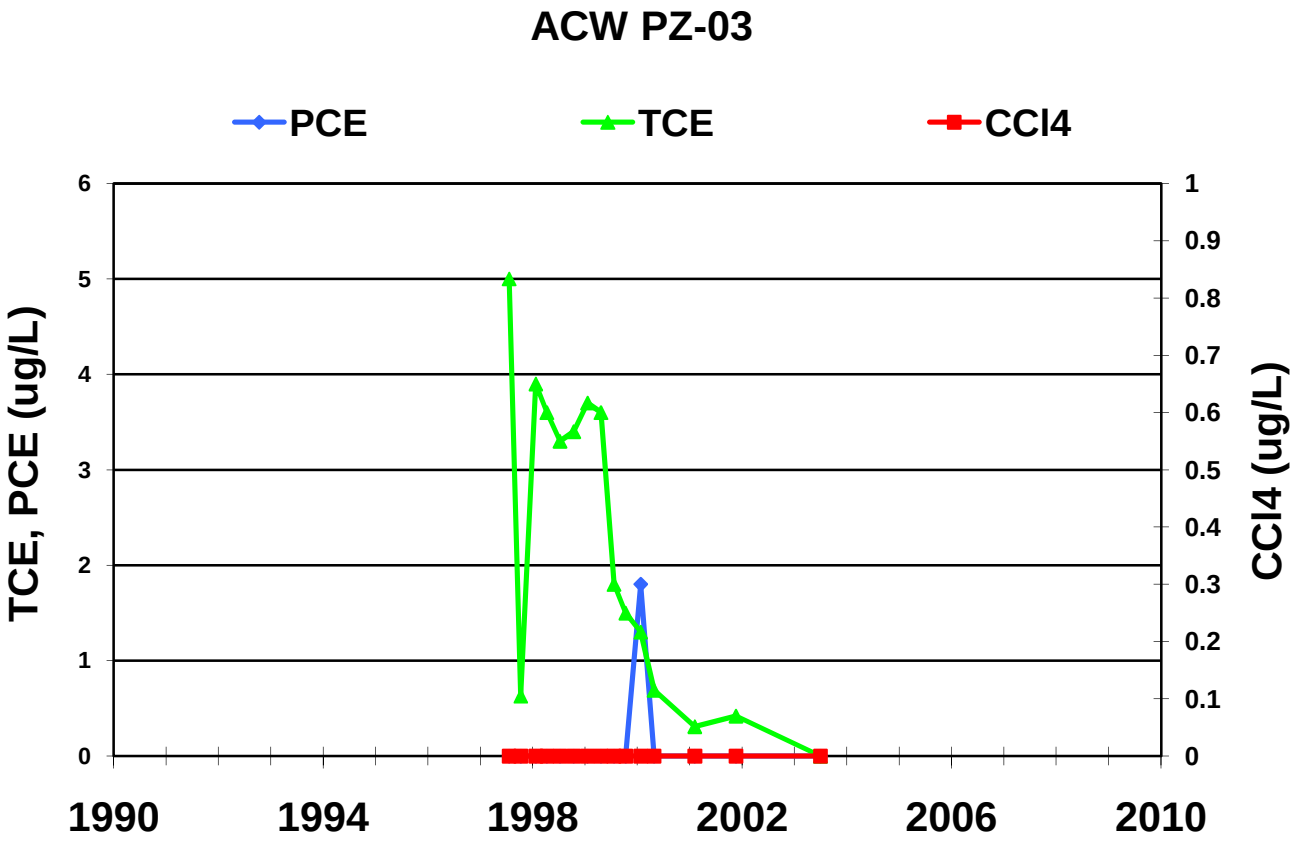

ACW IW-1
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

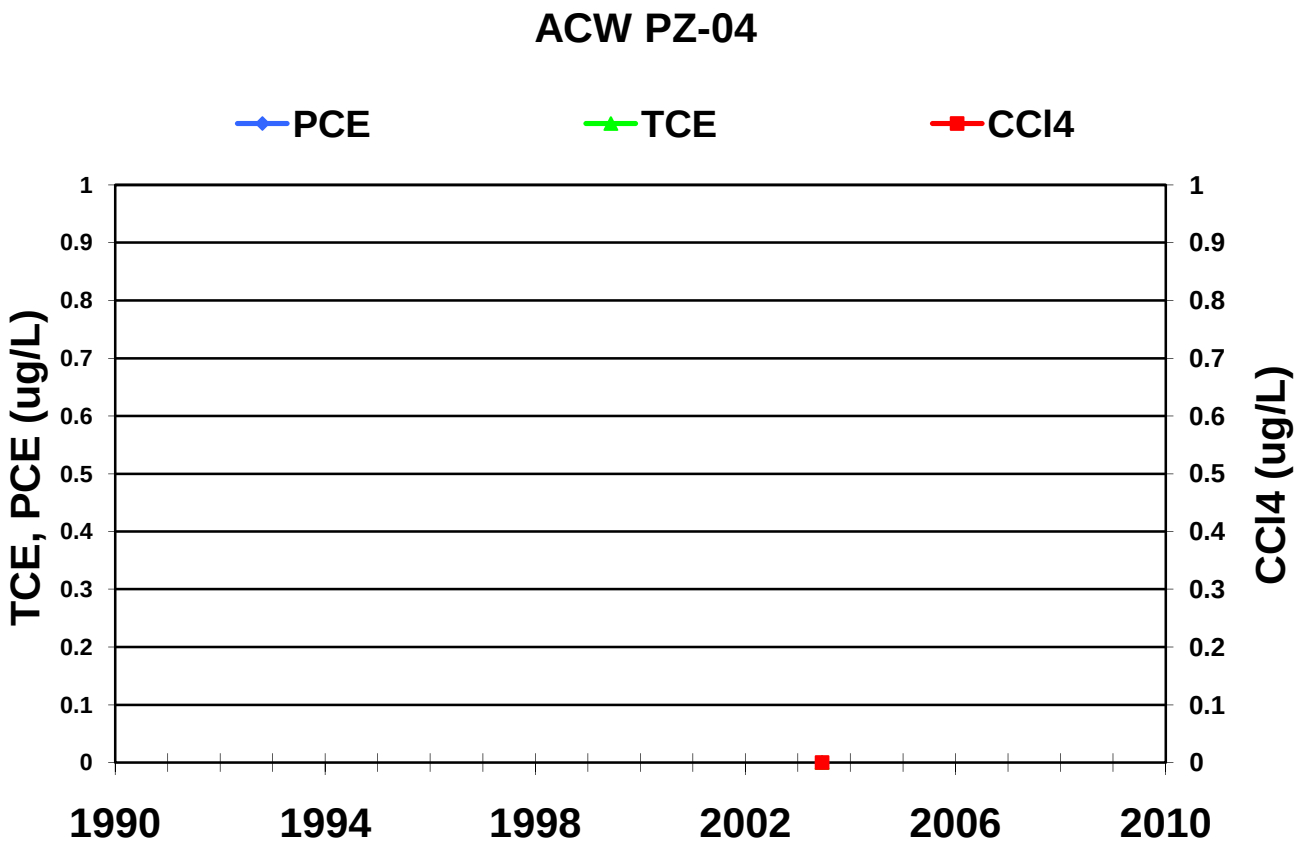

ACW PTE
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
70
80
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

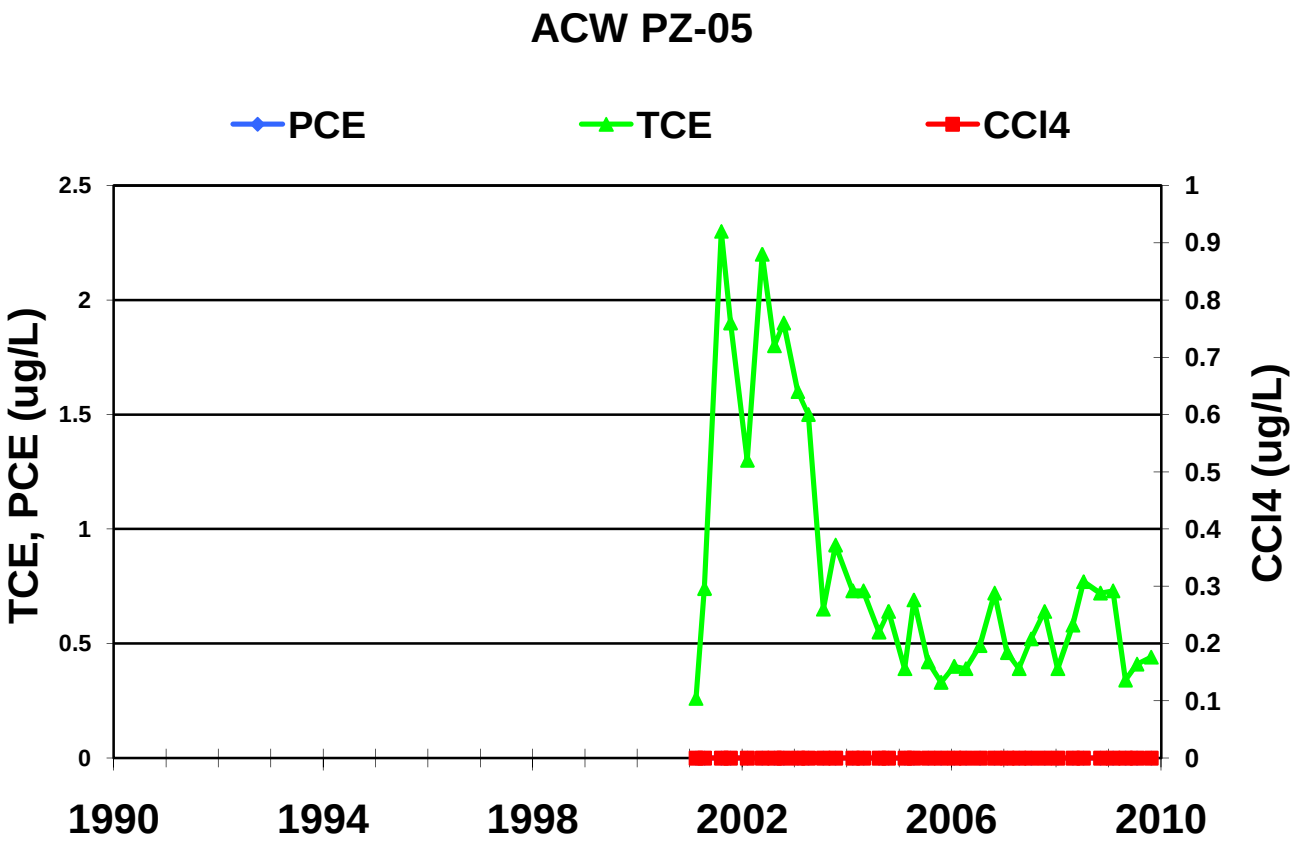

ACW PTI
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
180
160
140
120
100
80
60
40
20
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

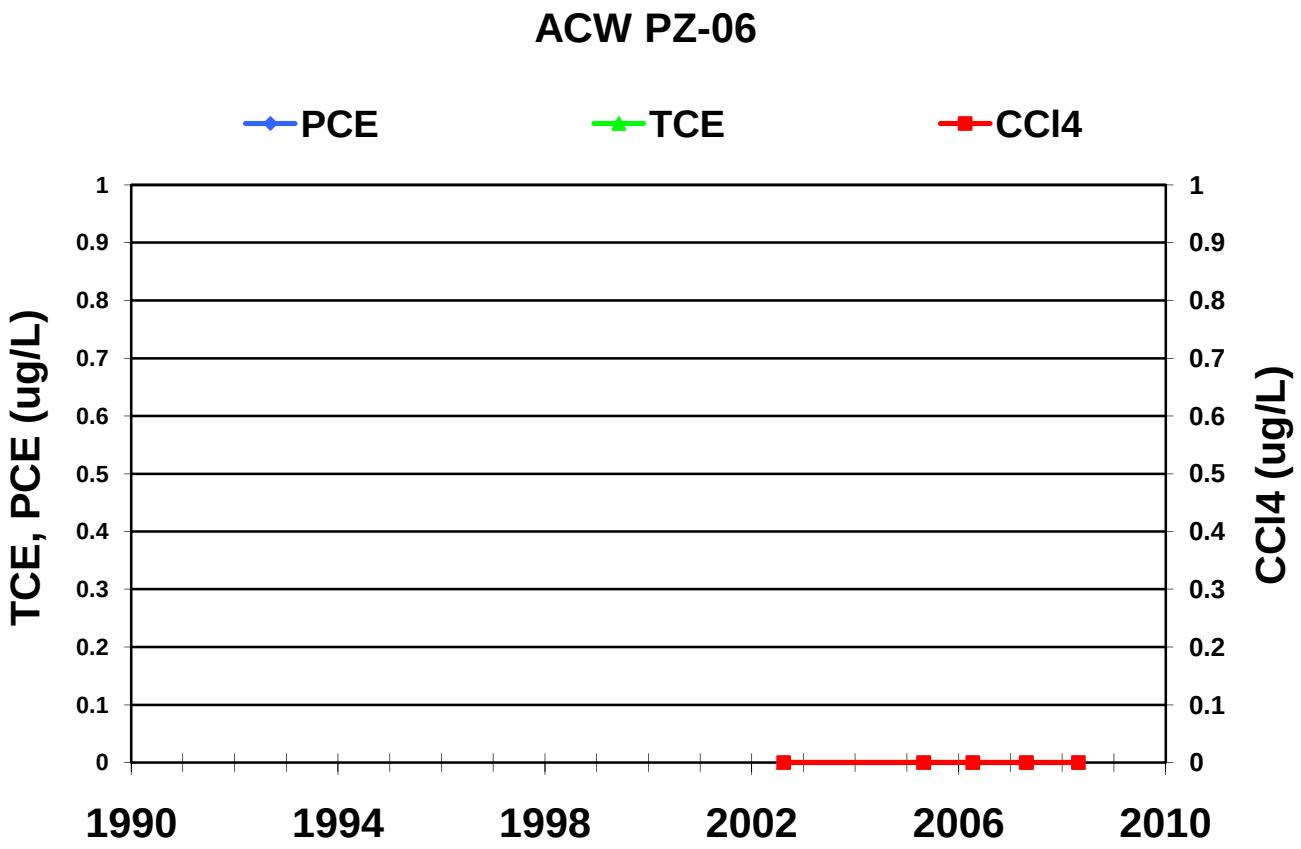

ACW PZ-01
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

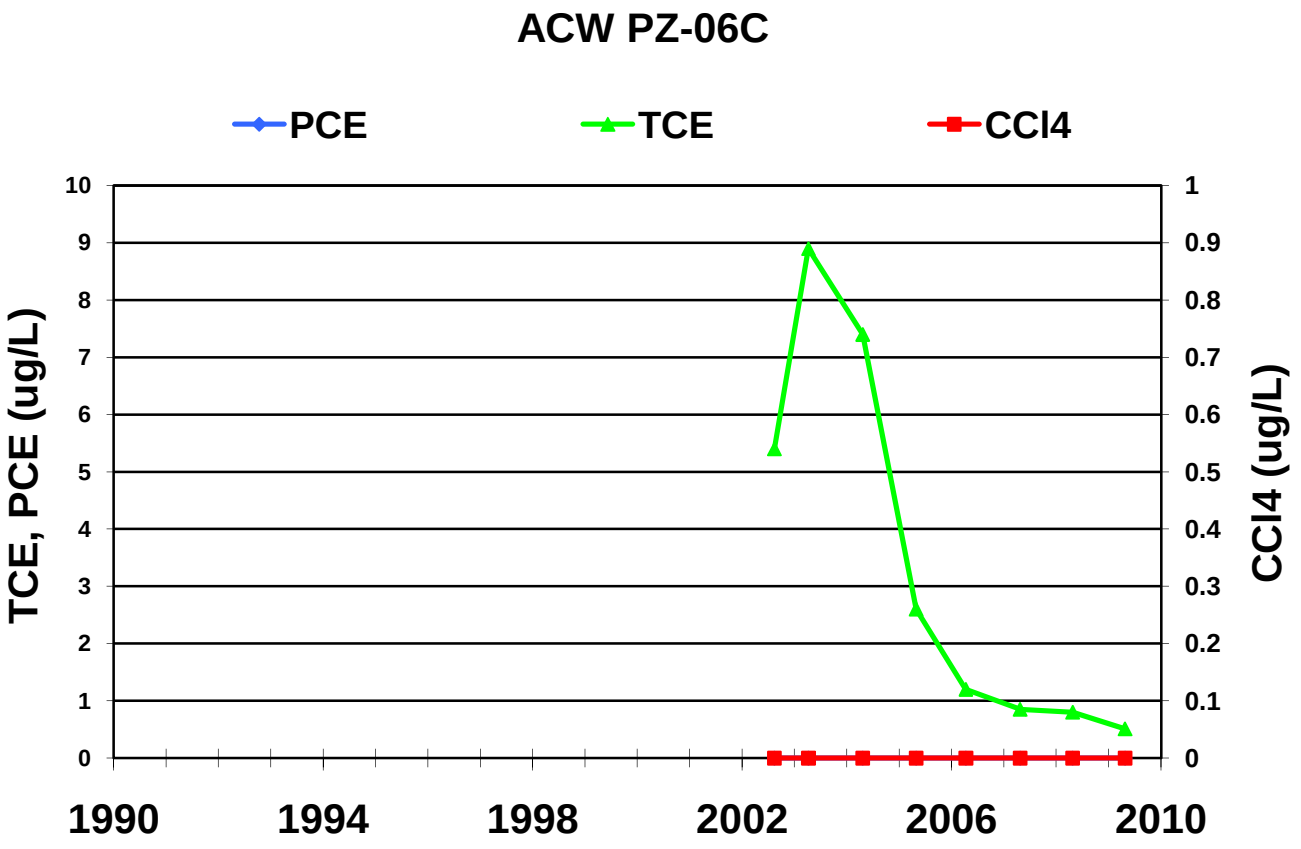

ACW PZ-02
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

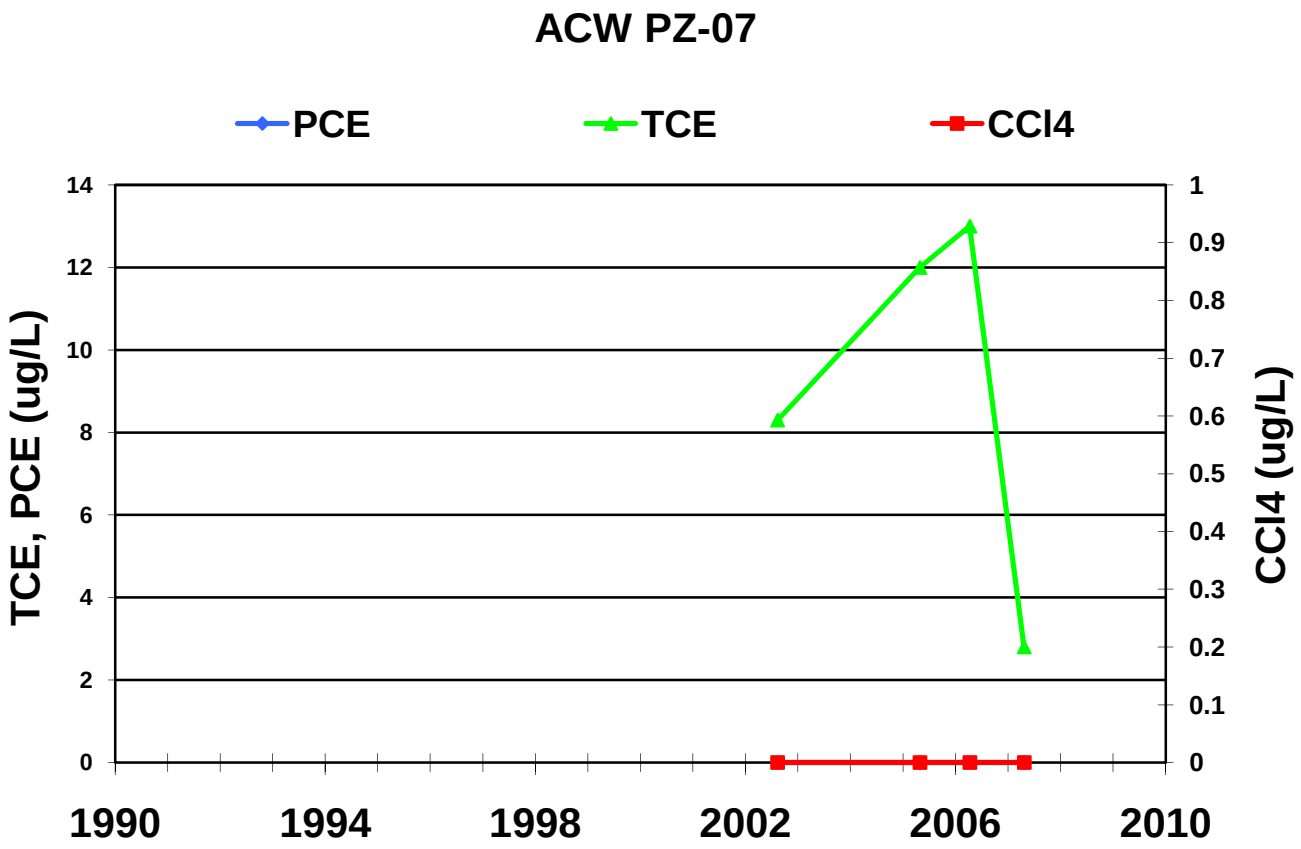

ACW PZ-03
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

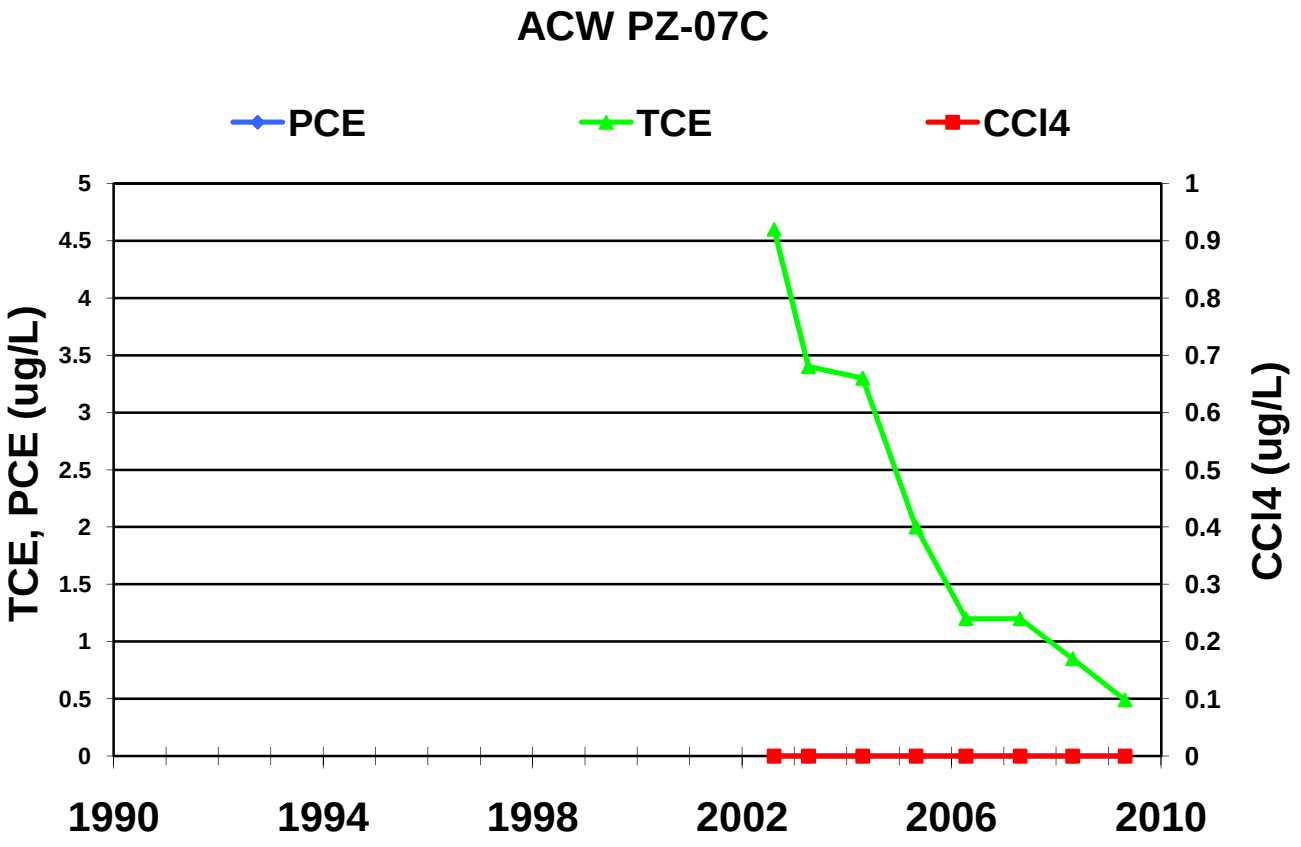

ACW PZ-04
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

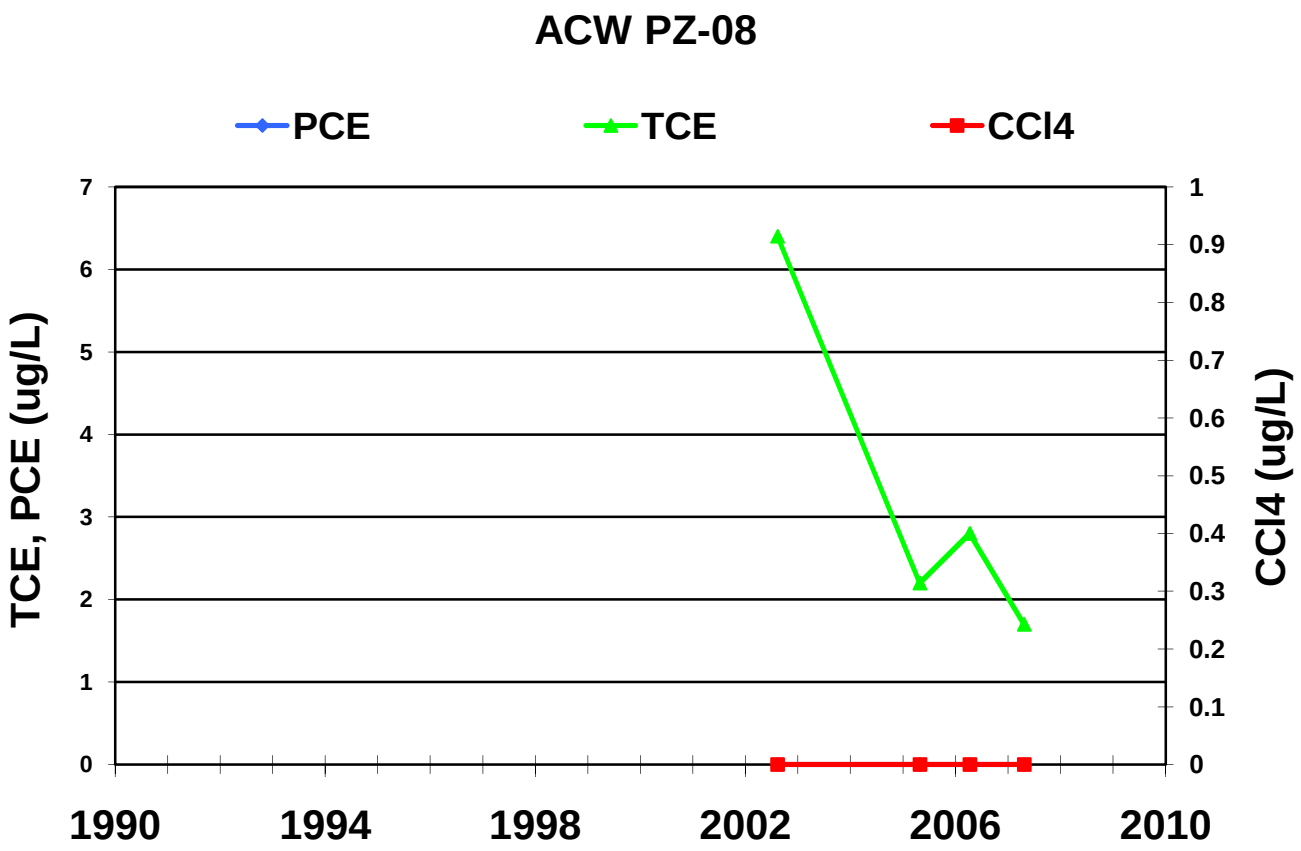

ACW PZ-05
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

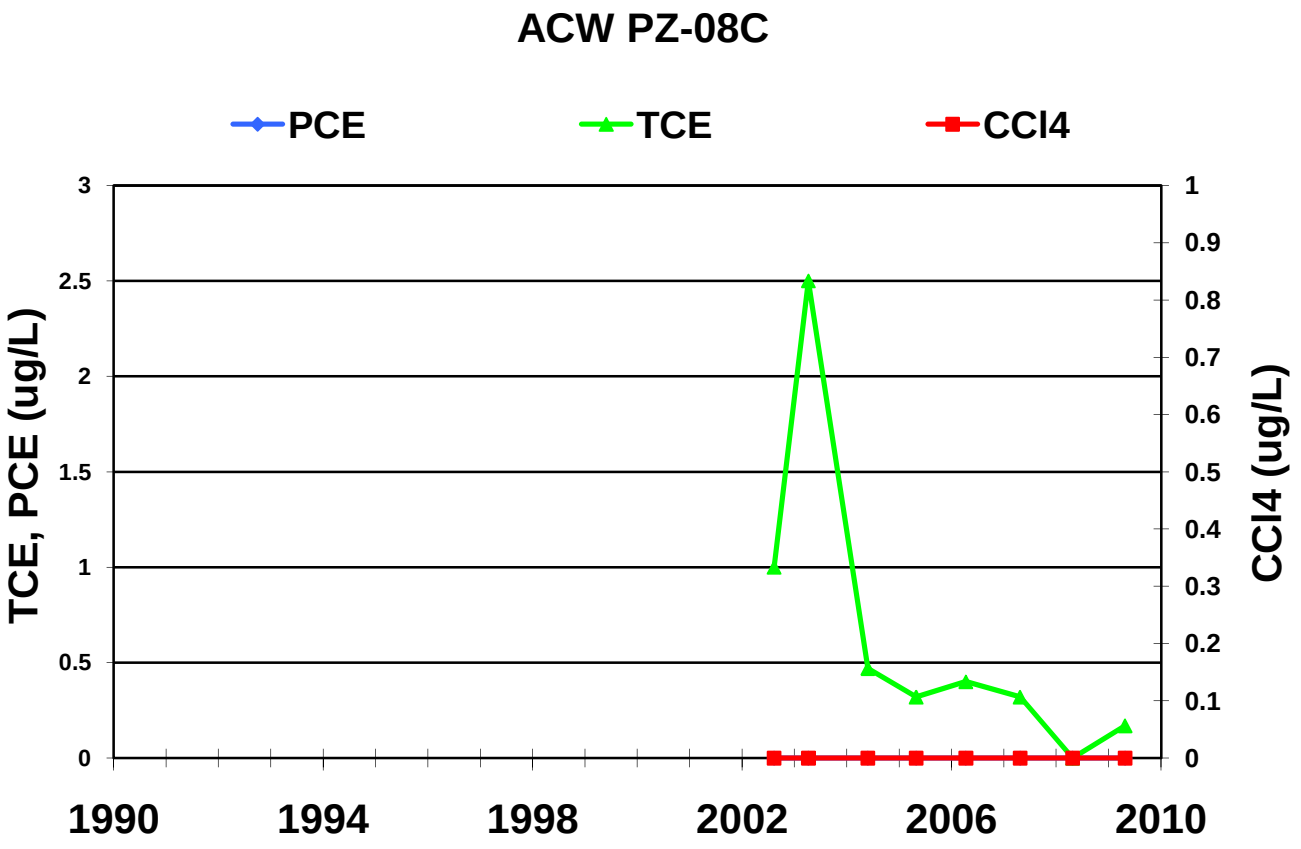

ACW PZ-06
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

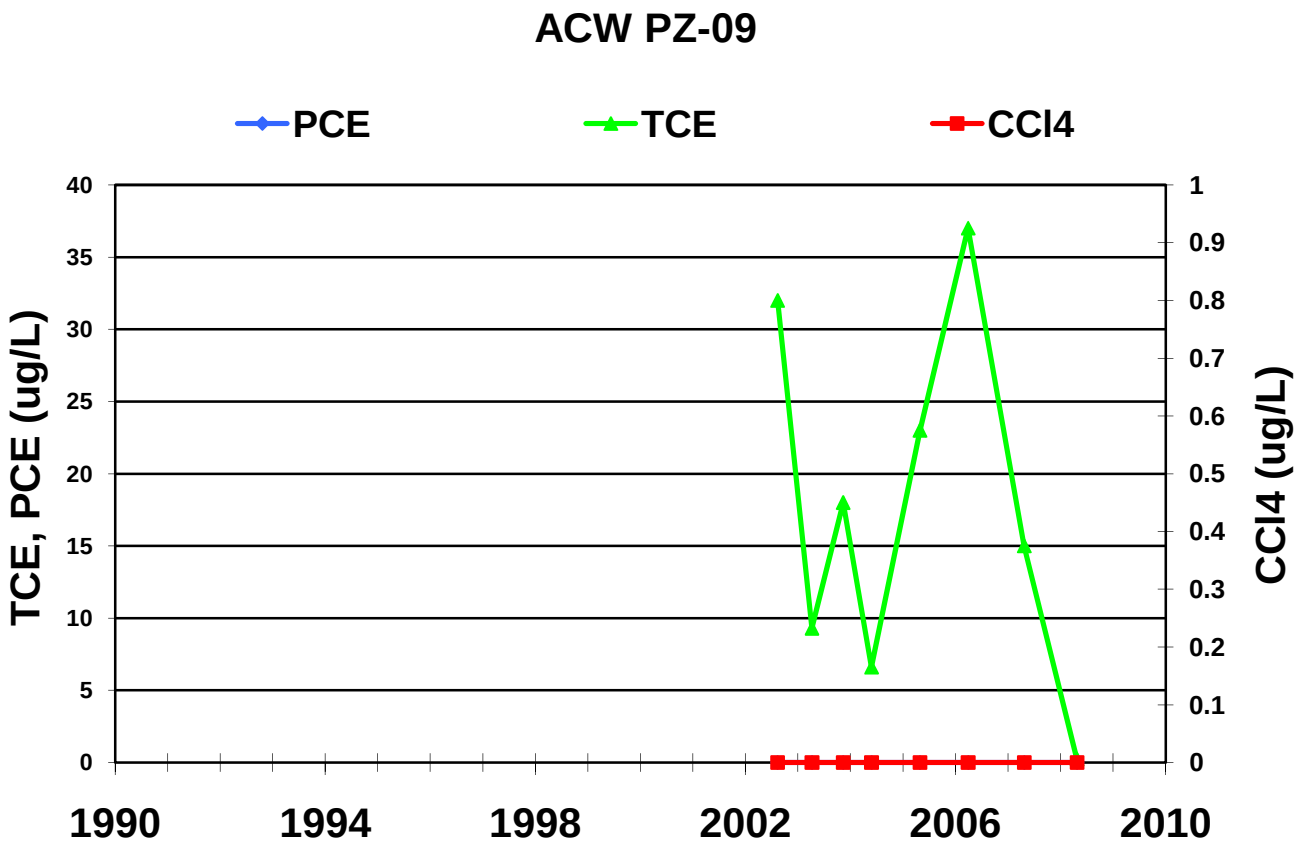

ACW PZ-06C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

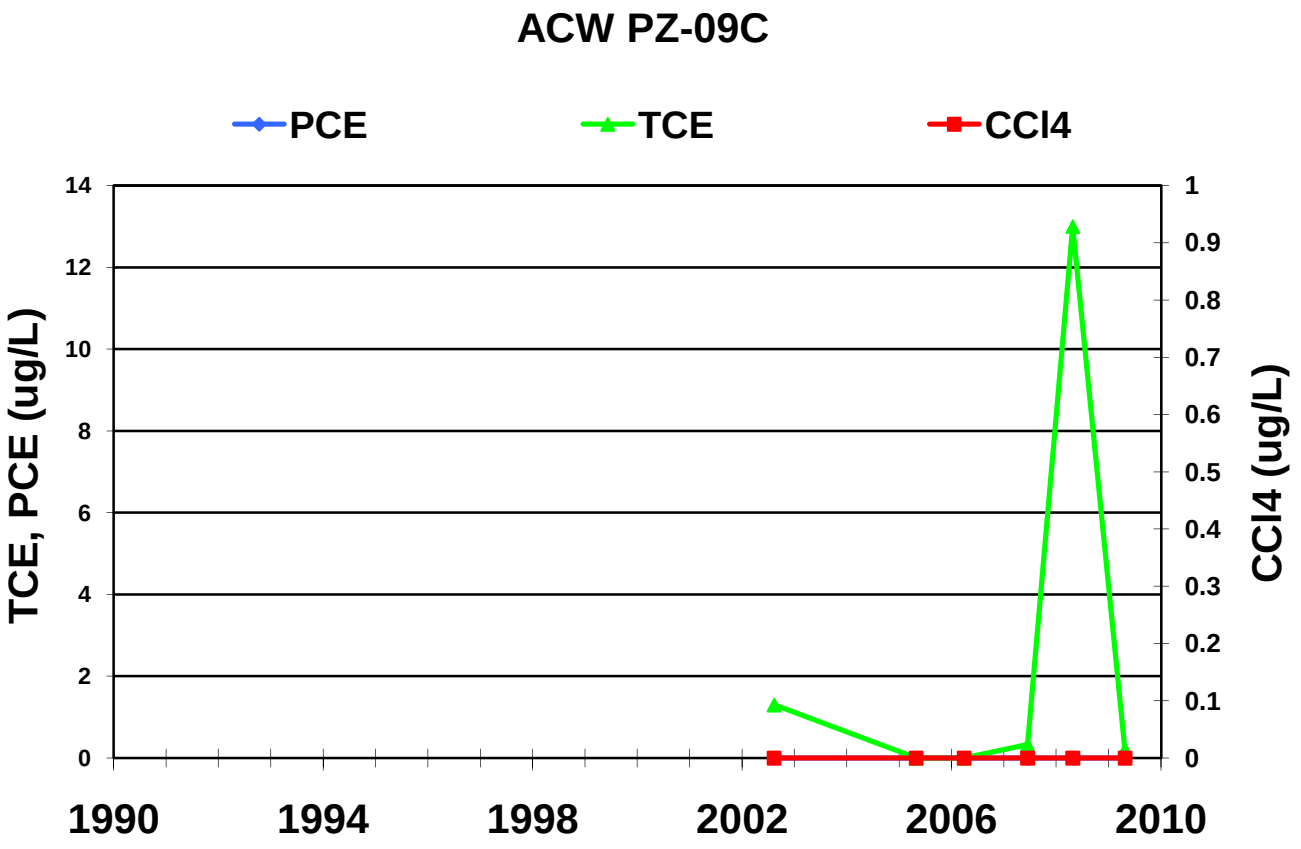

ACW PZ-07
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

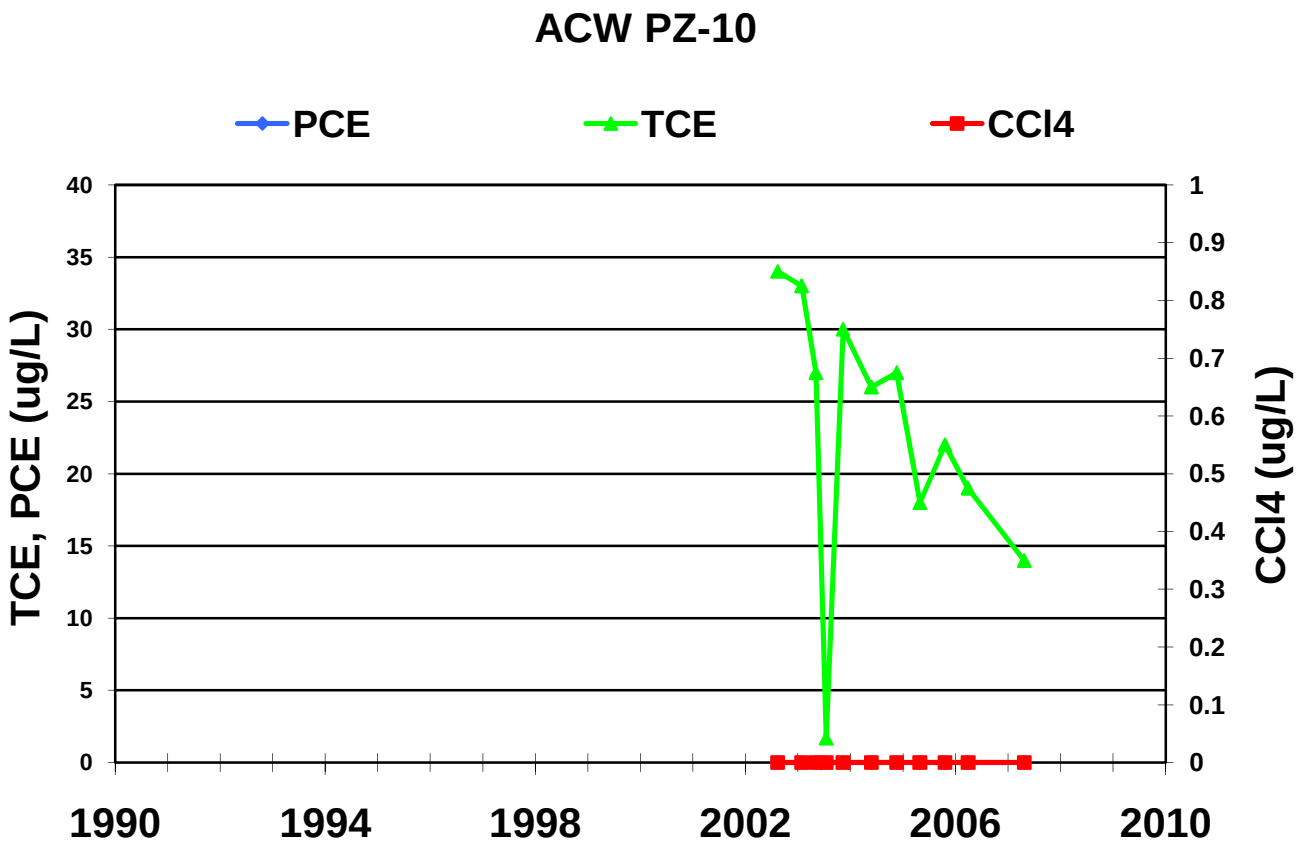

ACW PZ-07C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

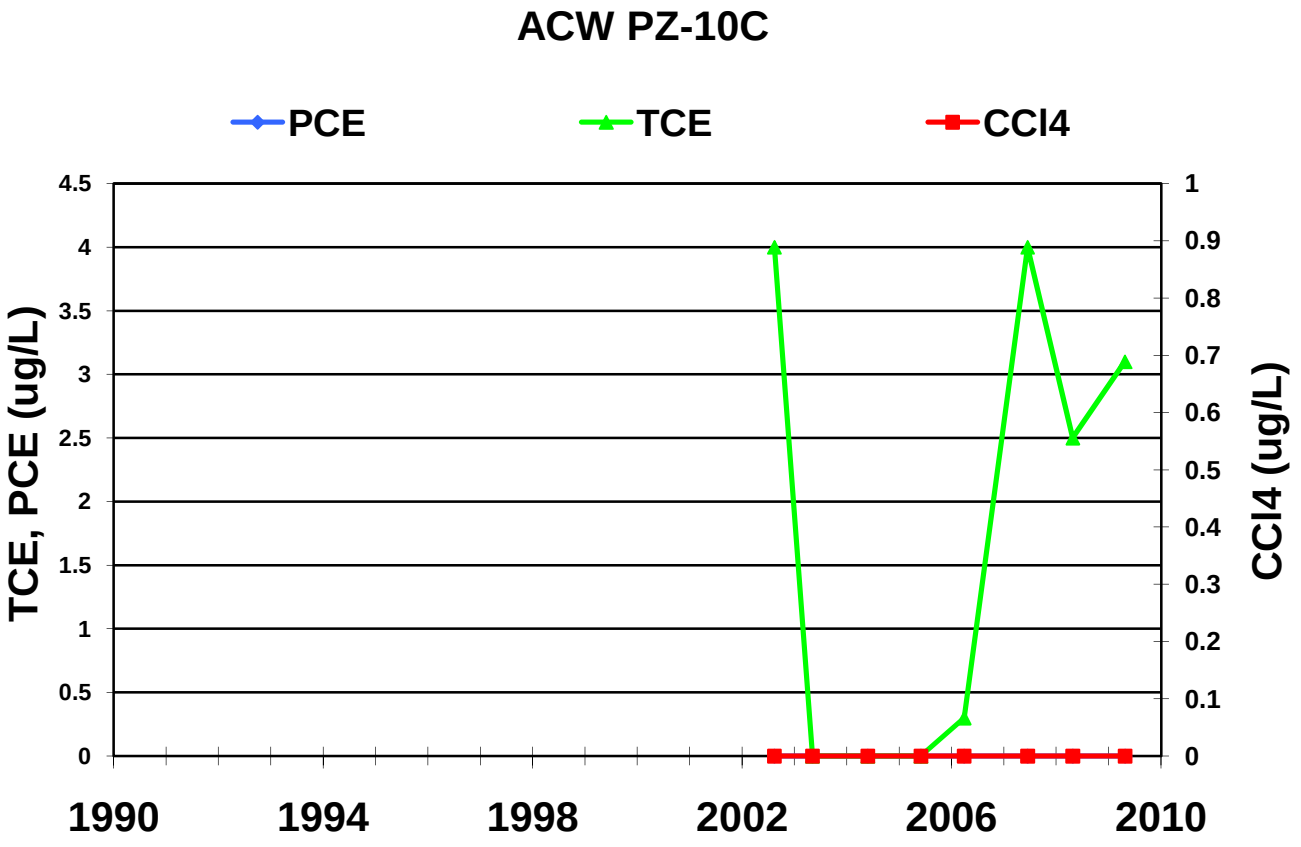

ACW PZ-08
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

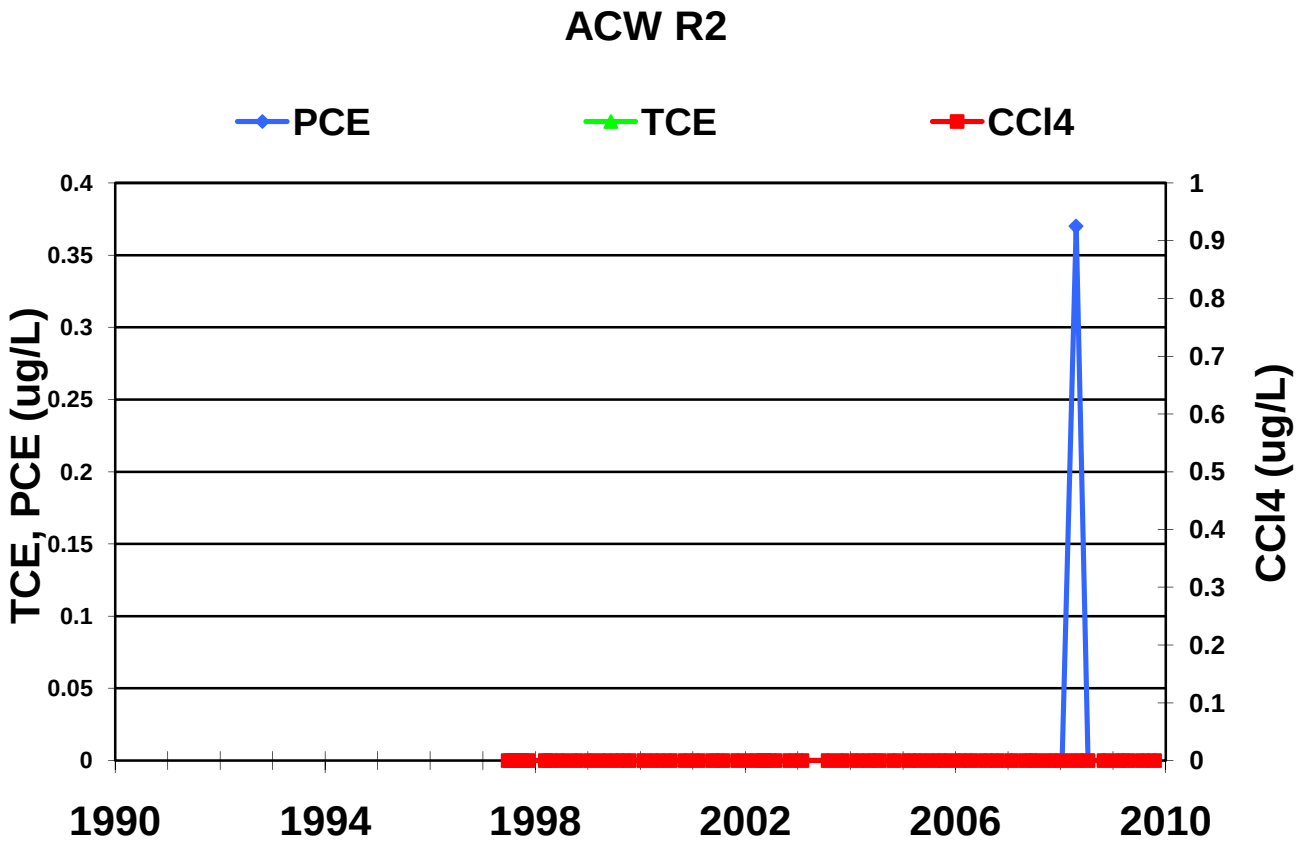

ACW PZ-08C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

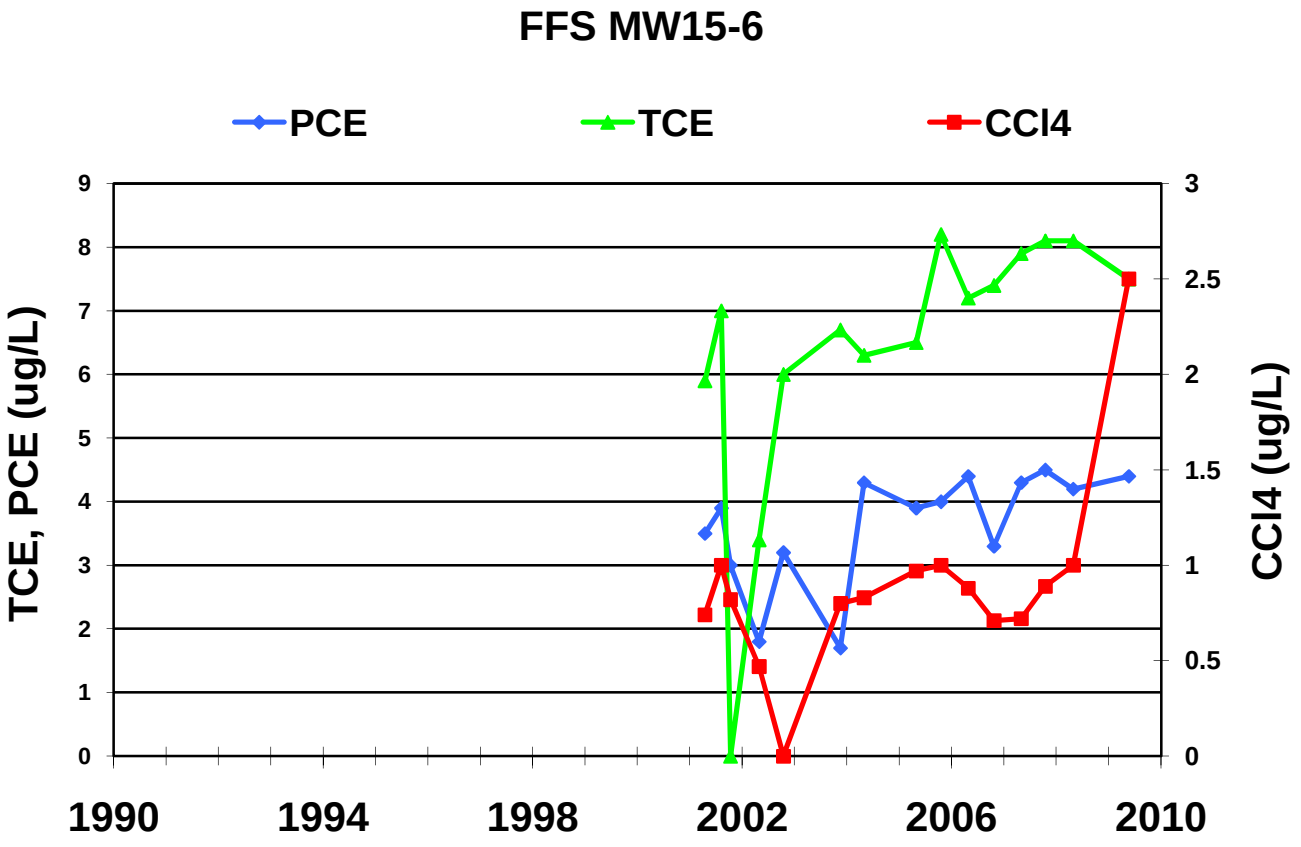

ACW PZ-09
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

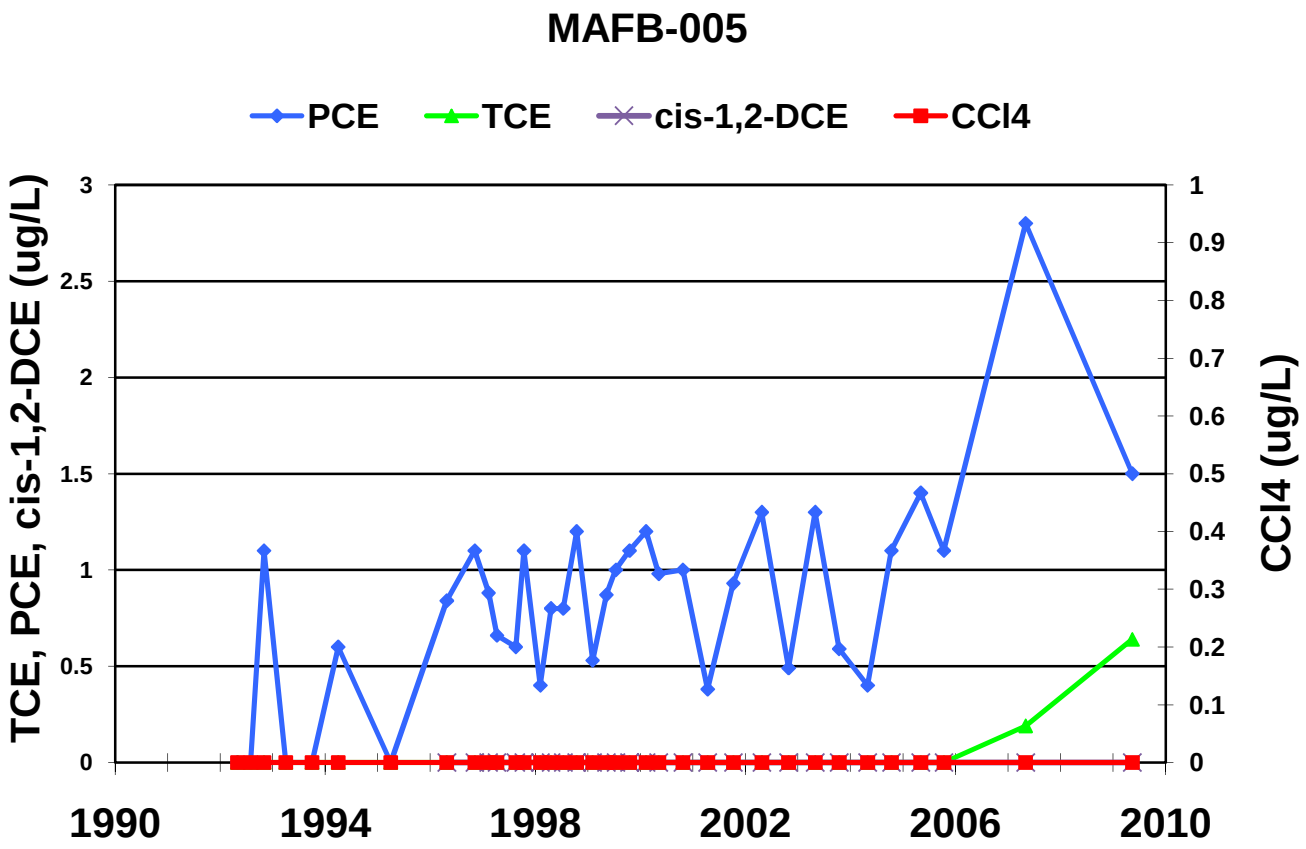

ACW PZ-09C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

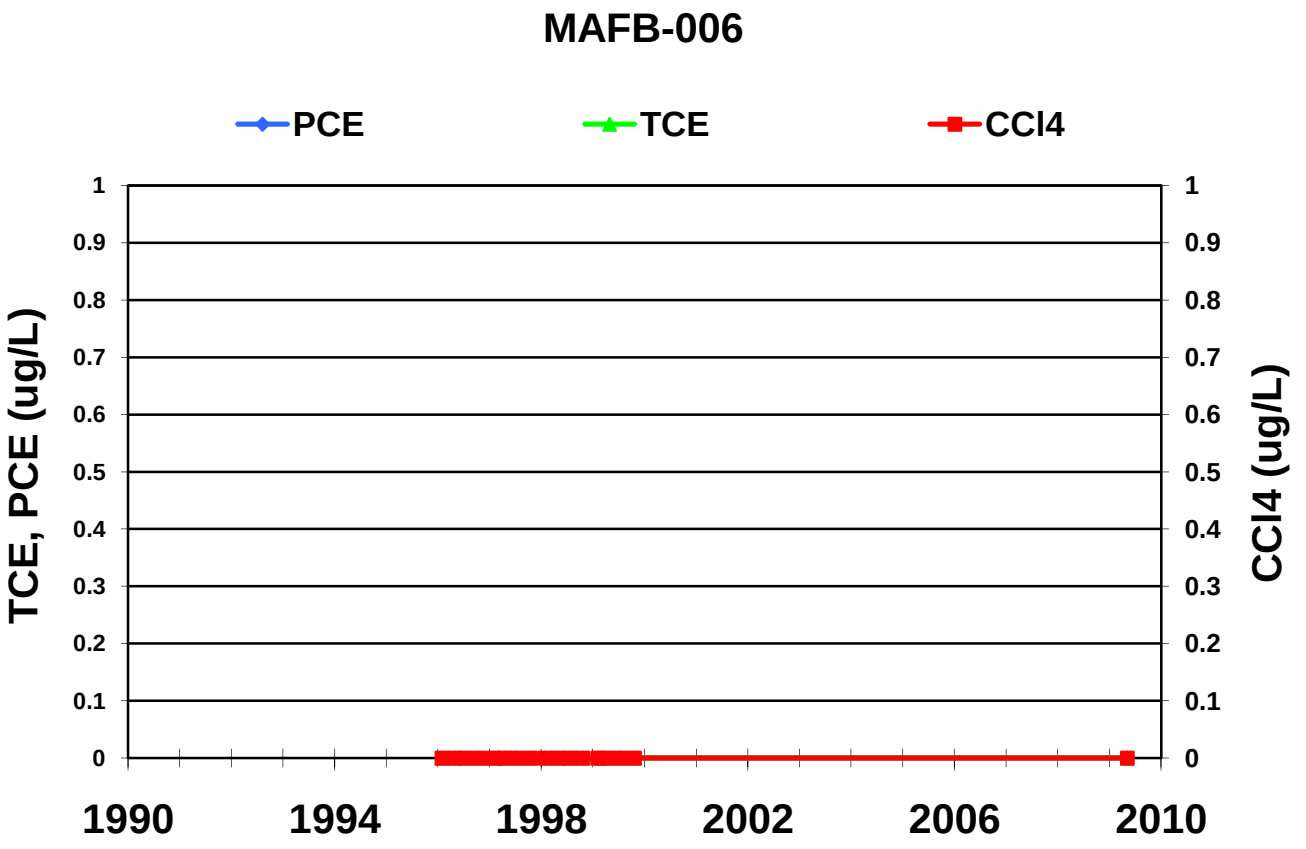

ACW PZ-10
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


ACW PZ-10C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

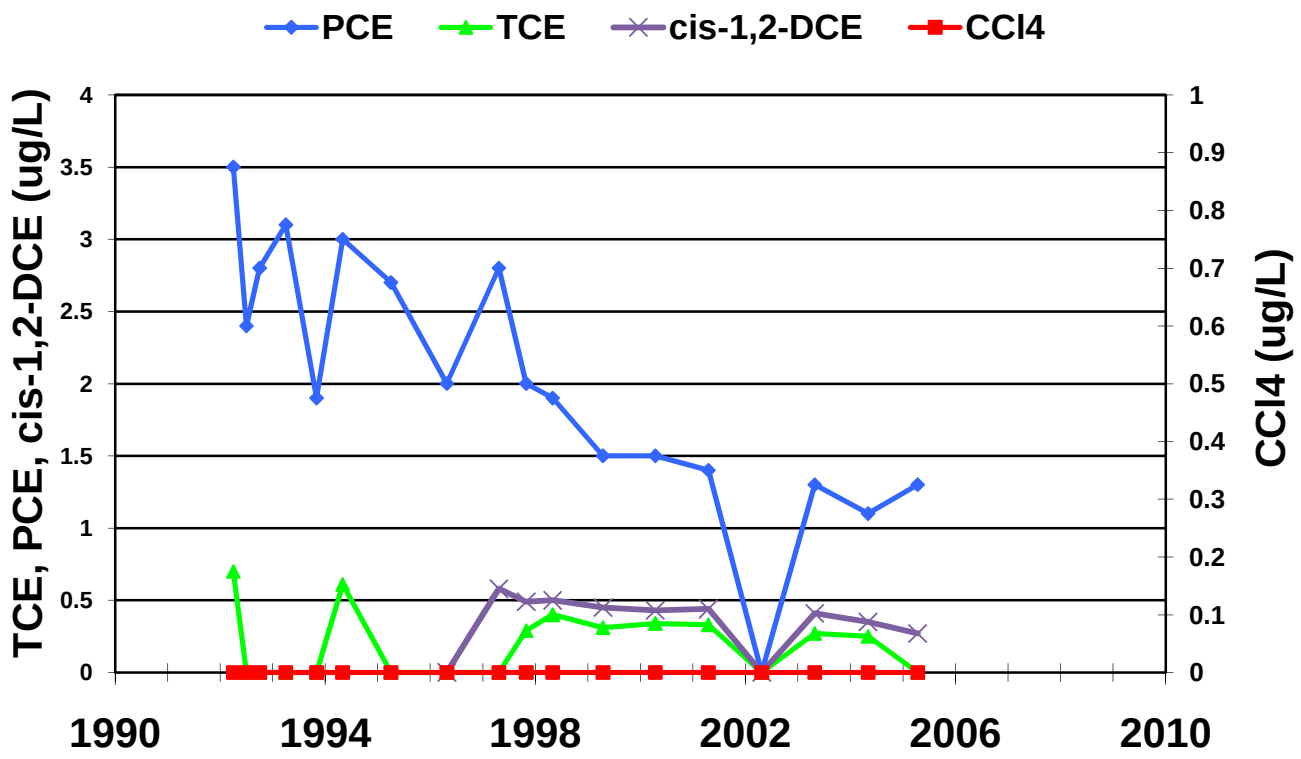

ACW R2
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


FFS MW15-6
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
9
8
7
6
5
4
3
2
1
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

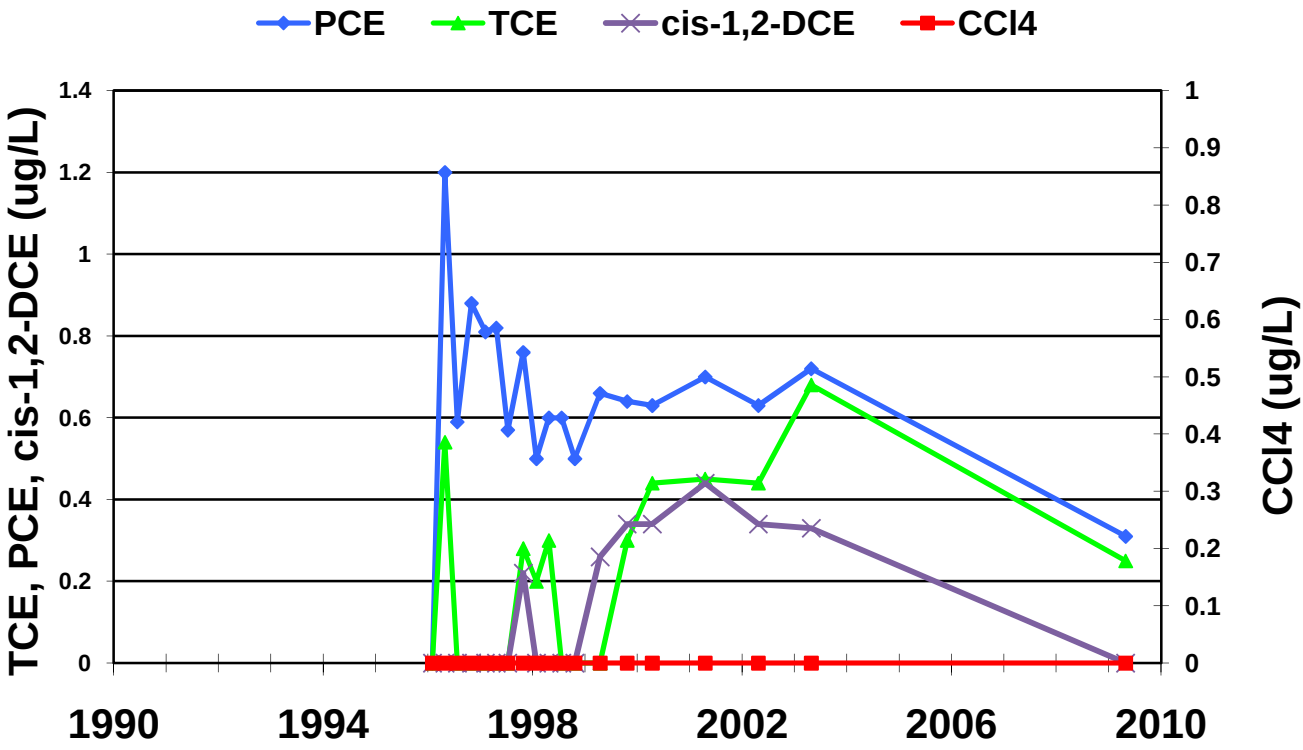

MAFB-005
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

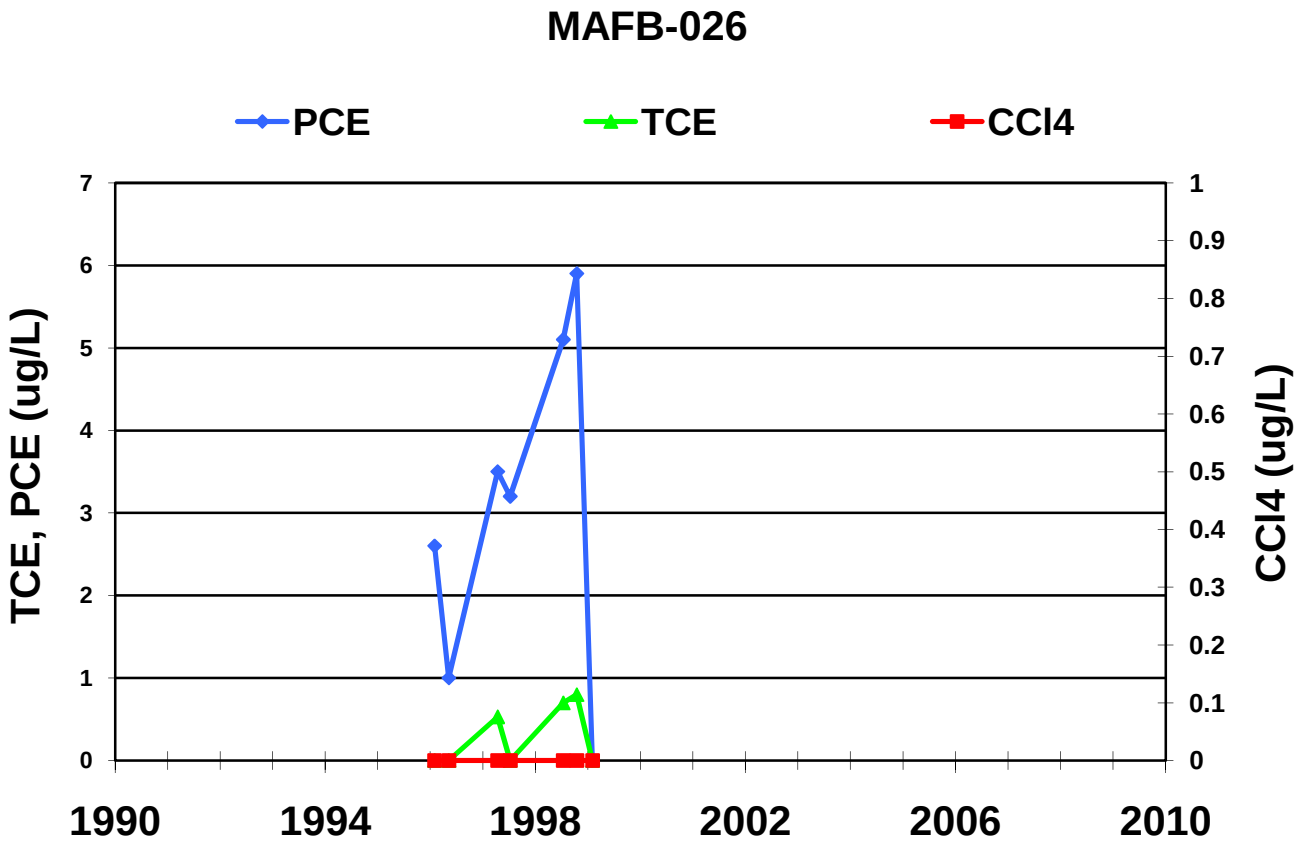

MAFB-006
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

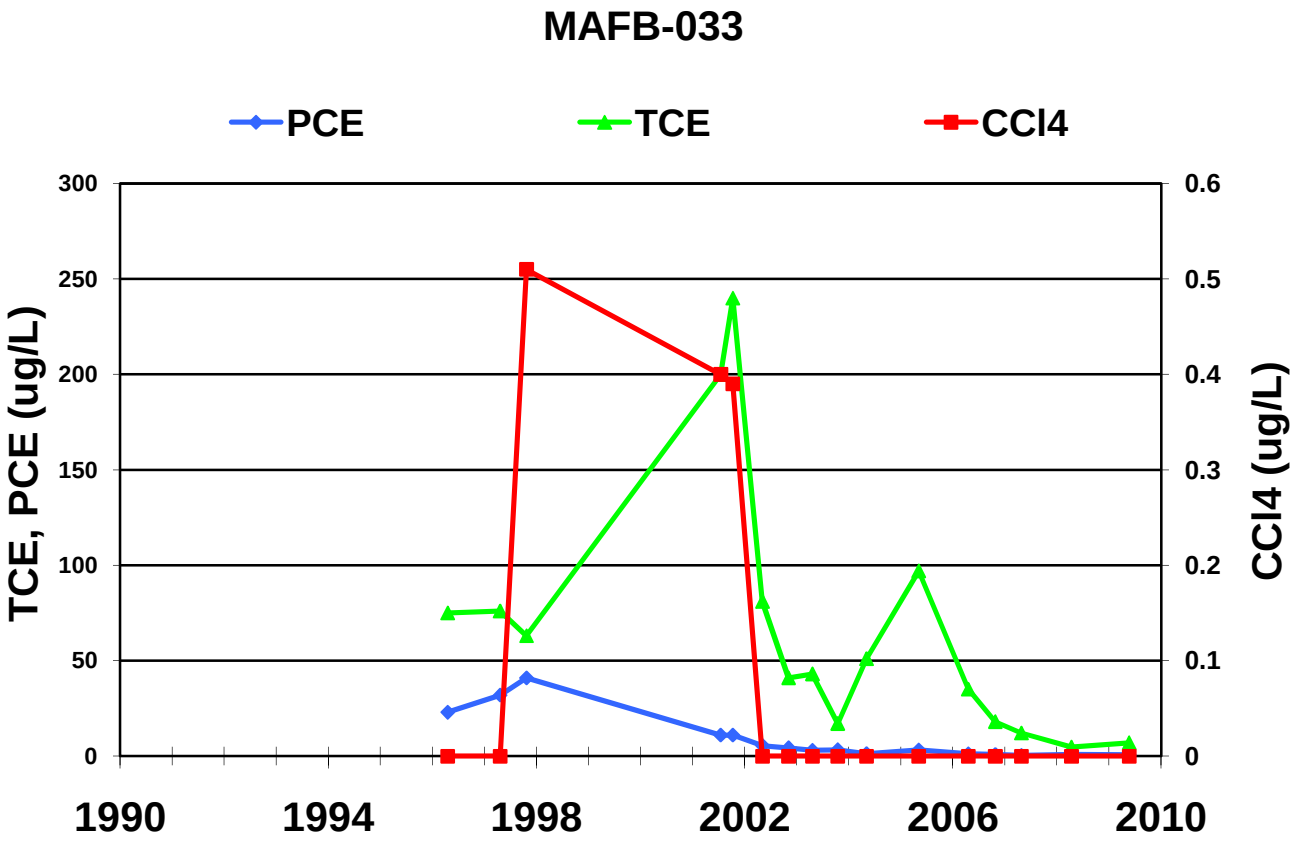
MAFB-012

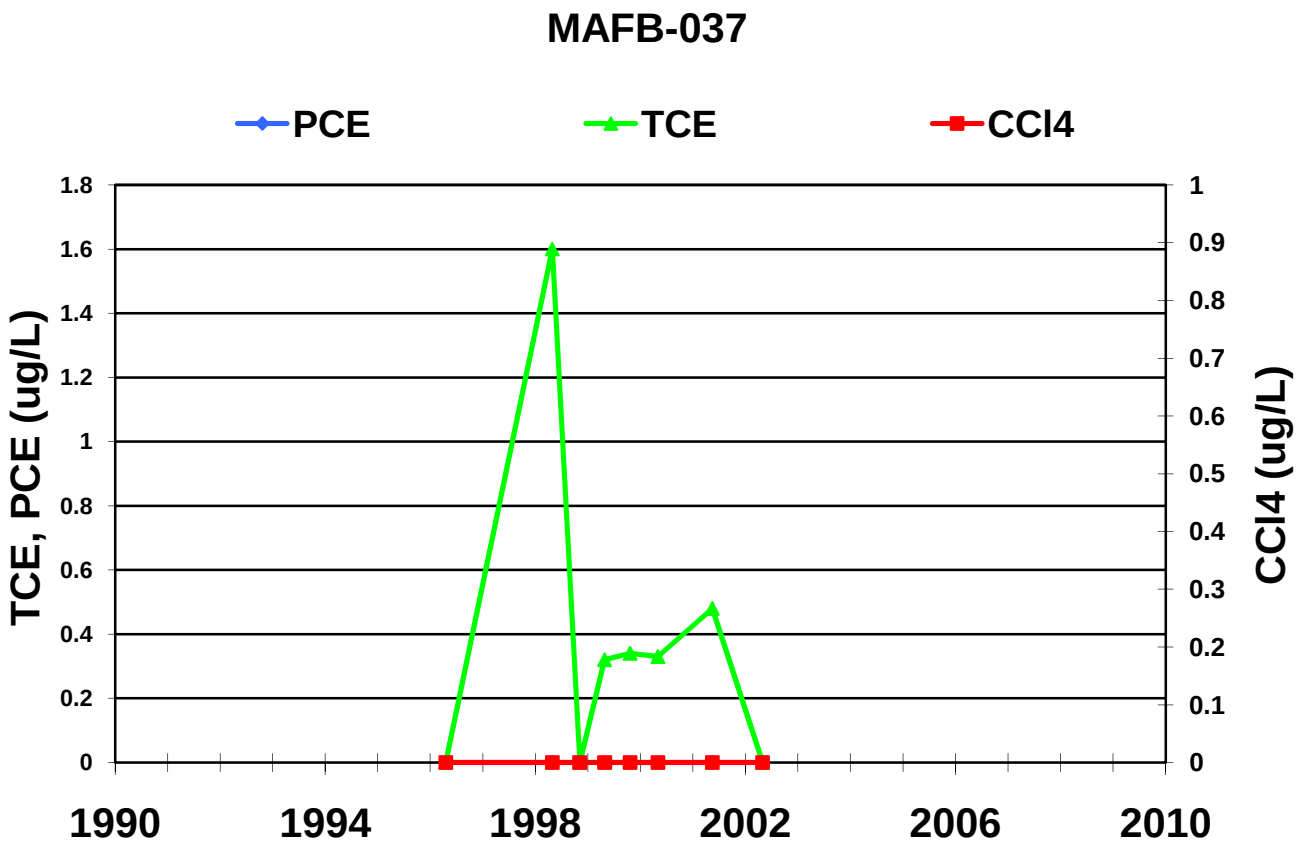


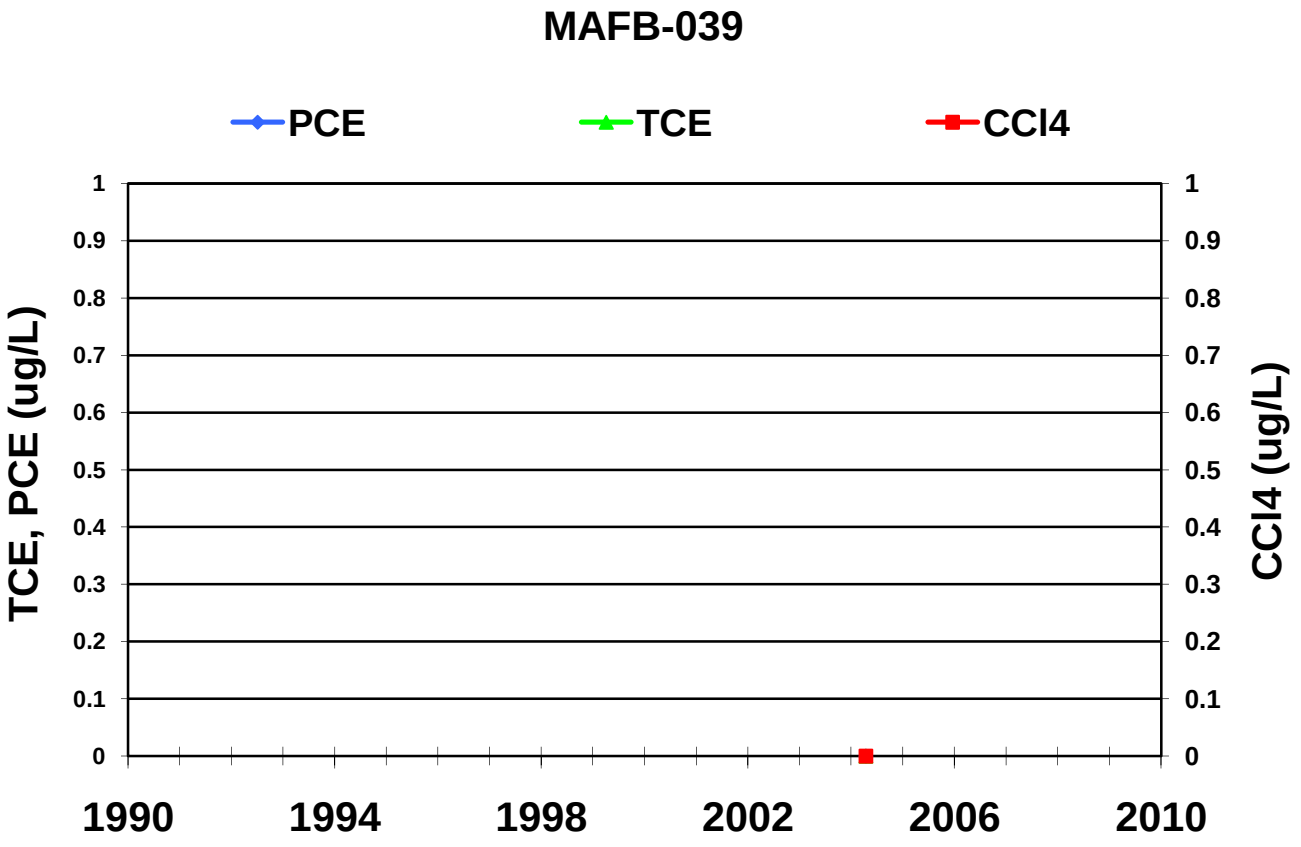
MAFB-013

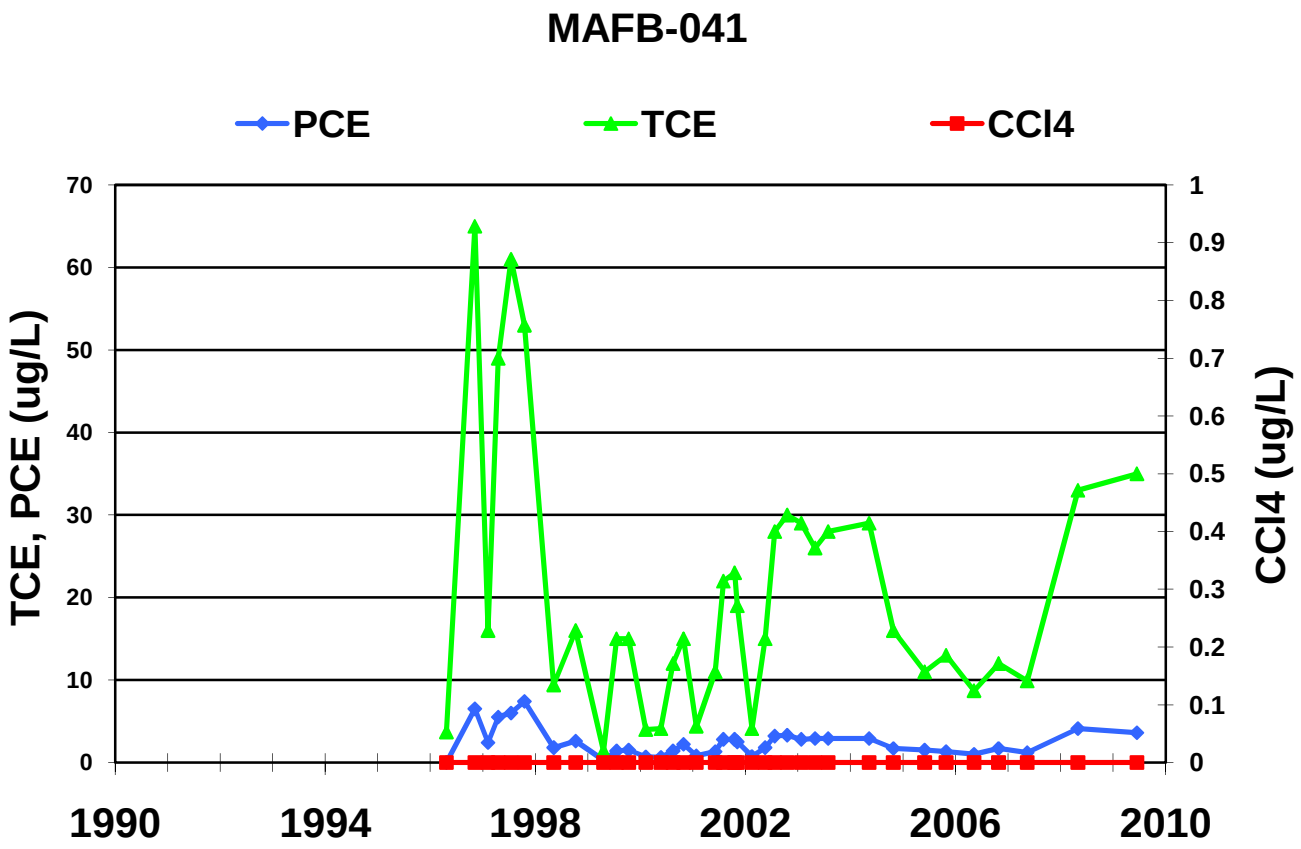


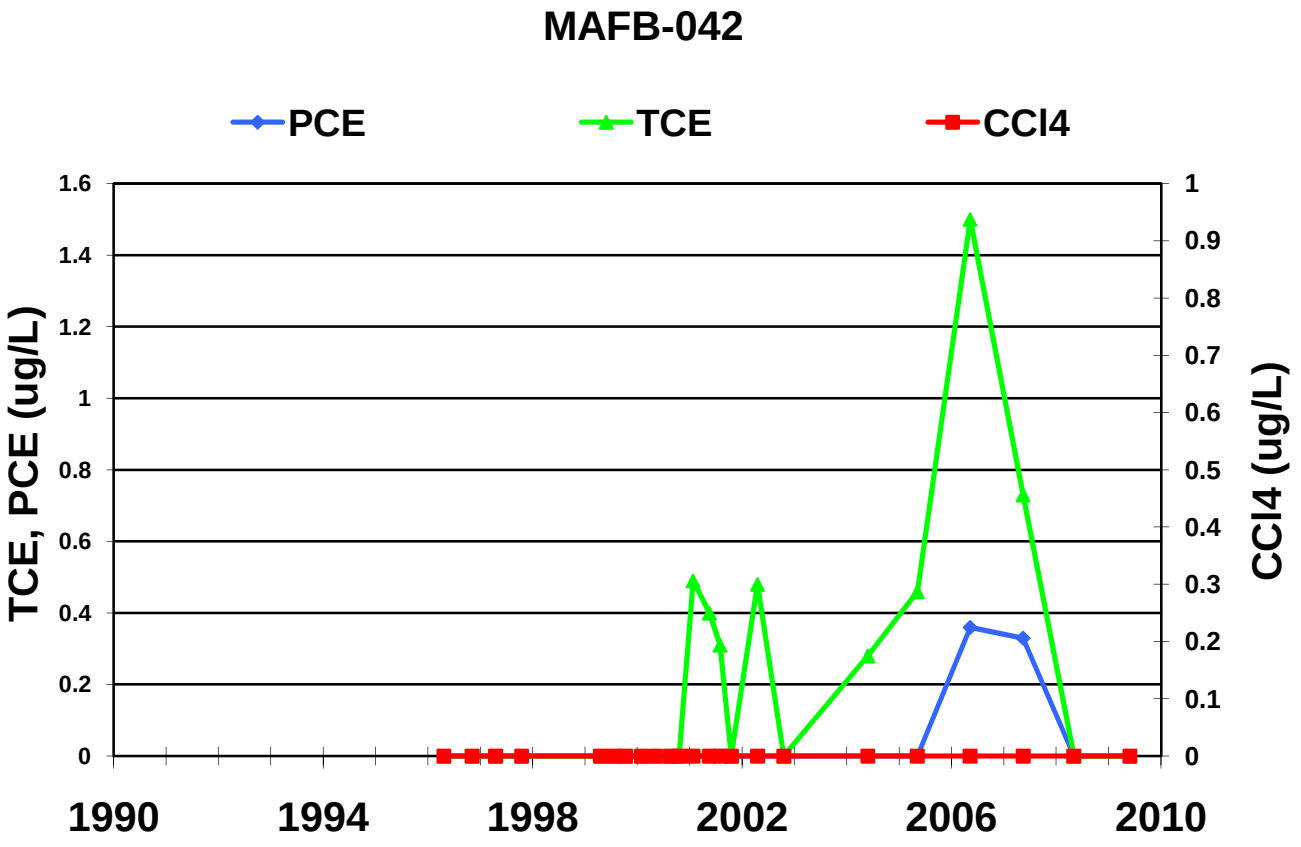

MAFB-026
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

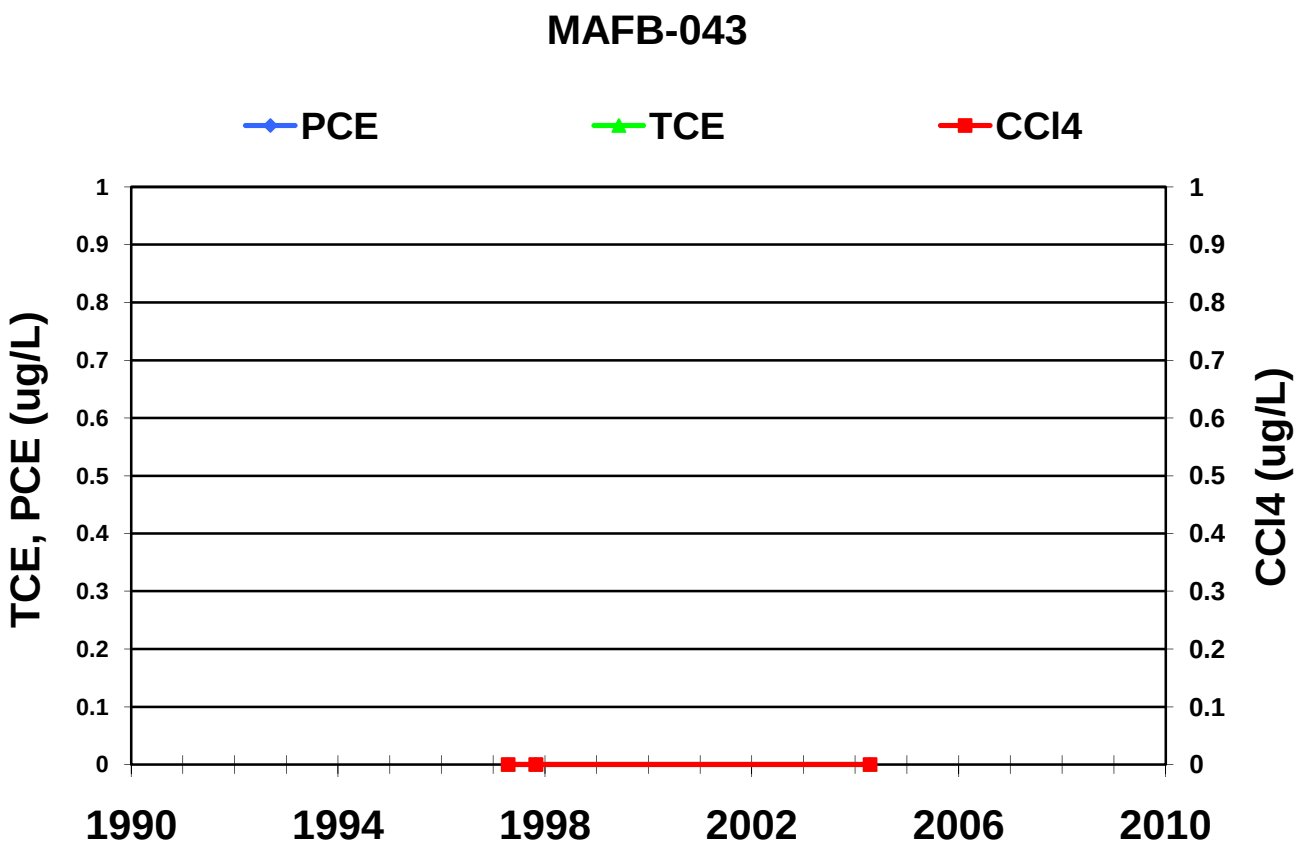

MAFB-033
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
50
100
150
200
250
300
0
0.1
0.2
0.3
0.4
0.5
0.6
1990
1994
1998
2002
2006
2010

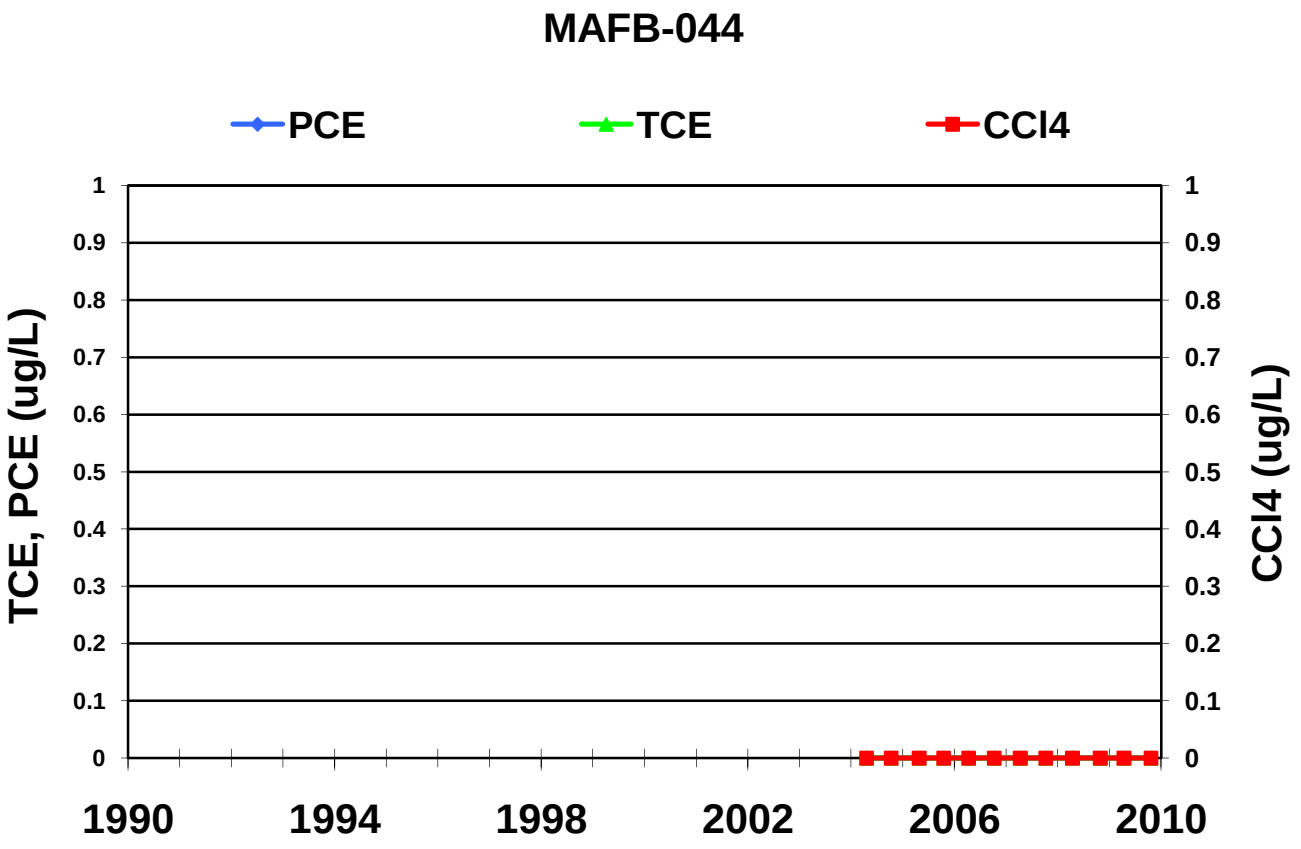

MAFB-037
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-039
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

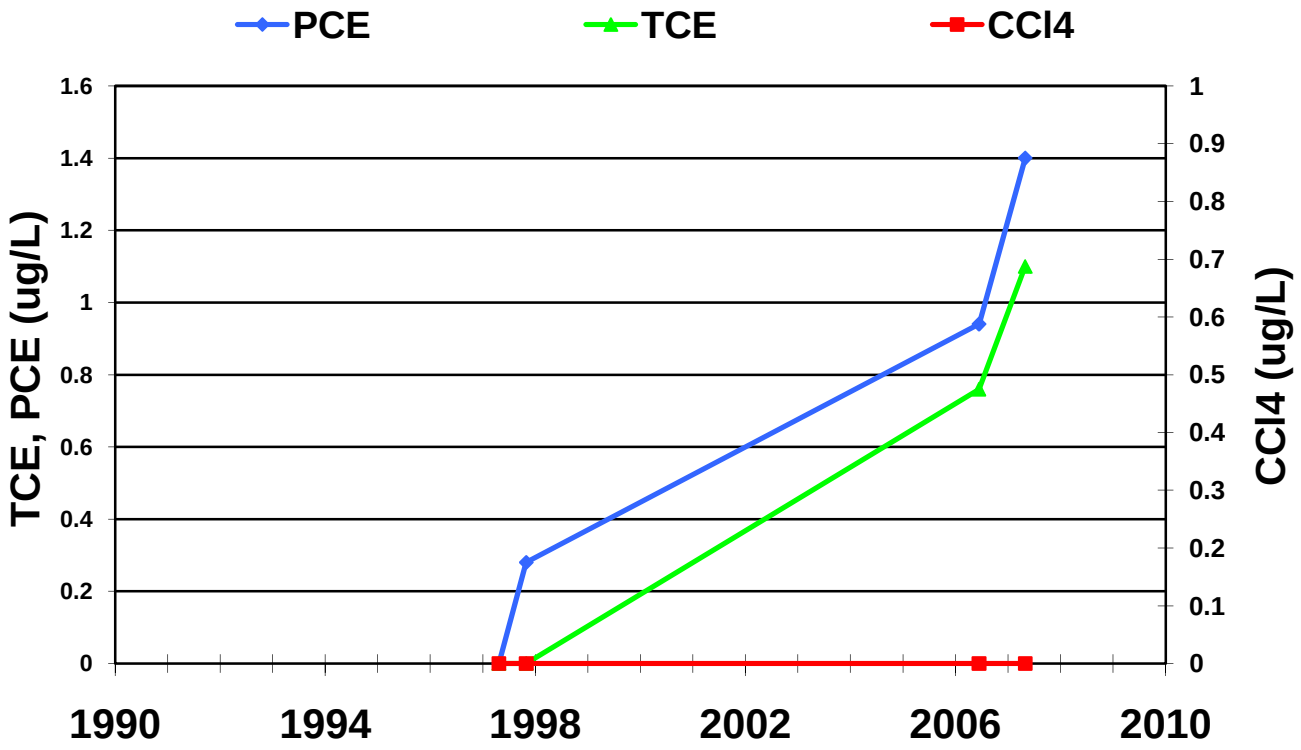

MAFB-041
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-042
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

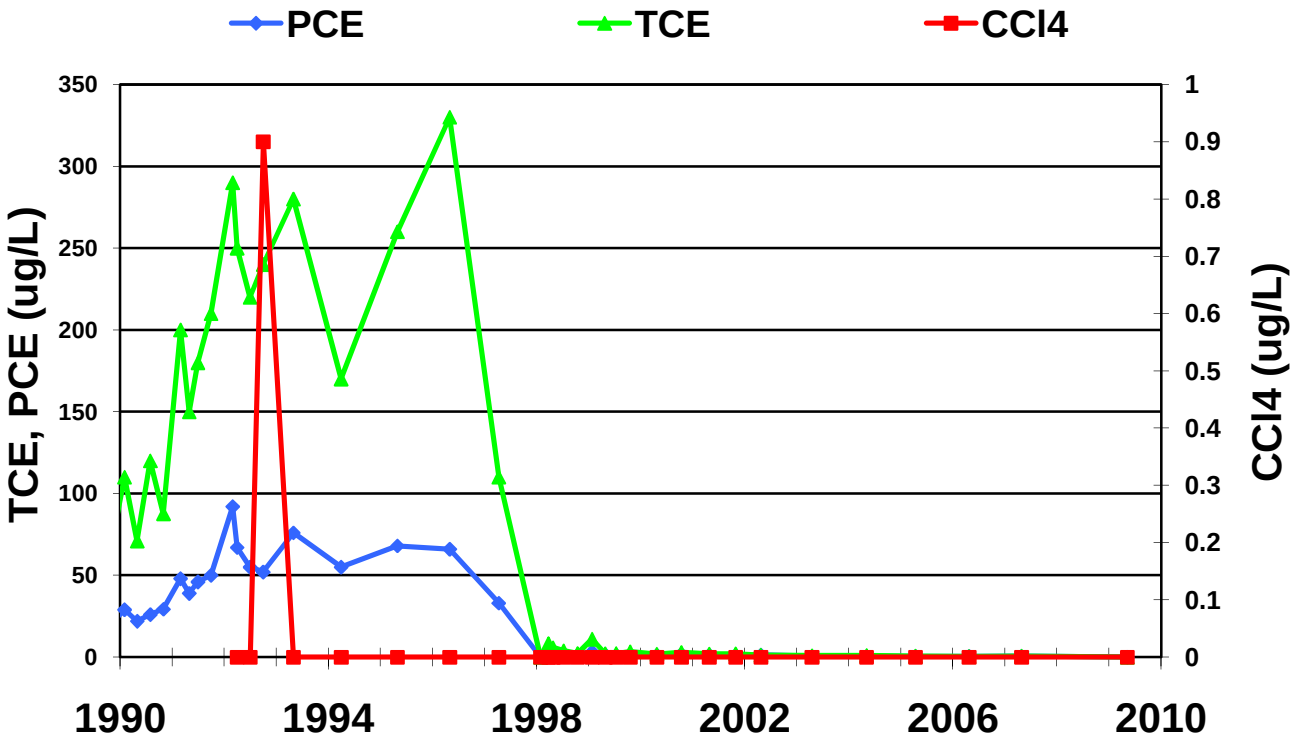

MAFB-043
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-044
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

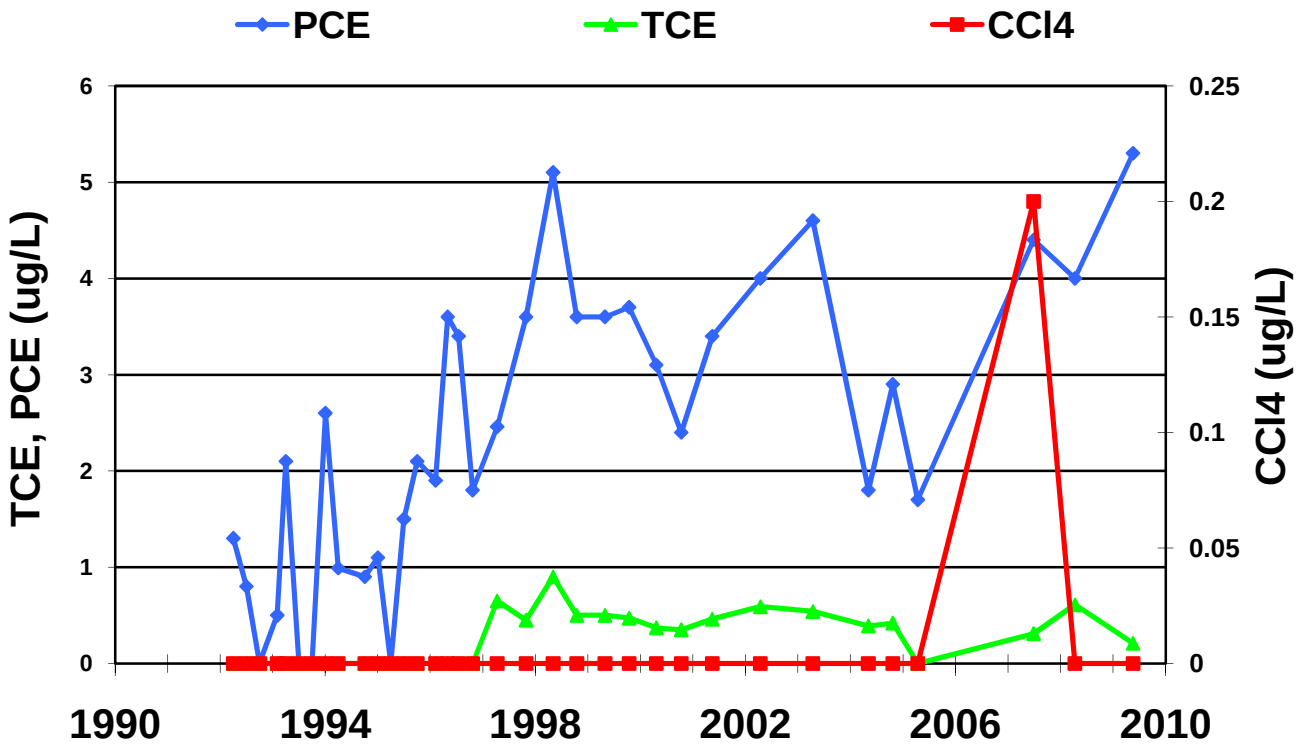
MAFB-046



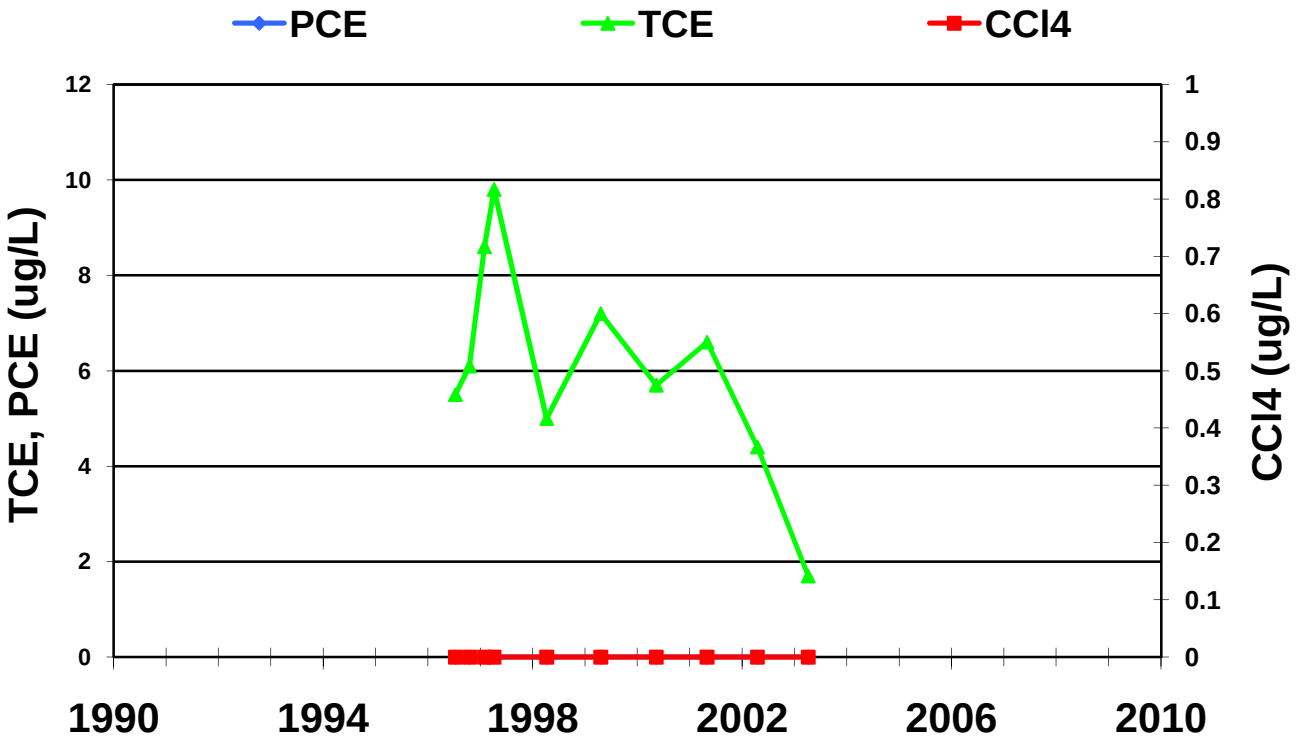
MAFB-047

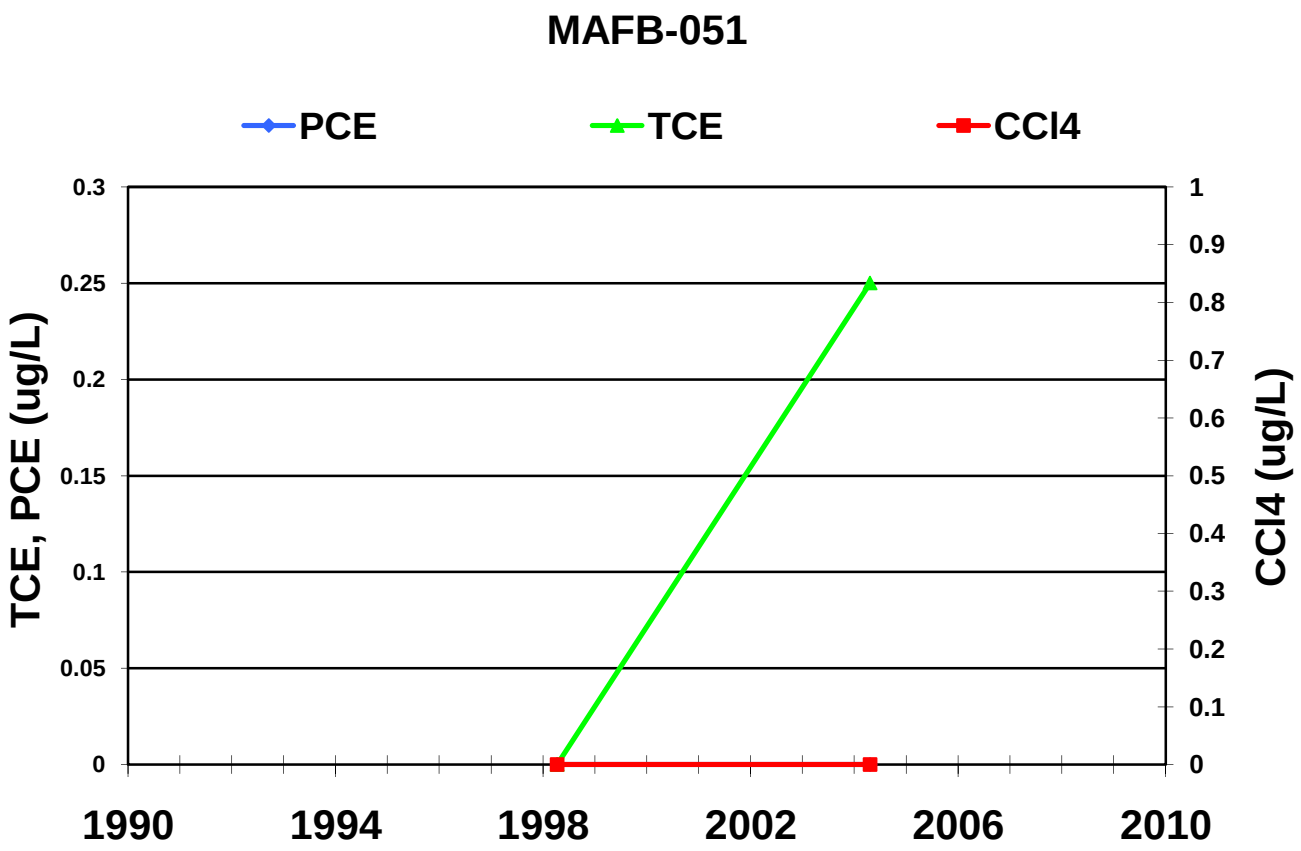


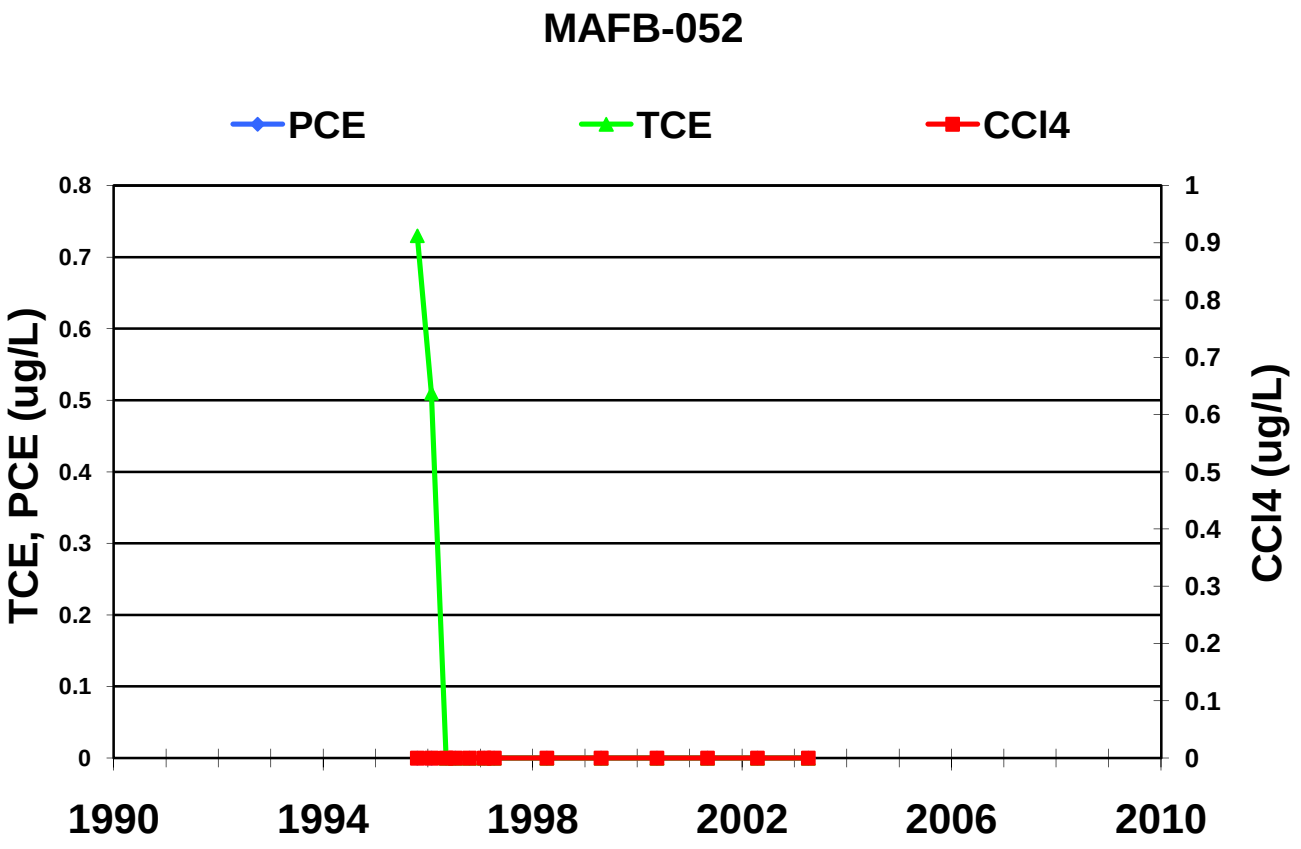
MAFB-048

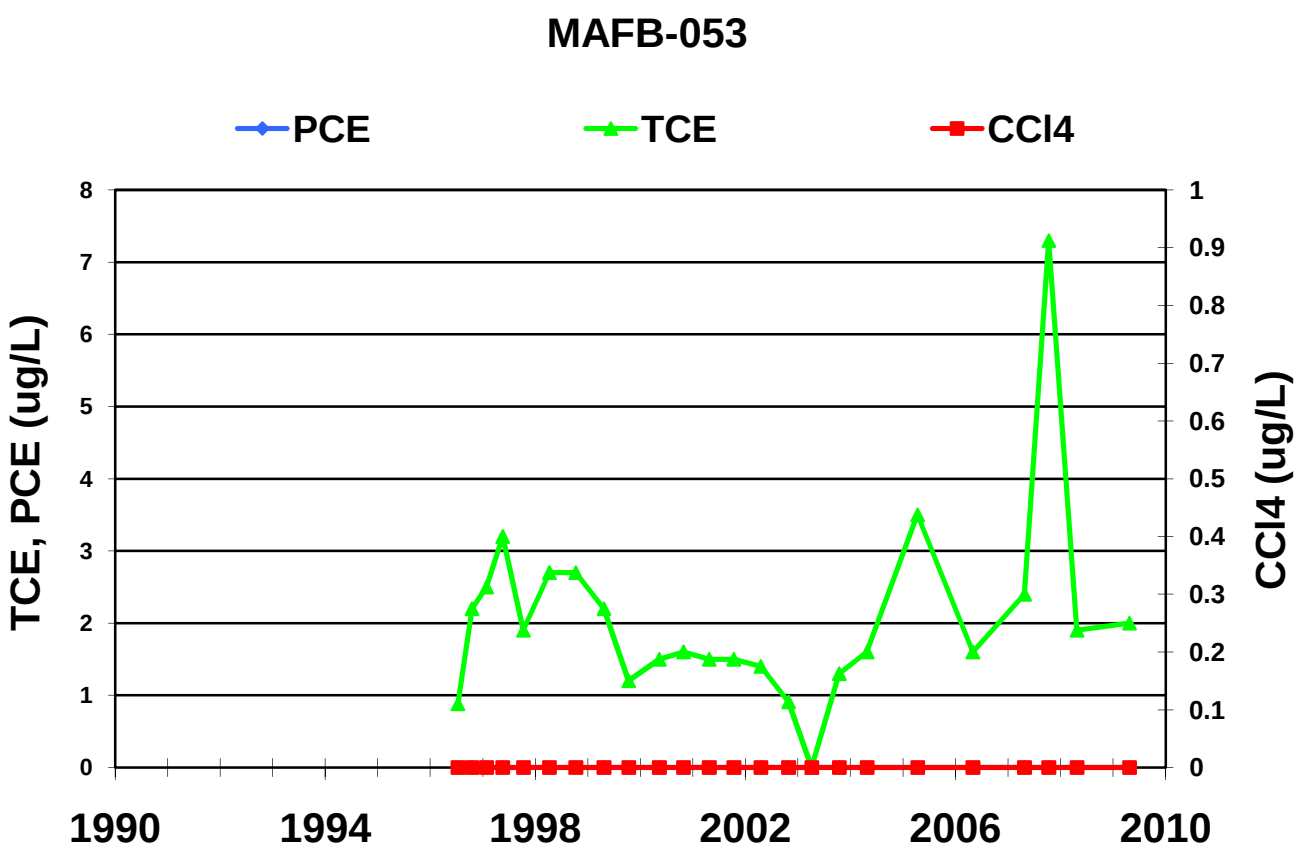


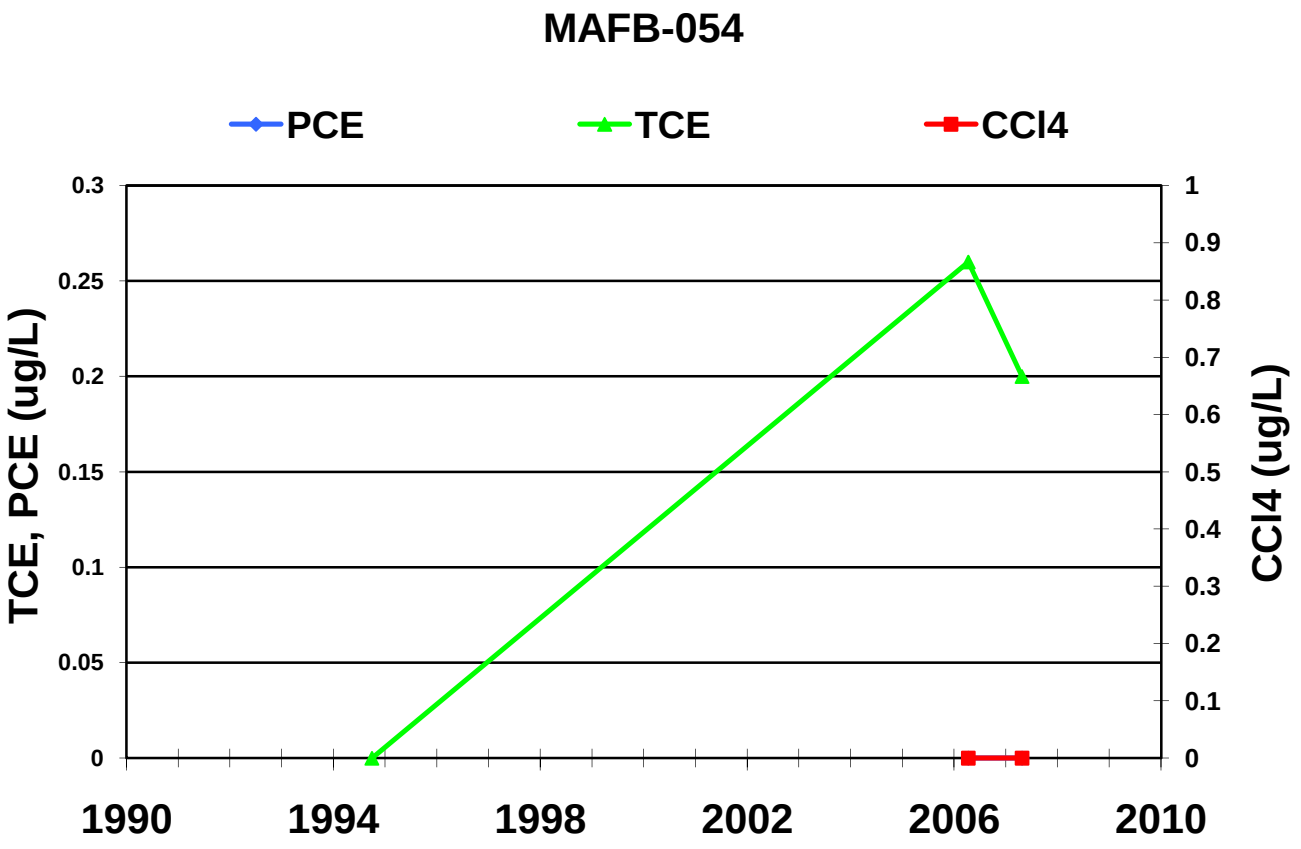
MAFB-050

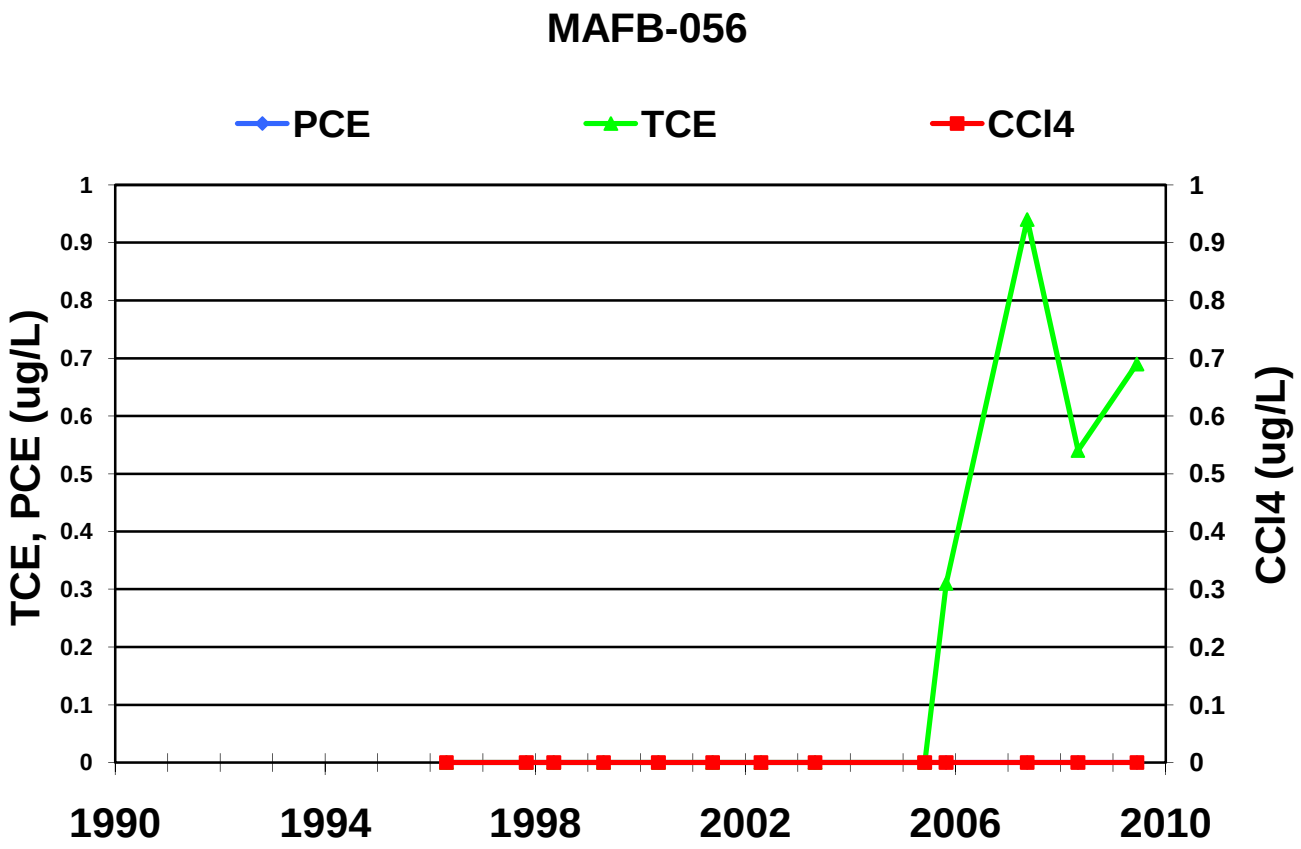


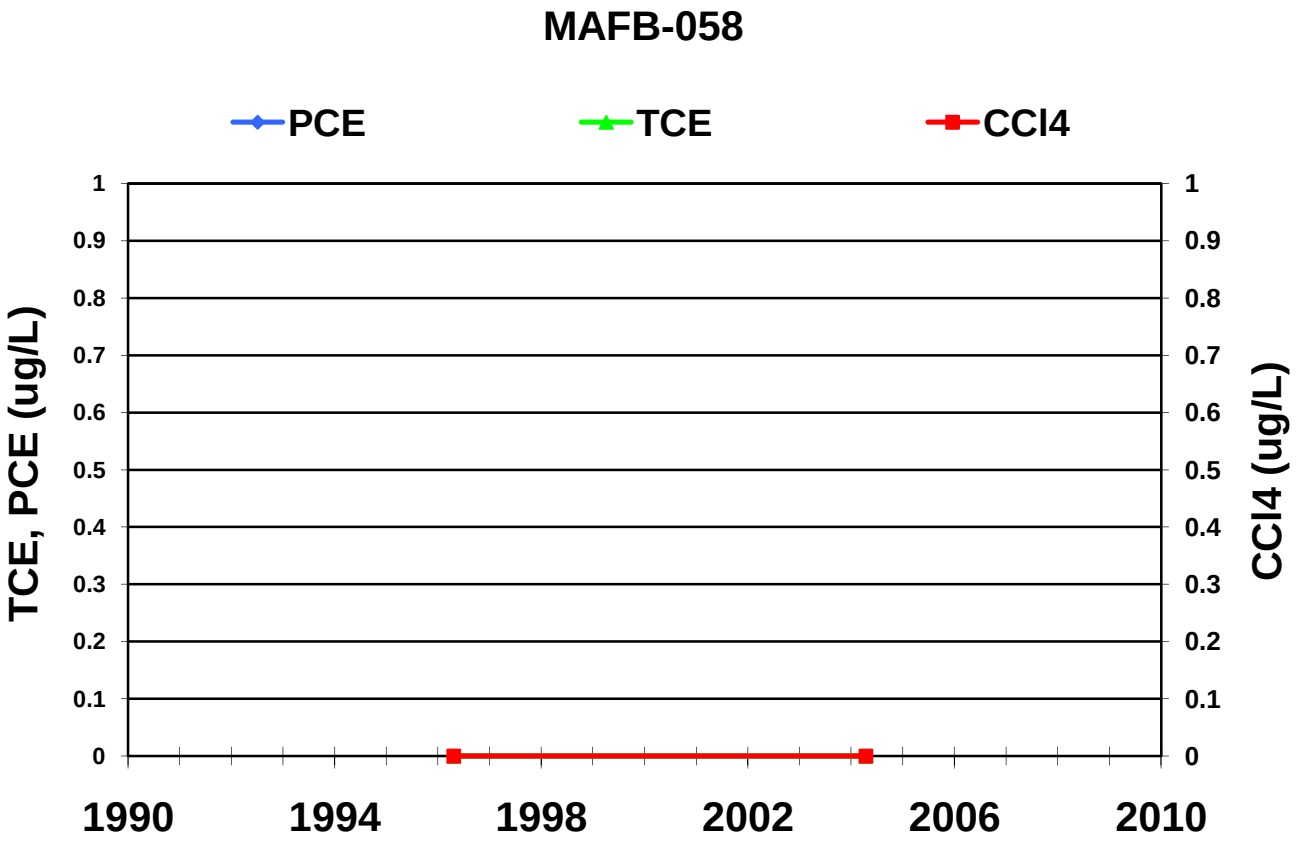

MAFB-051
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

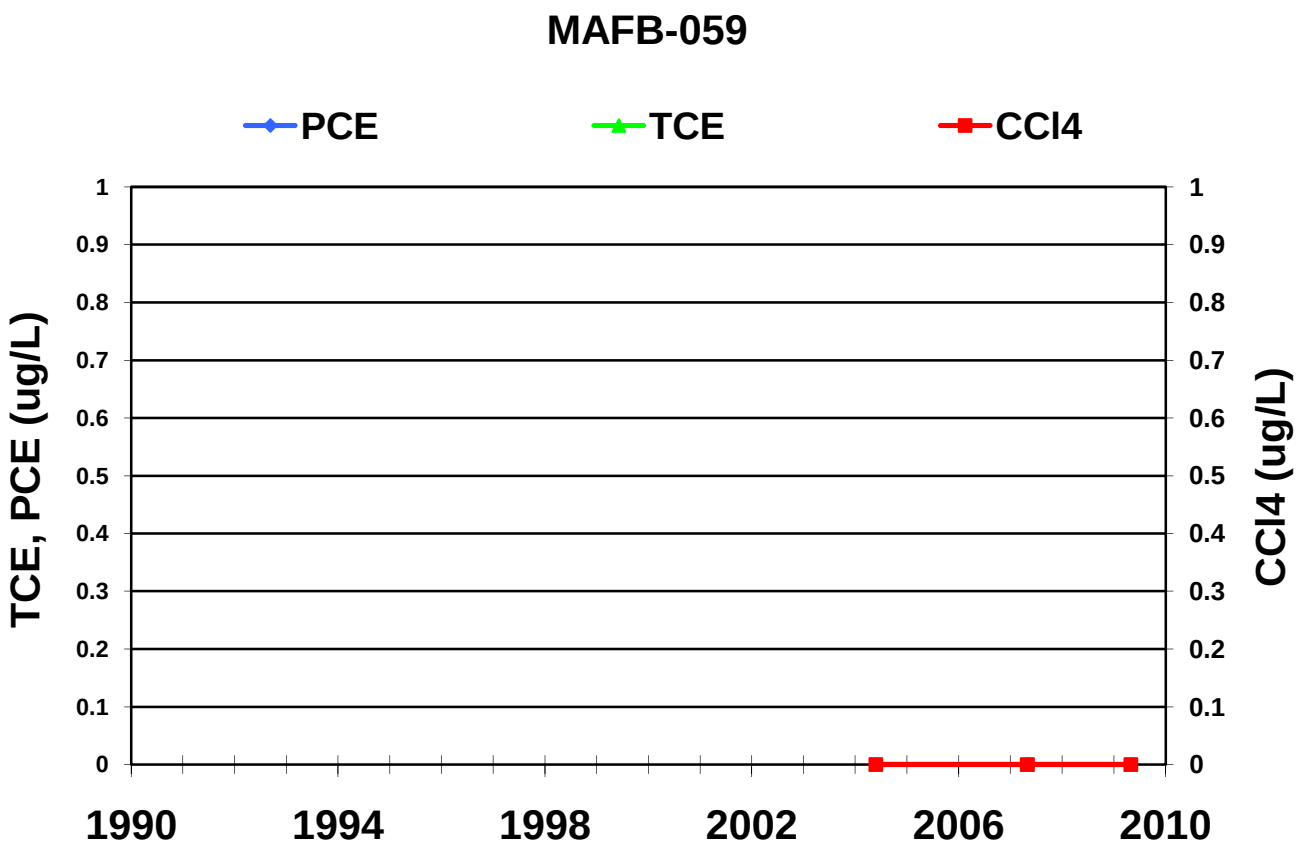

MAFB-052
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

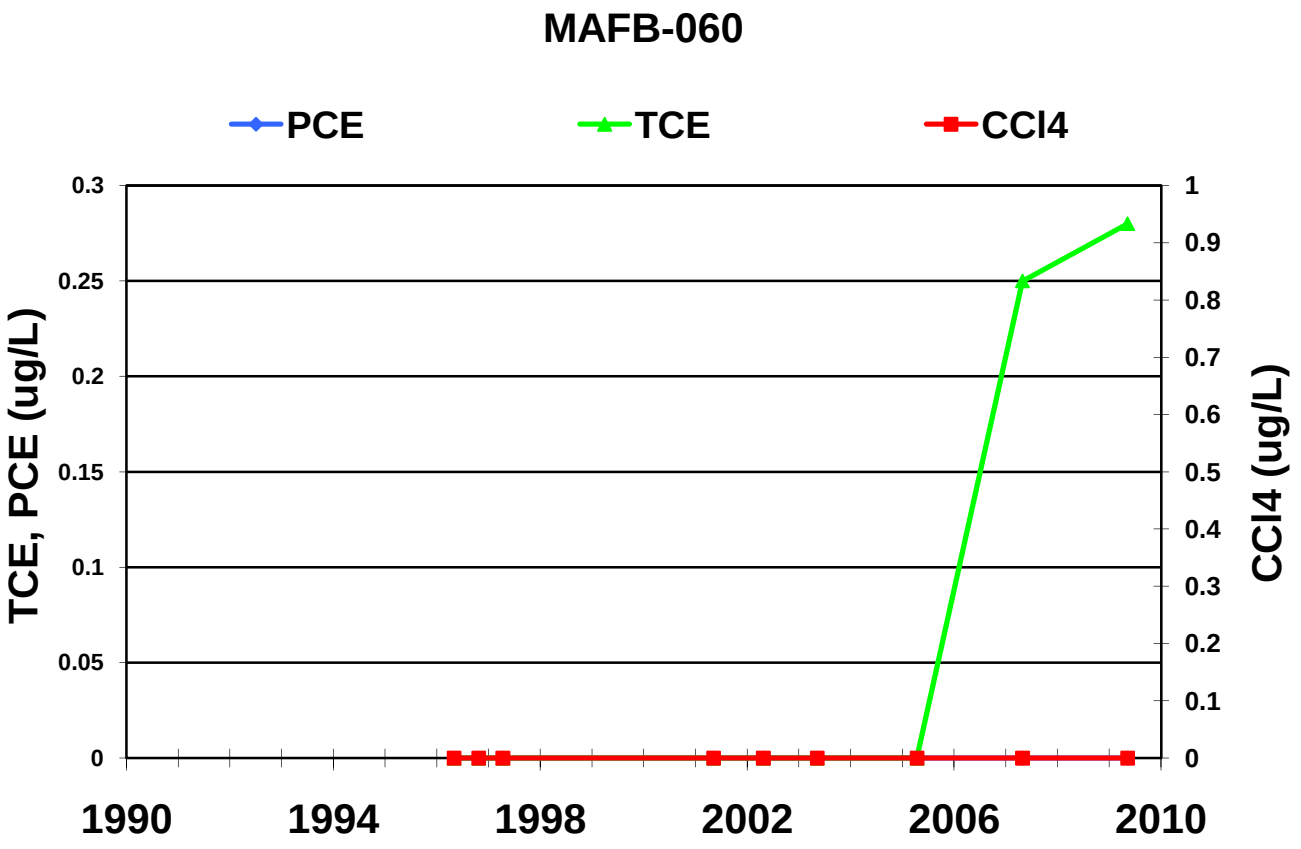

MAFB-053
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

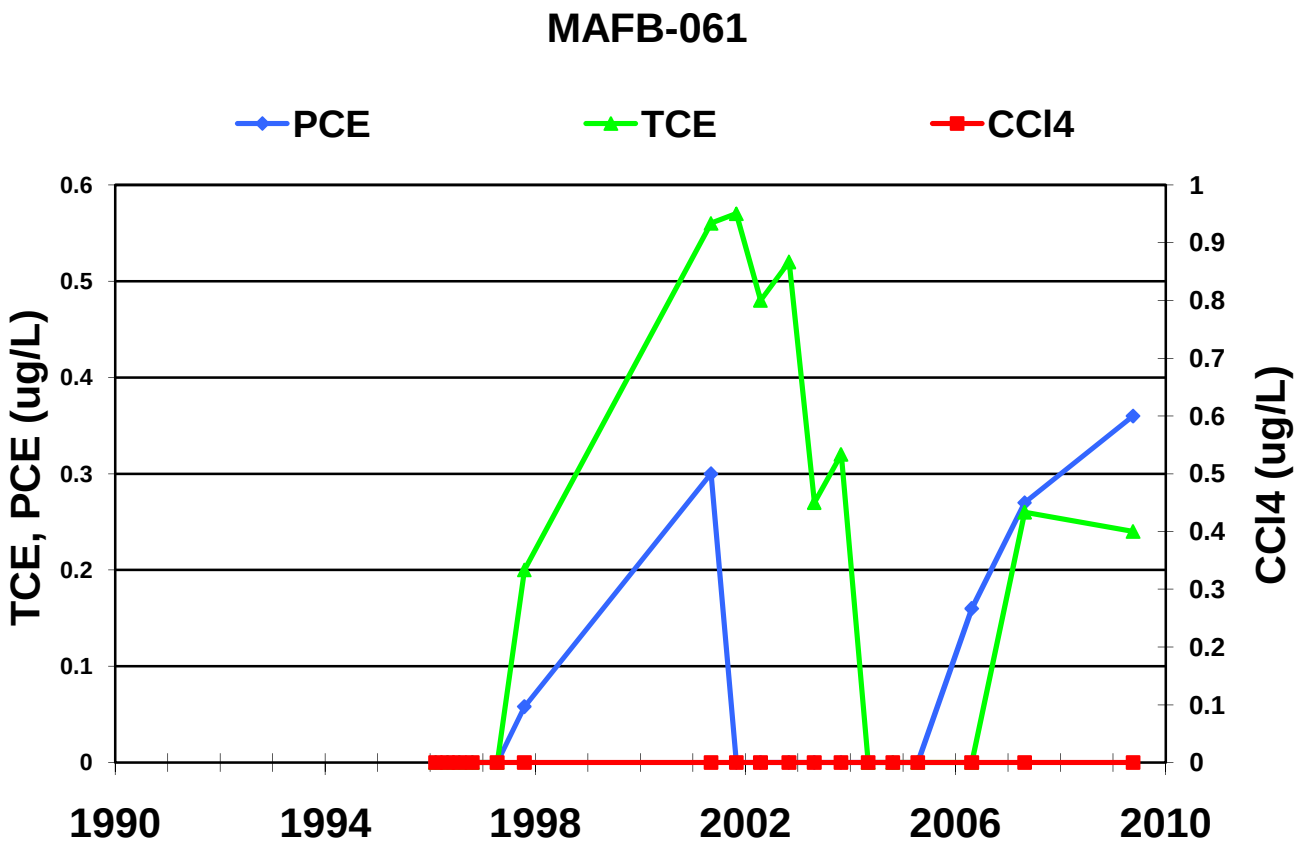

MAFB-054
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.05
0.1
0.15
0.2
0.25
0.3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

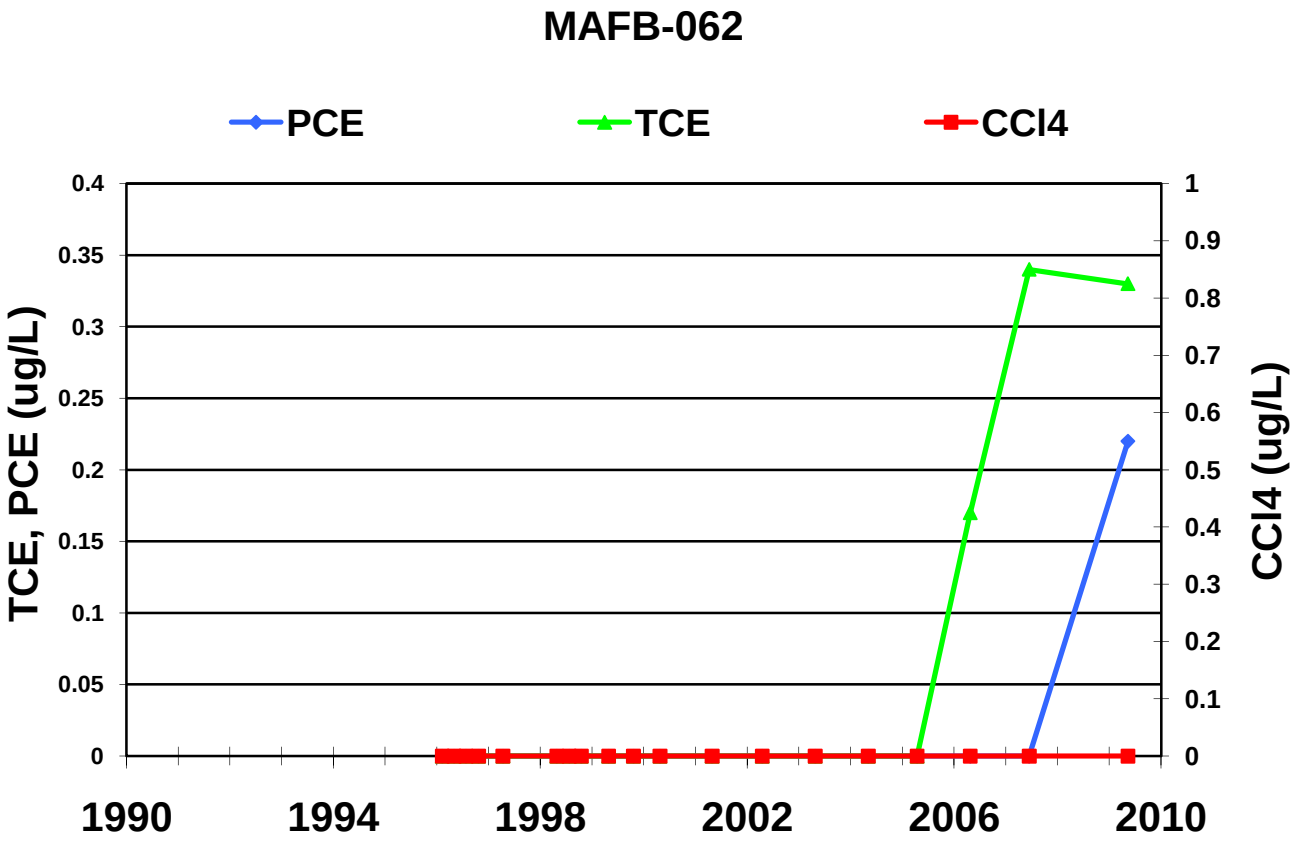

MAFB-056
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

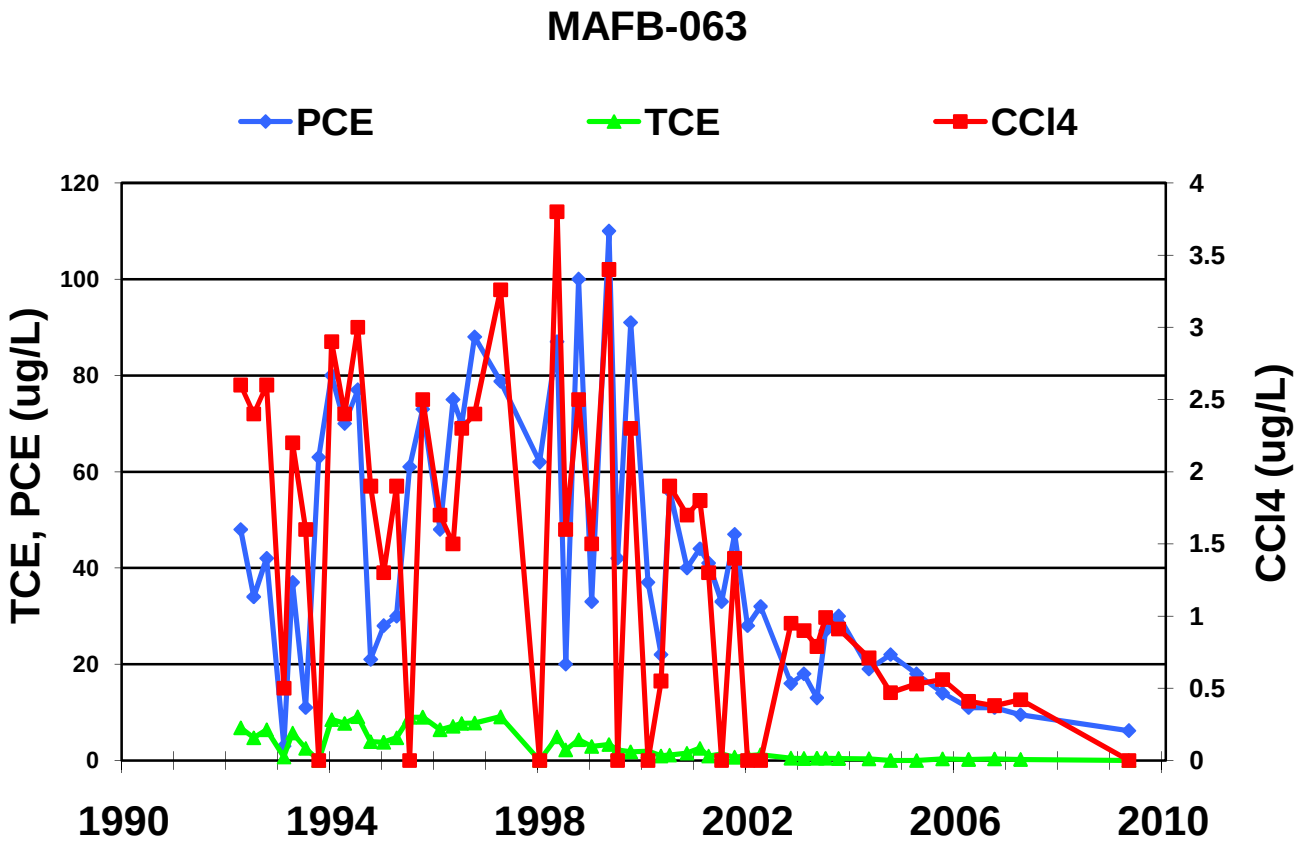

MAFB-058
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

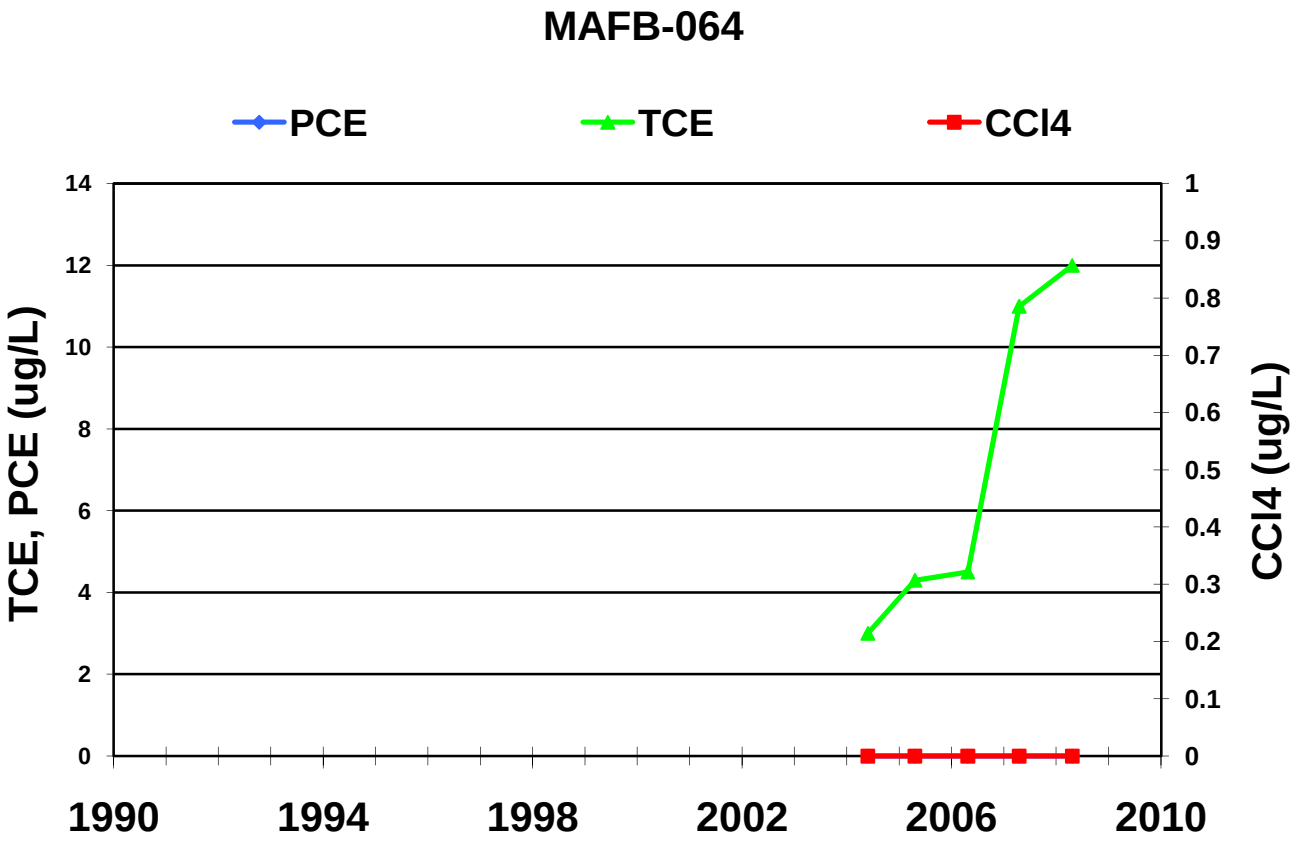

MAFB-059
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

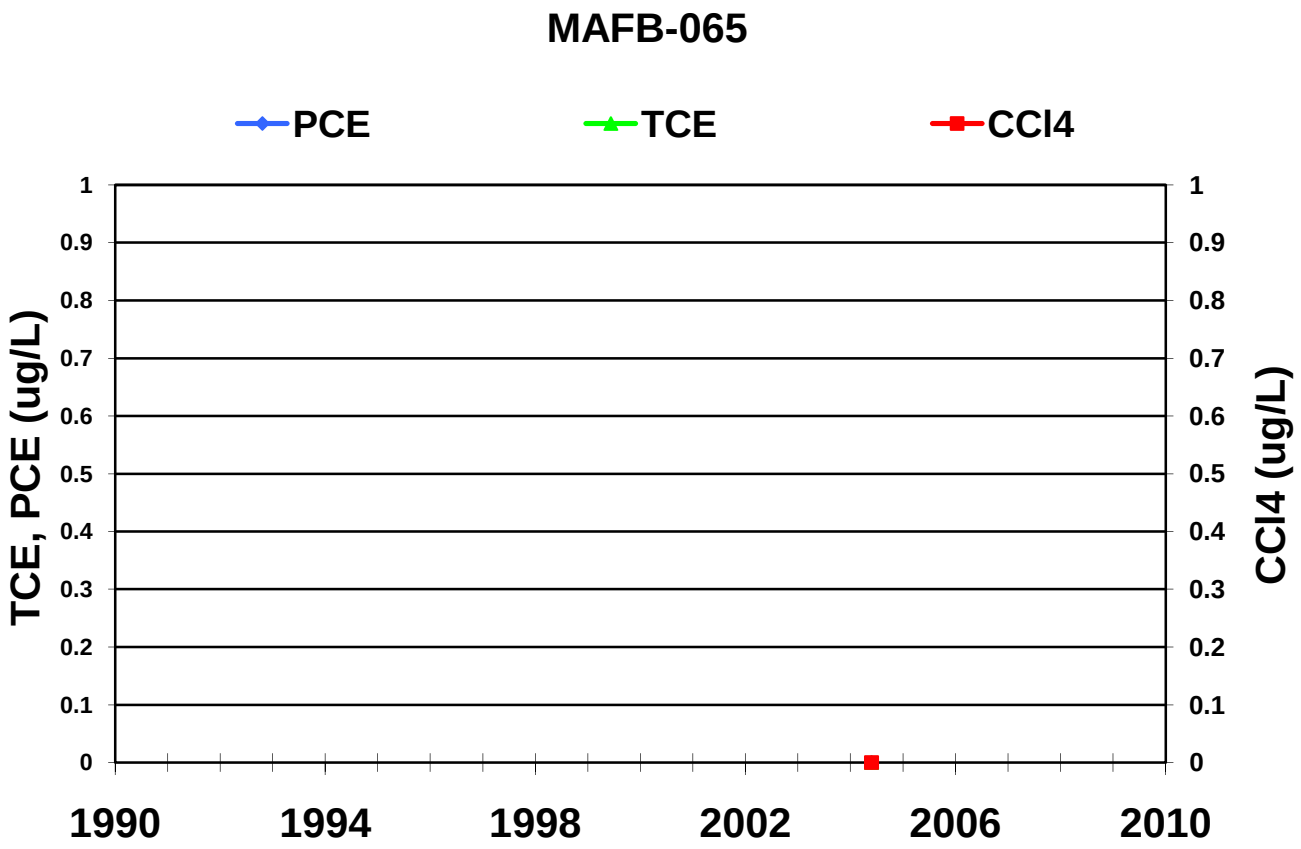

MAFB-060
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

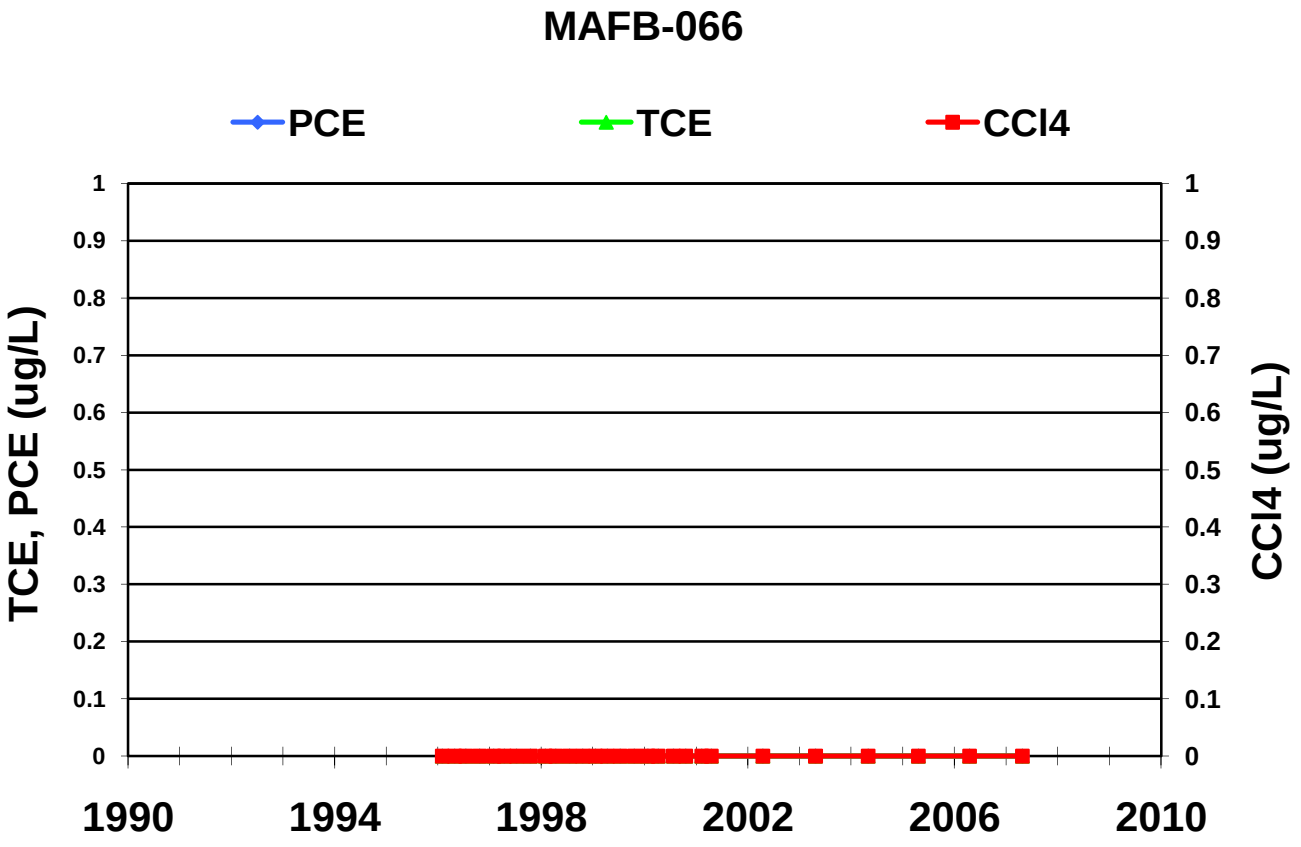

MAFB-061
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

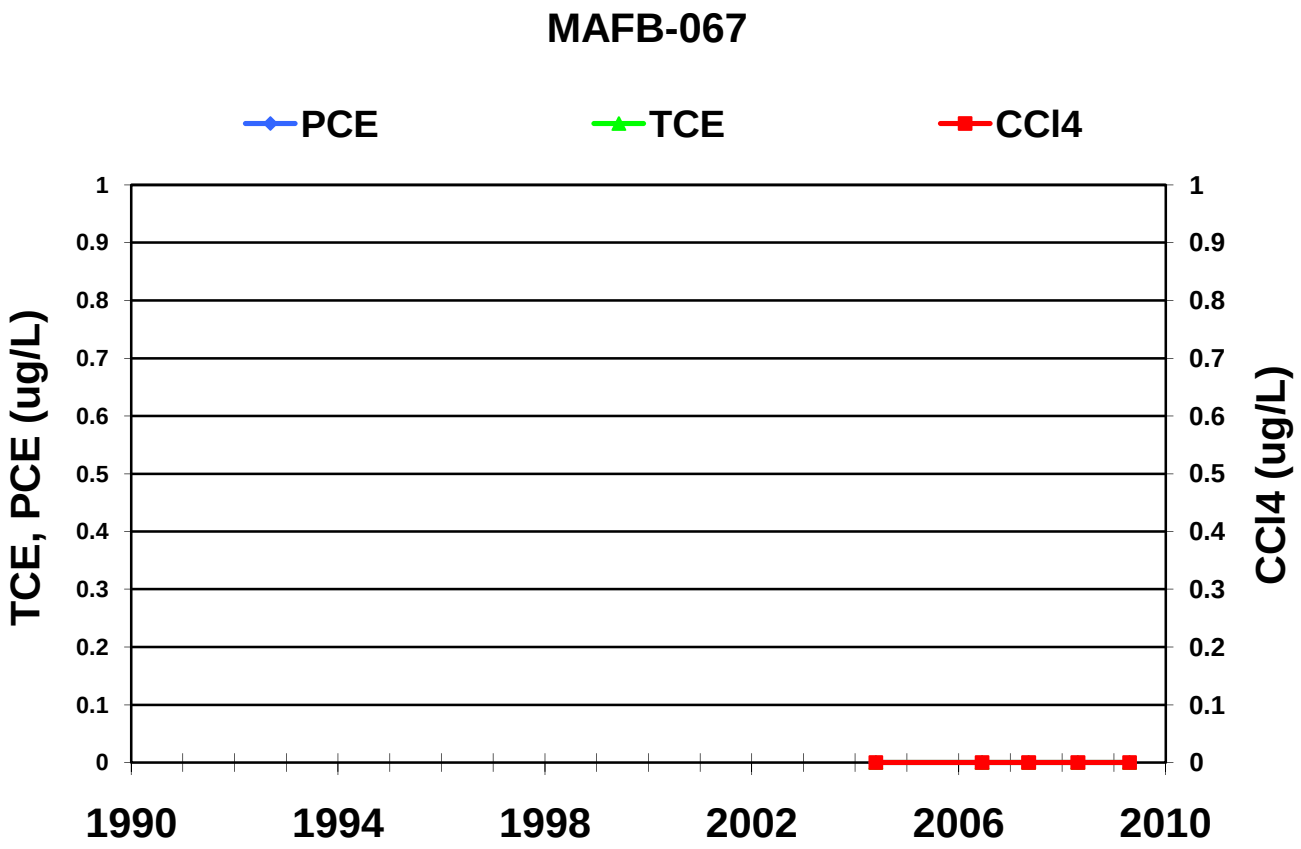

MAFB-062
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

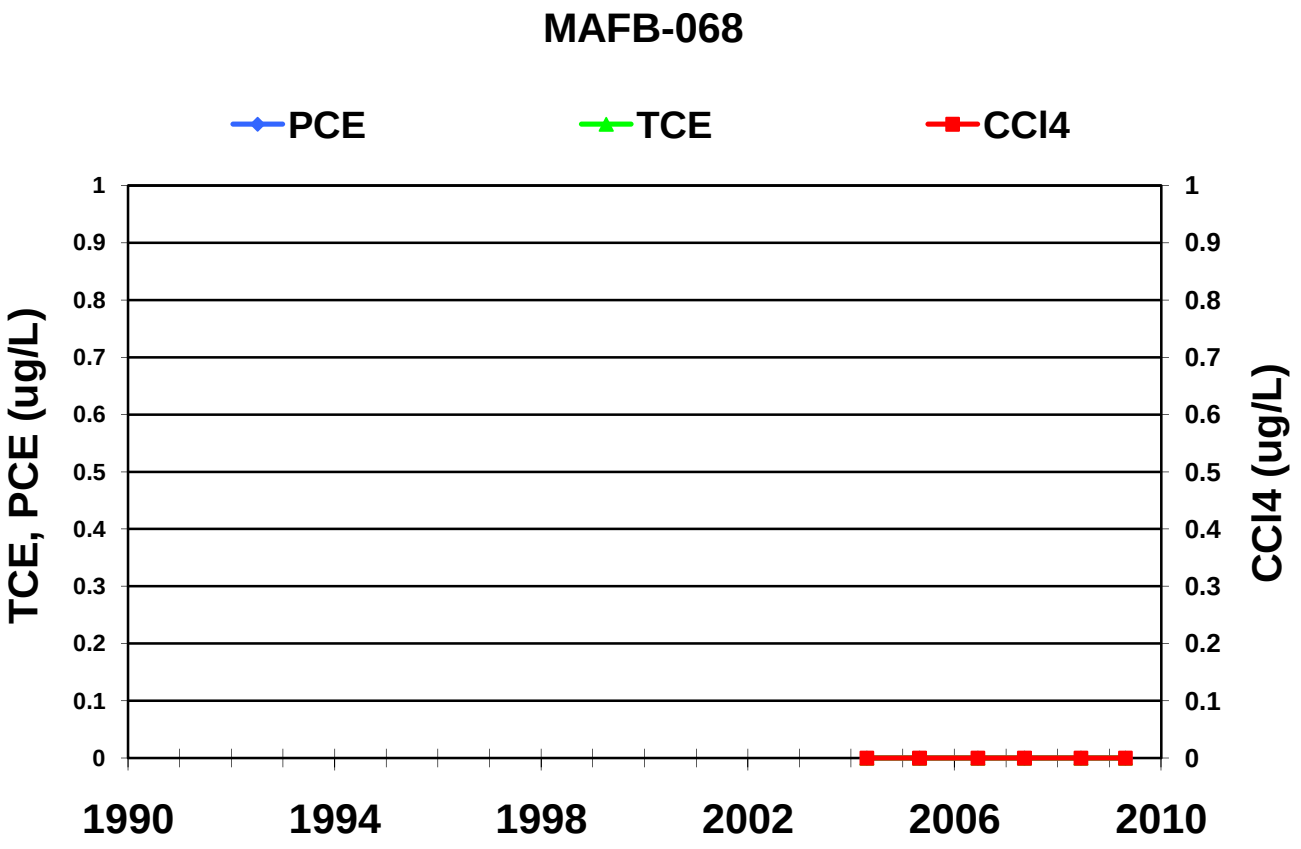

MAFB-063
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

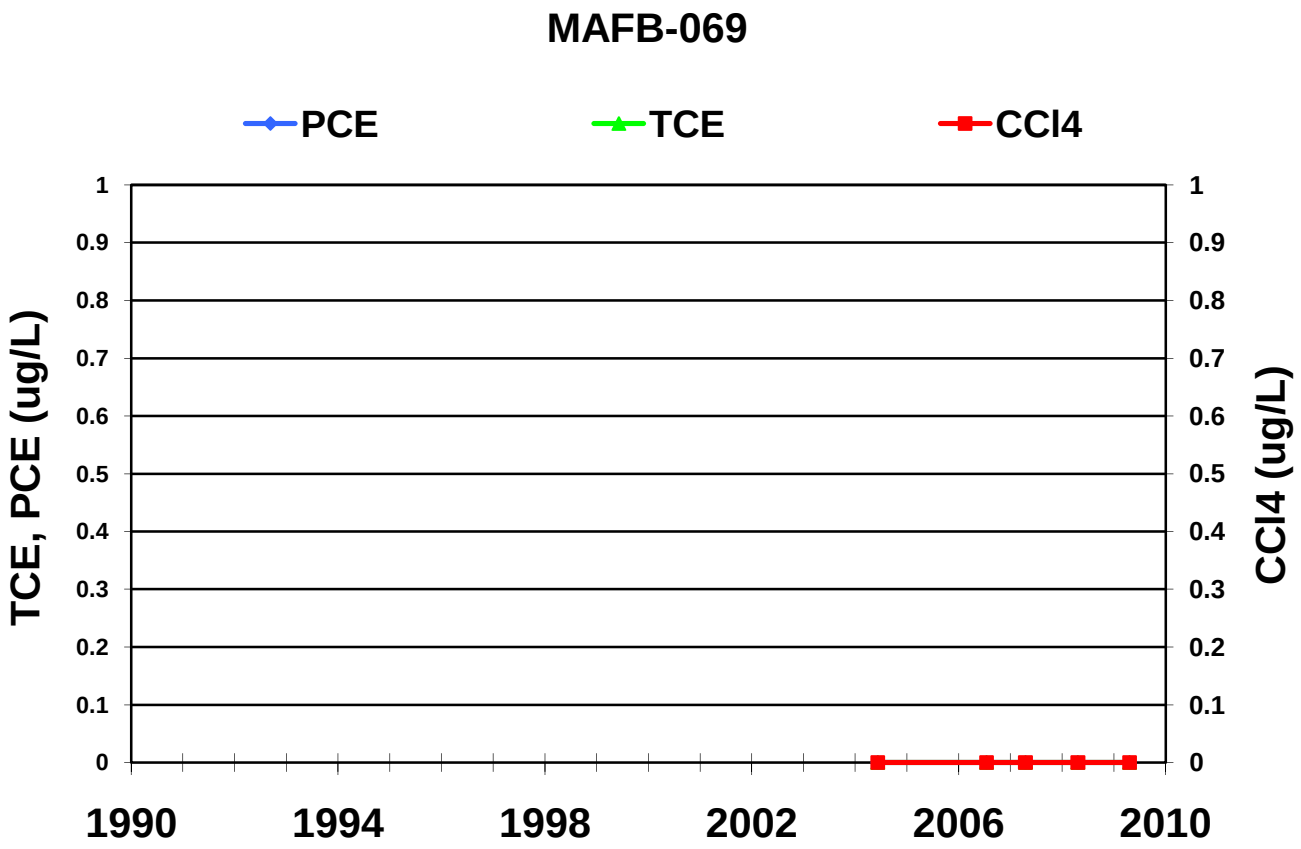

MAFB-064
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

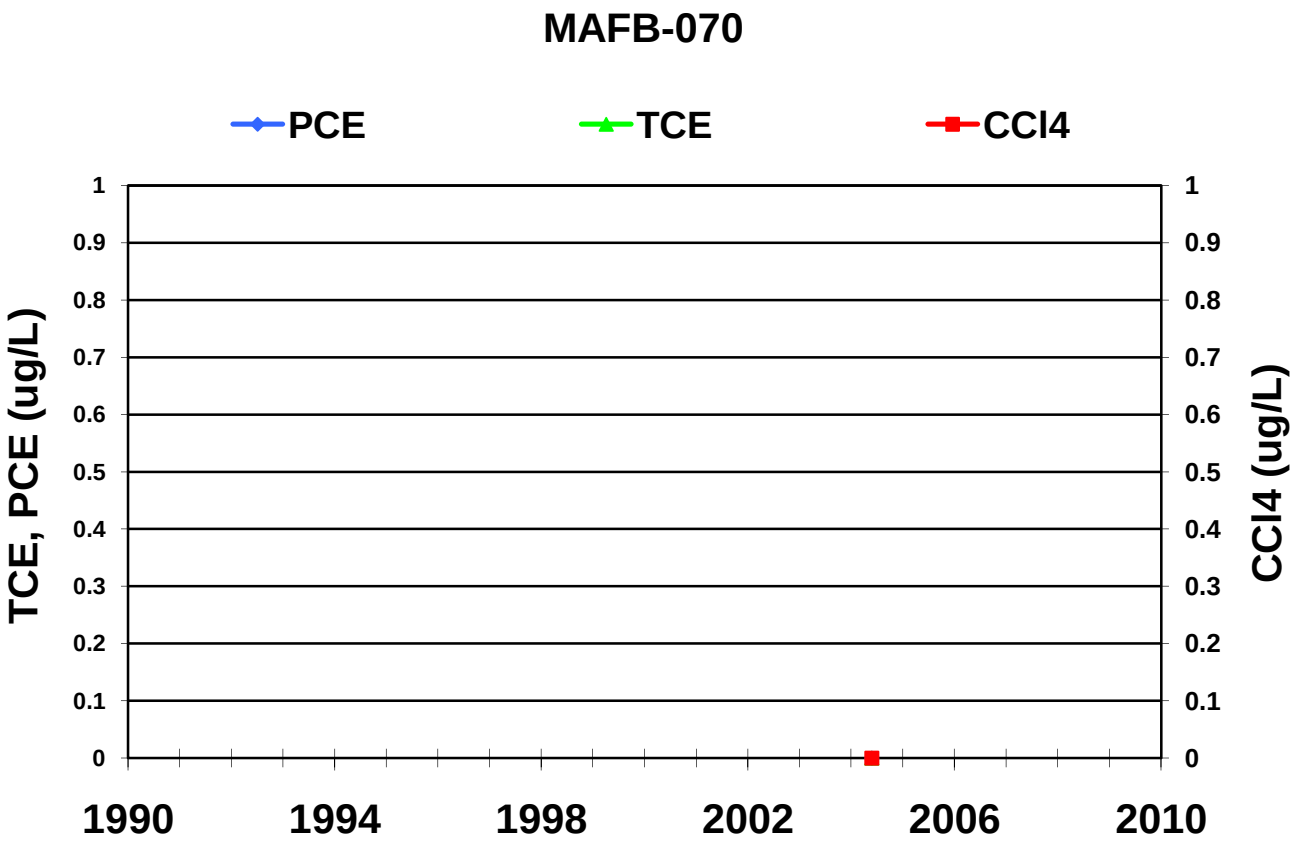

MAFB-065
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

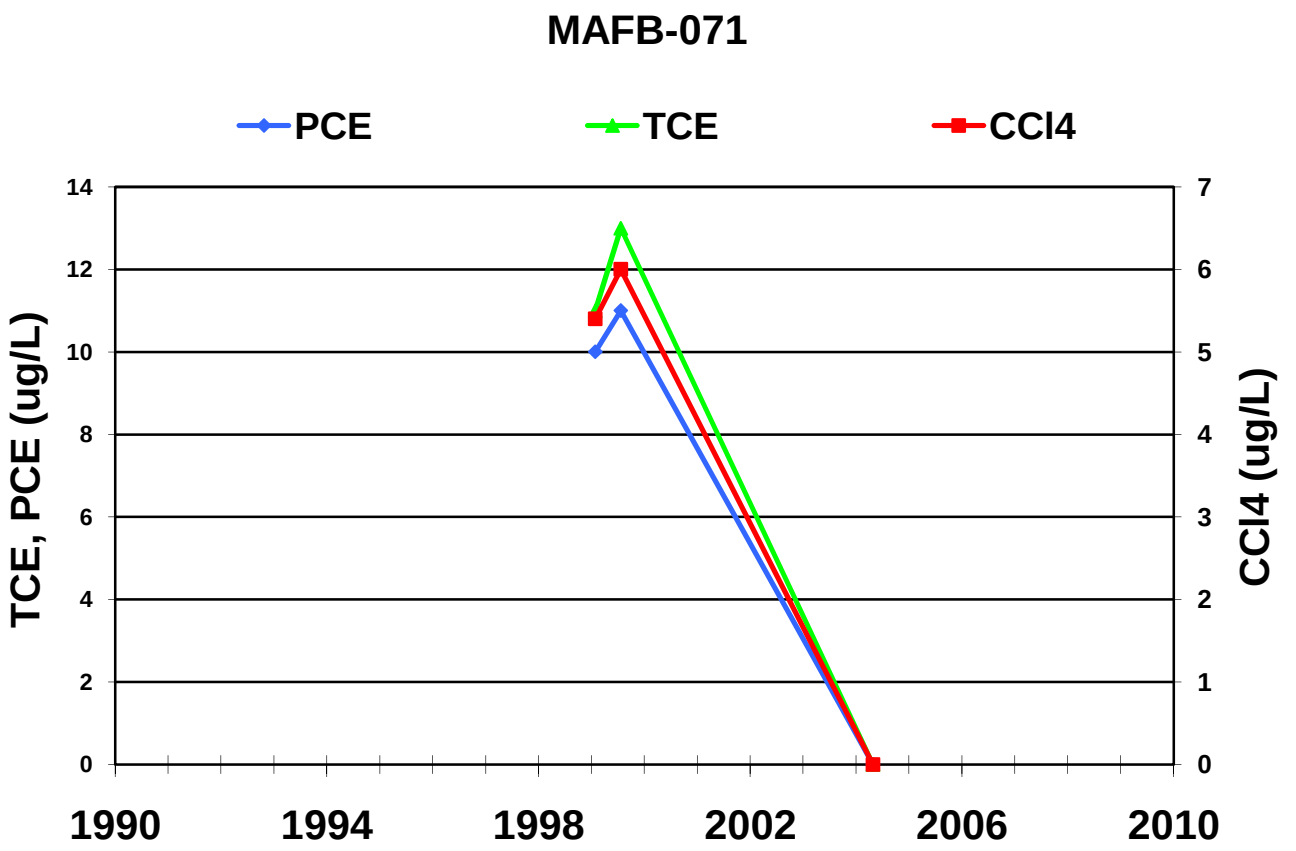

MAFB-066
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

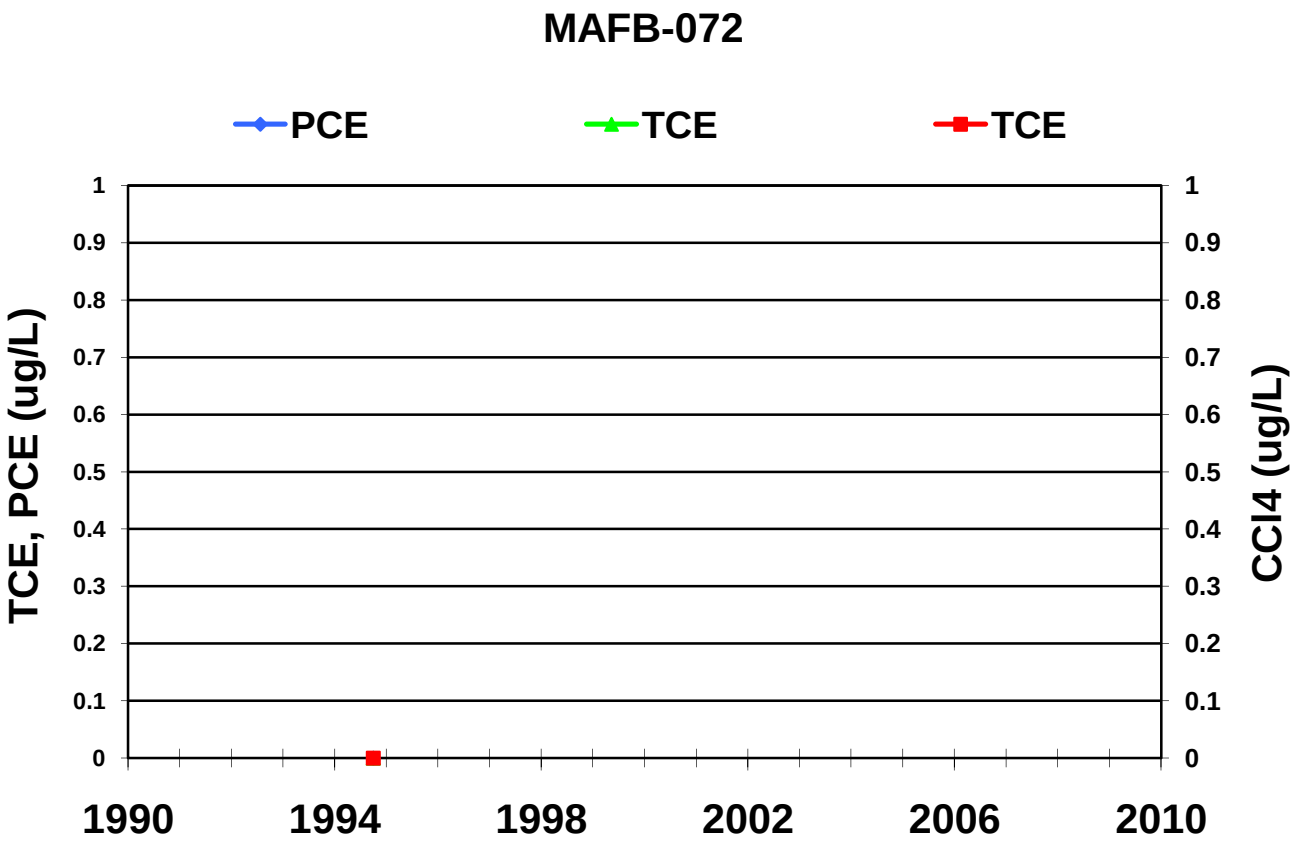

MAFB-067
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

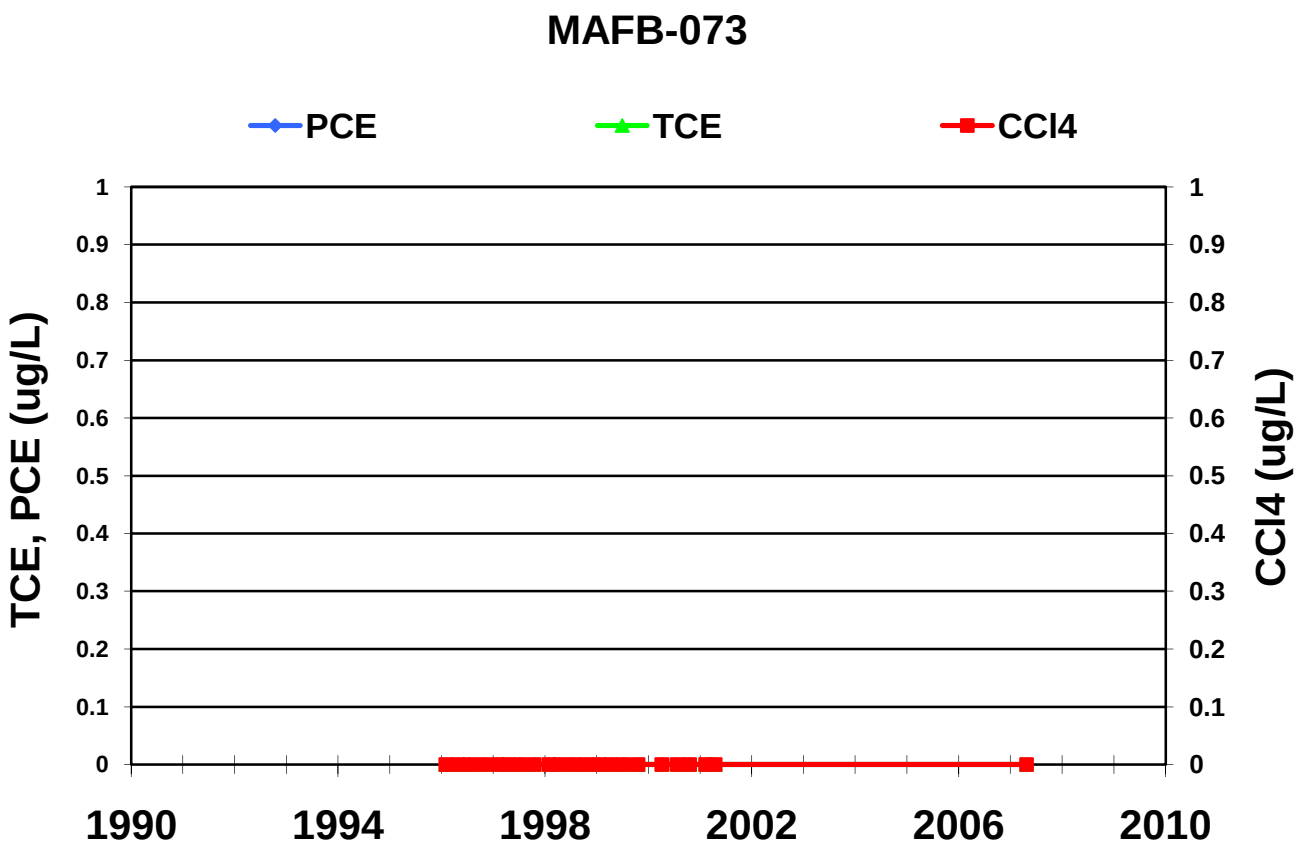

MAFB-068
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

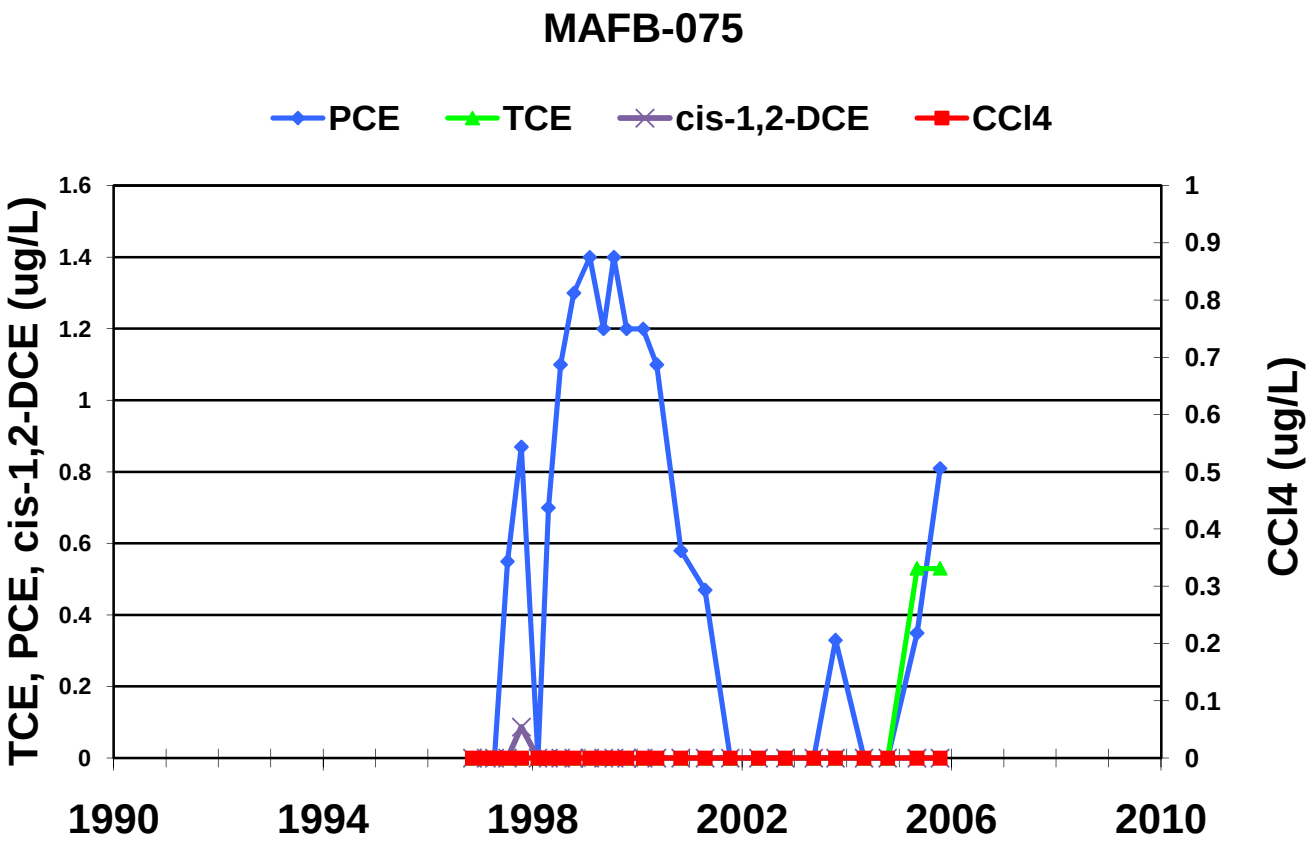

MAFB-069
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-070
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

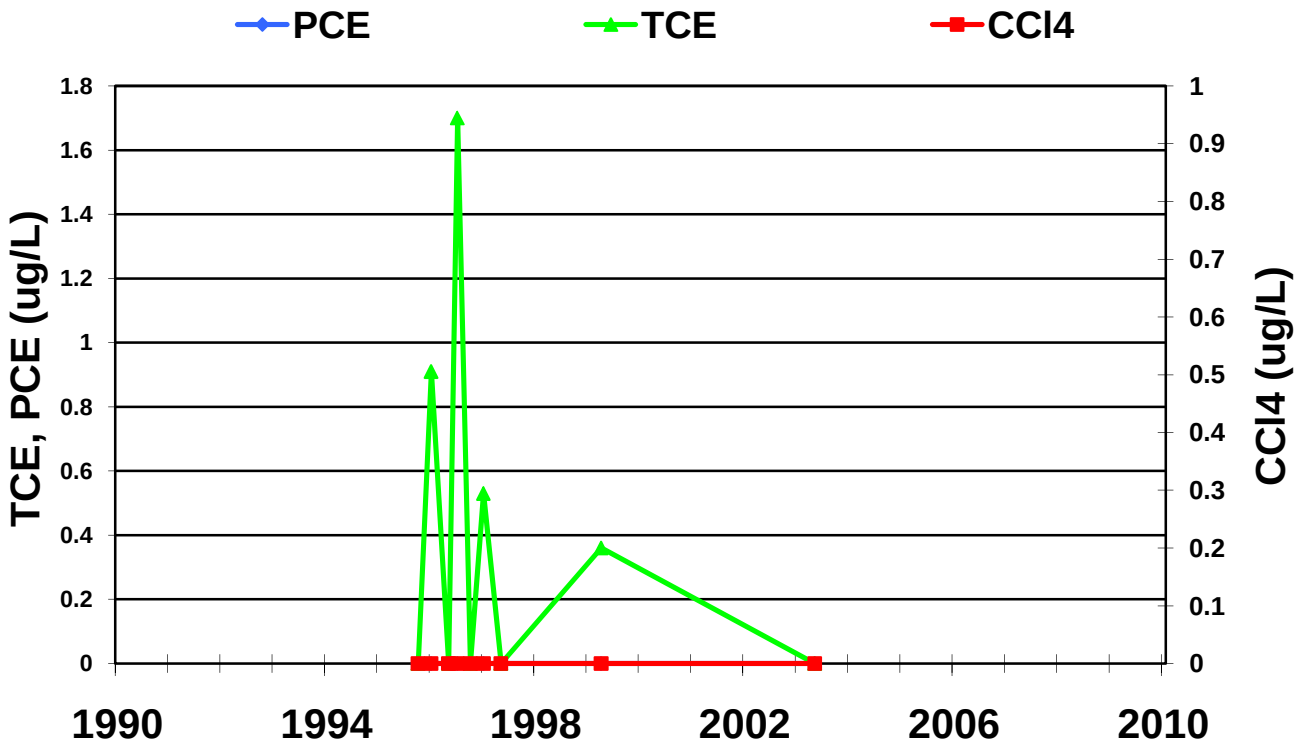

MAFB-071
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
1
2
3
4
5
6
7
1990
1994
1998
2002
2006
2010


MAFB-072
PCE
TCE
TCE
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

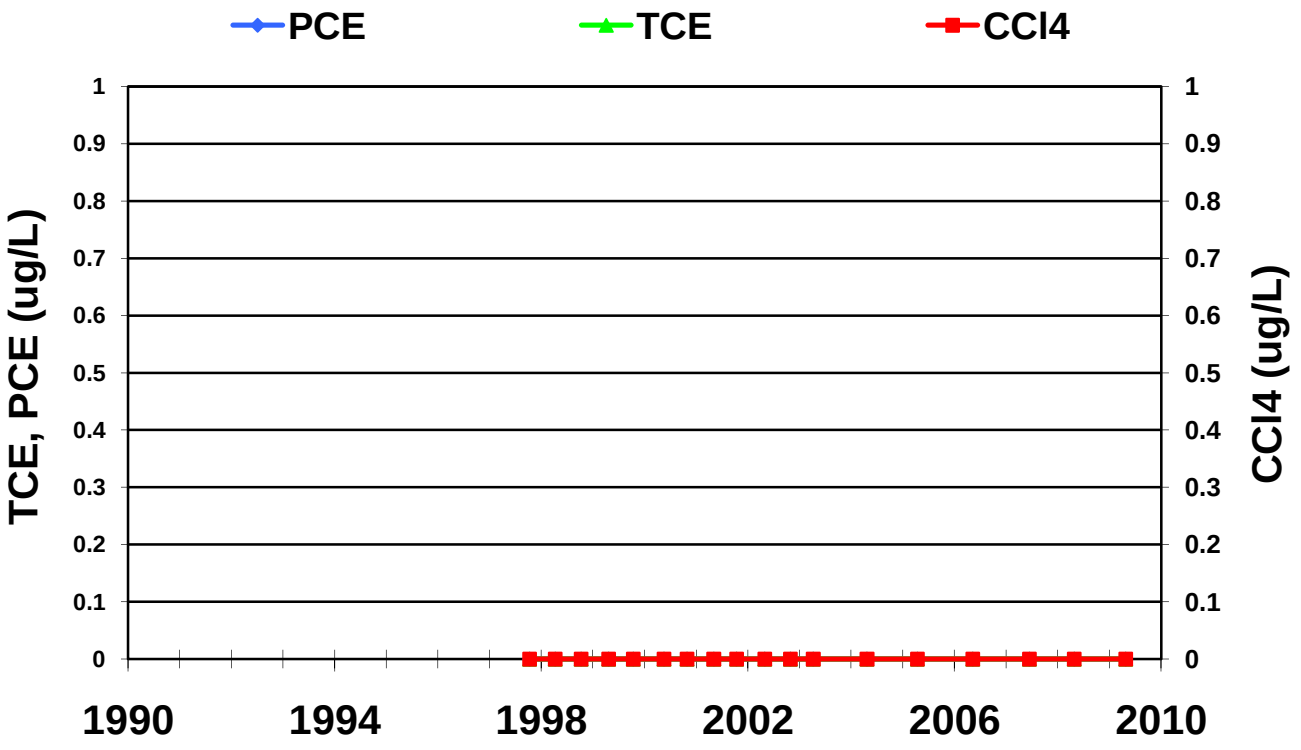

MAFB-073
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

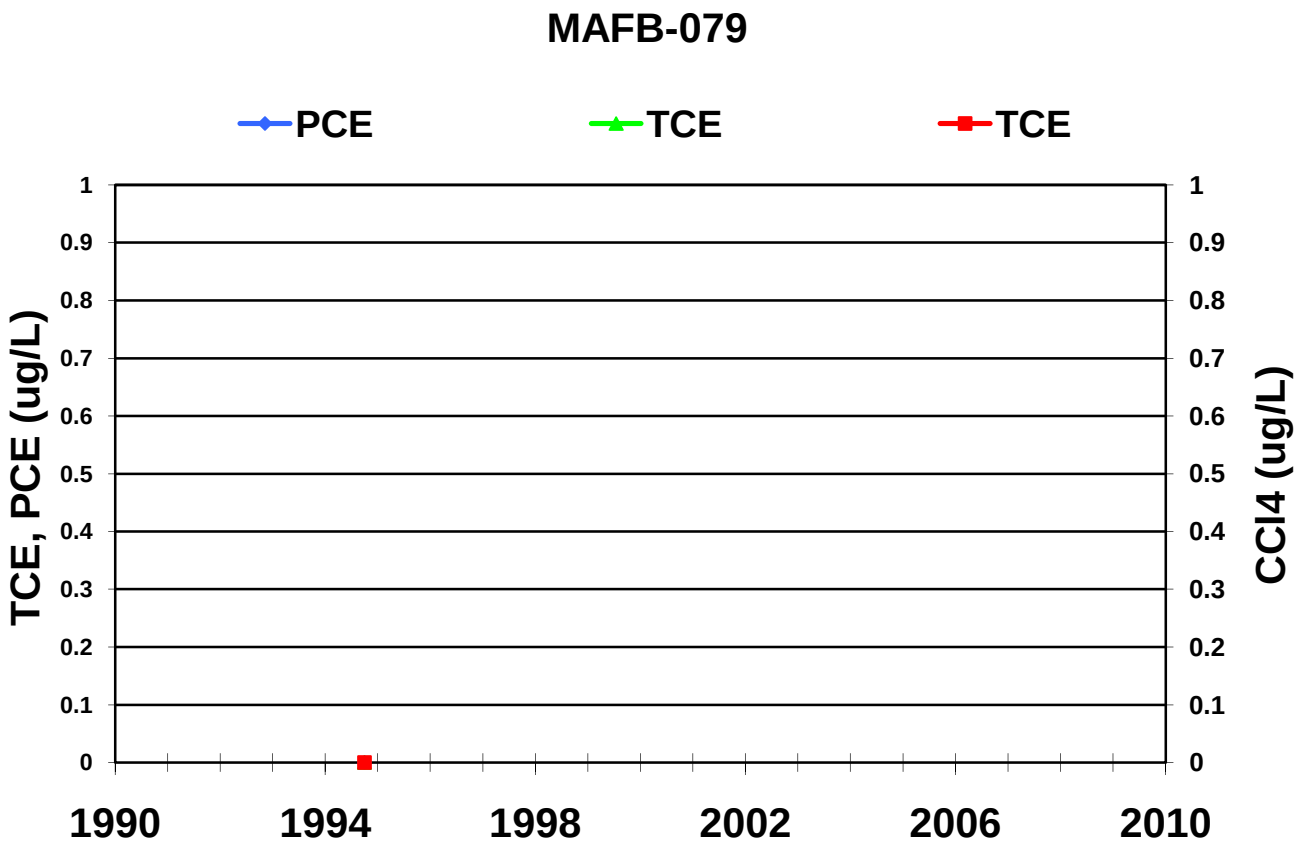

MAFB-075
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

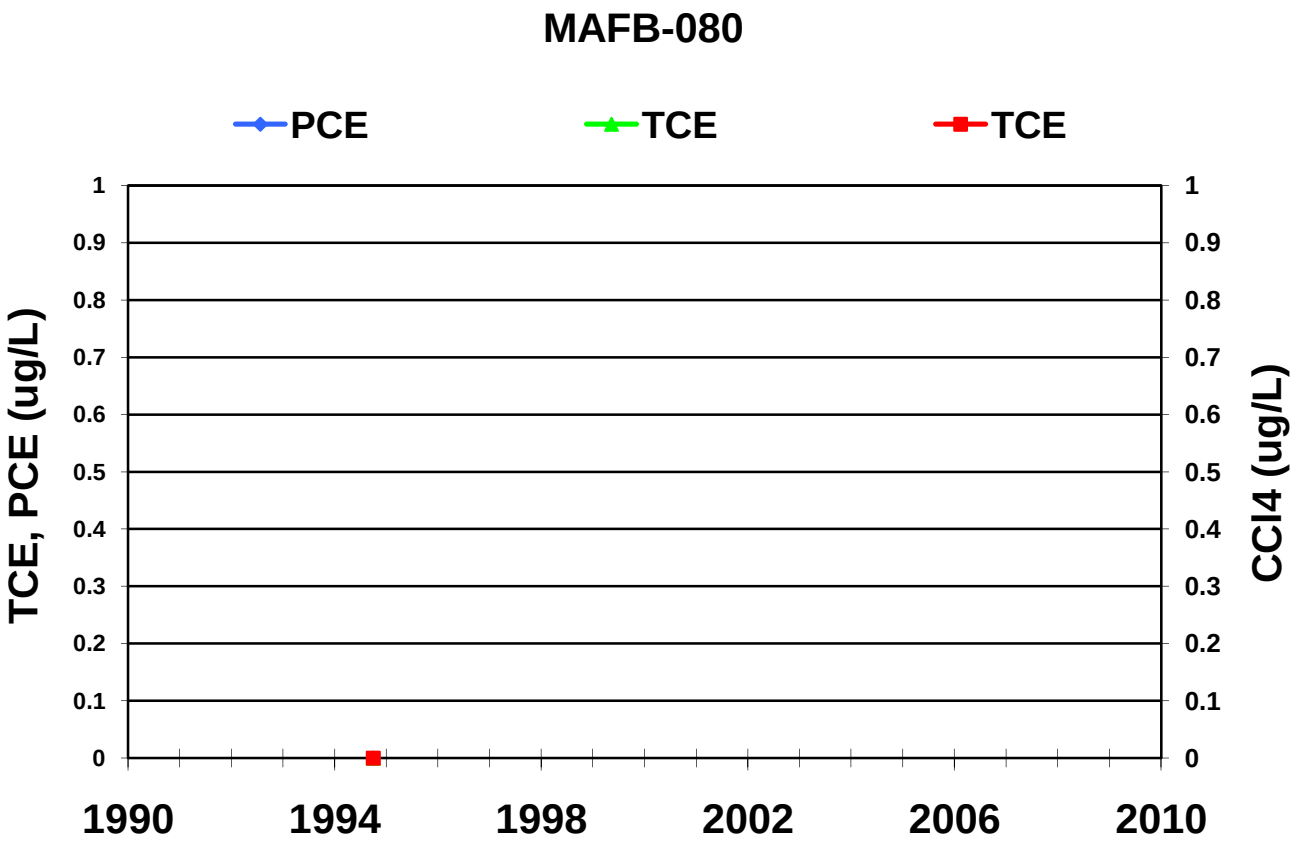
MAFB-077

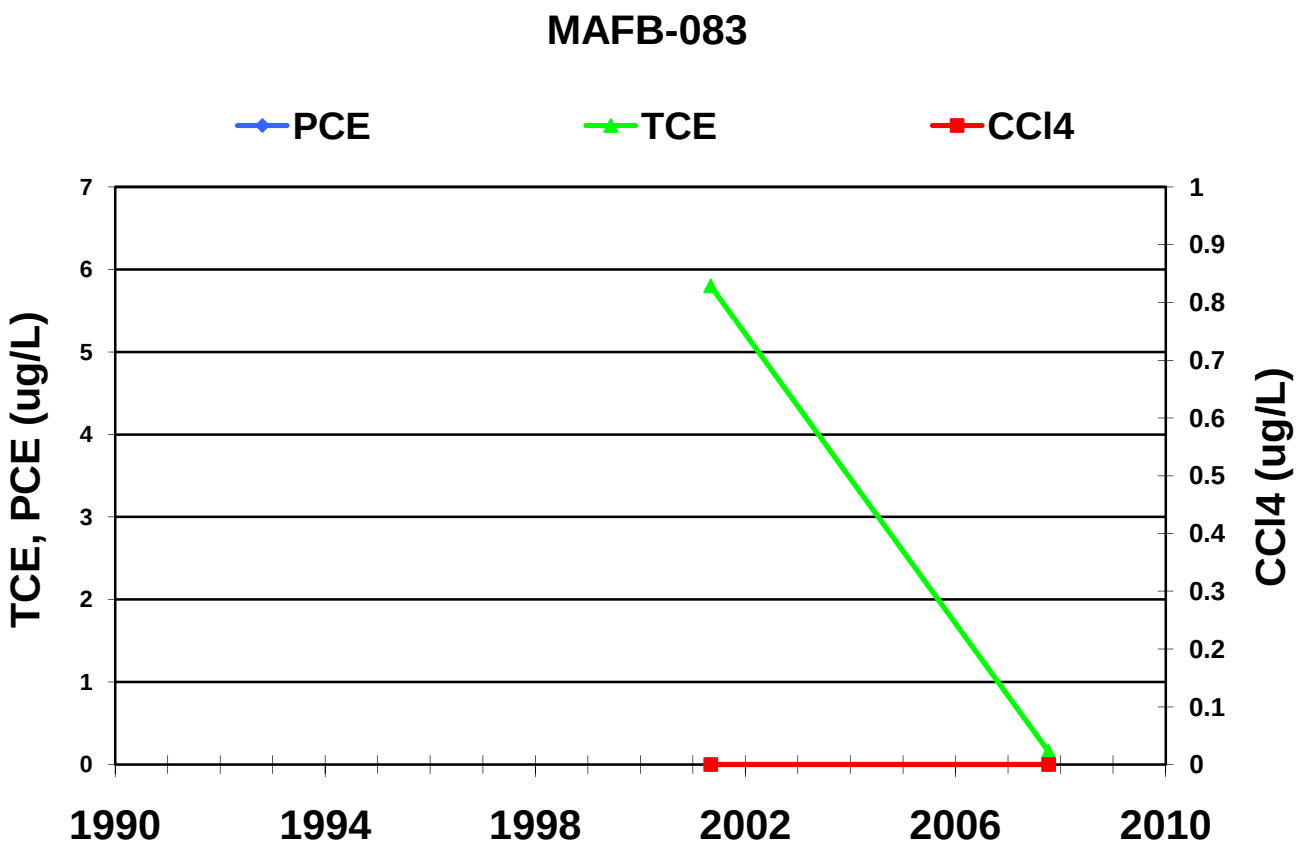


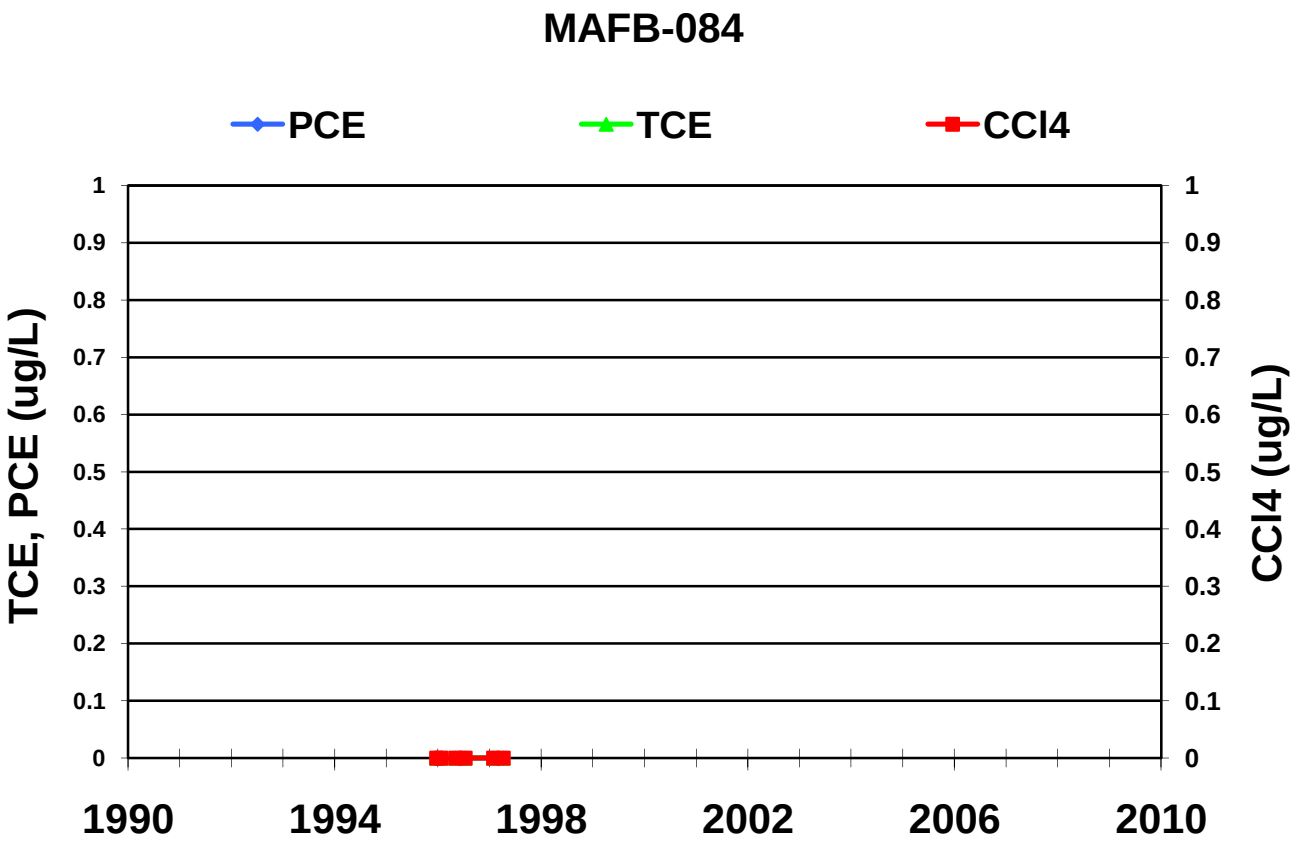
MAFB-078

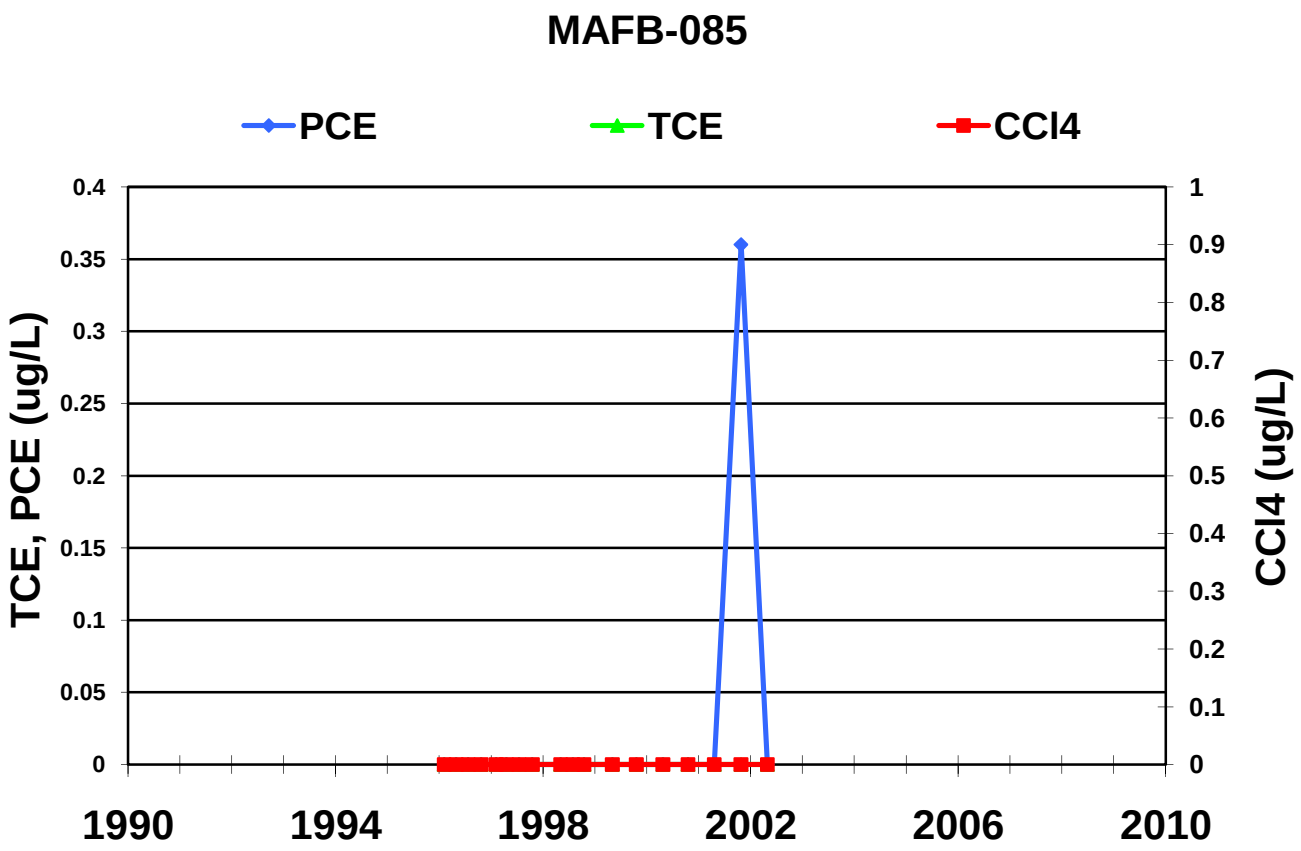


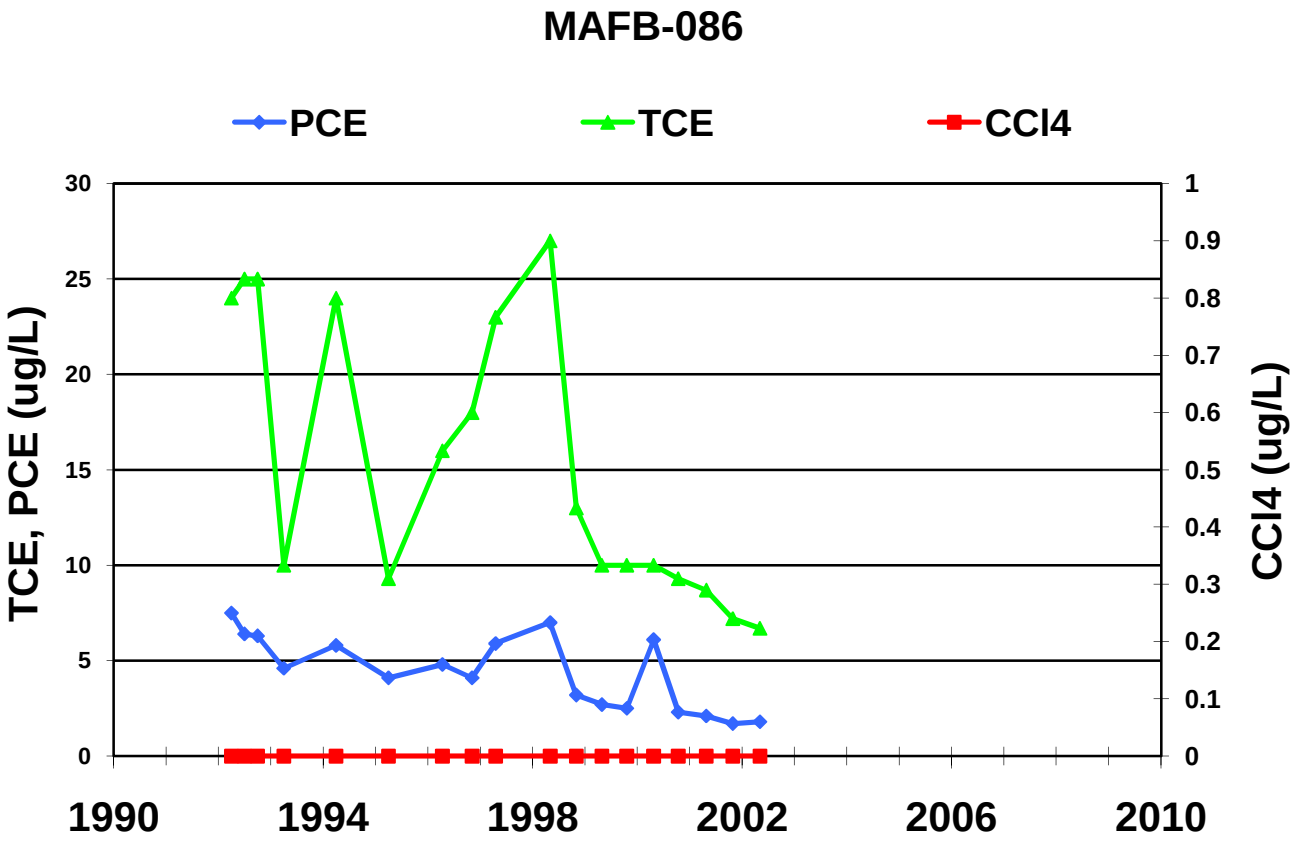

MAFB-079
PCE
TCE
TCE
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

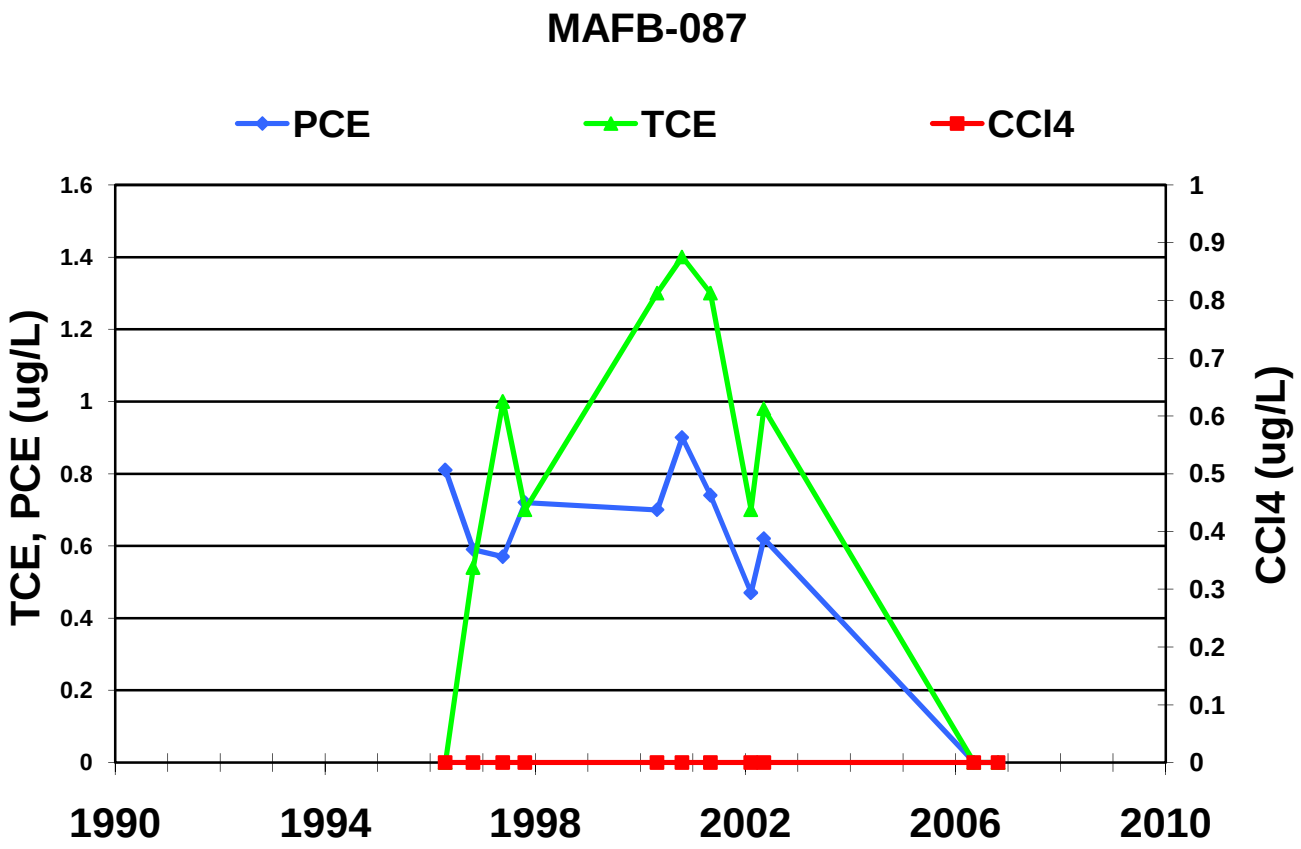

MAFB-080
PCE
TCE
TCE
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

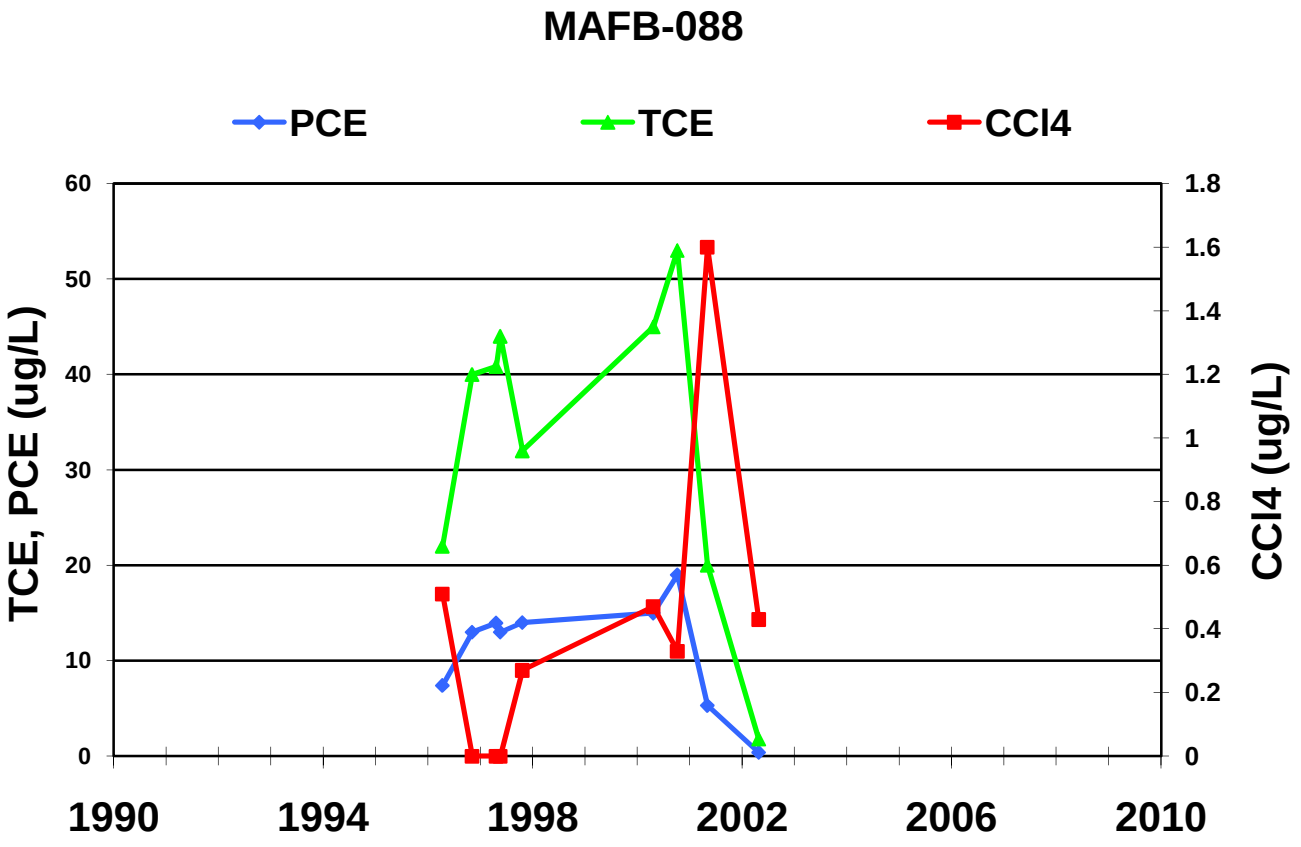

MAFB-083
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010


MAFB-084
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

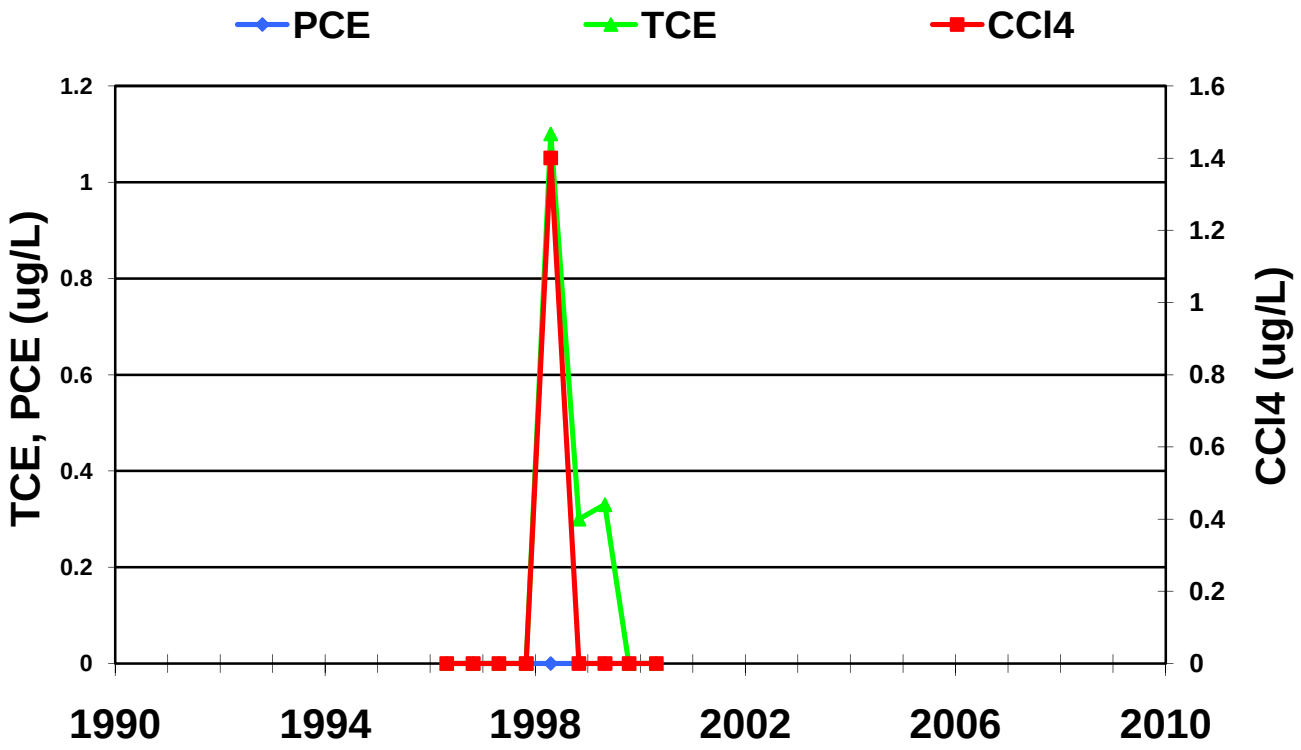

MAFB-085
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-086
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

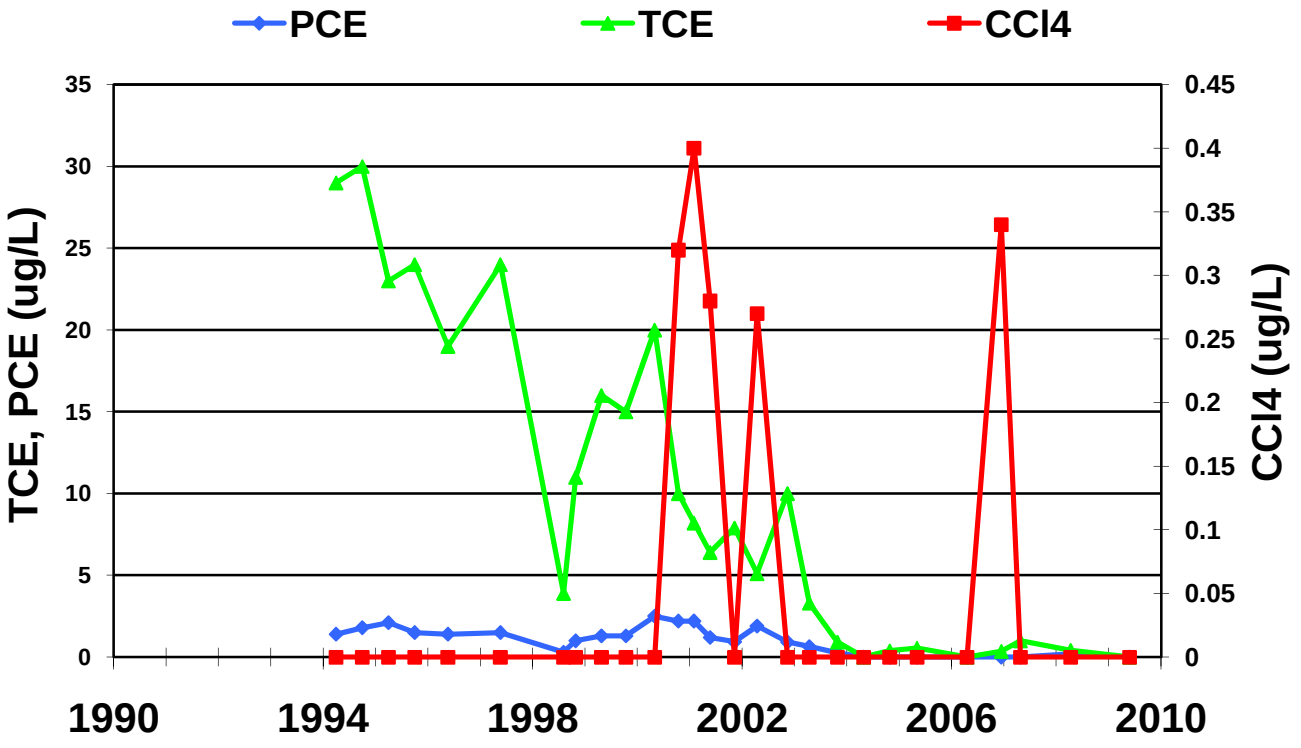

MAFB-087
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

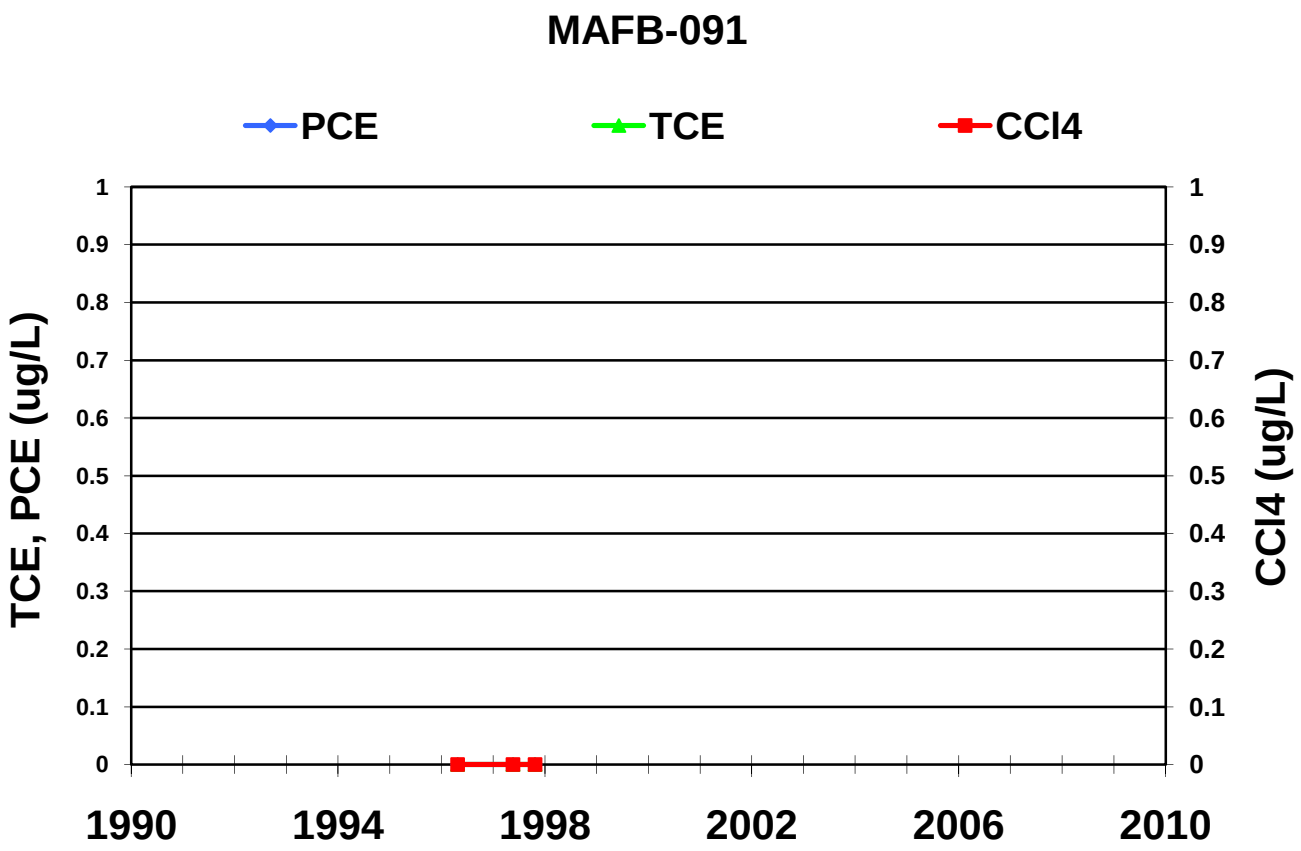

MAFB-088
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

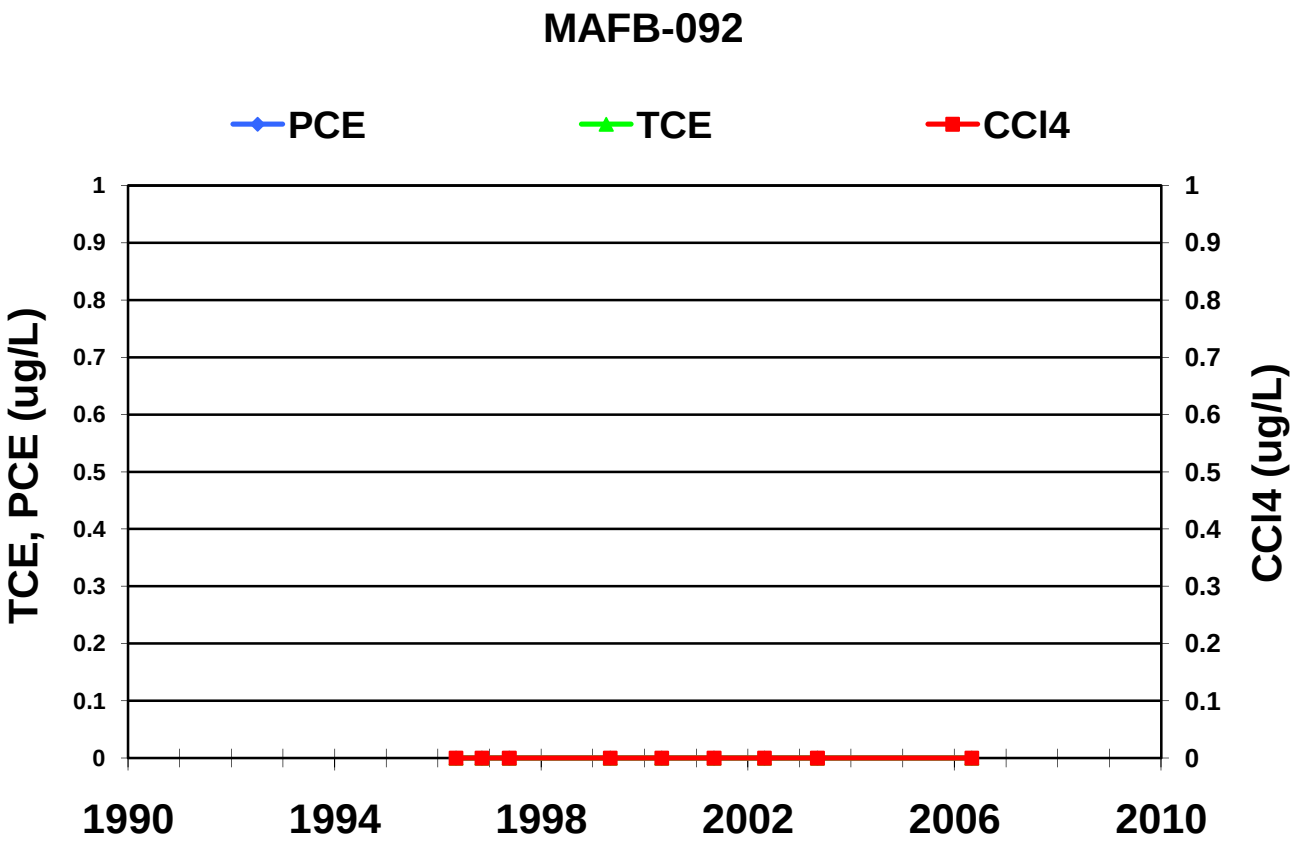
MAFB-089

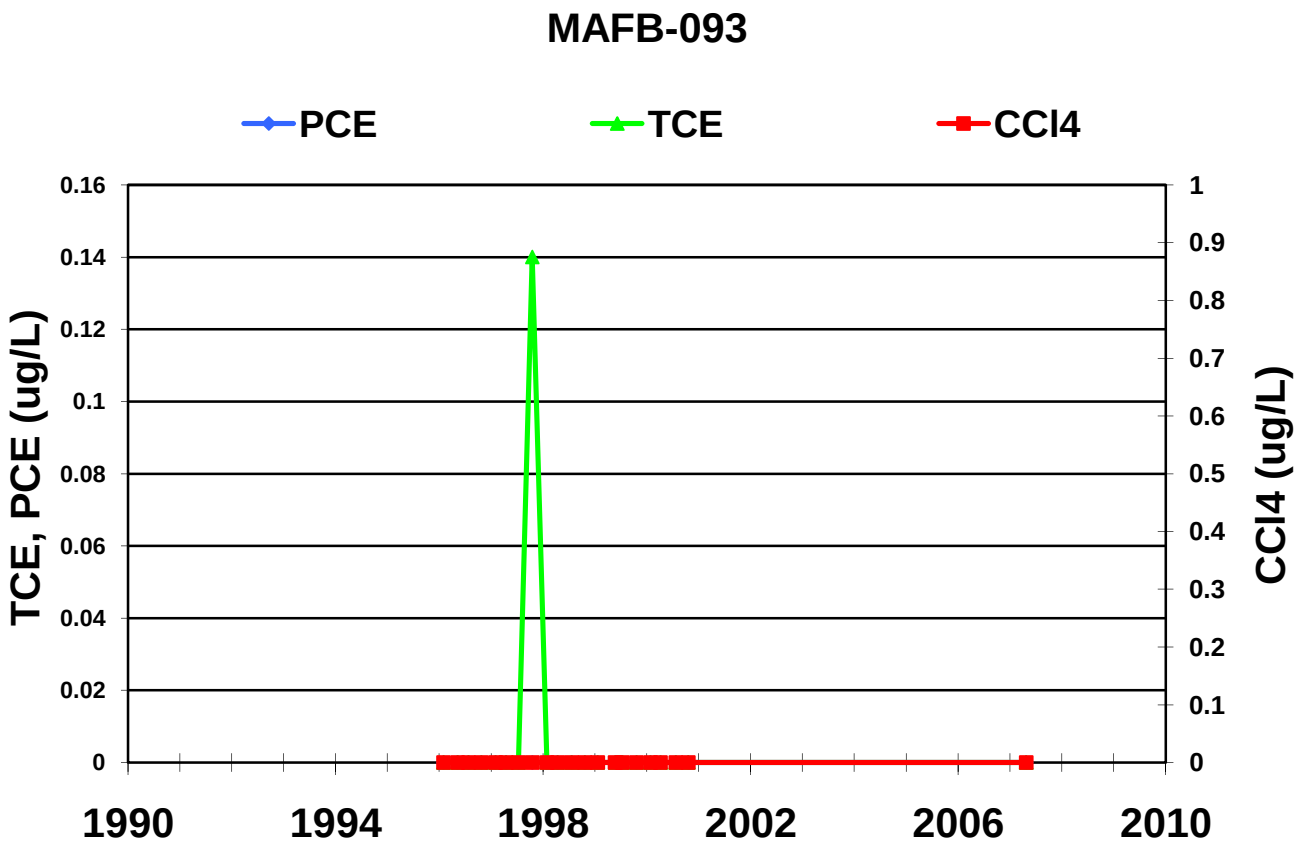


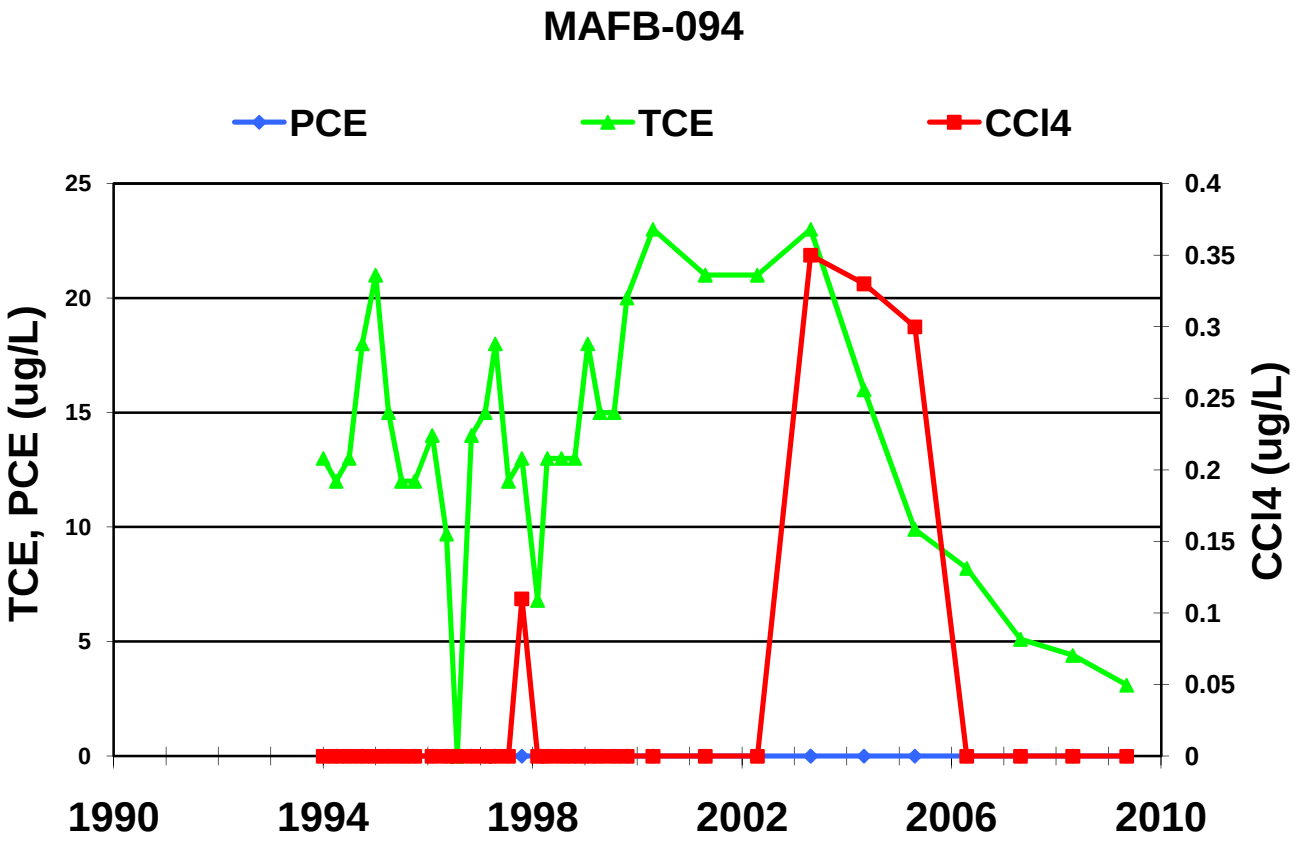
MAFB-090

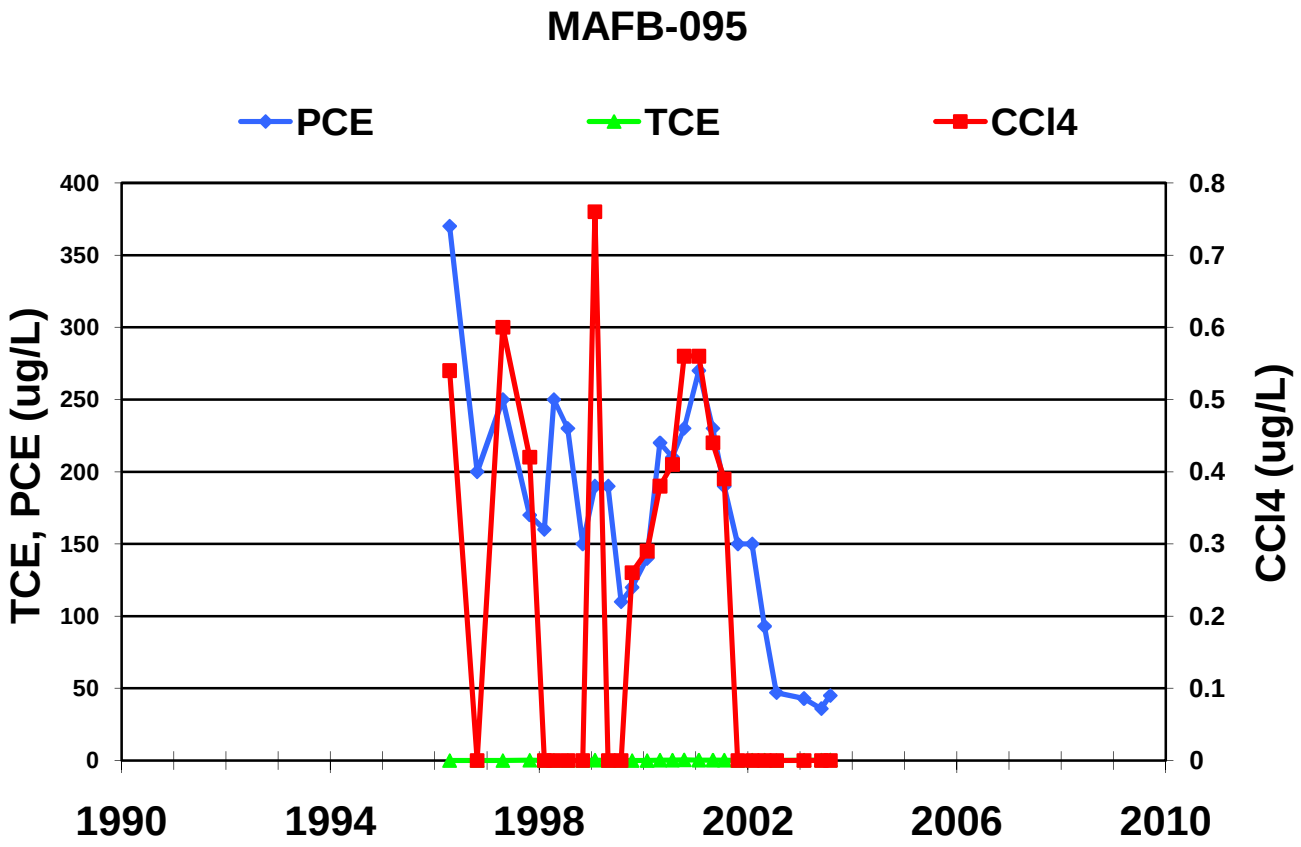


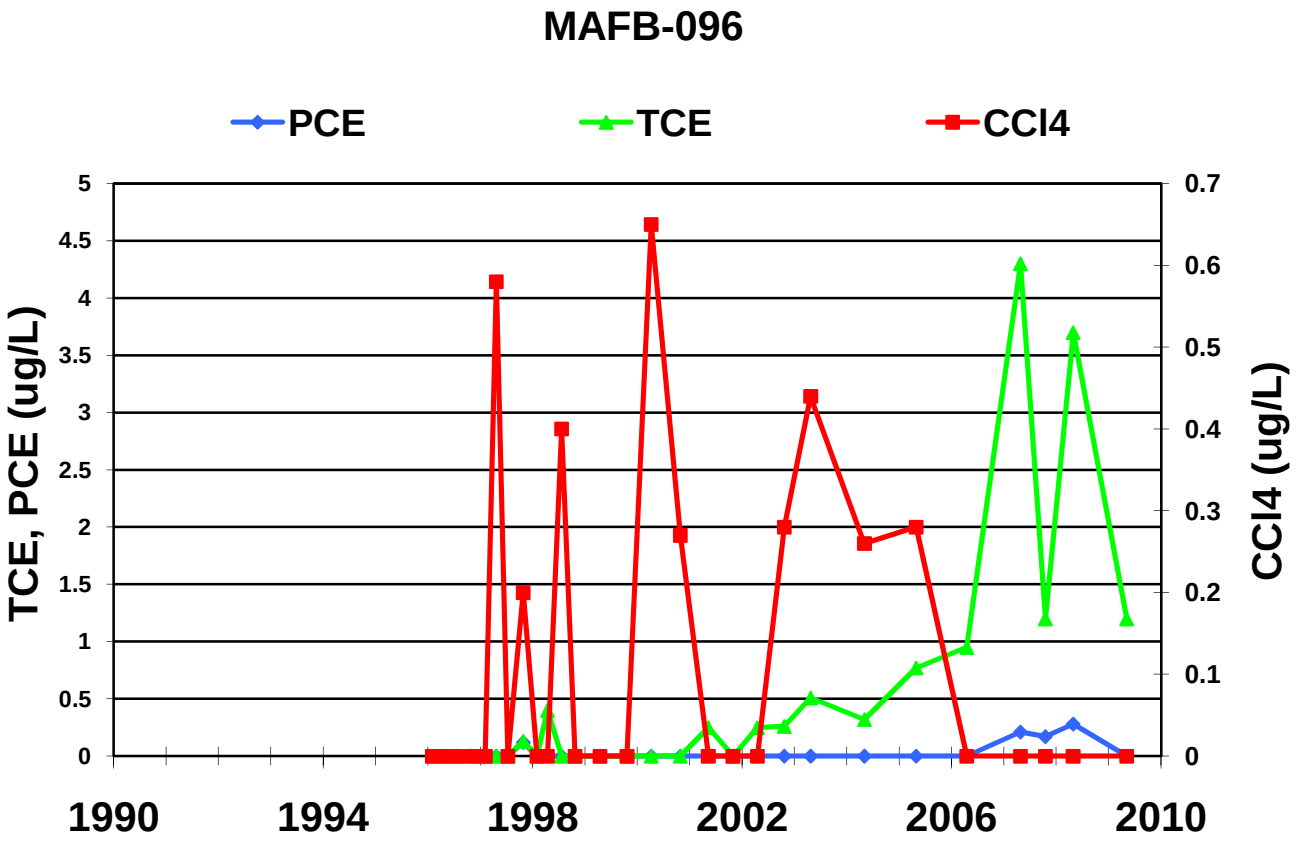

MAFB-091
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

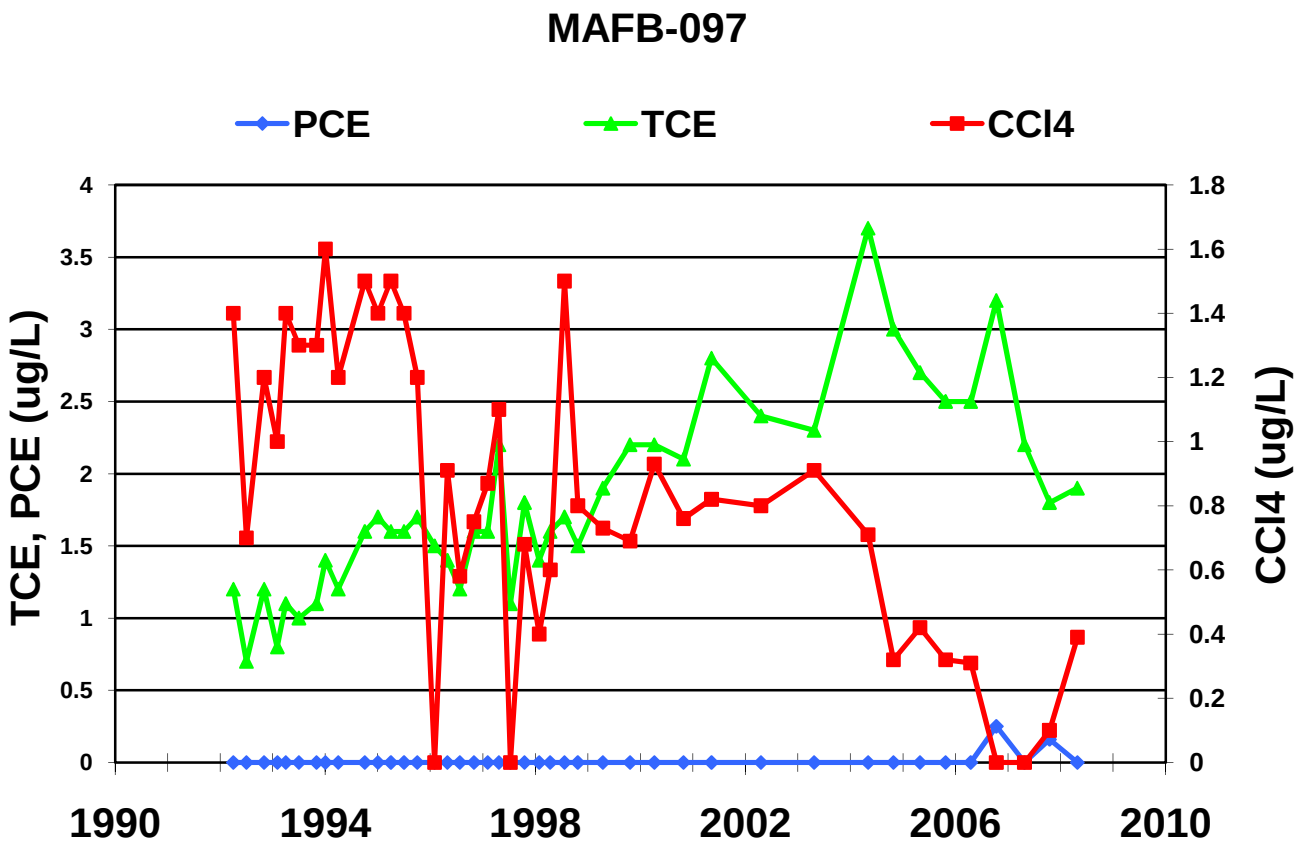

MAFB-092
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

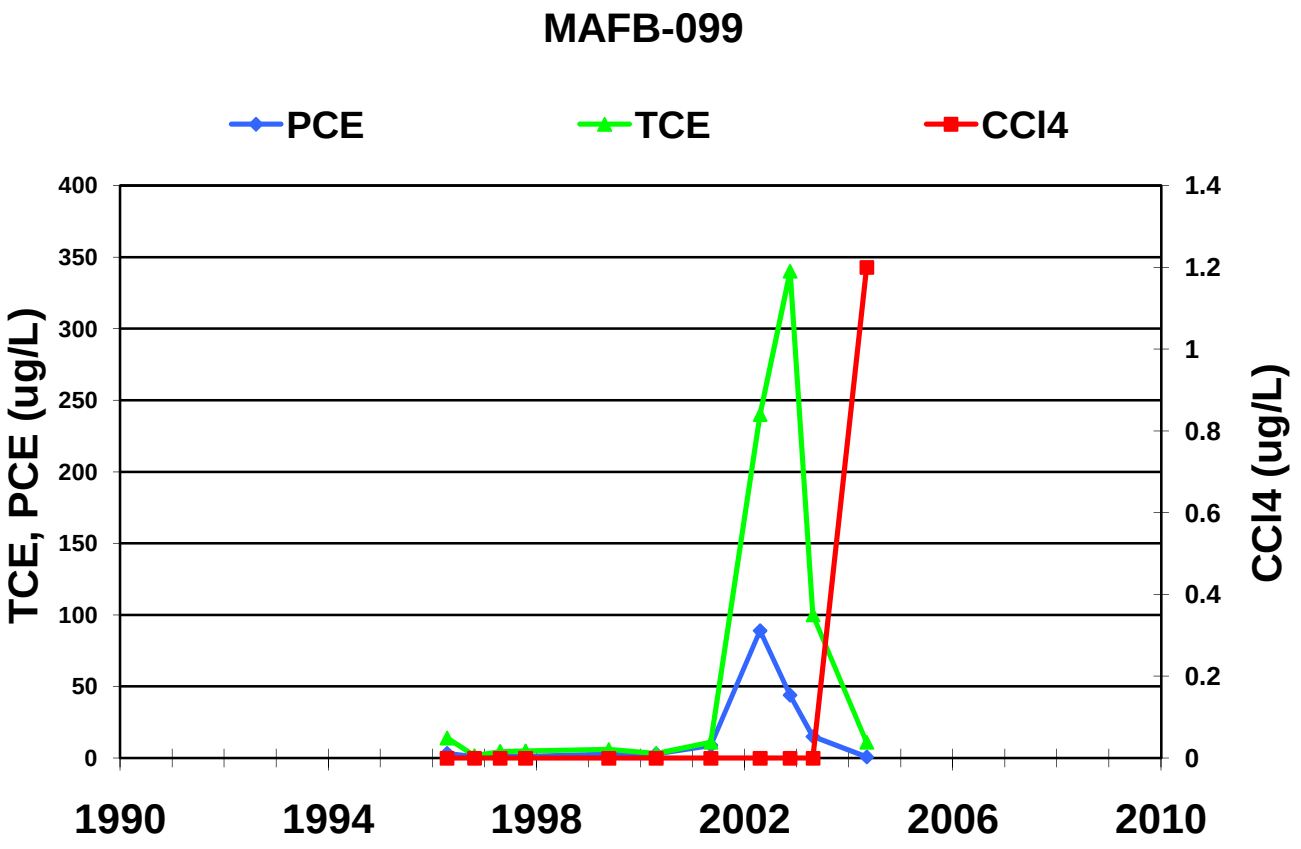

MAFB-093
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

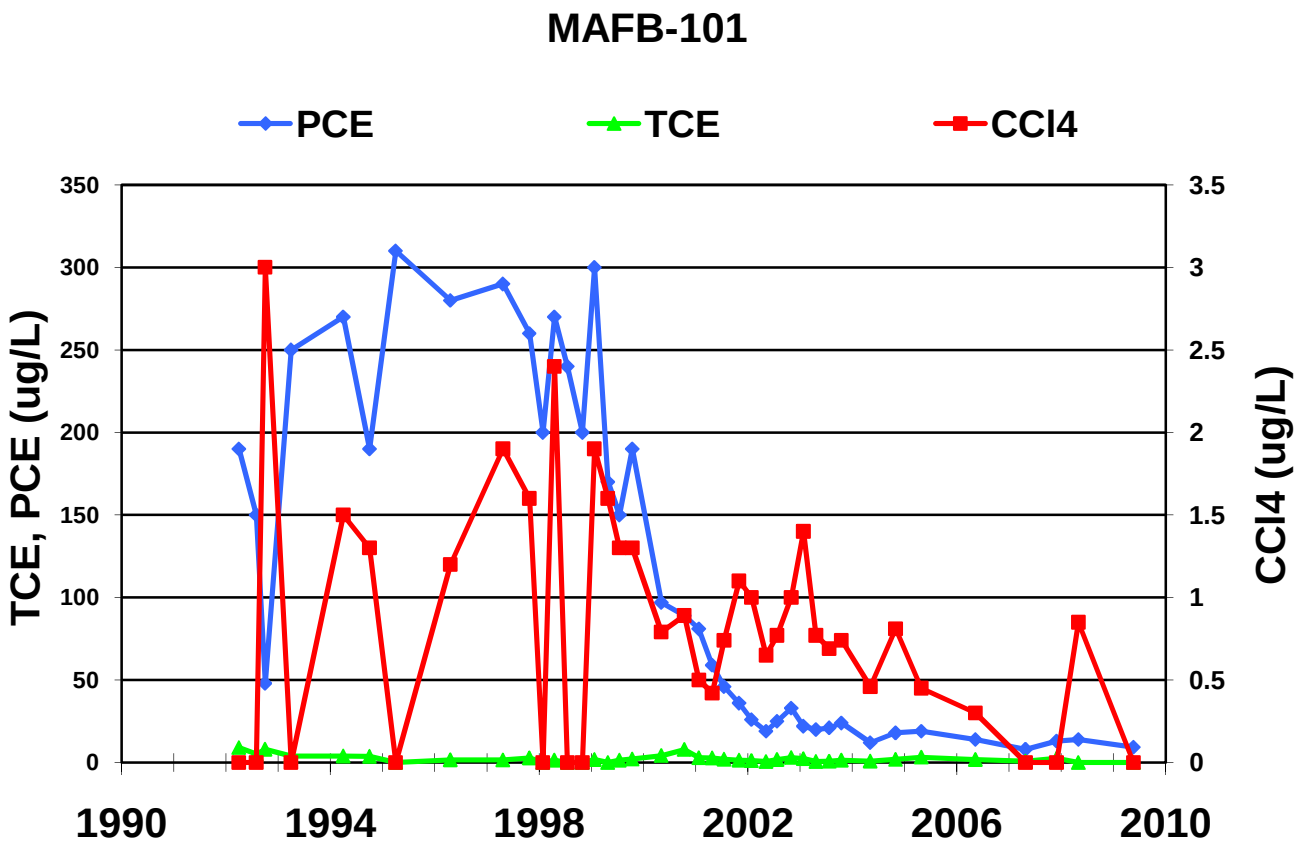

MAFB-094
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

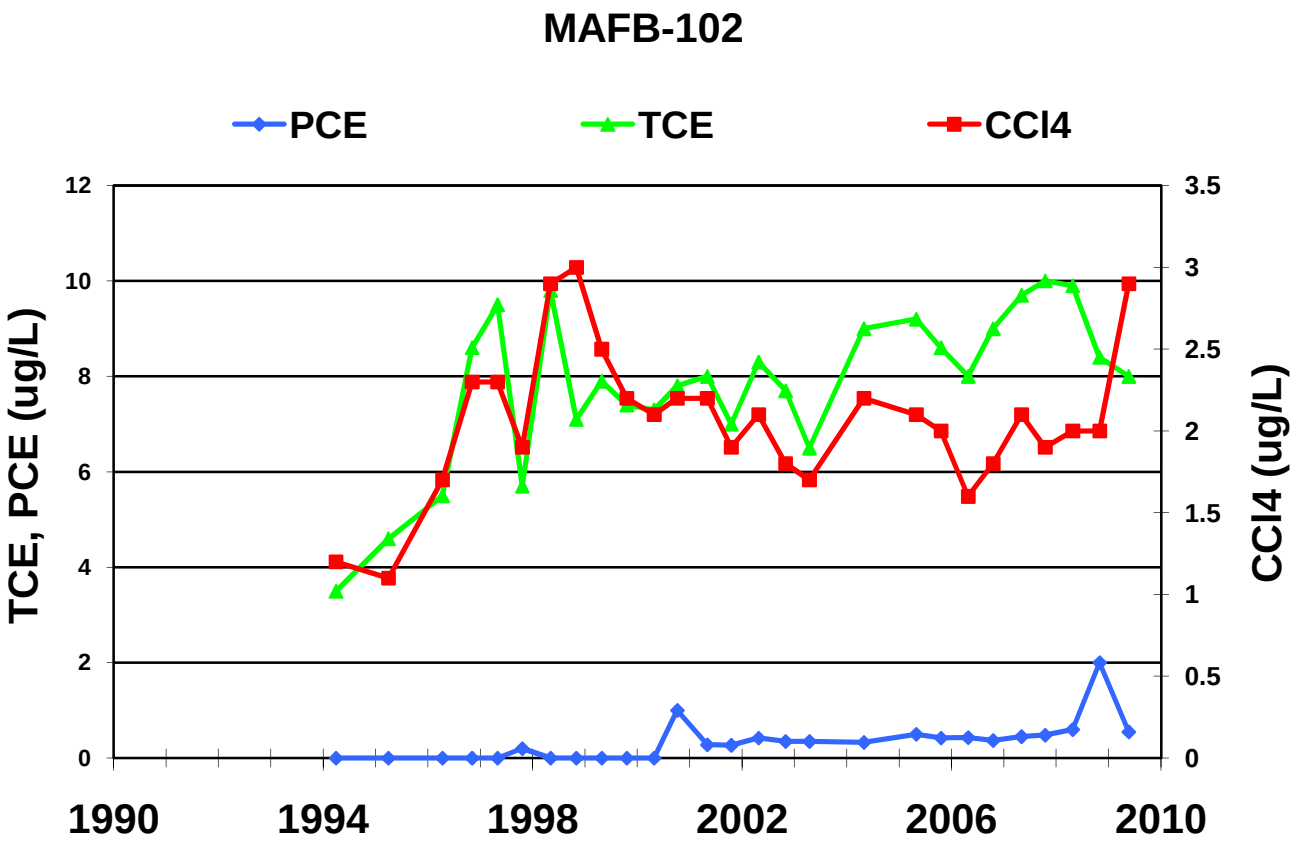

MAFB-095
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
400
350
300
250
200
150
100
50
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

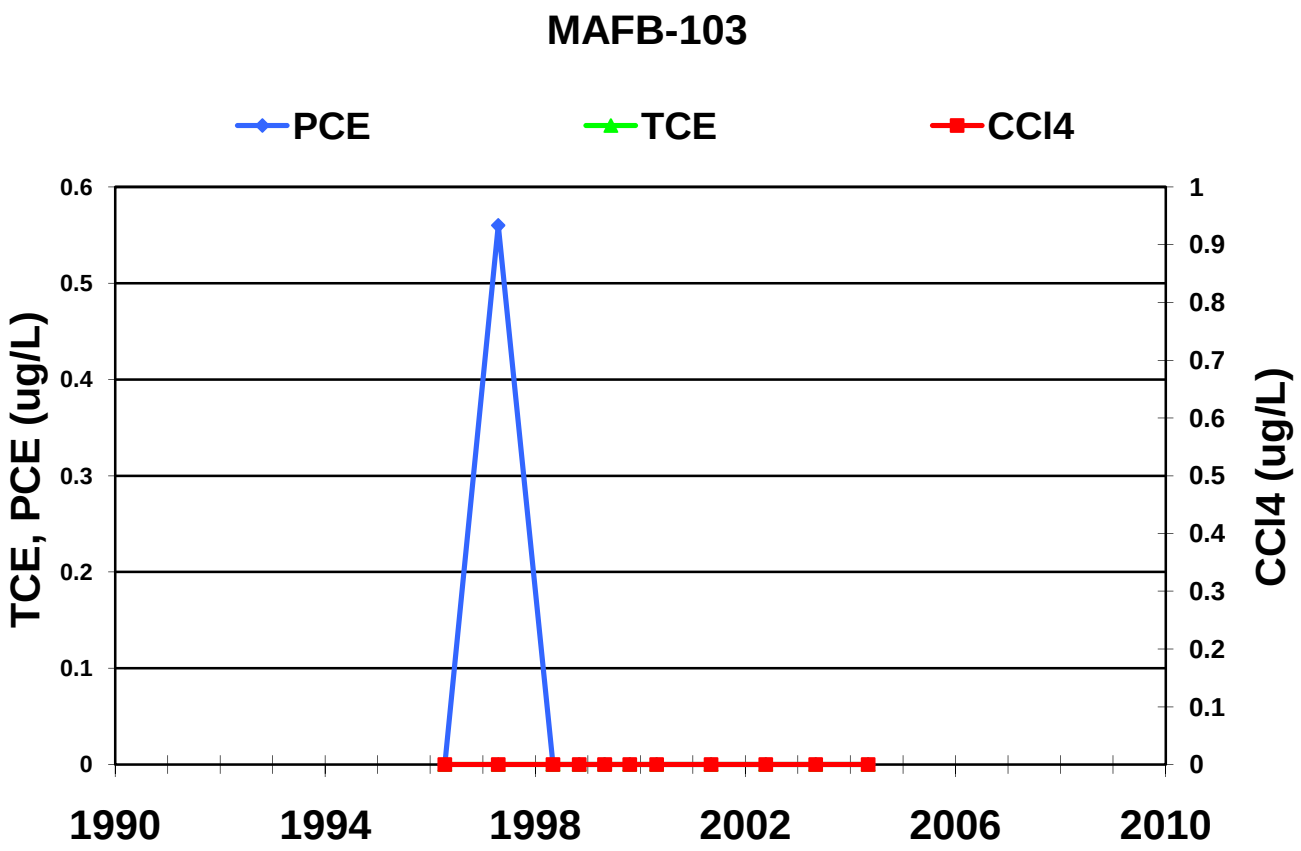

MAFB-096
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

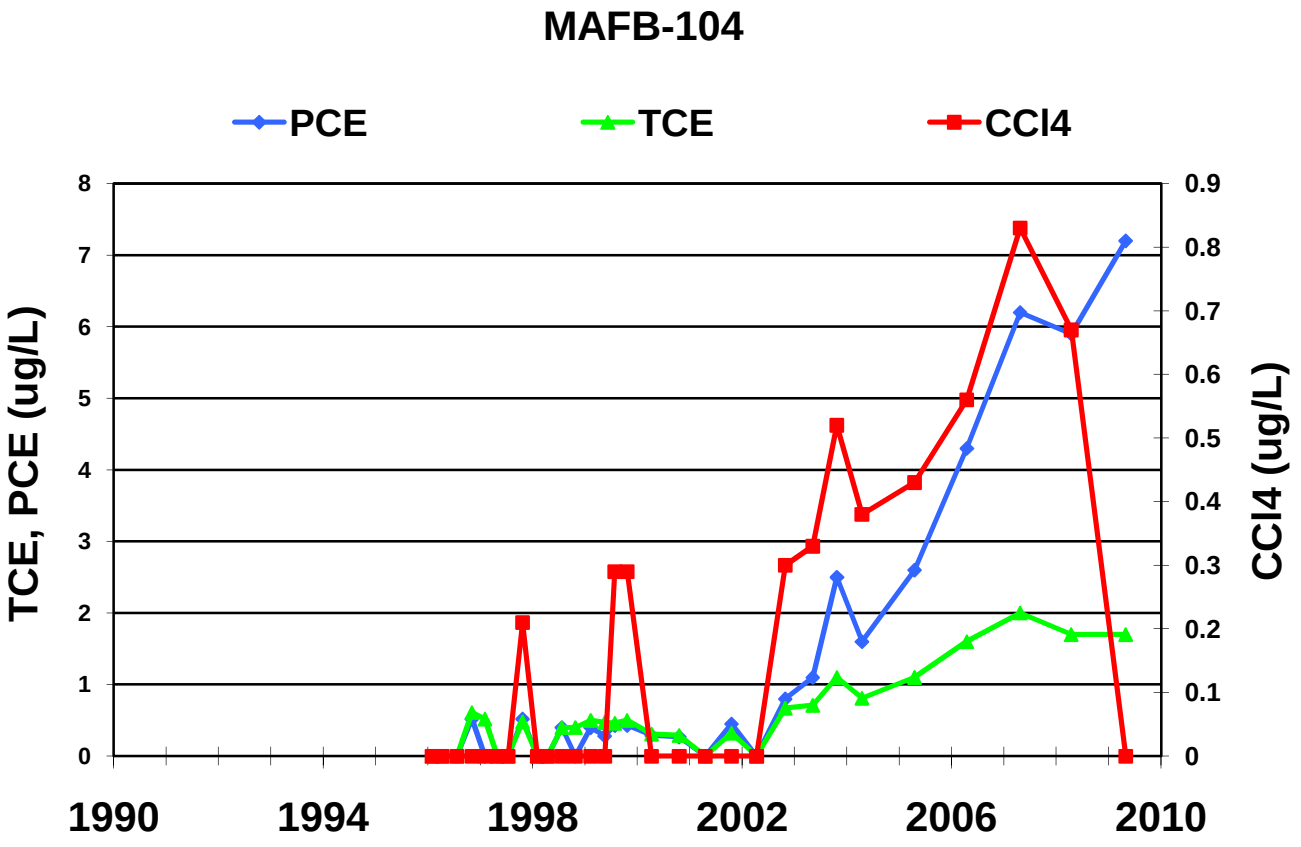

MAFB-097
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

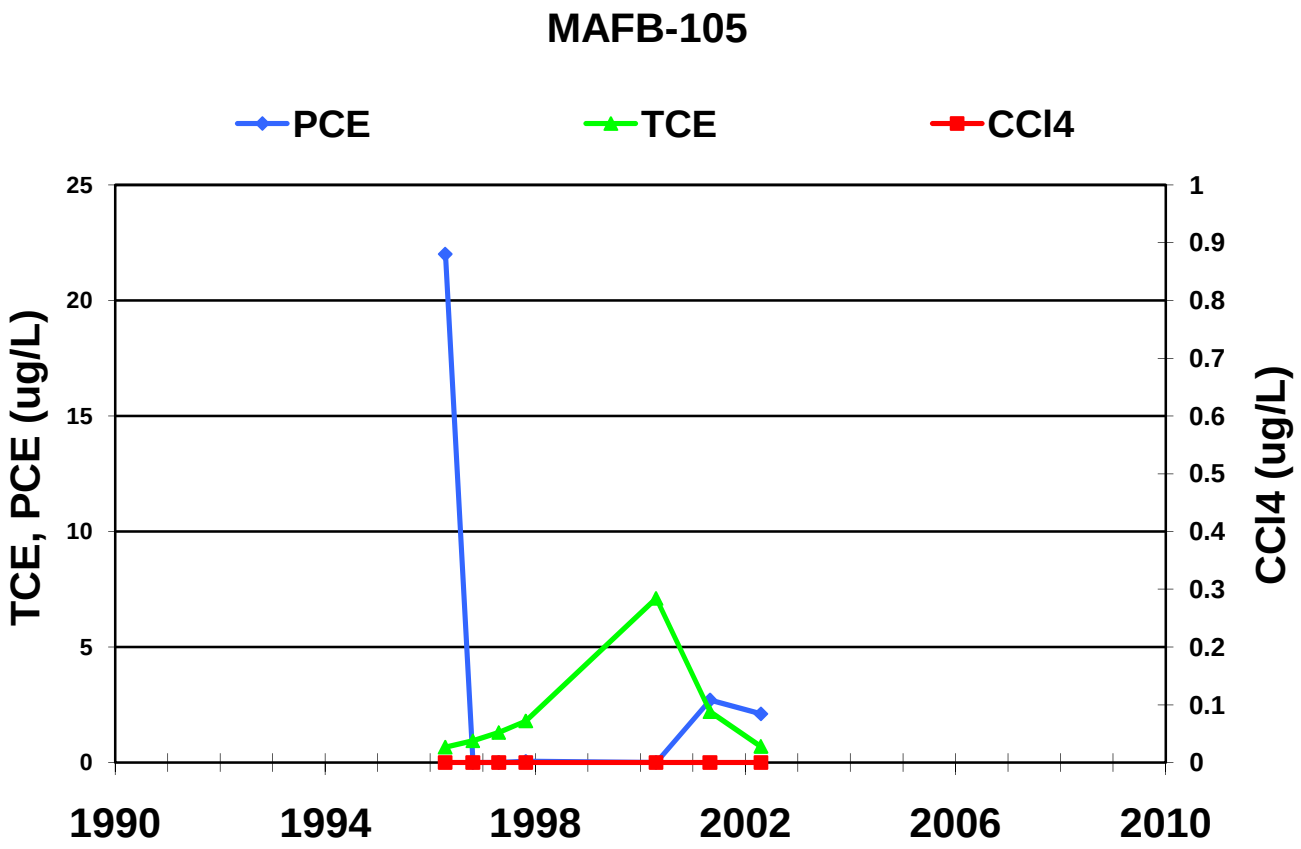

MAFB-099
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
400
350
300
250
200
150
100
50
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

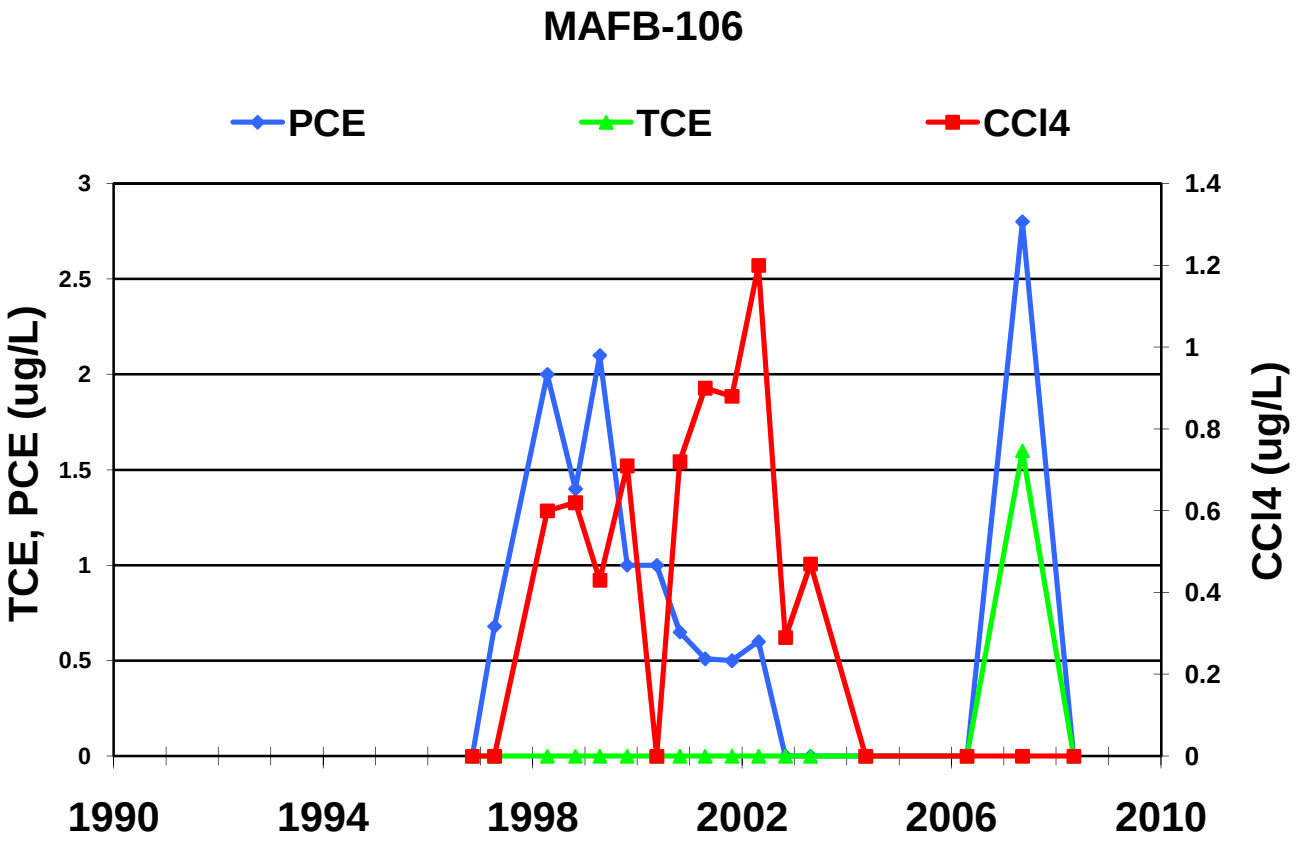

MAFB-101
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
350
300
250
200
150
100
50
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-102
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
12
10
8
6
4
2
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

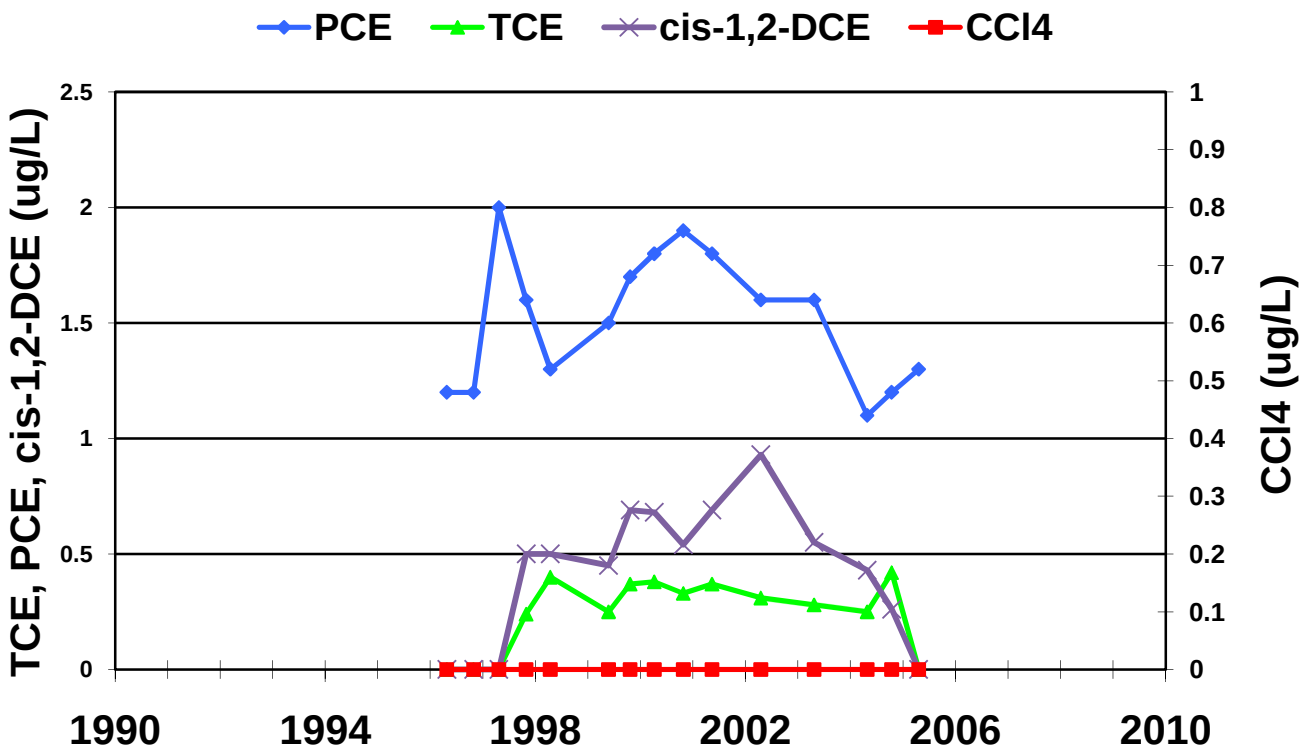

MAFB-103
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-104
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
8
7
6
5
4
3
2
1
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

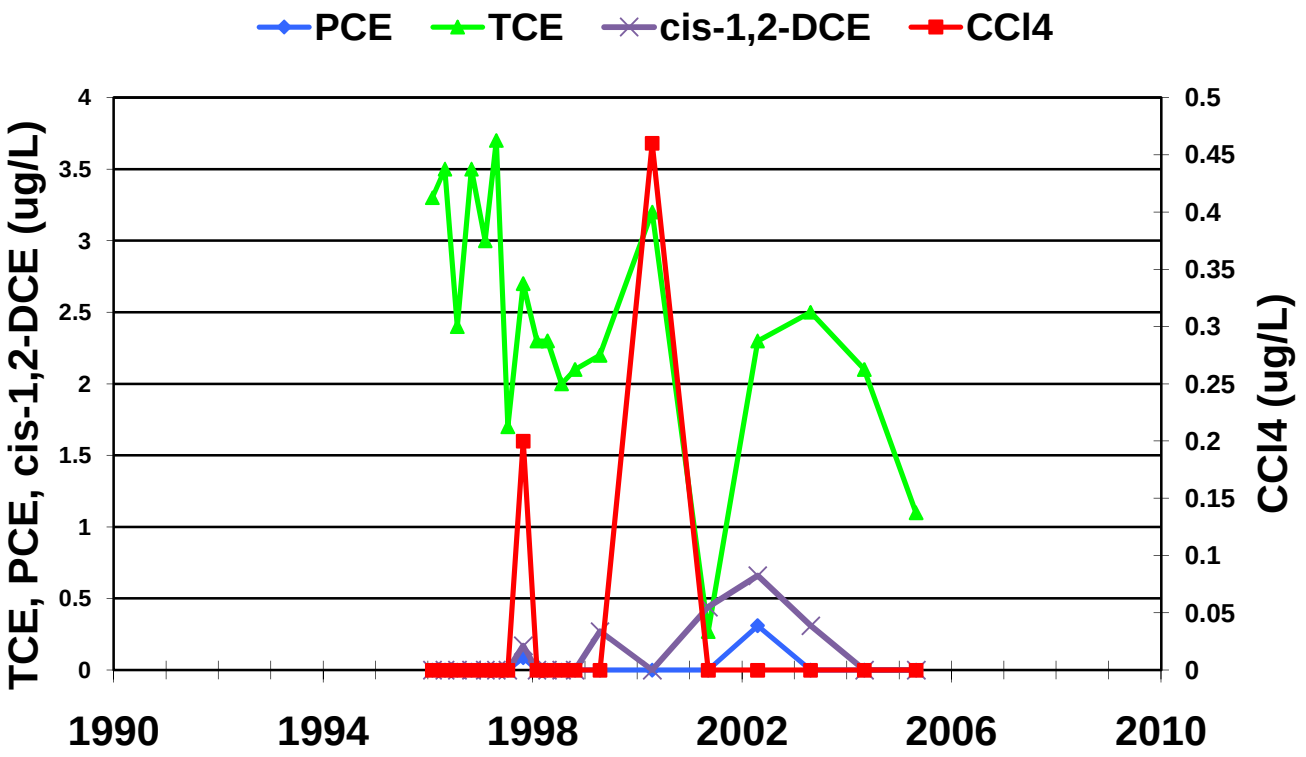

MAFB-105
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

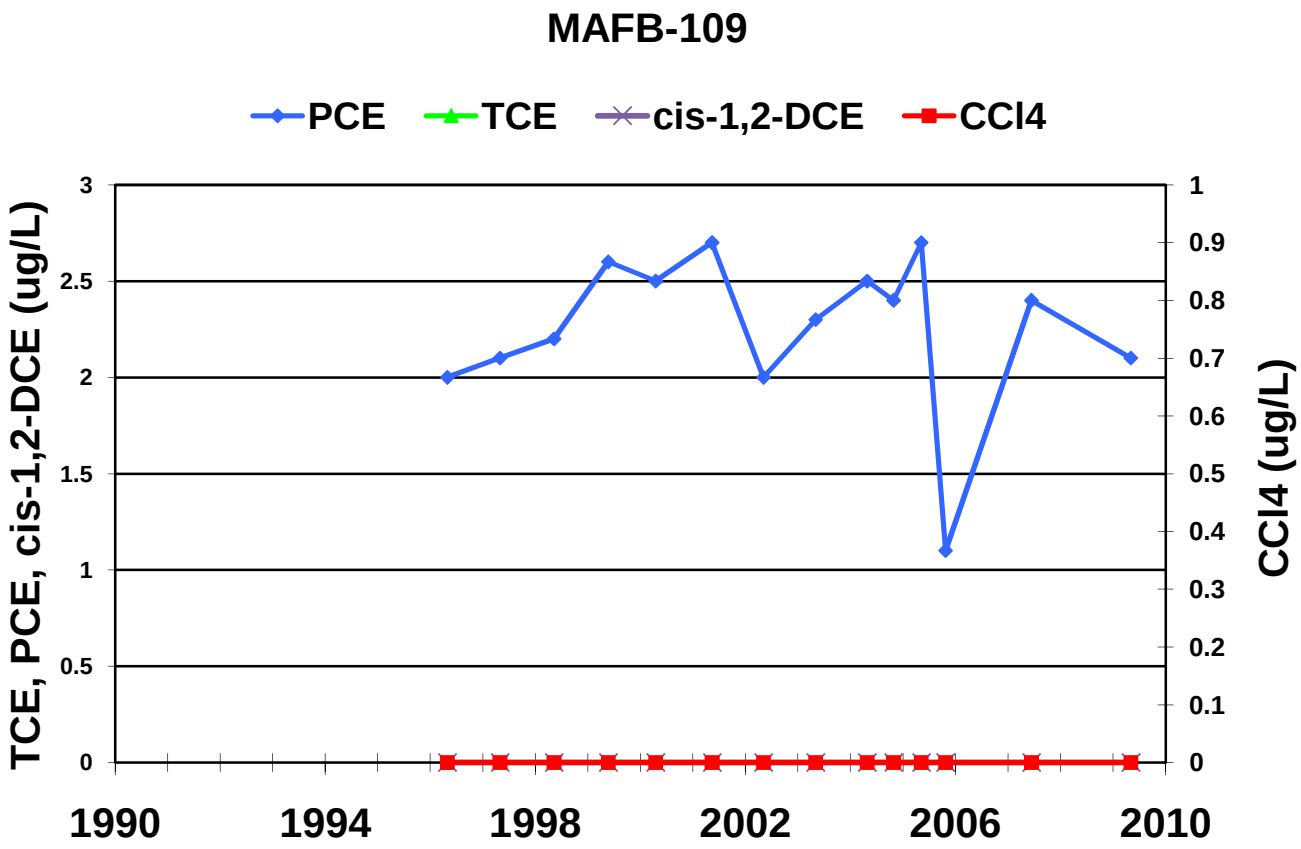

MAFB-106
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

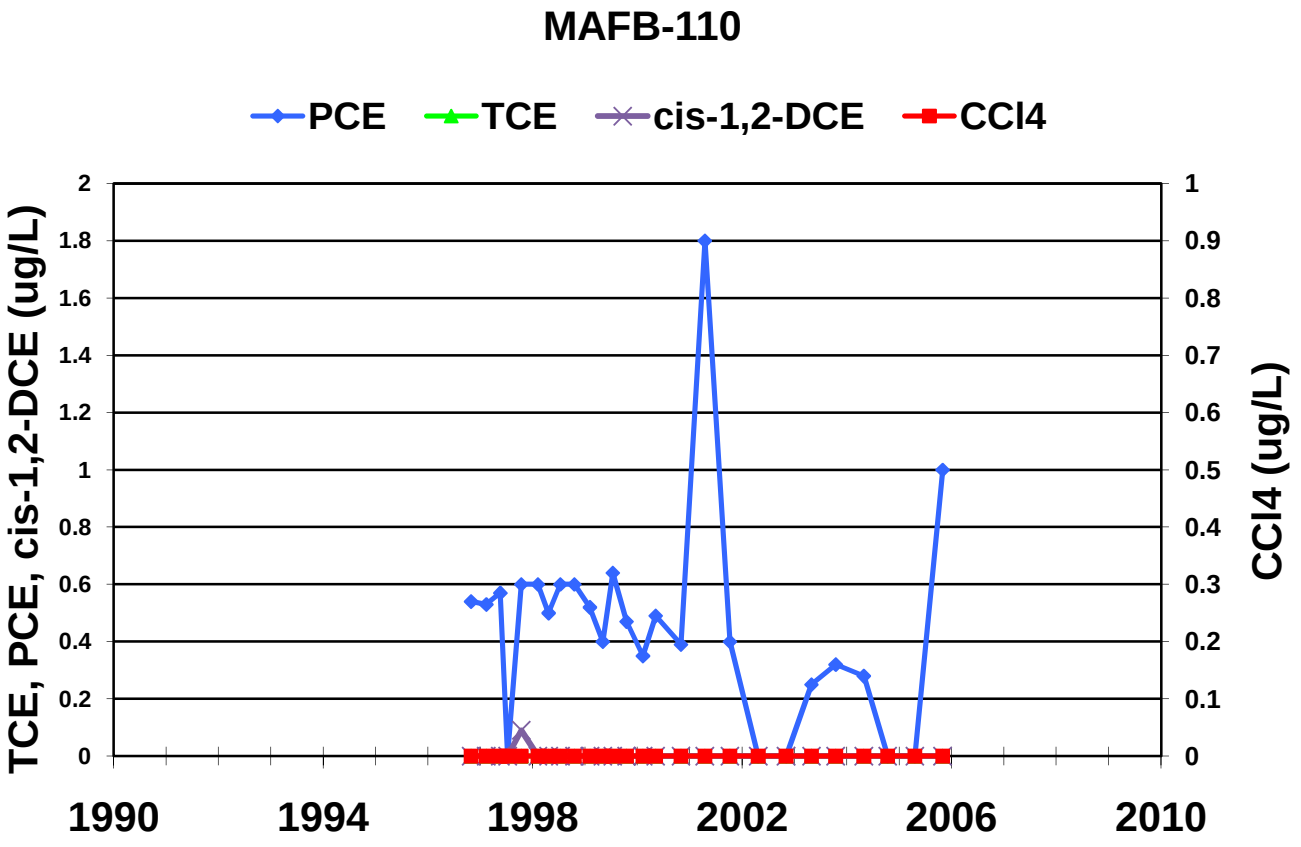
MAFB-107



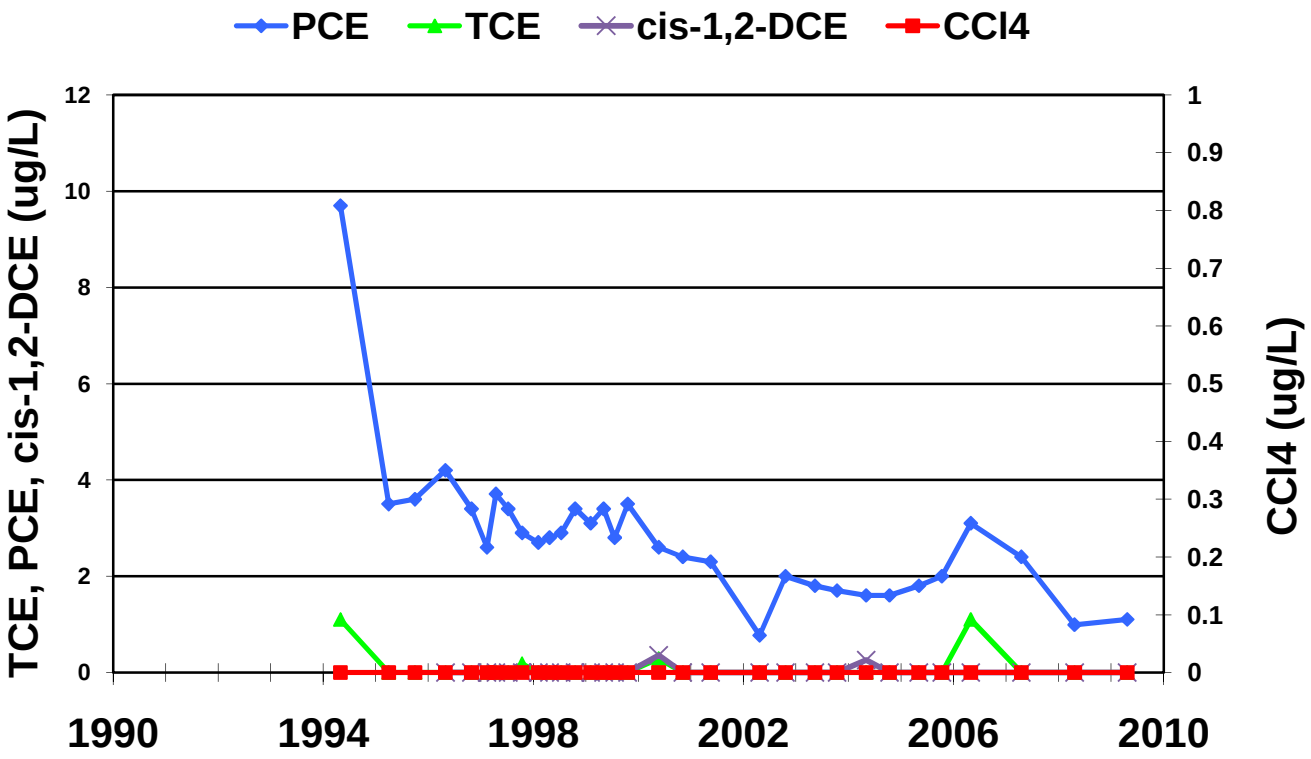
MAFB-108



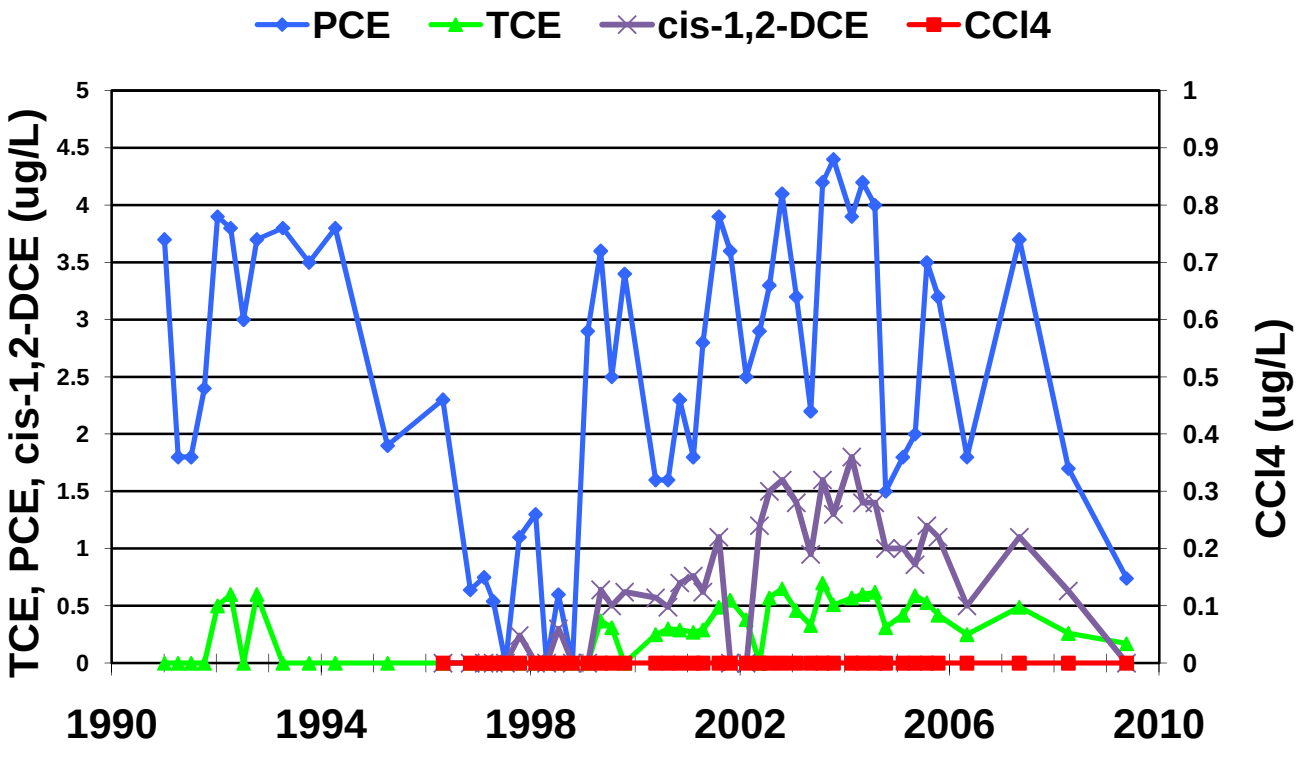

MAFB-109
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-110
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

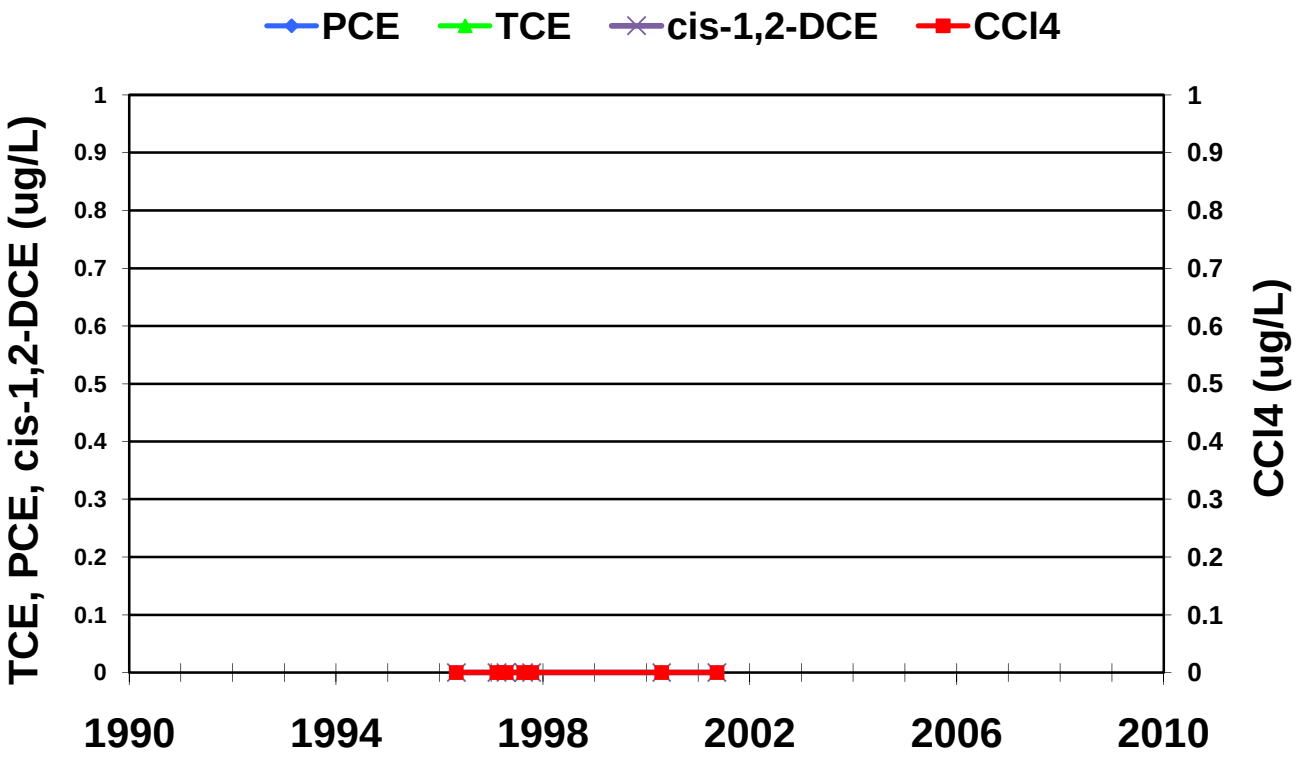
MAFB-111



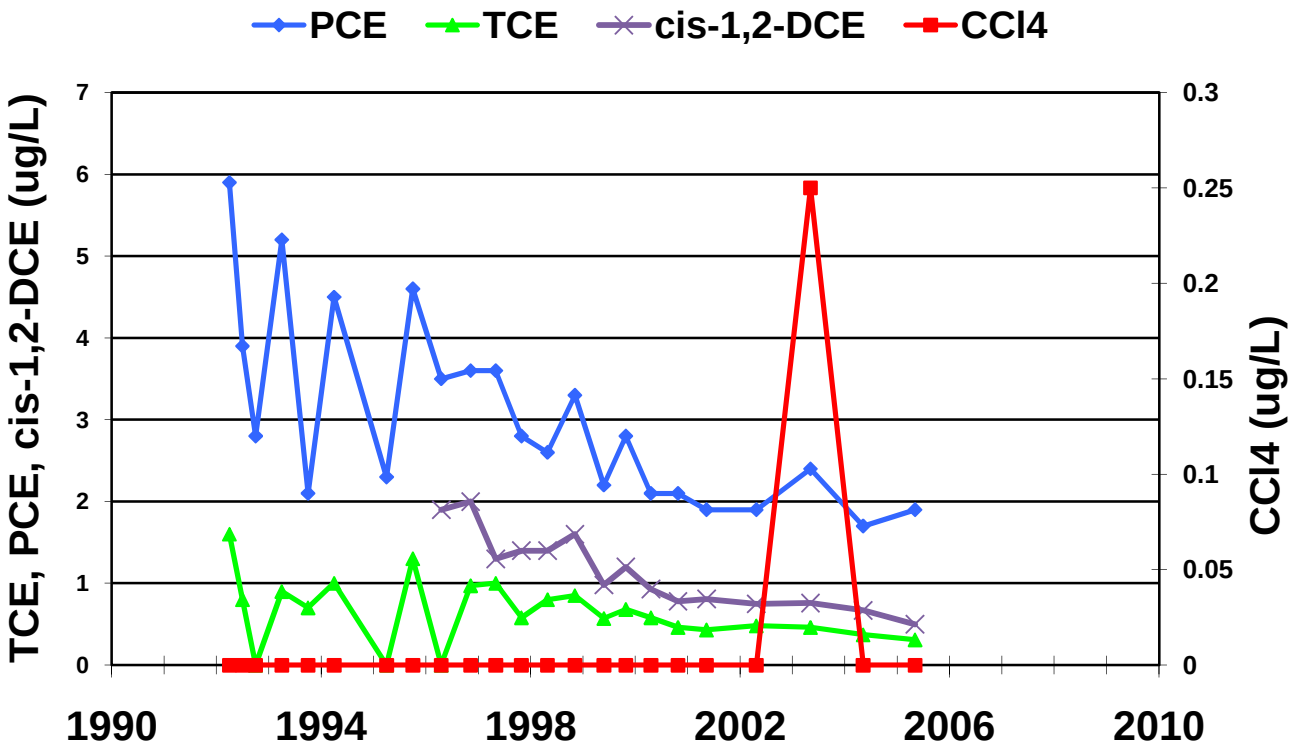
MAFB-112

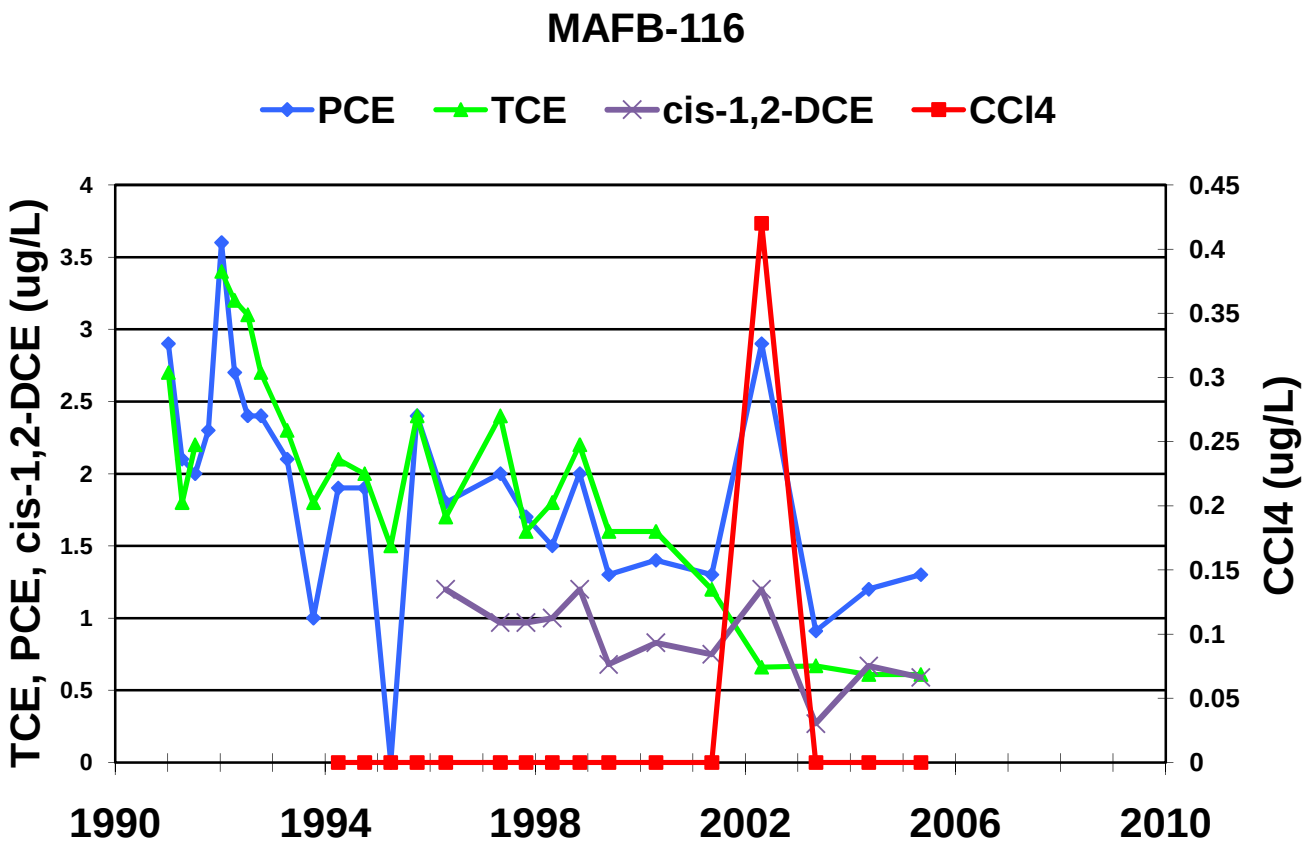


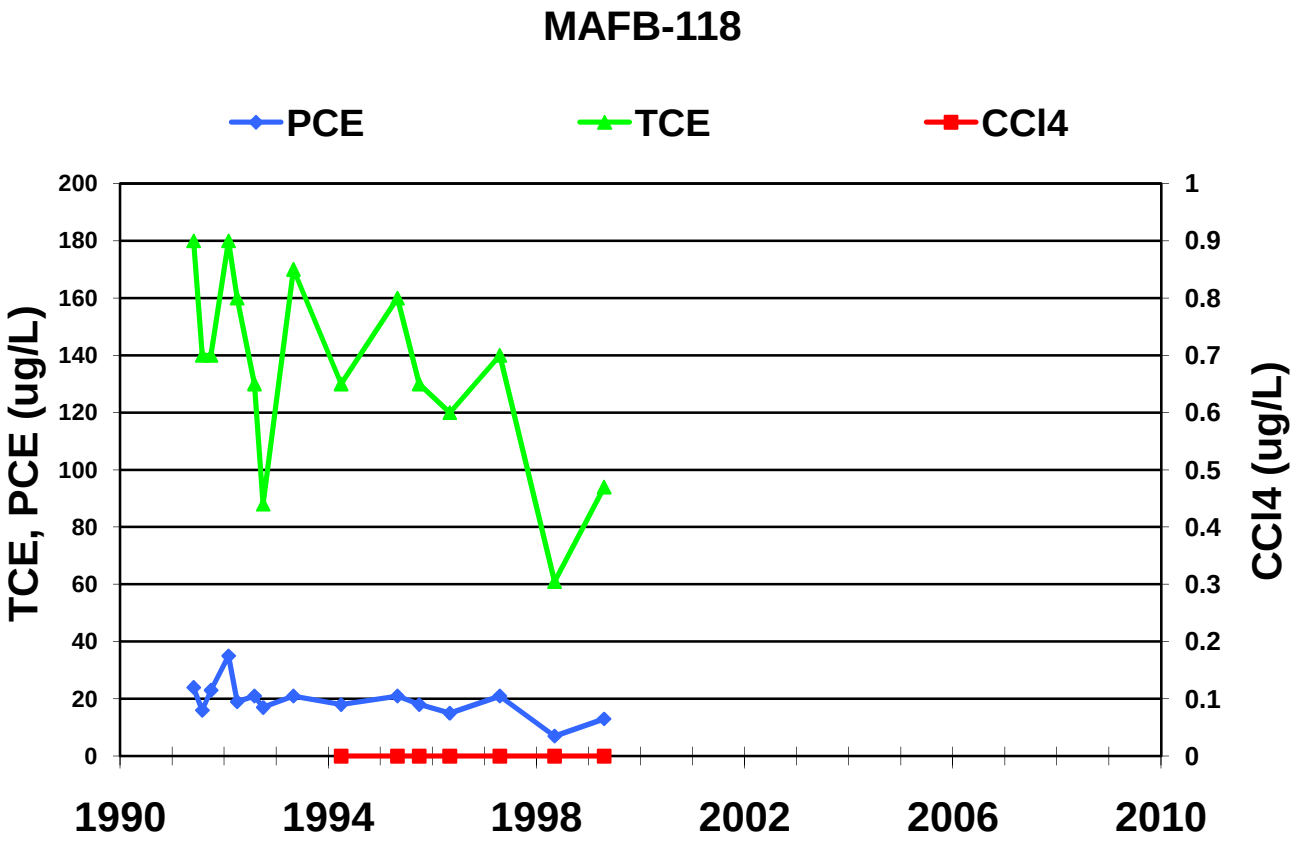
MAFB-113

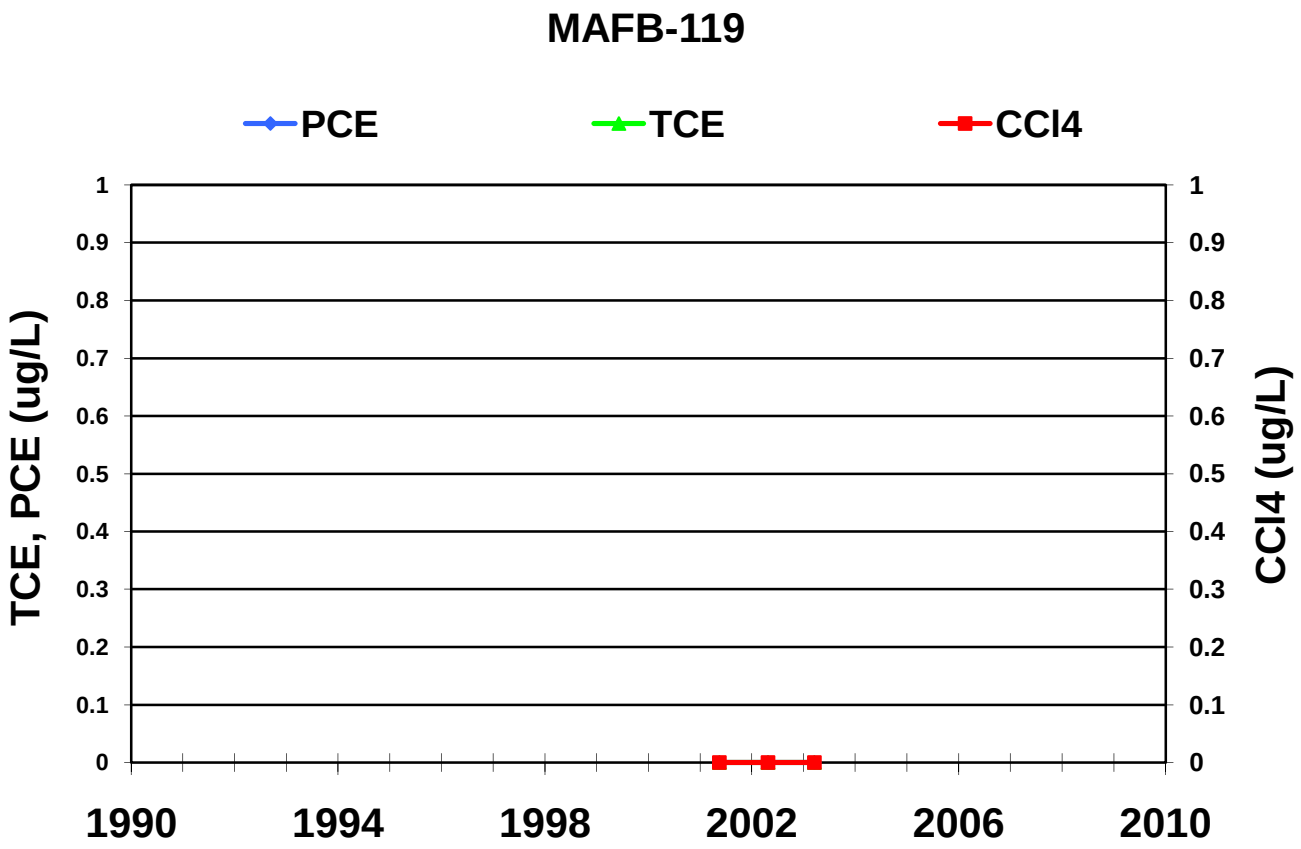


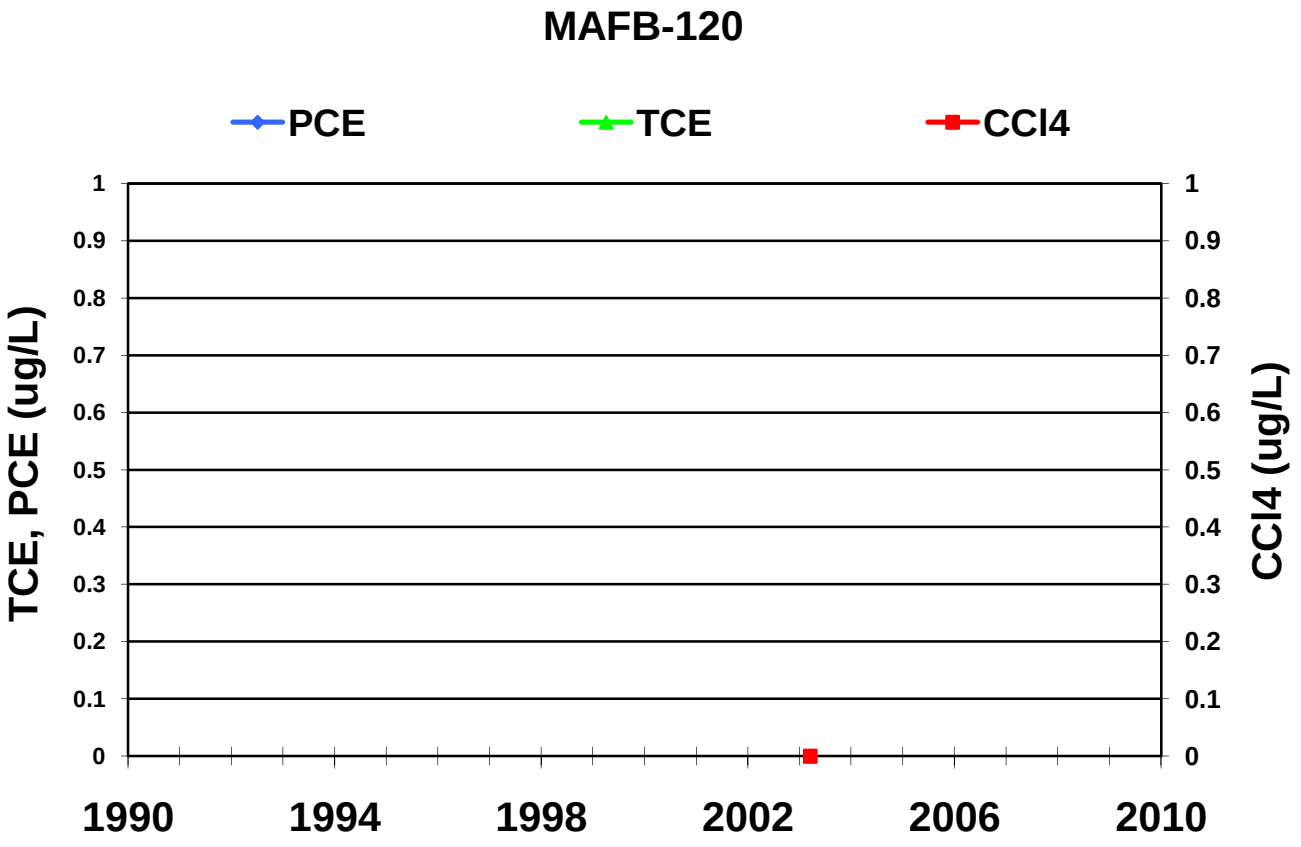
MAFB-115

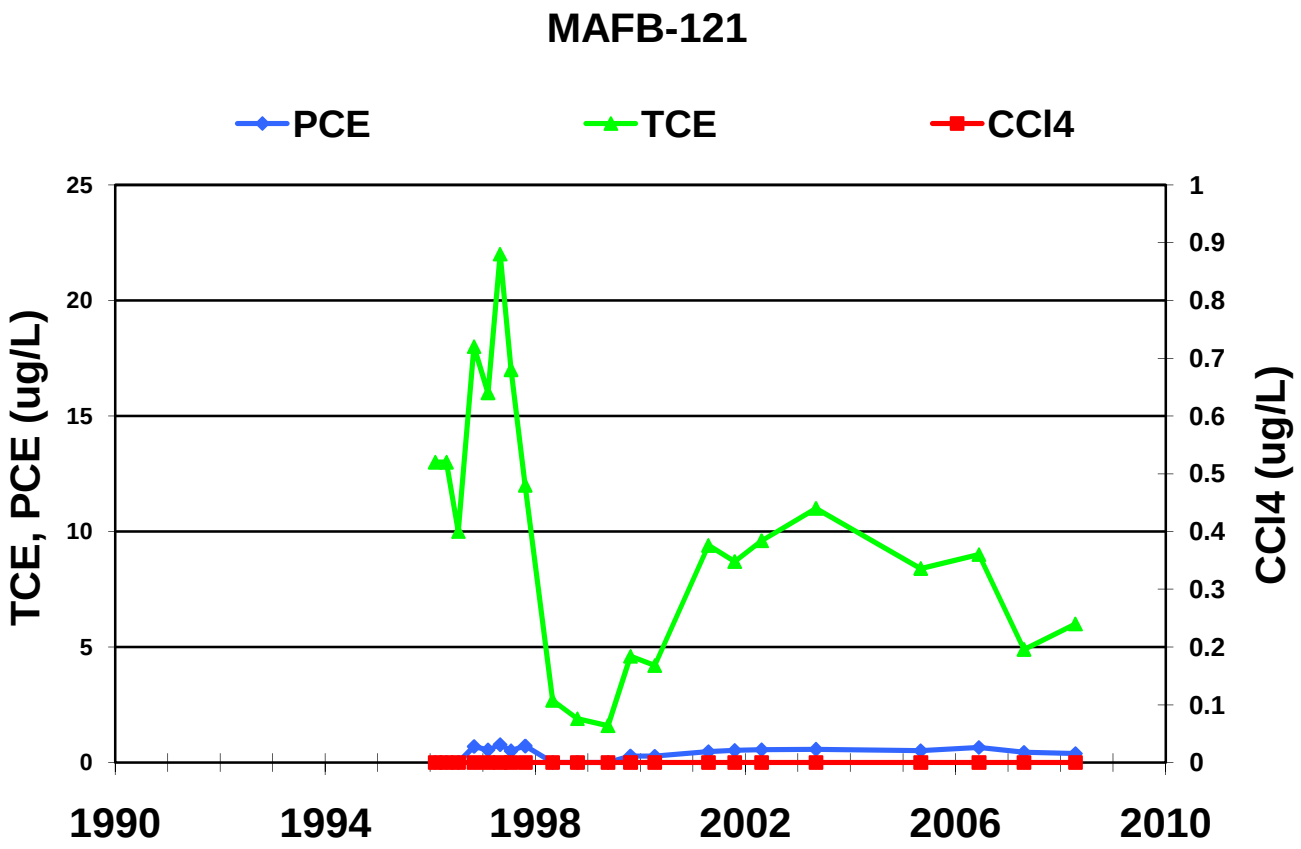


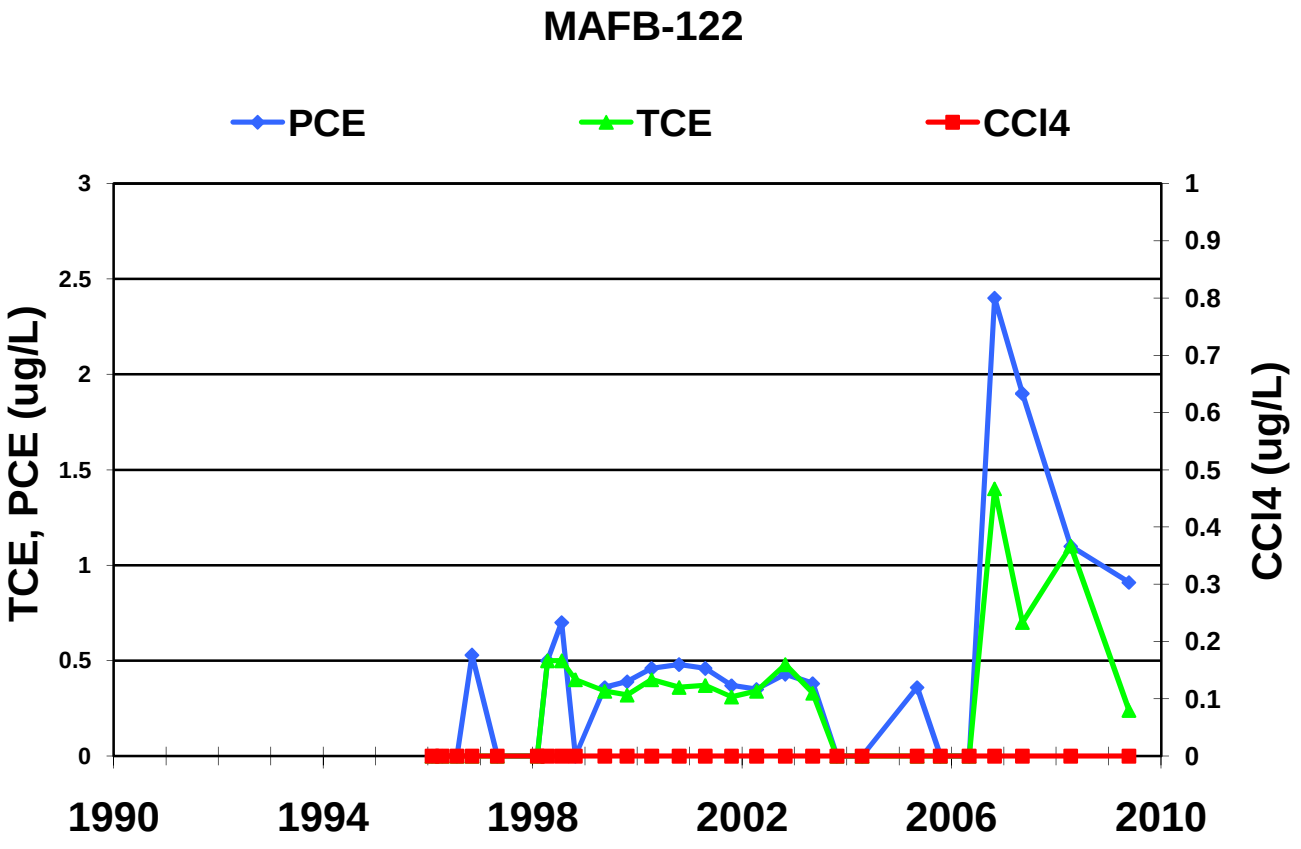

MAFB-116
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

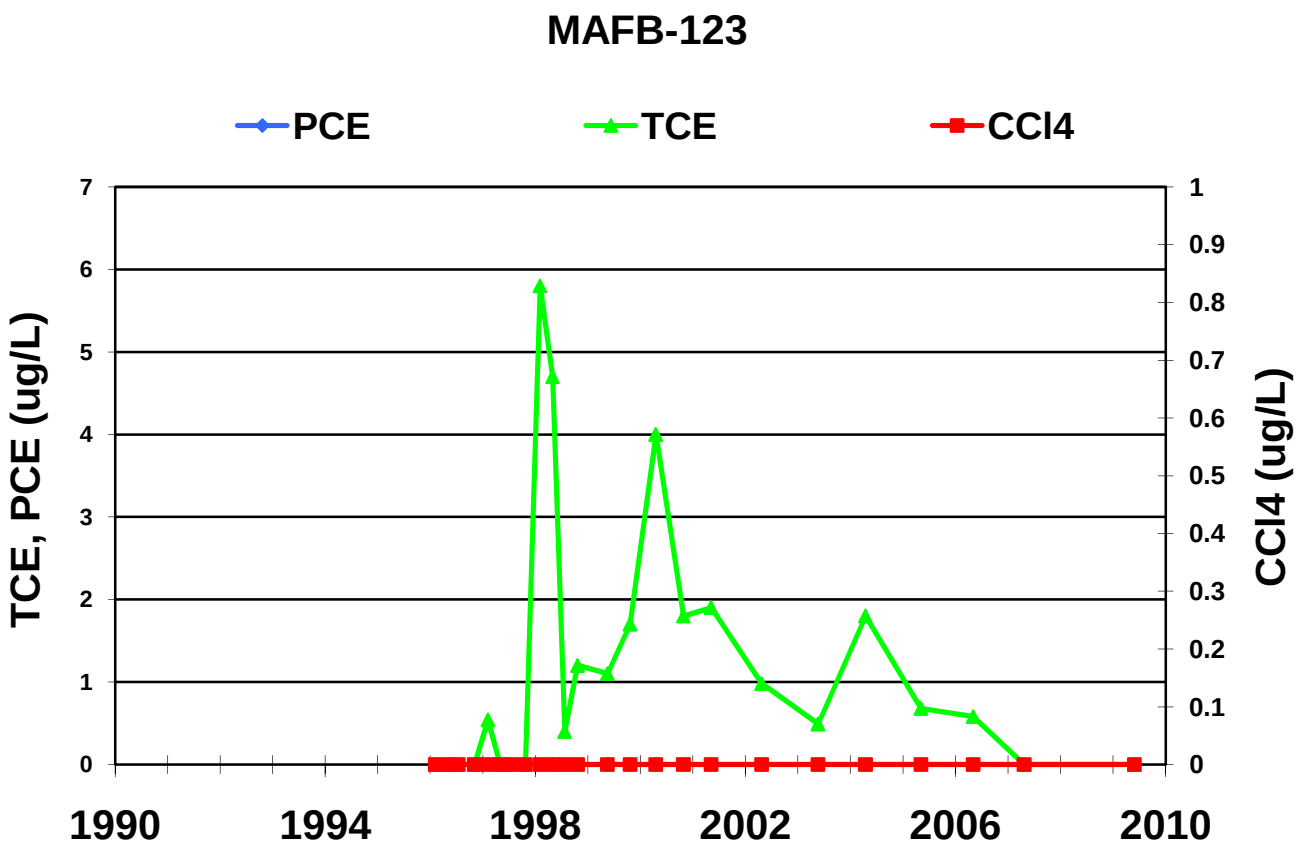

MAFB-118
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
200
180
160
140
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

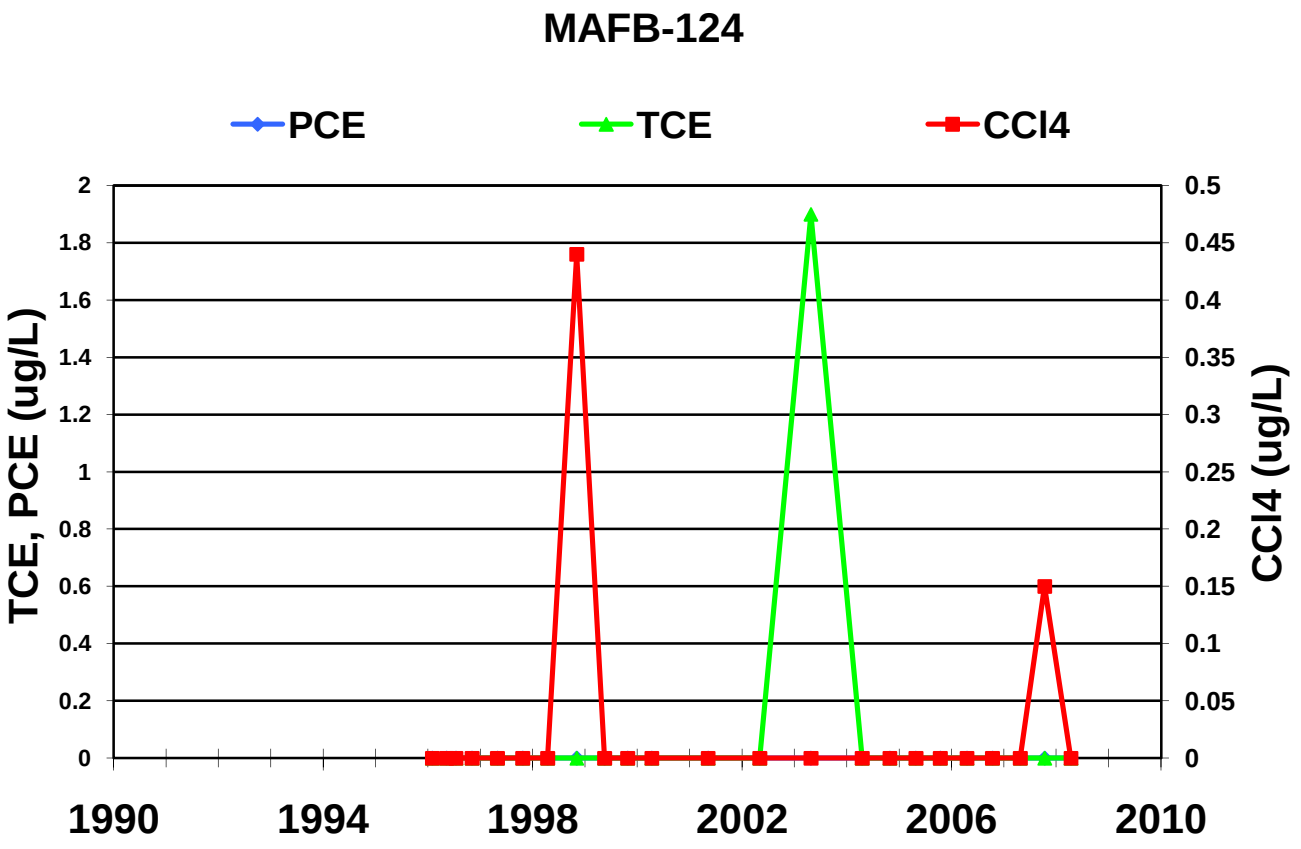

MAFB-119
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

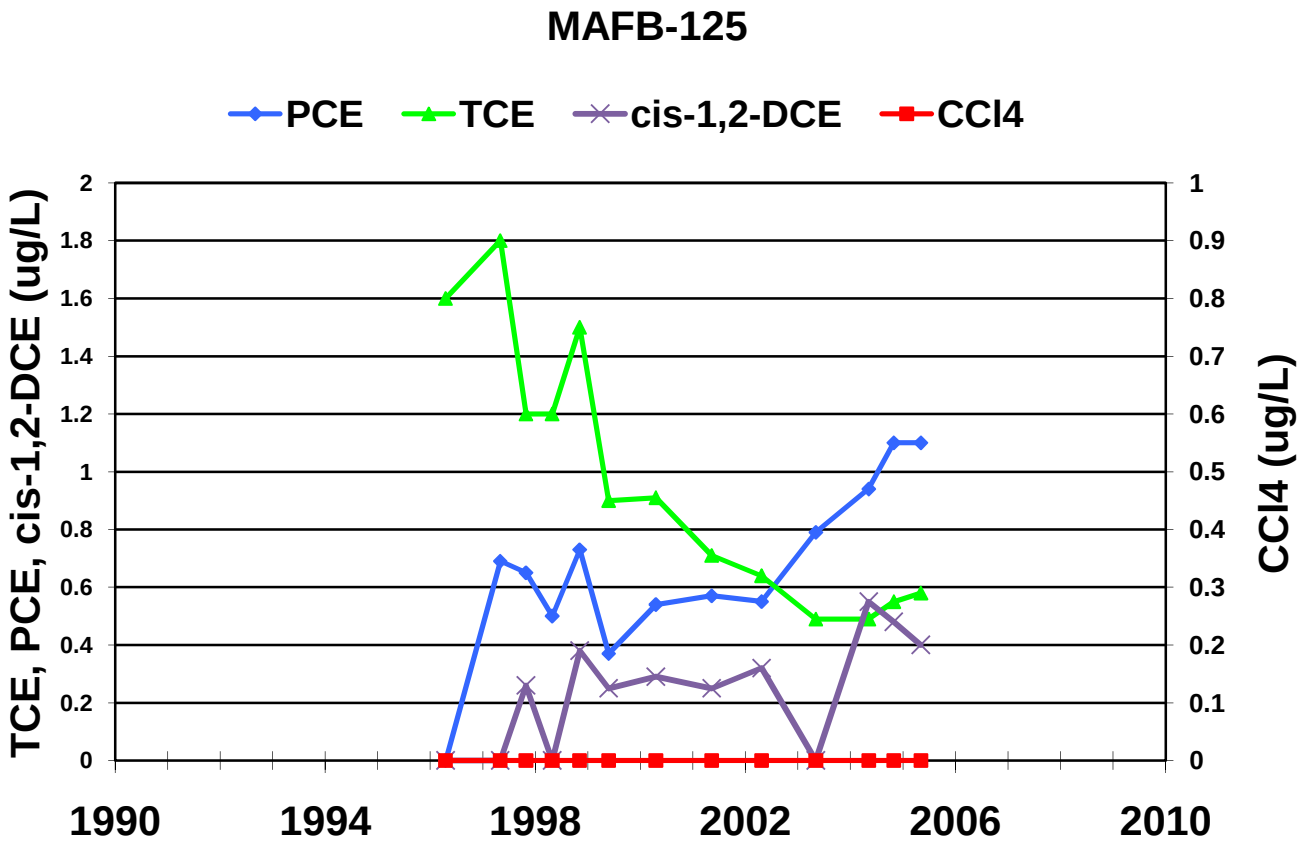

MAFB-120
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

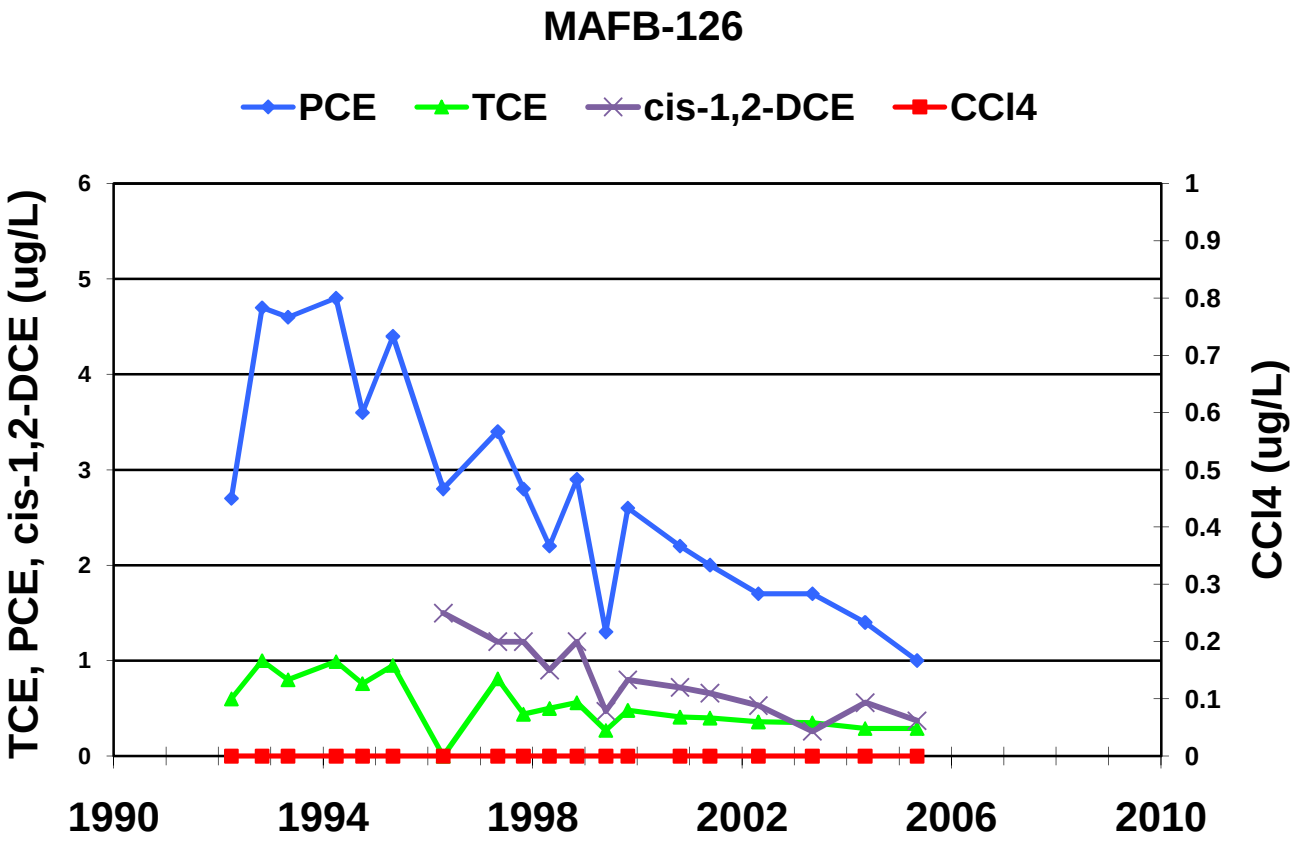

MAFB-121
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-122
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

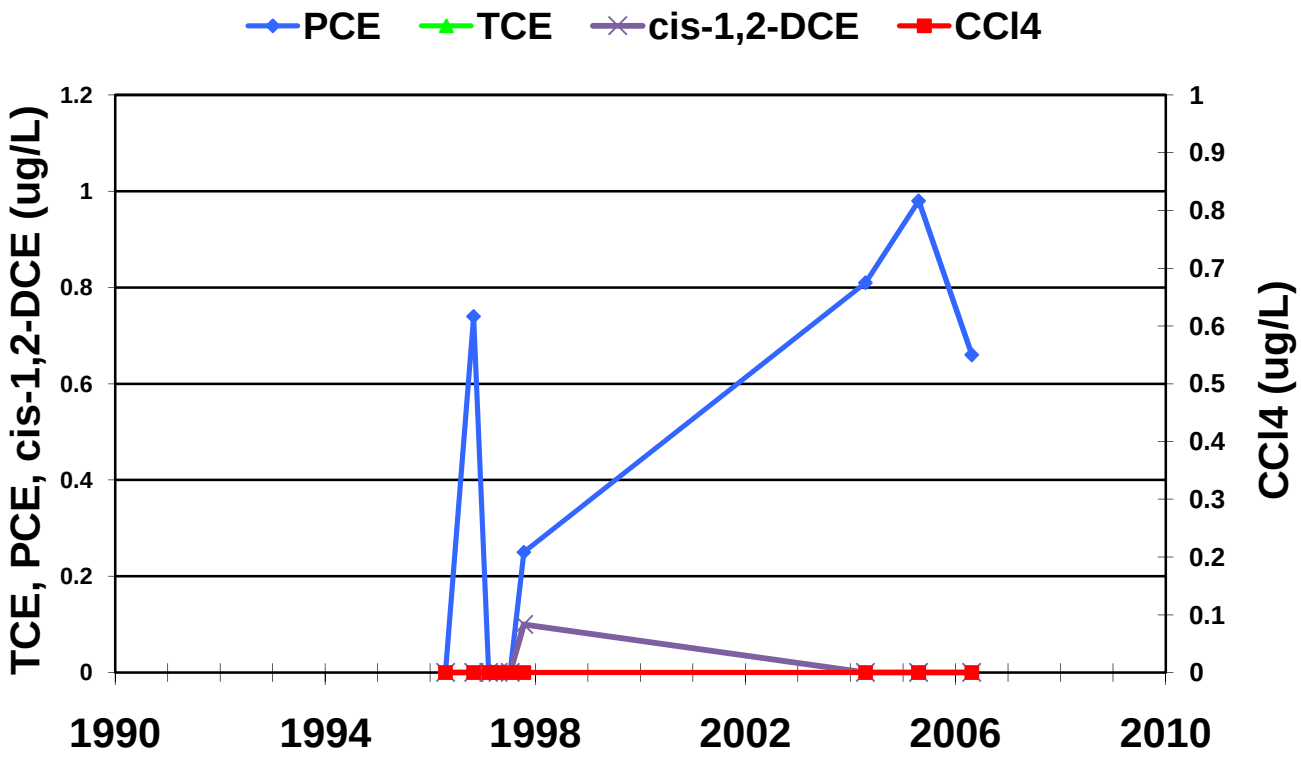

MAFB-123
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010


MAFB-124
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
1990
1994
1998
2002
2006
2010

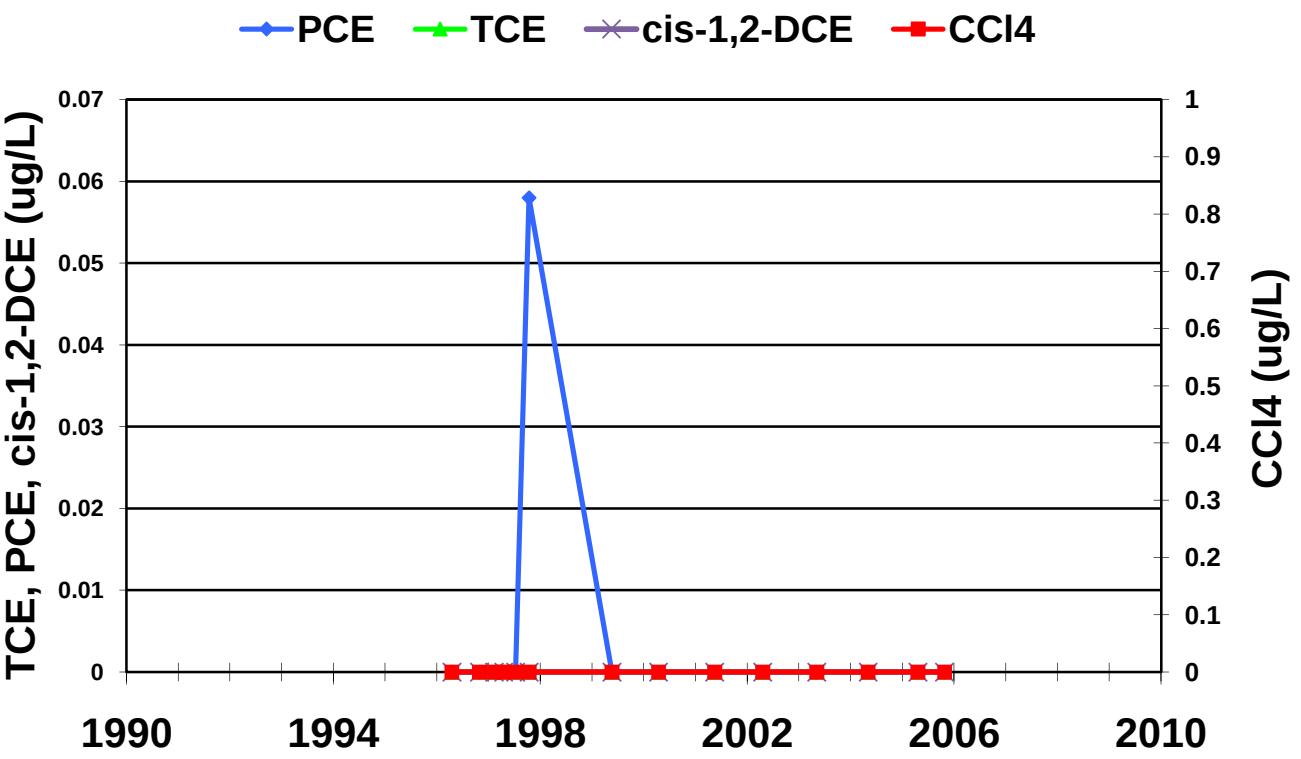

MAFB-125
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0.1
0.3
0.5
0.7
0.9
1990
1994
1998
2002
2006
2010


MAFB-126
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1990
1994
1998
2002
2006
2010

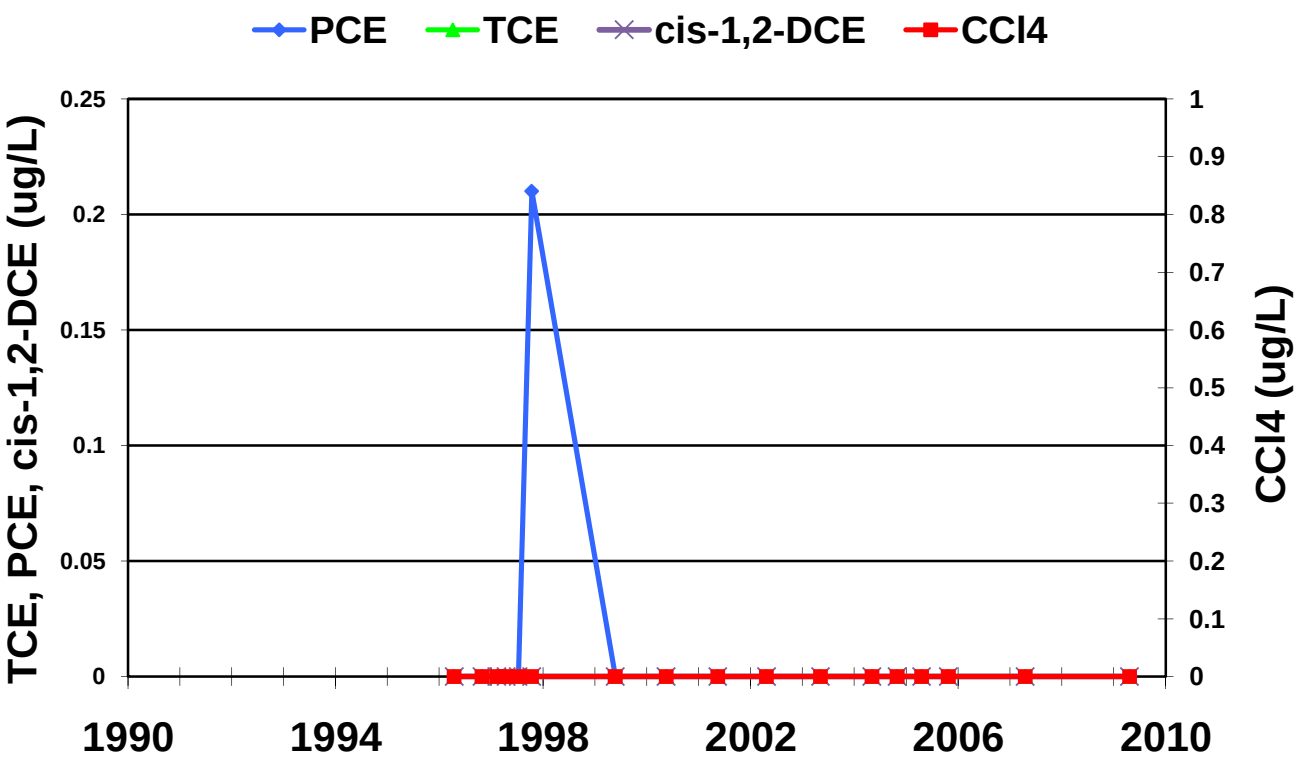
MAFB-127



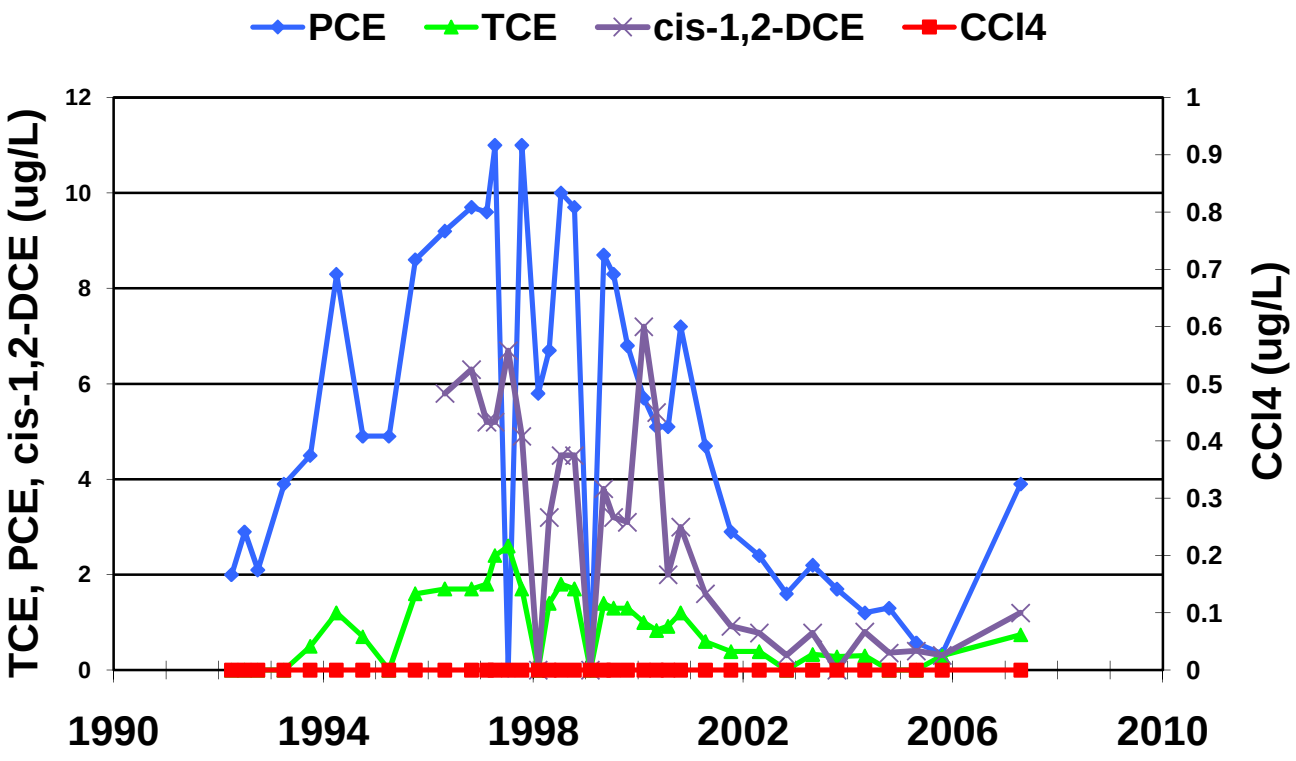
MAFB-128



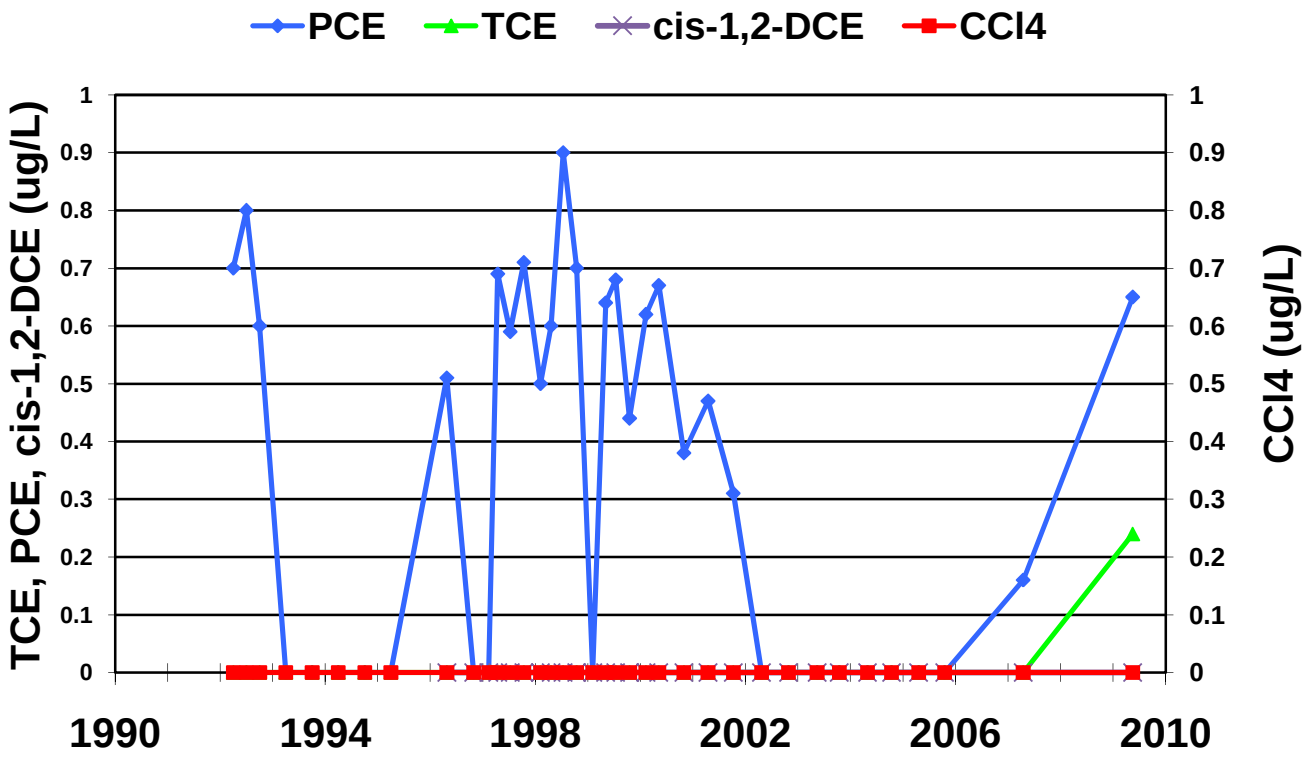
MAFB-129



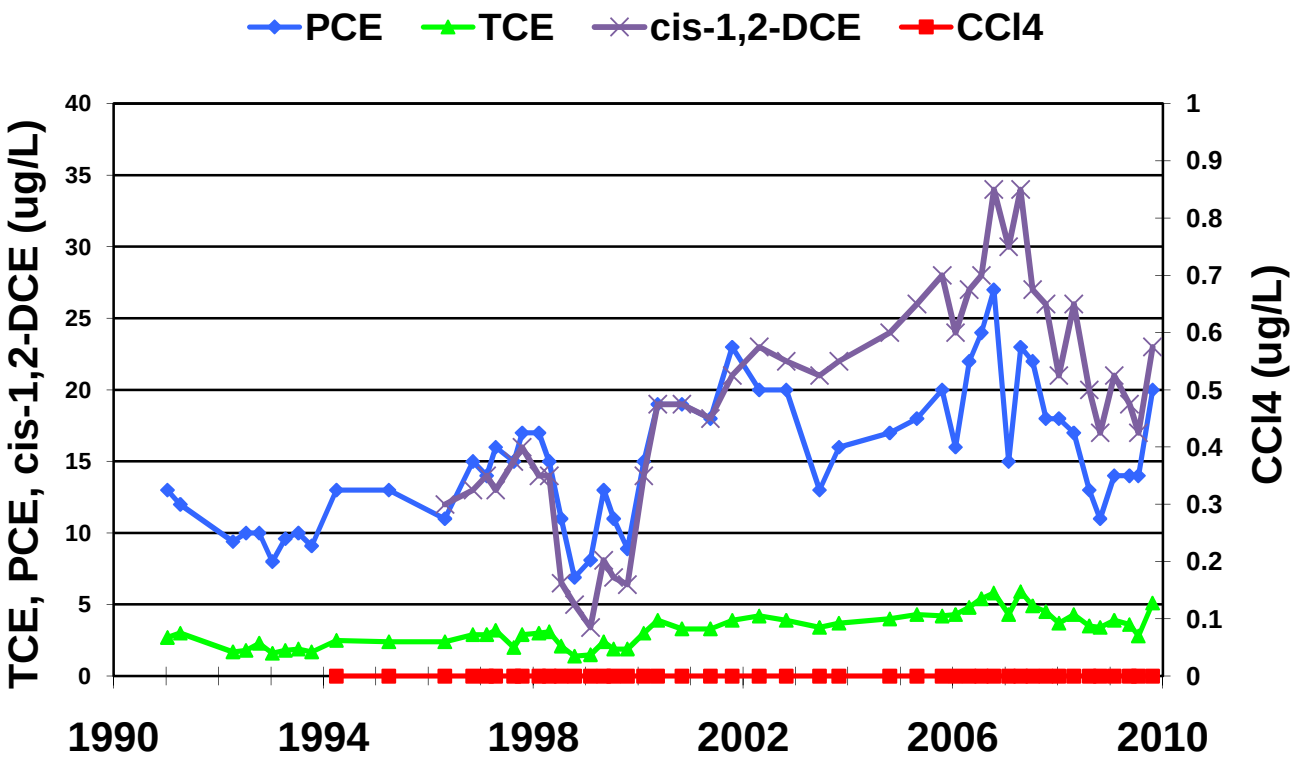
MAFB-130



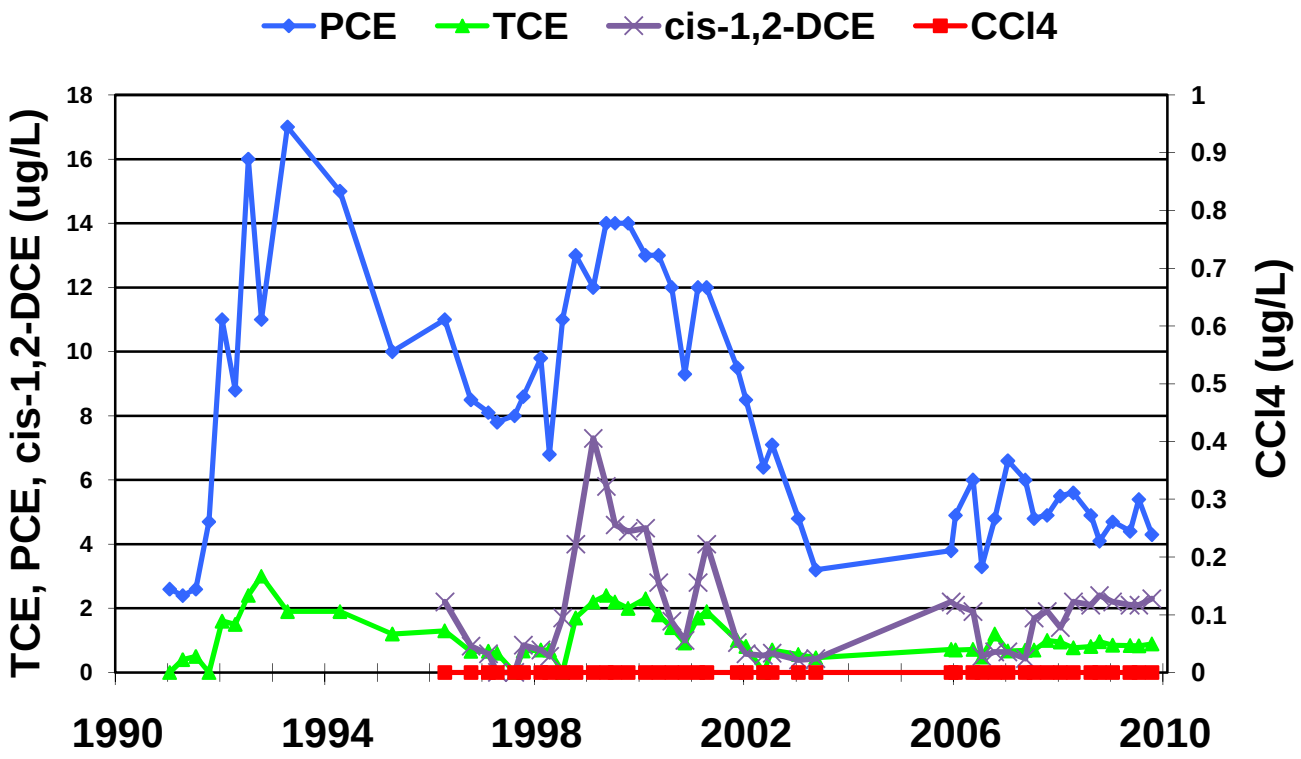
MAFB-131



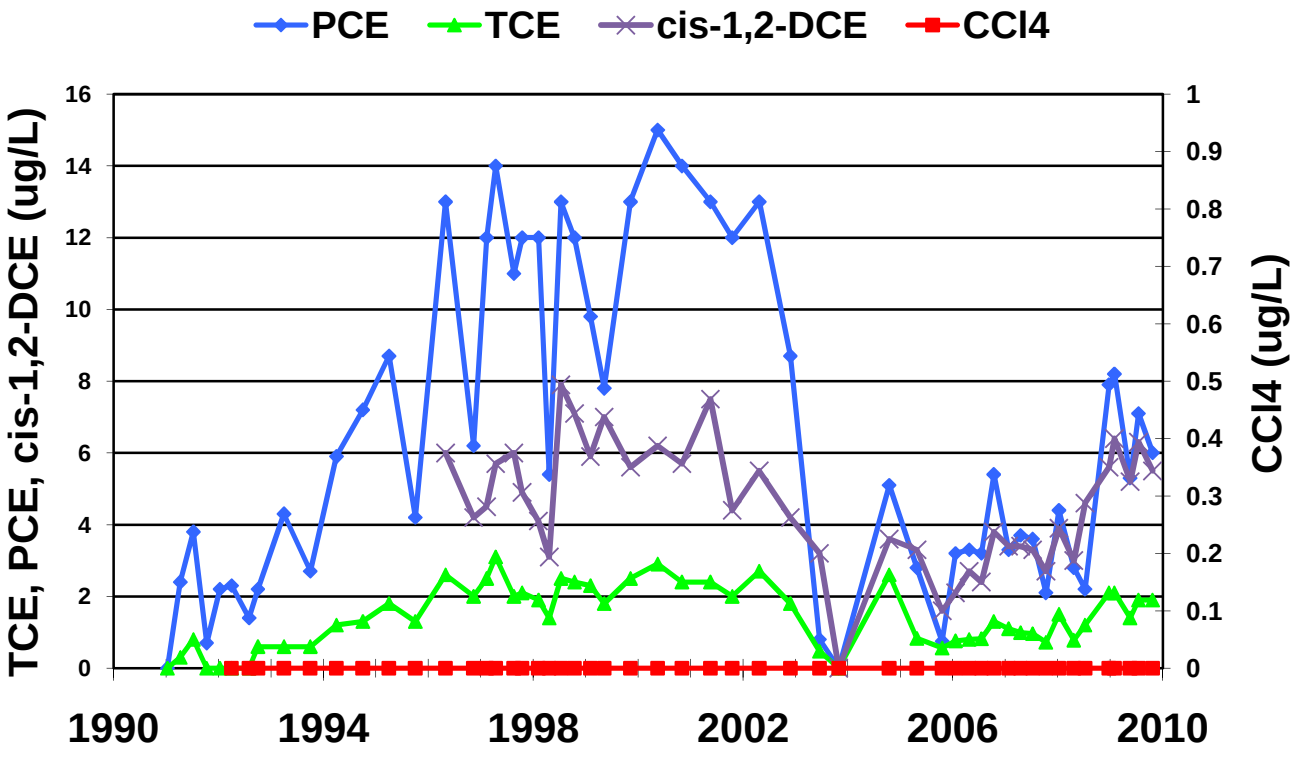
MAFB-132



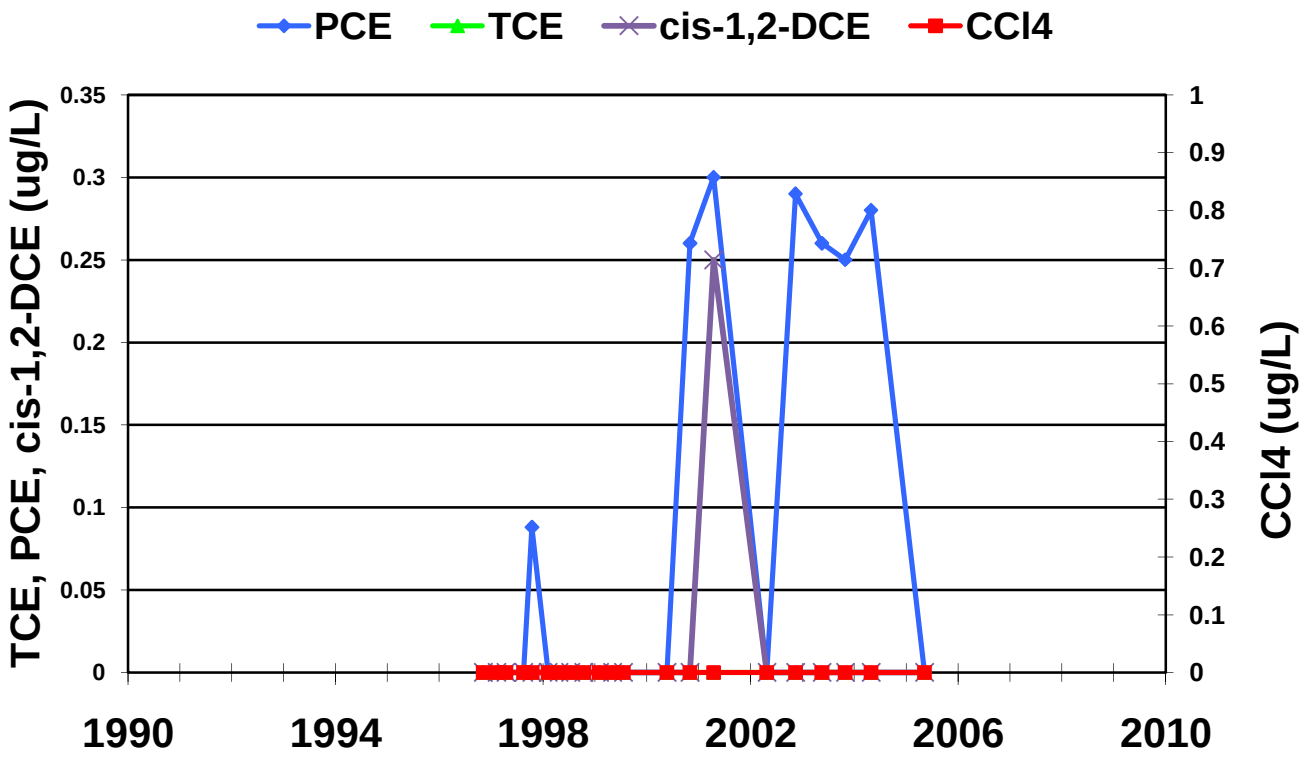
MAFB-133



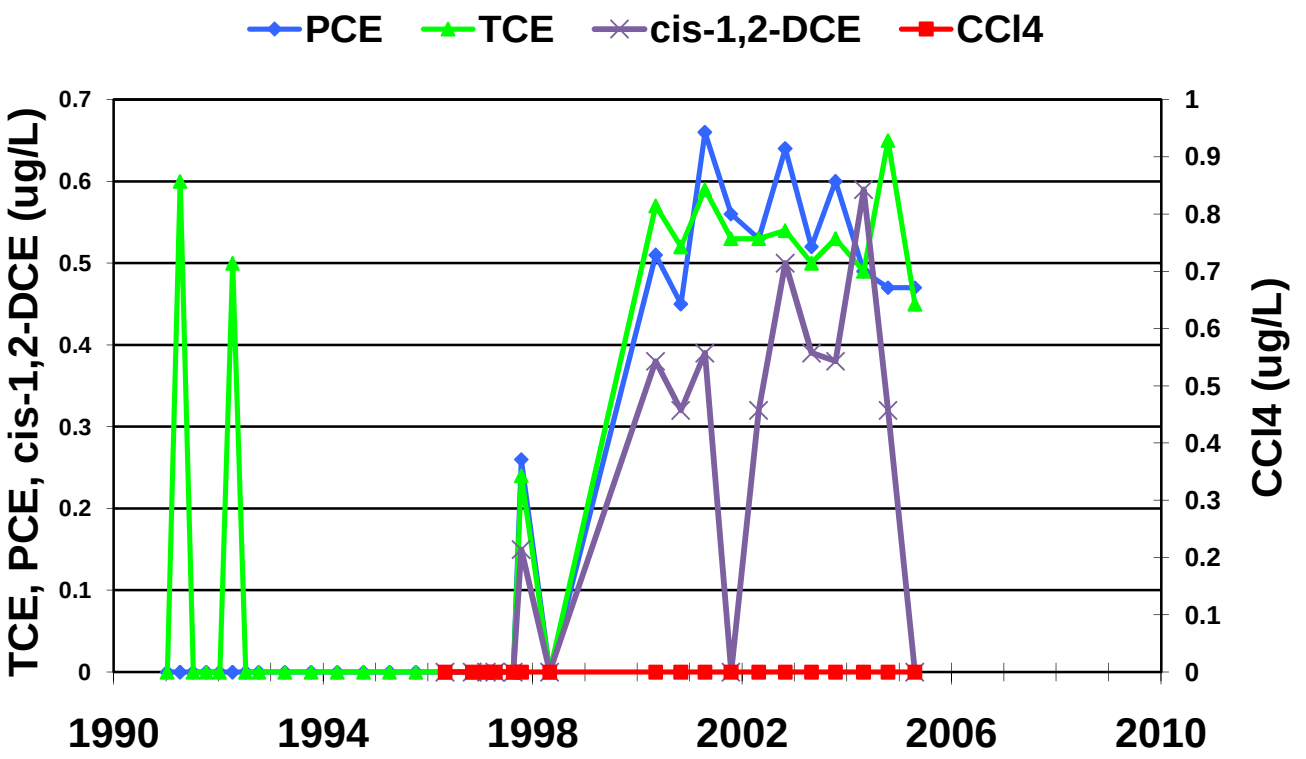
MAFB-136

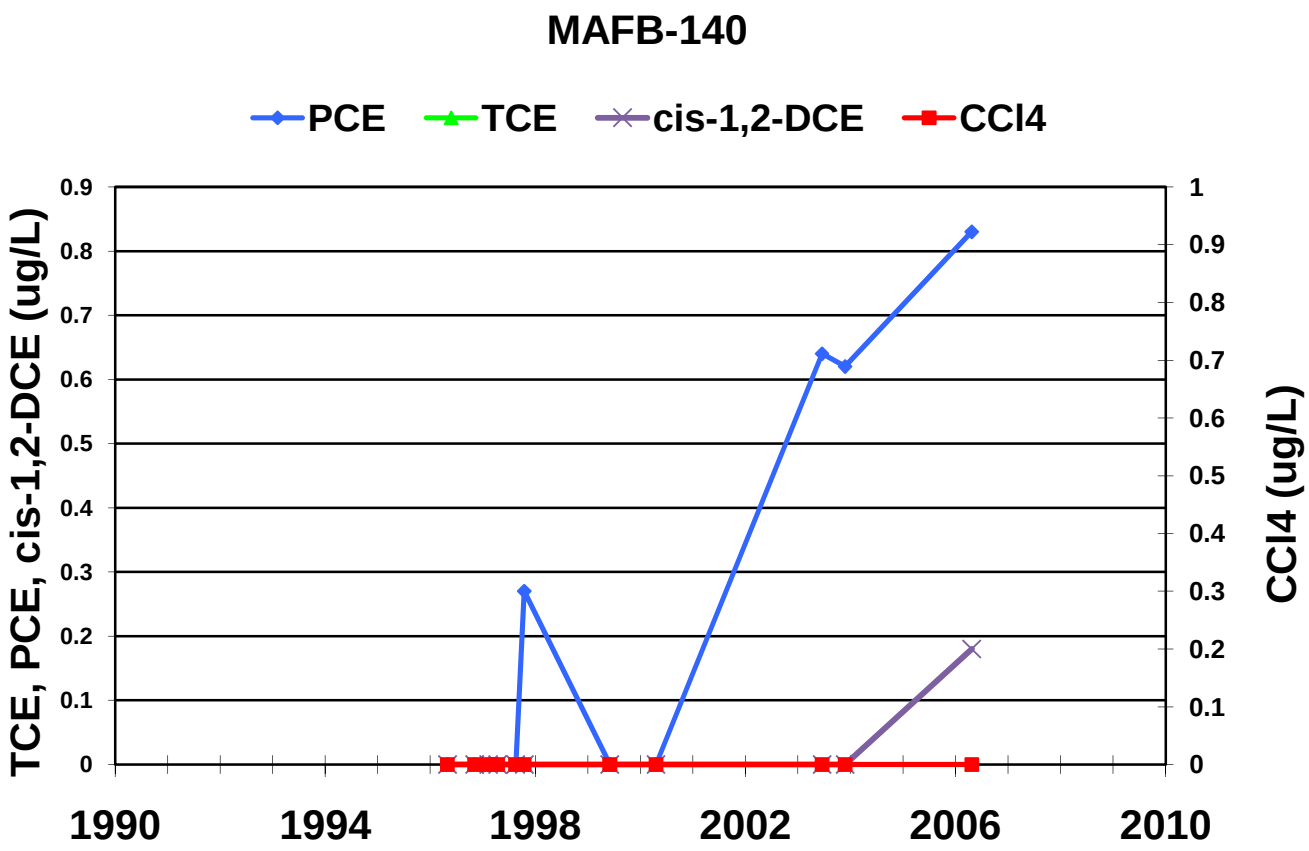


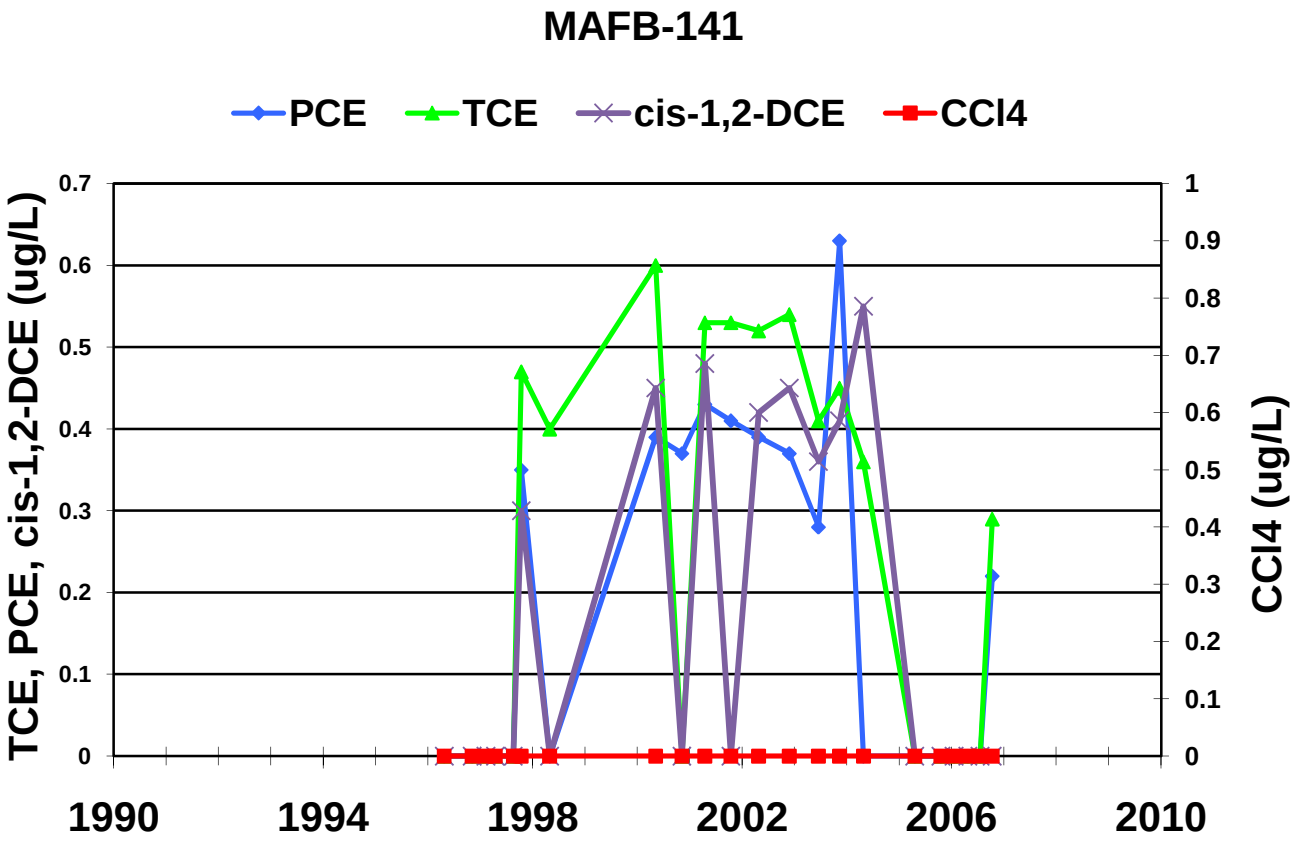
MAFB-137

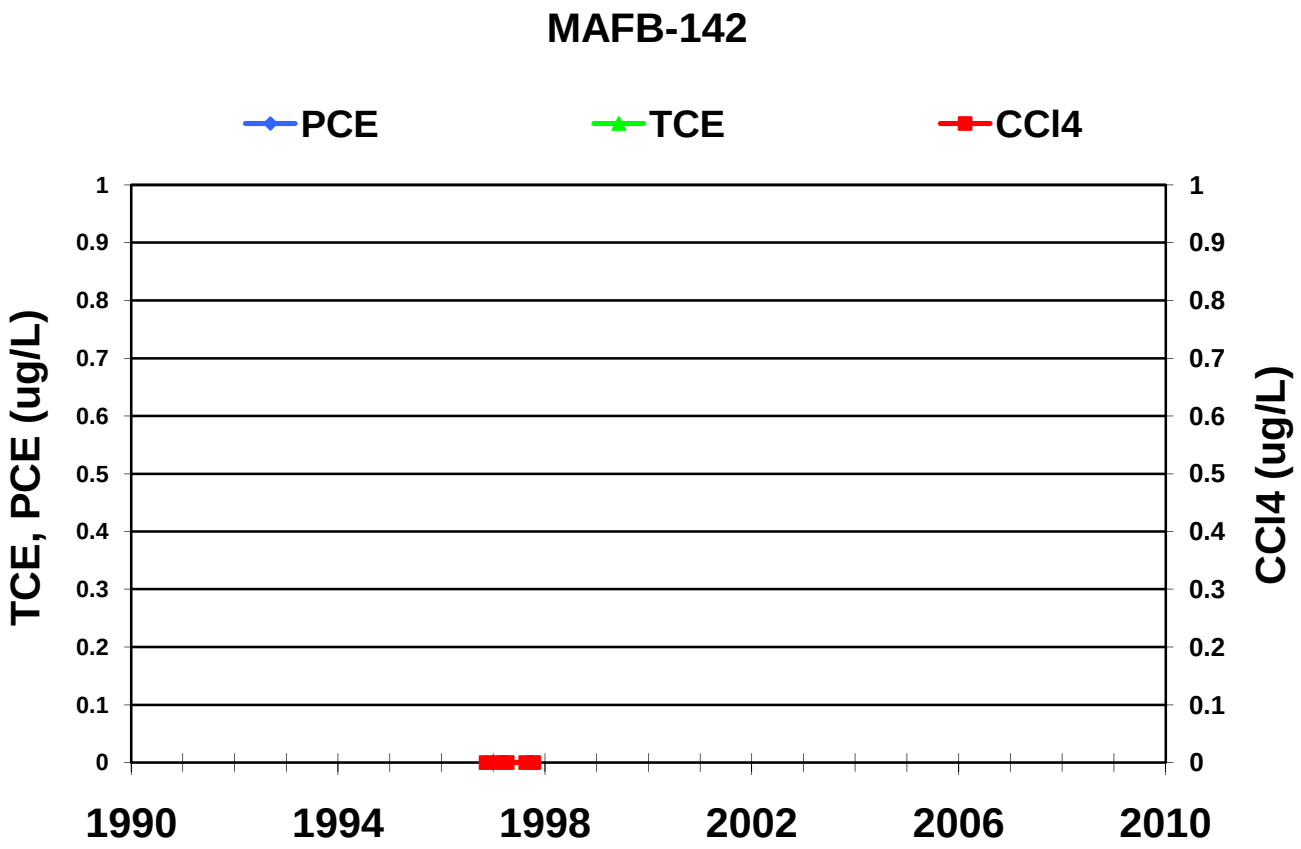


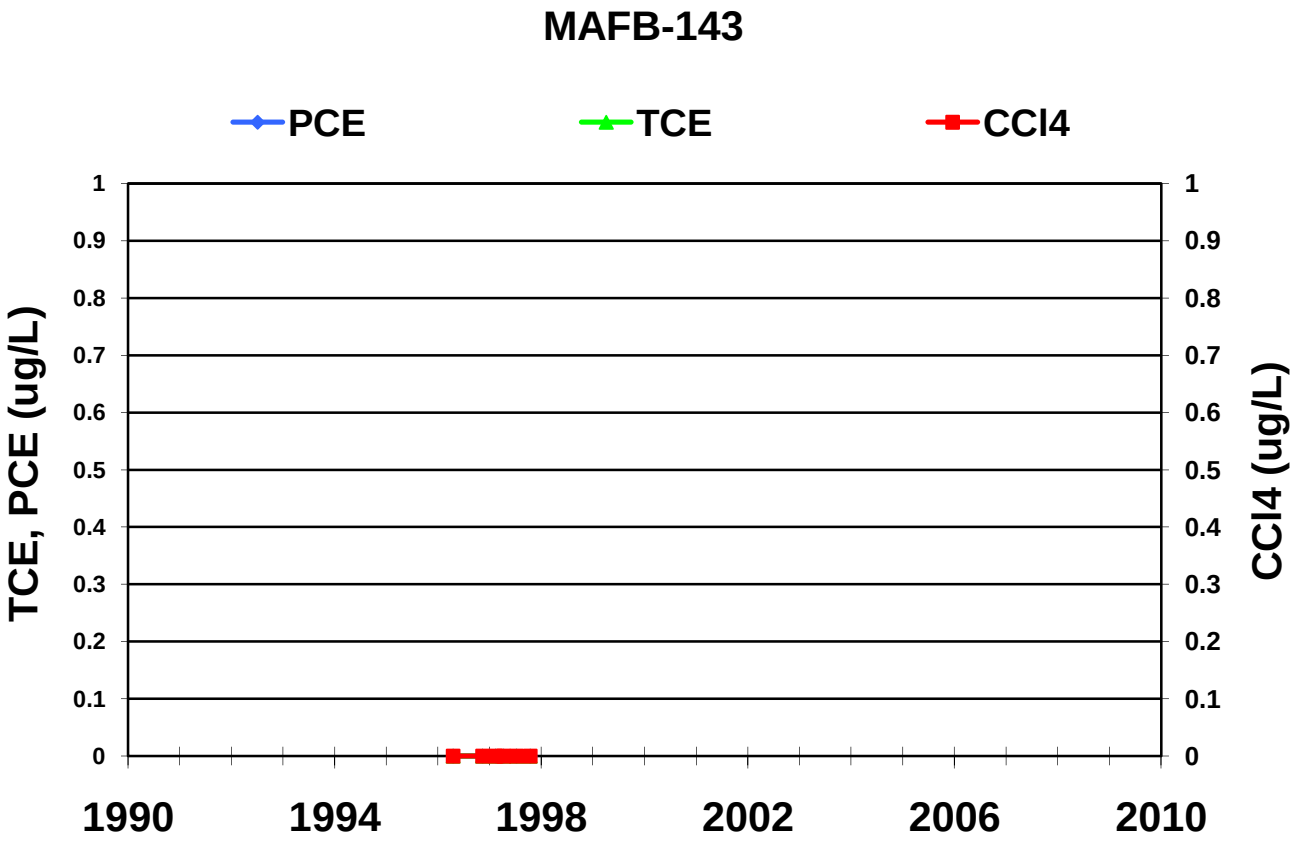
MAFB-139

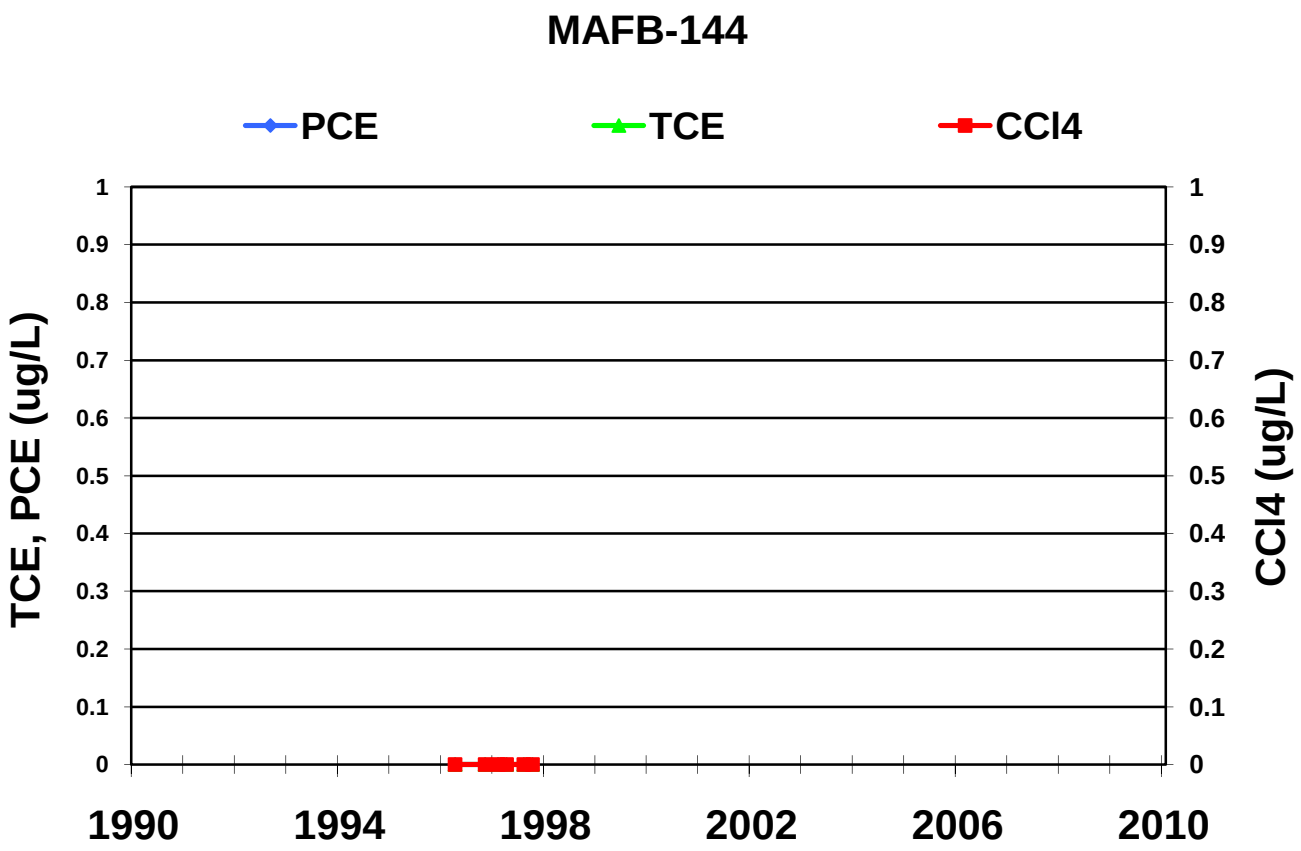


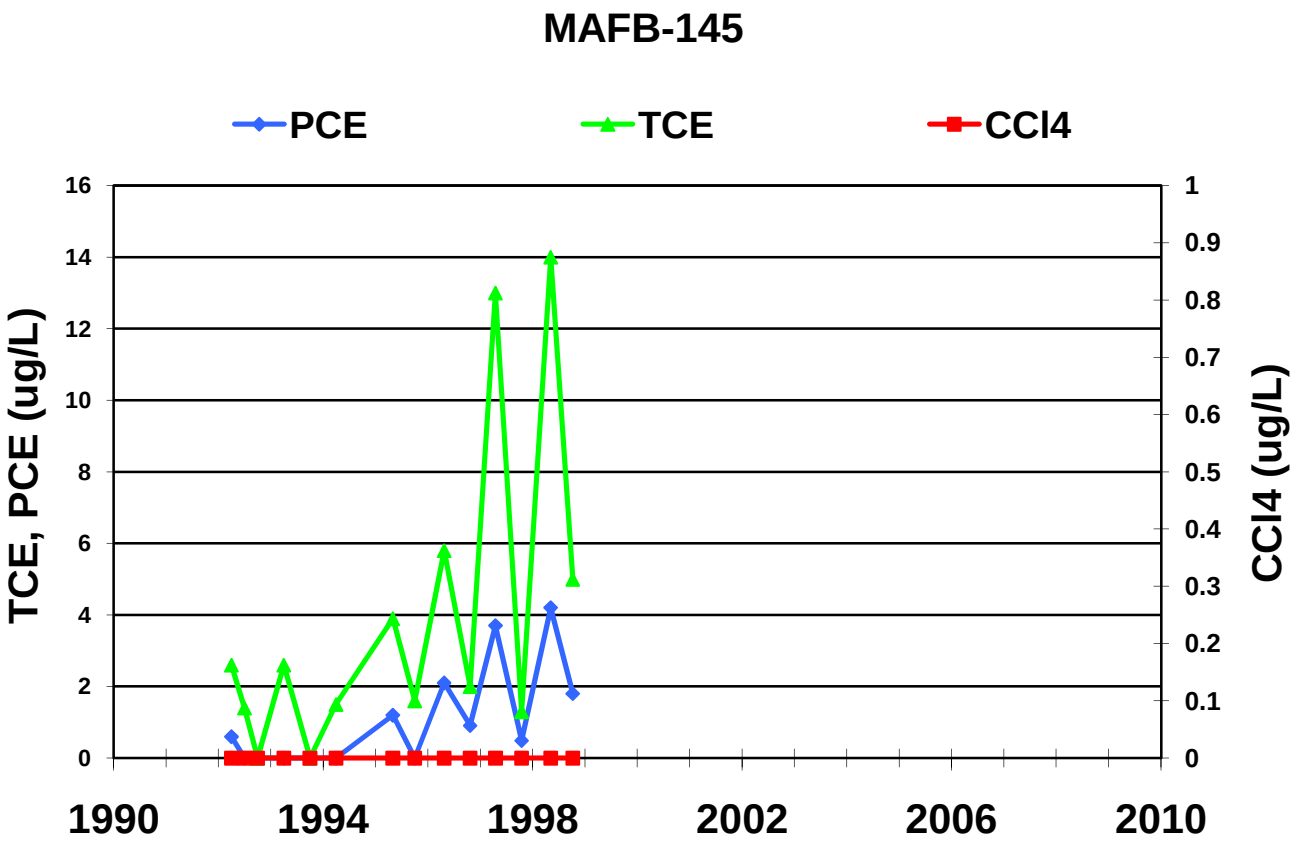

MAFB-140
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

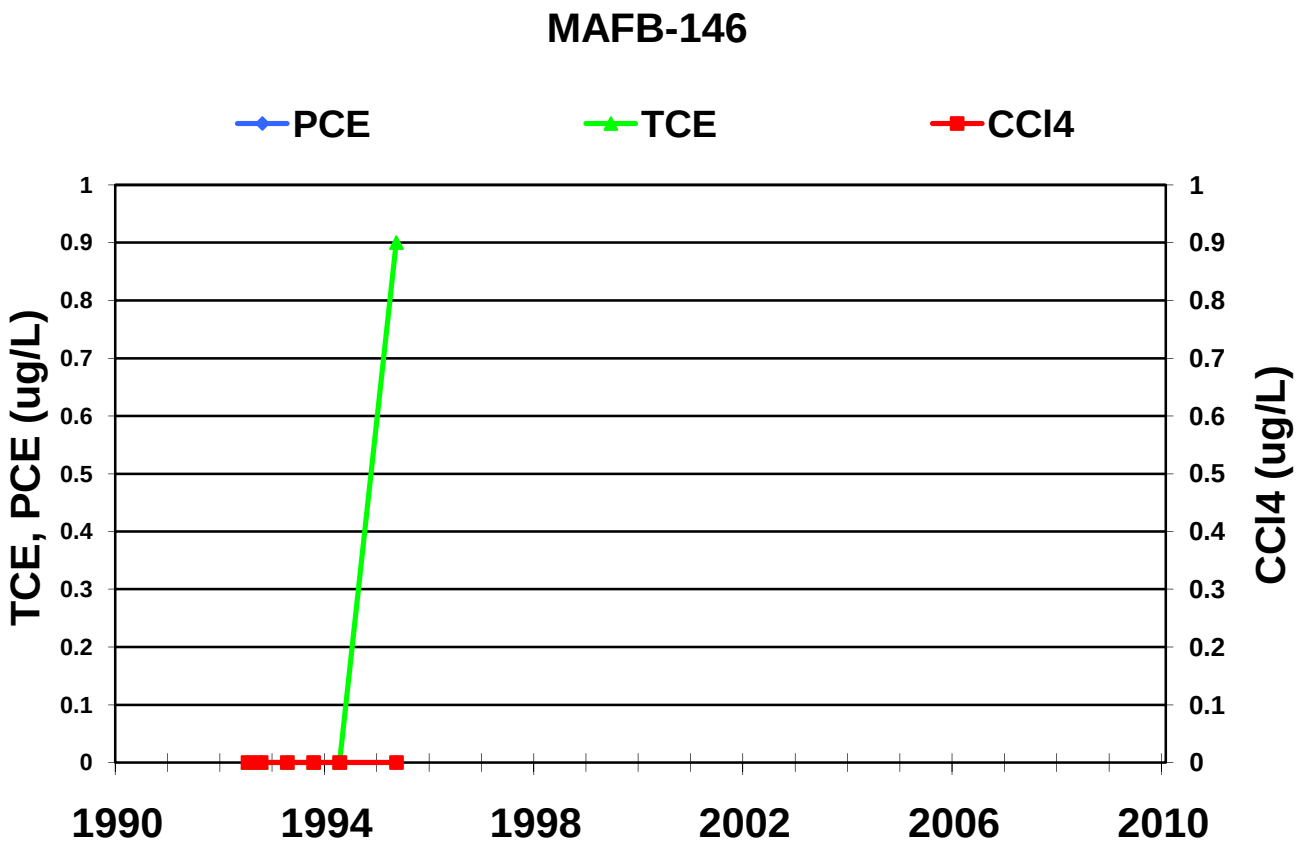

MAFB-141
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

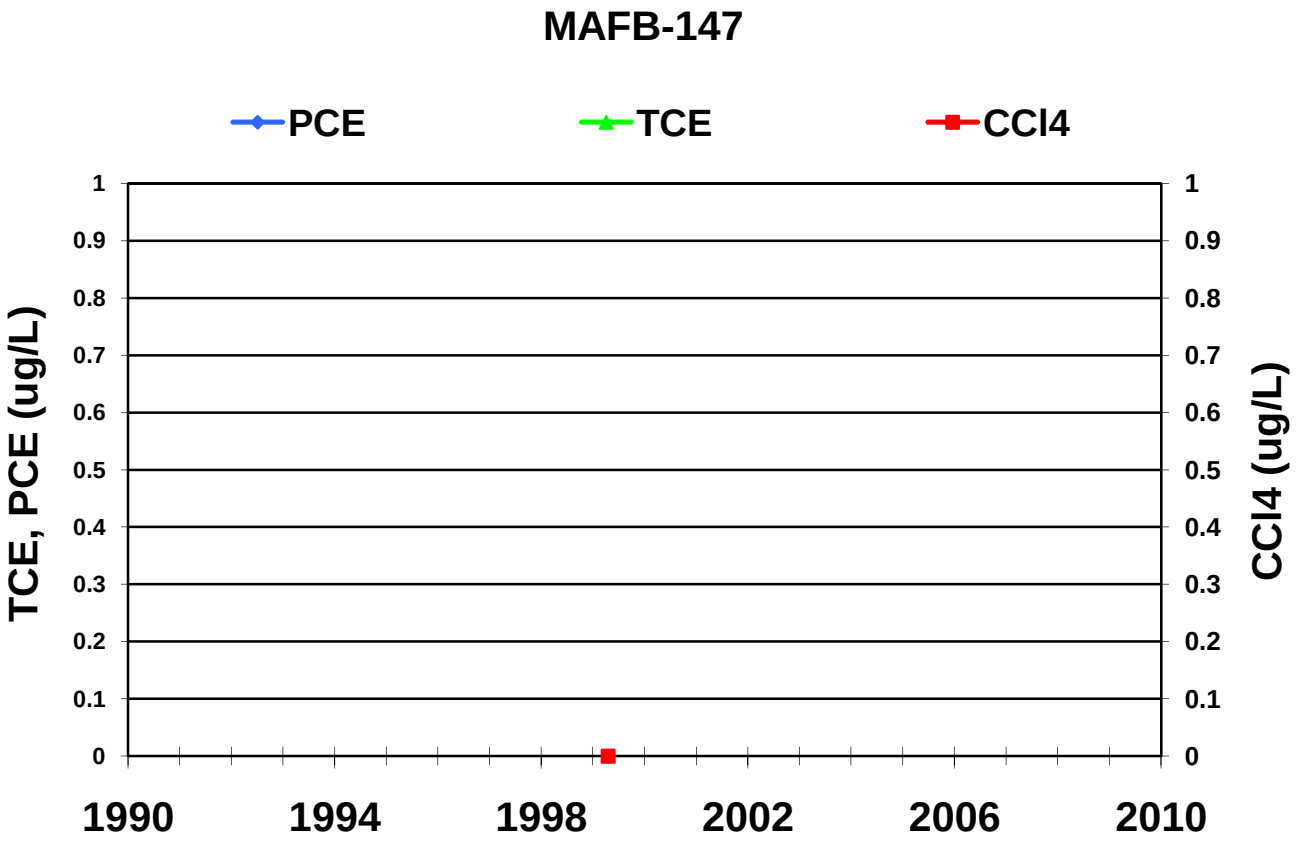

MAFB-142
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

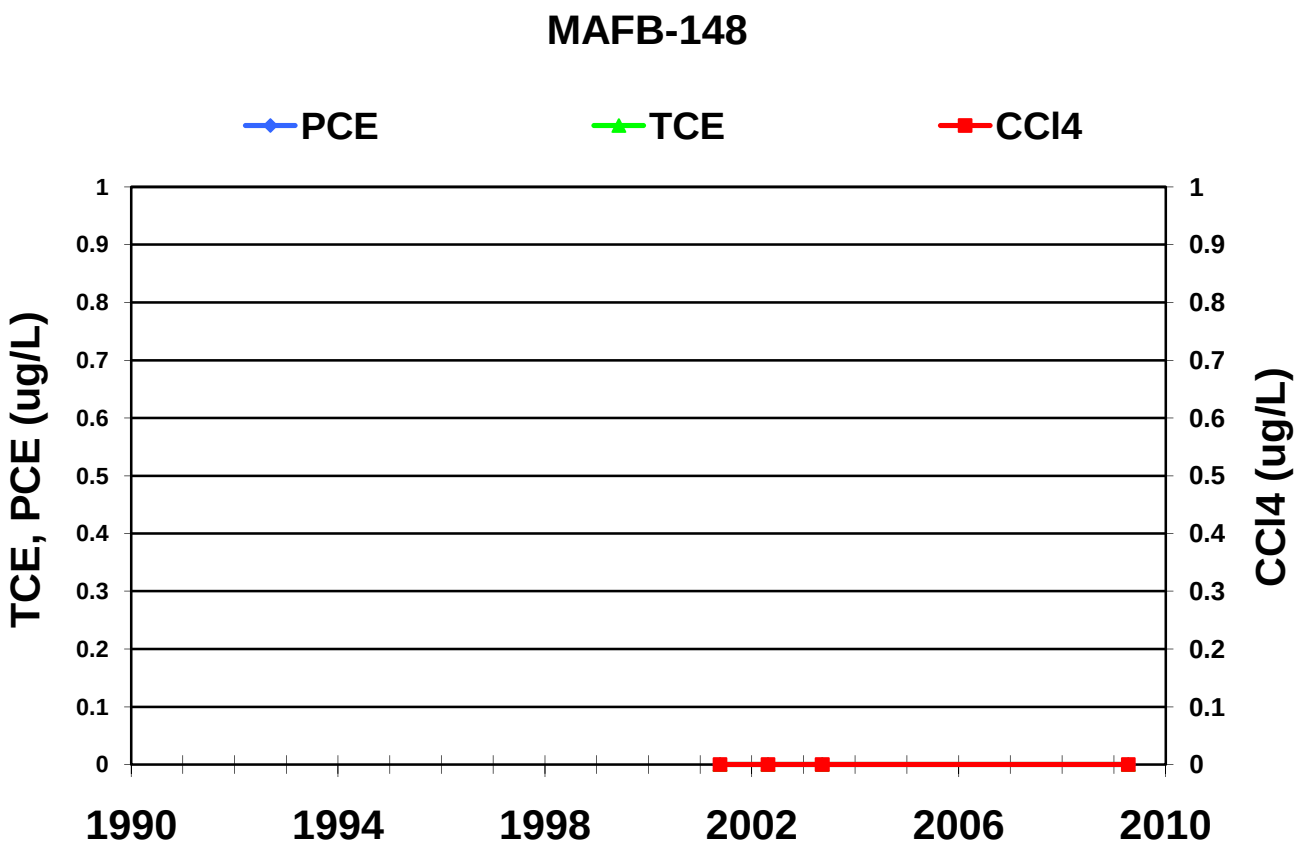

MAFB-143
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

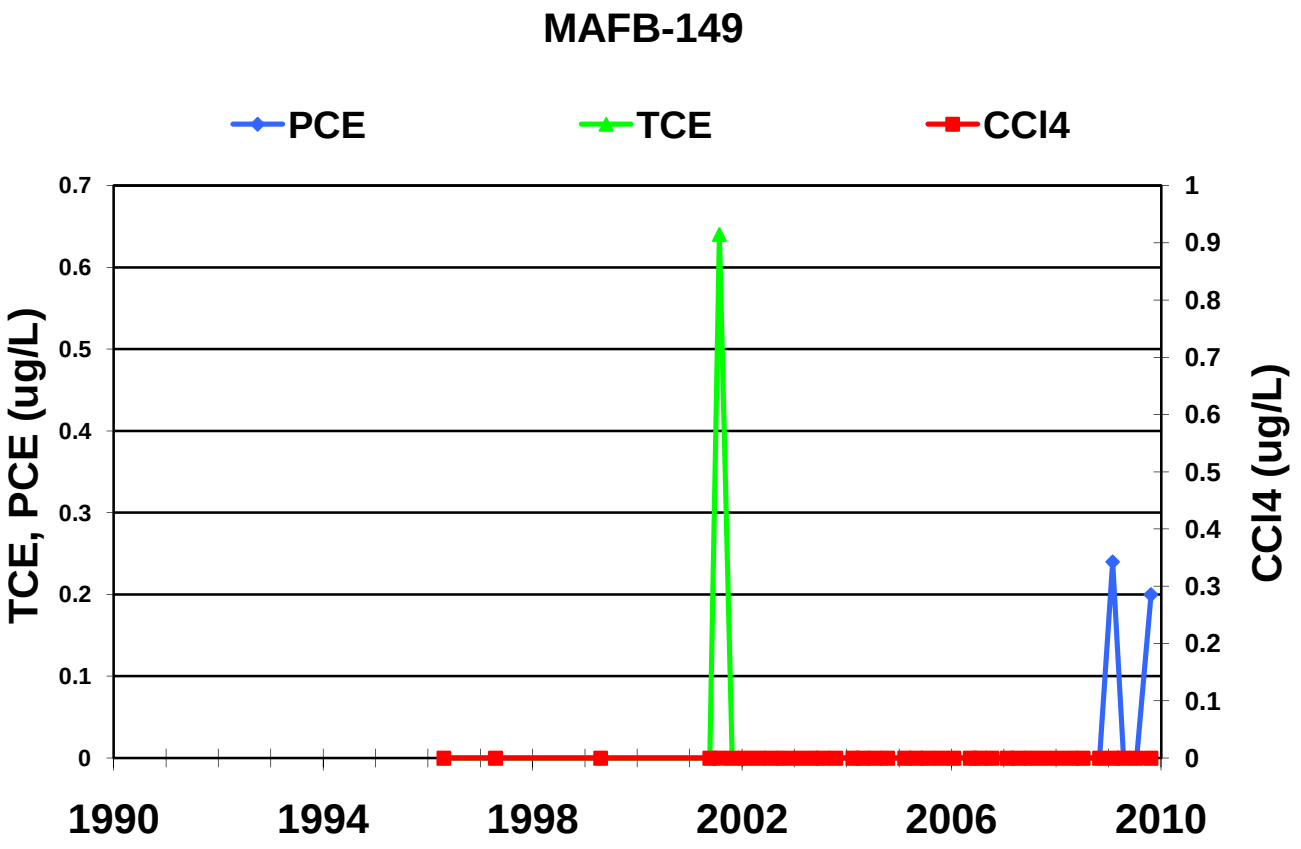

MAFB-144
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

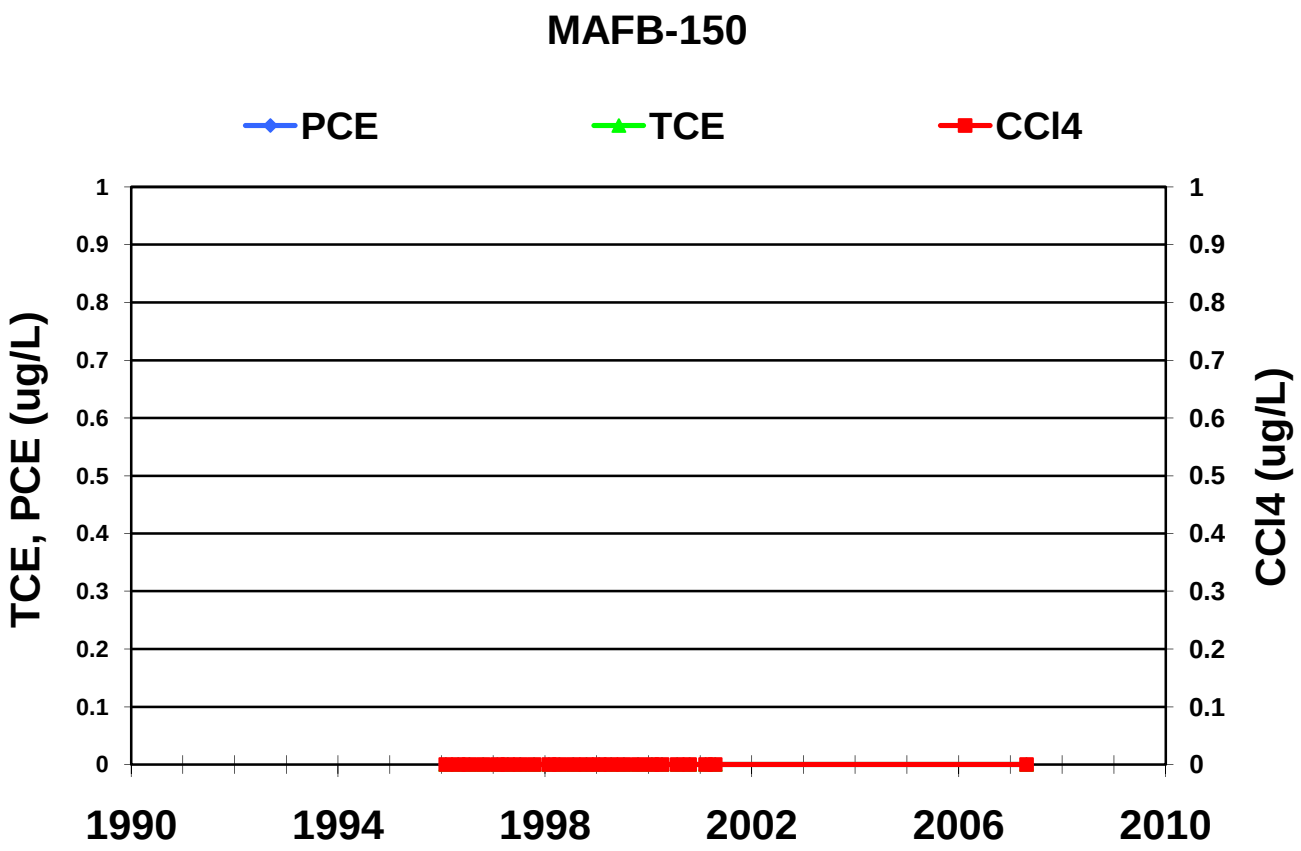

MAFB-145
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

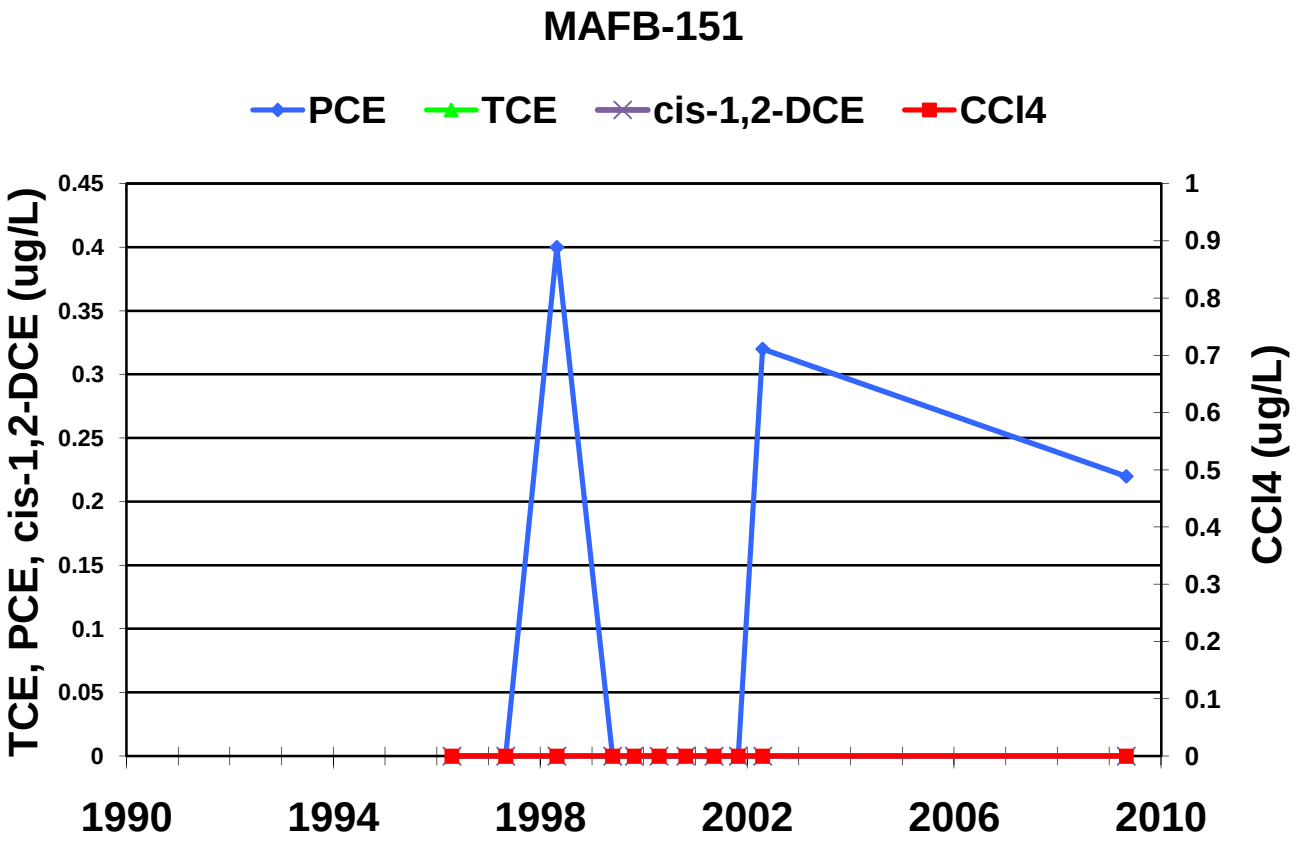

MAFB-146
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

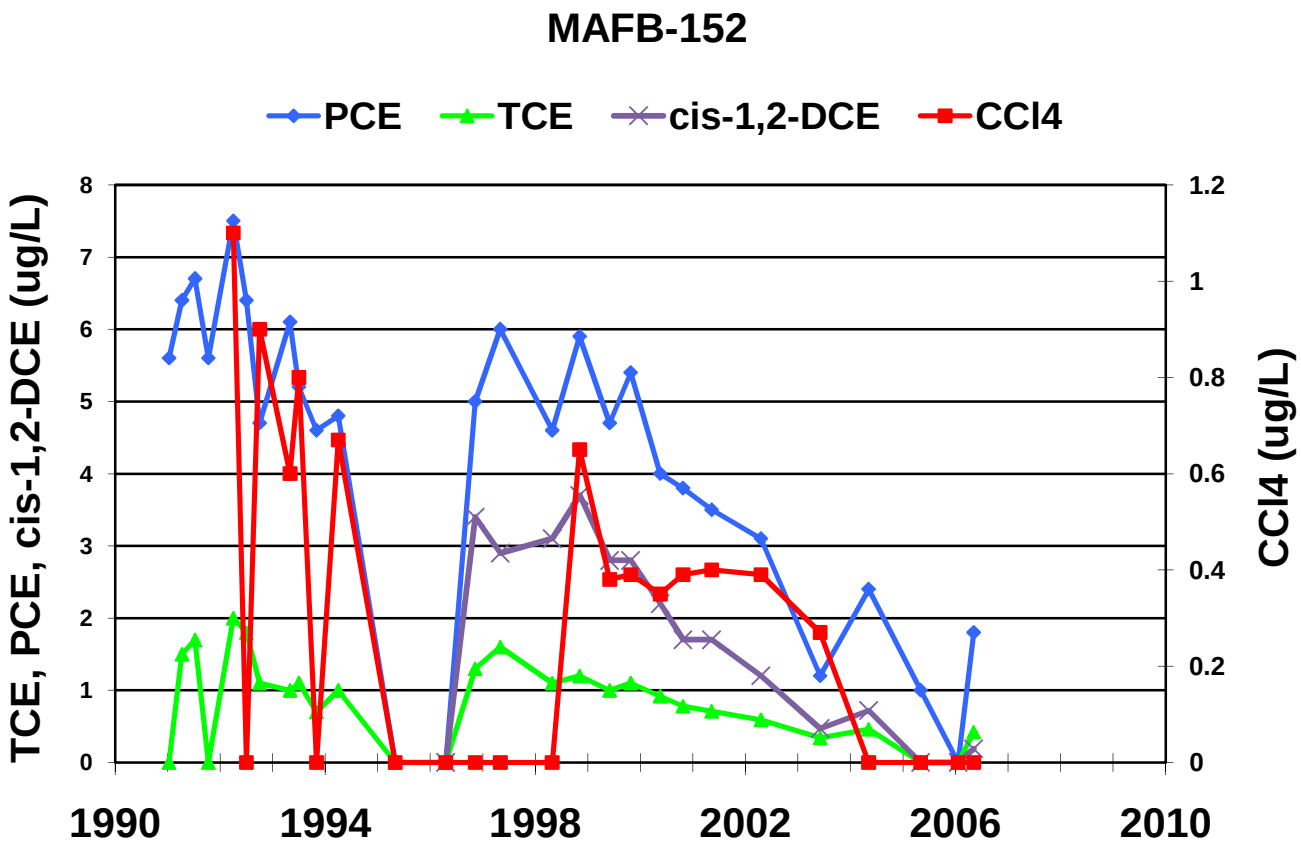

MAFB-147
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

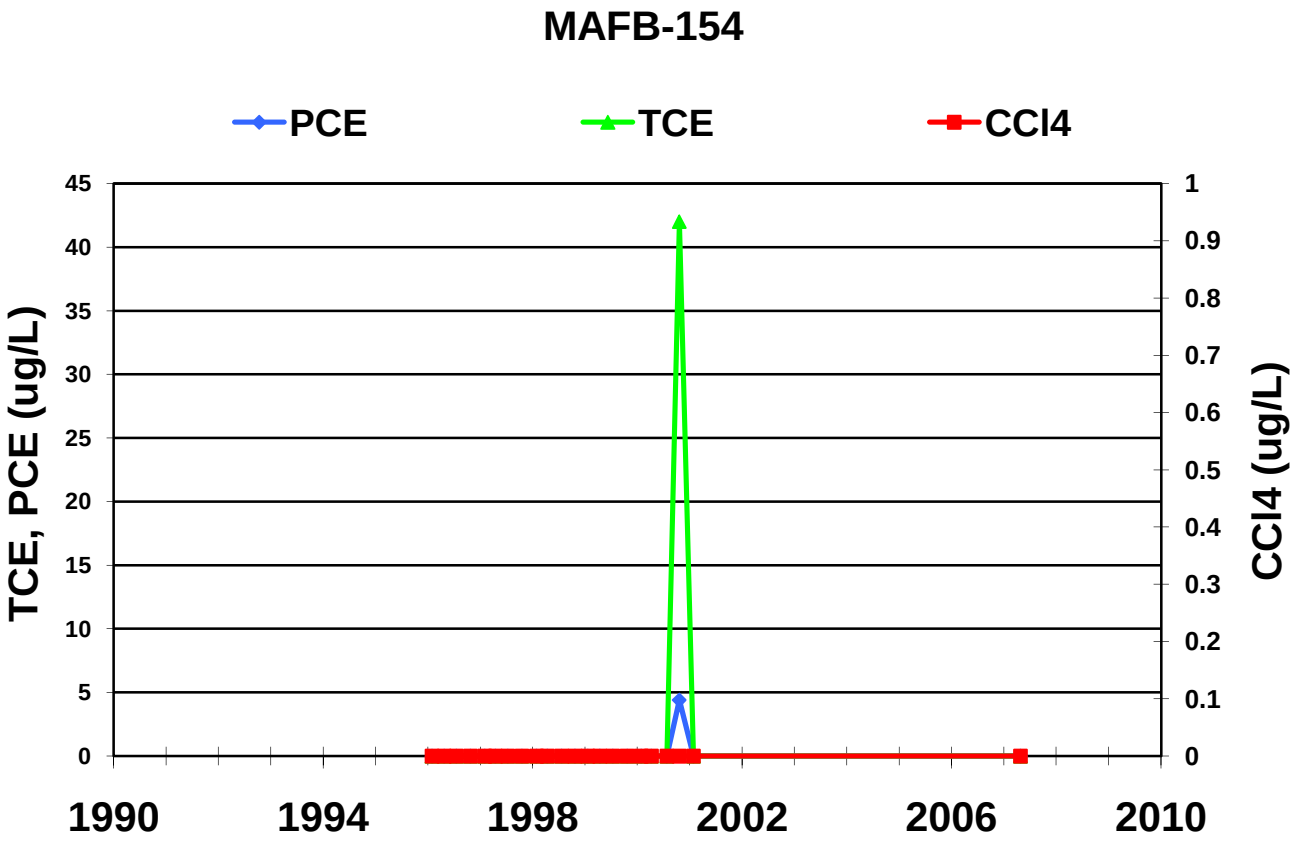

MAFB-148
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-149
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

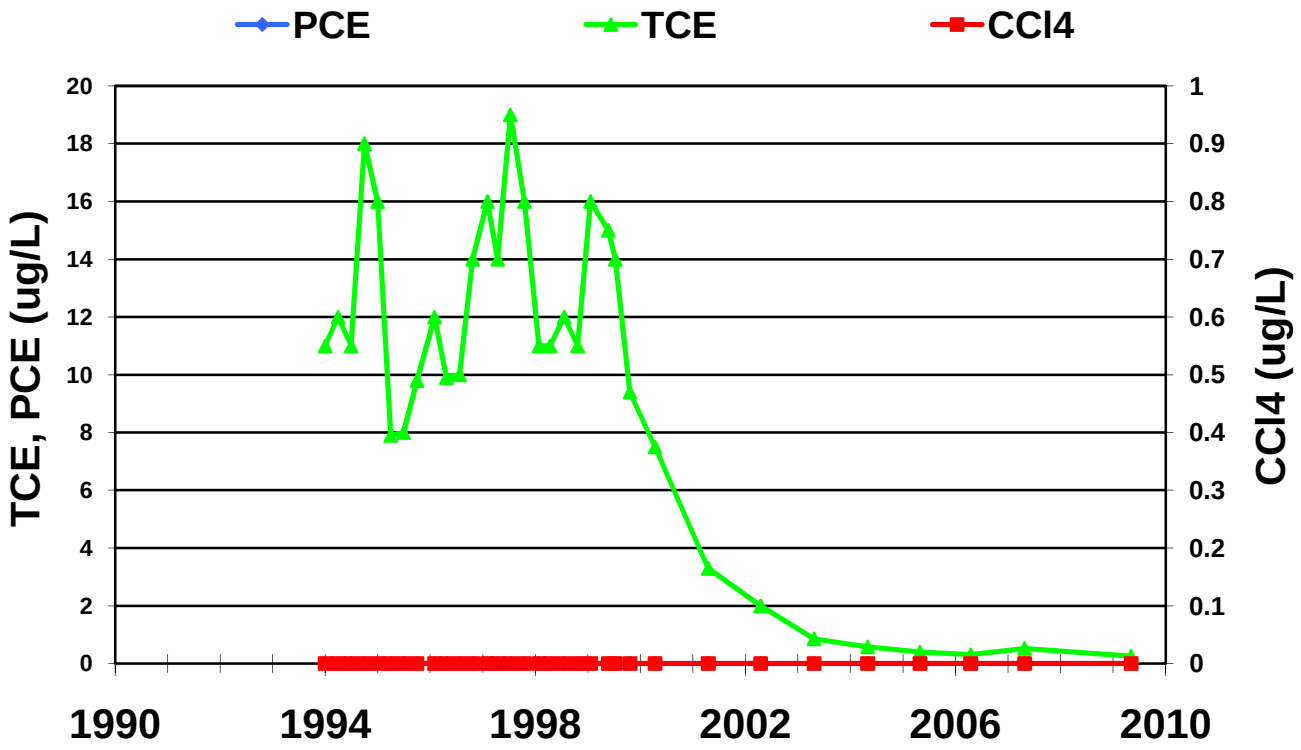

MAFB-150
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-151
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

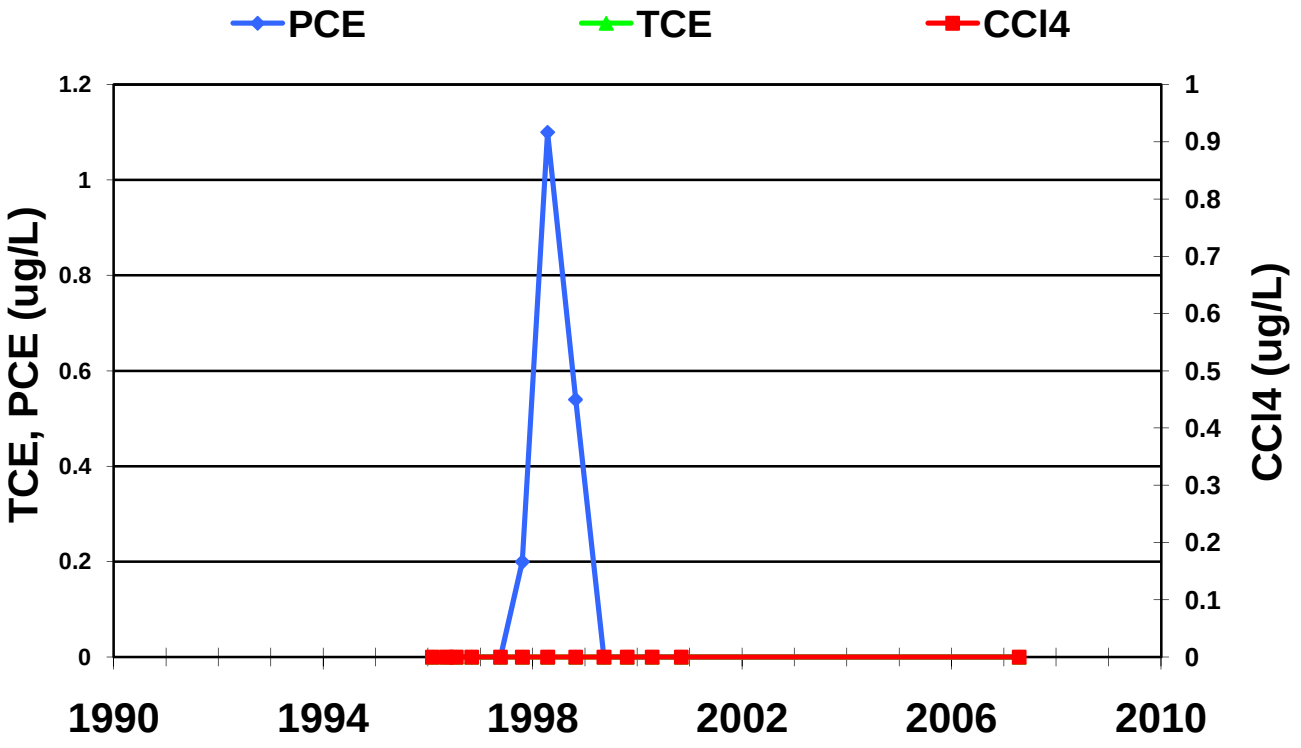

MAFB-152
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
0
0.2
0.4
0.6
0.8
1
1.2
1990
1994
1998
2002
2006
2010

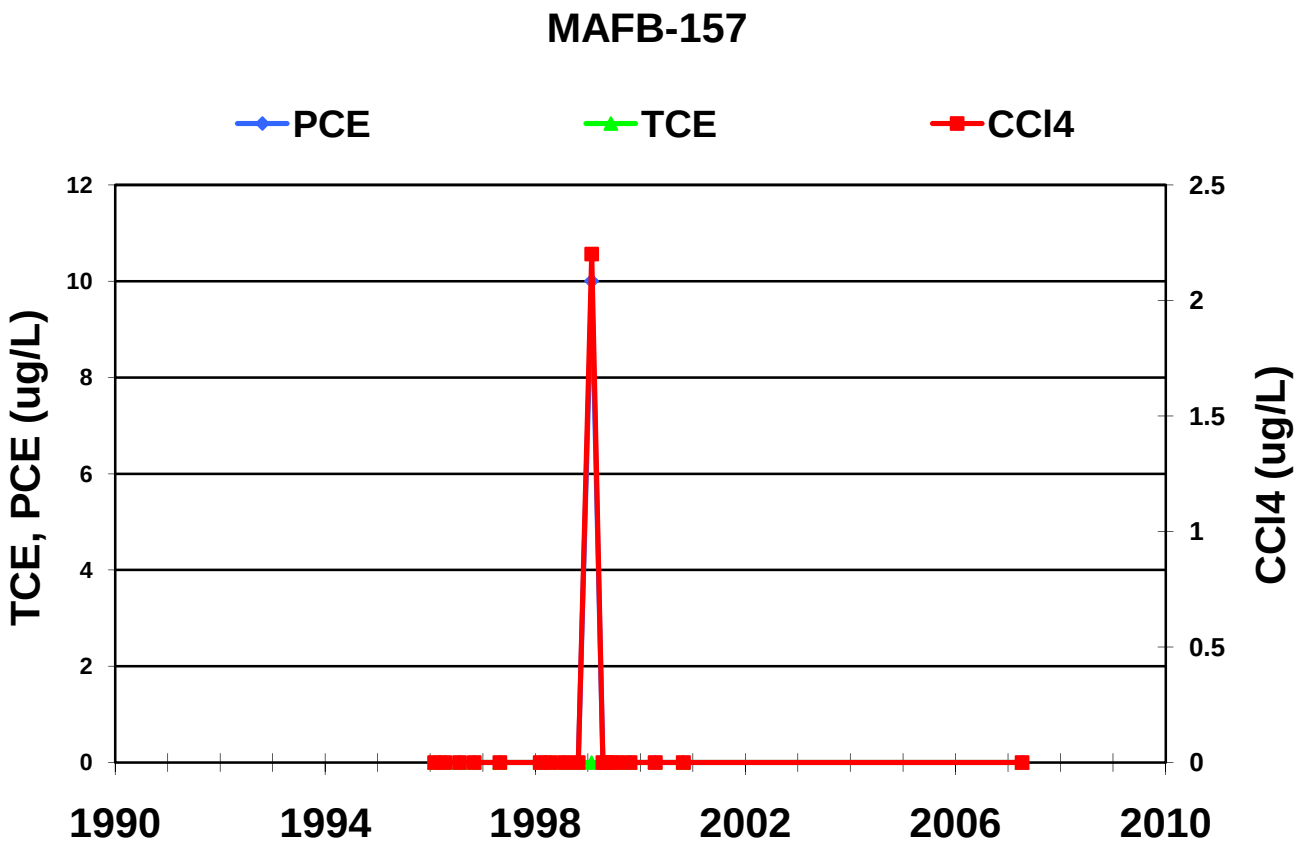

MAFB-154
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
45
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

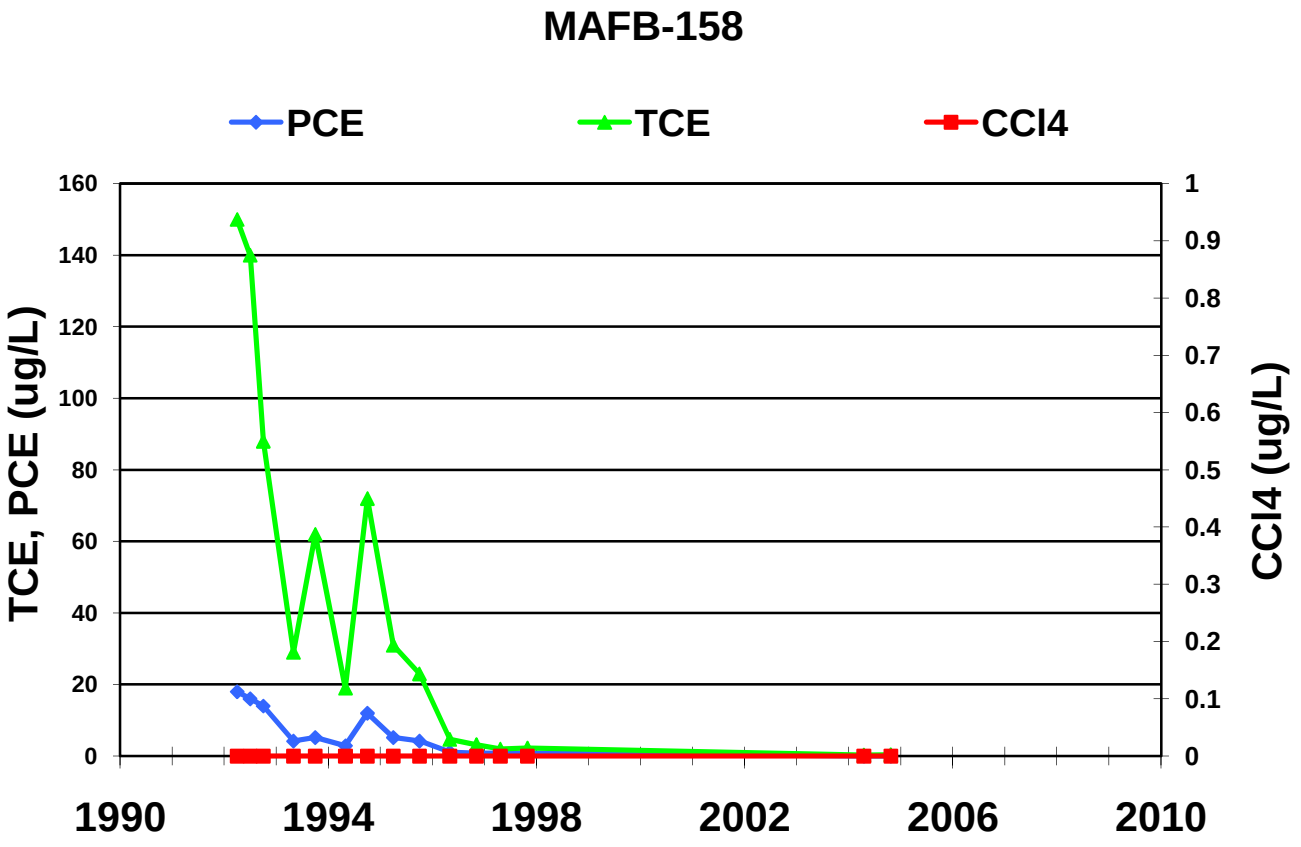
MAFB-155

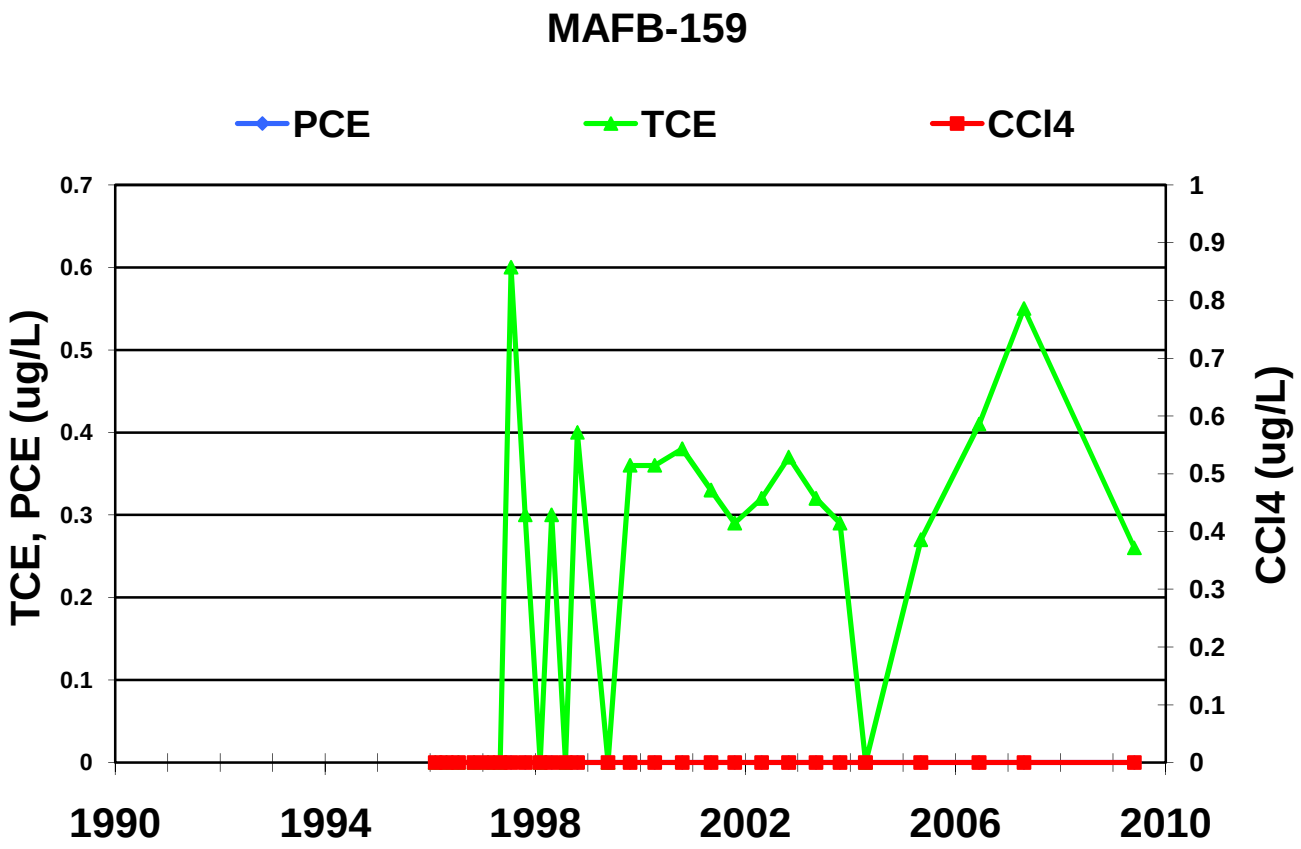


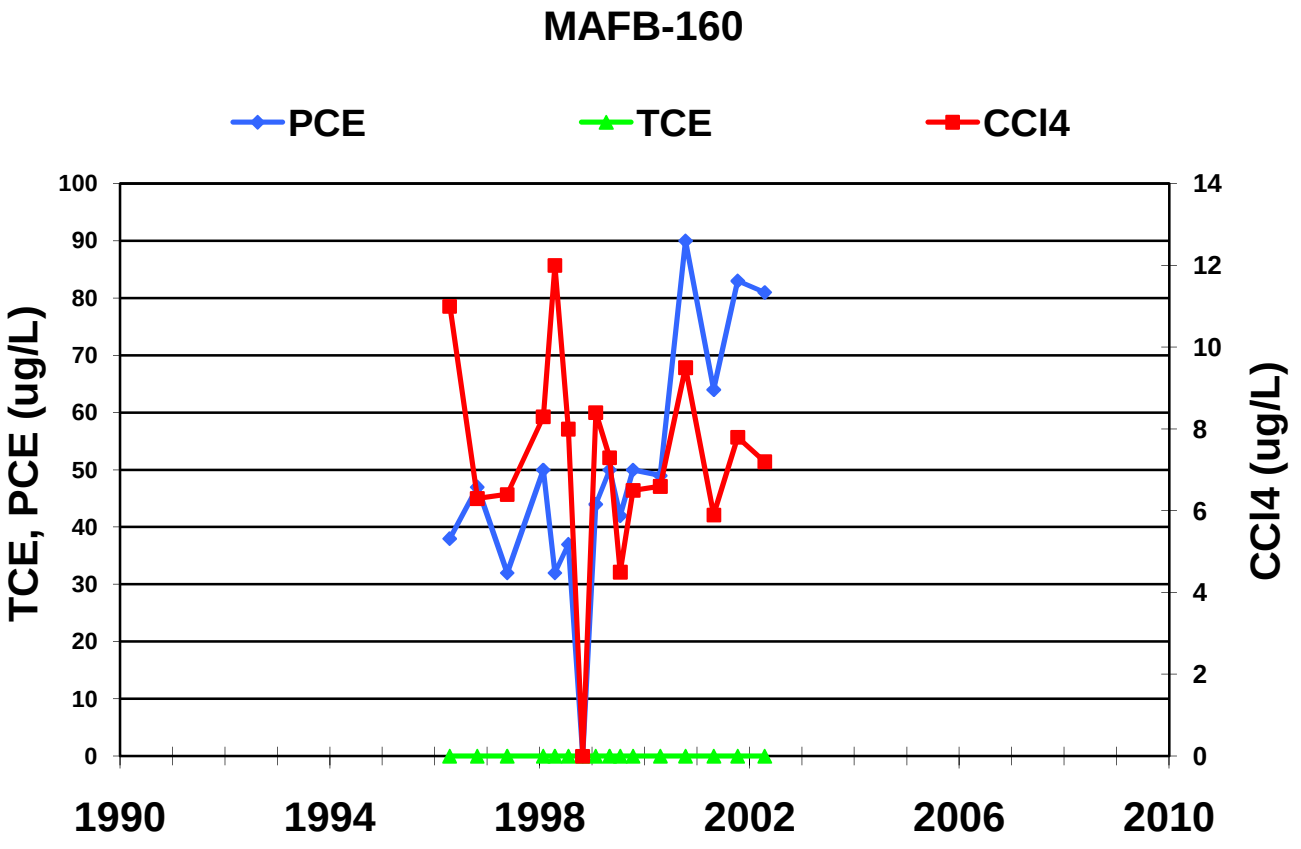
MAFB-156

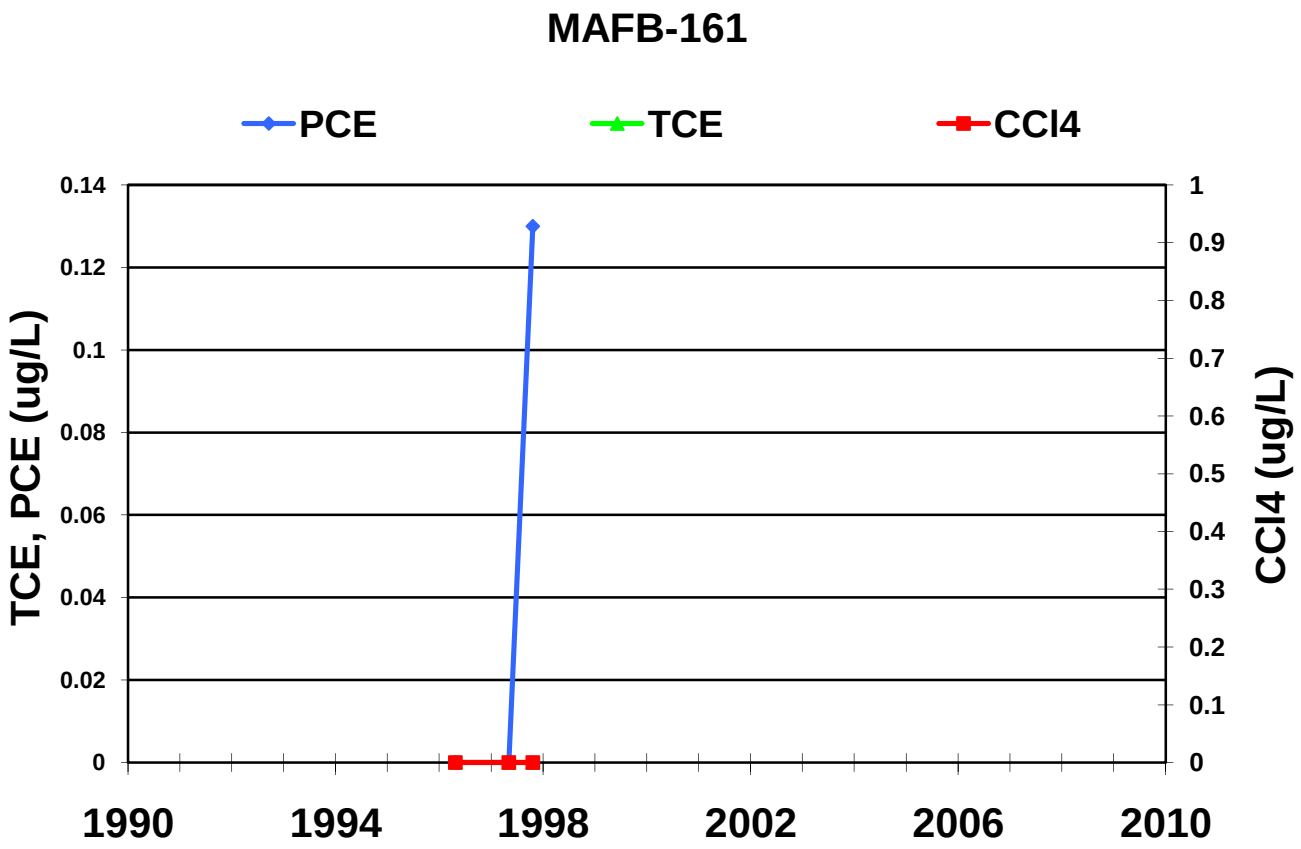


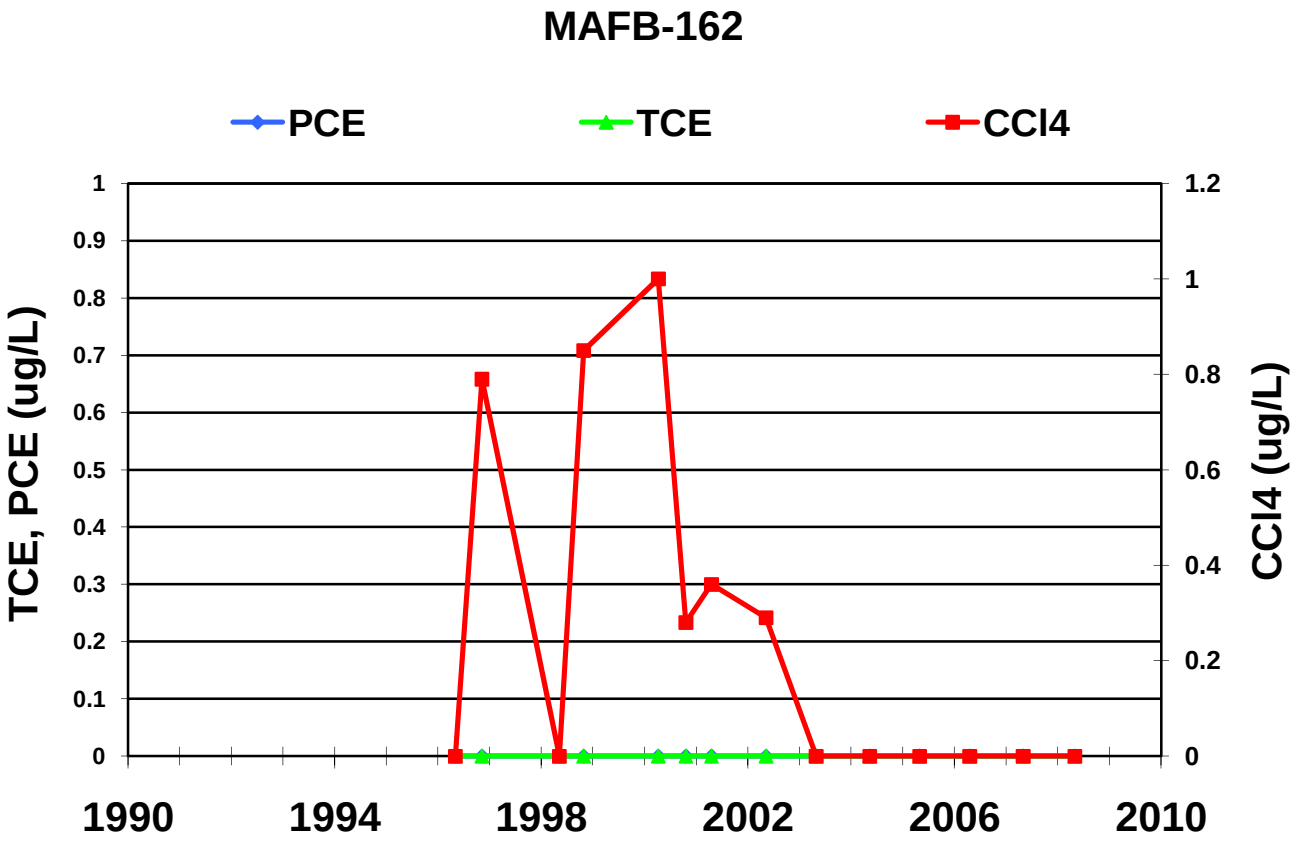

MAFB-157
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
0
0.5
1
1.5
2
2.5
1990
1994
1998
2002
2006
2010

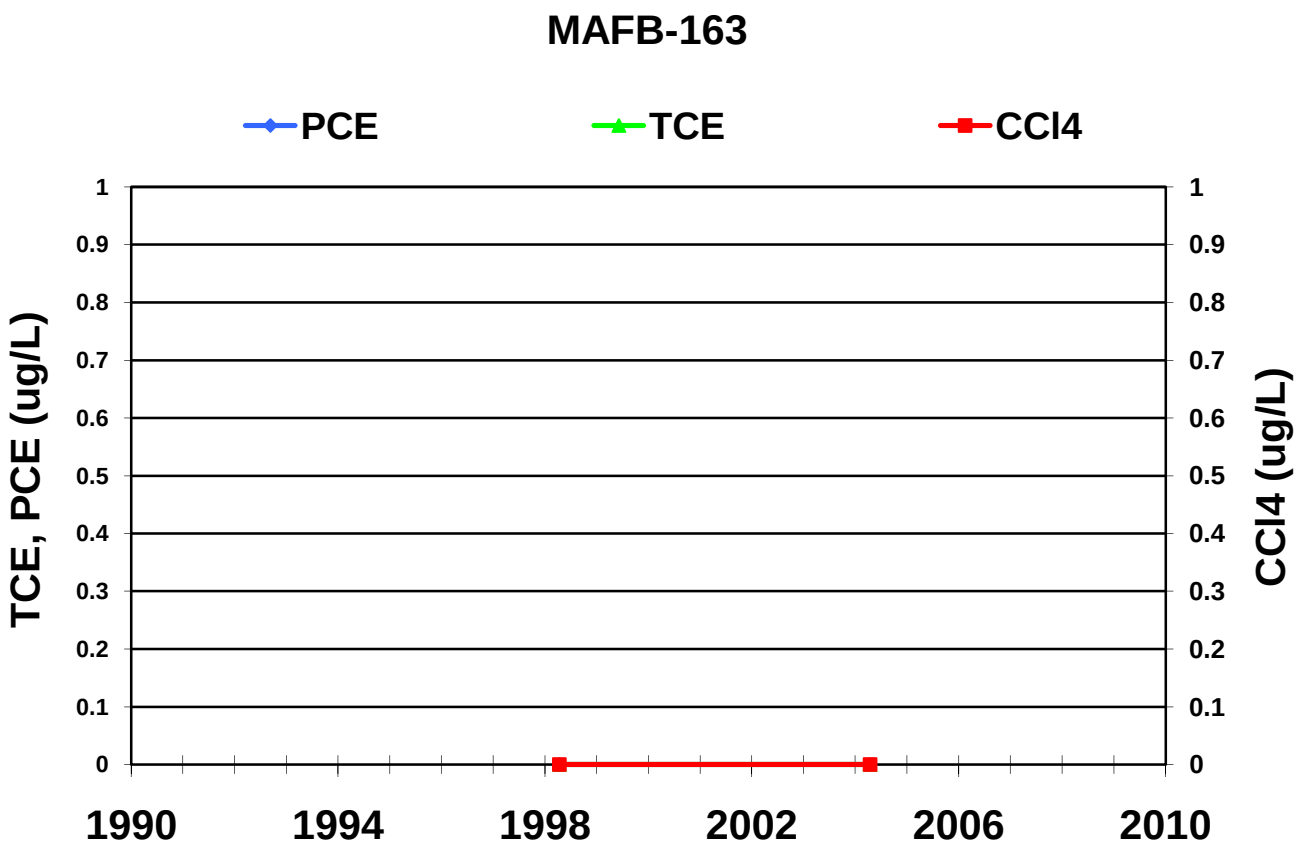

MAFB-158
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
20
40
60
80
100
120
140
160
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

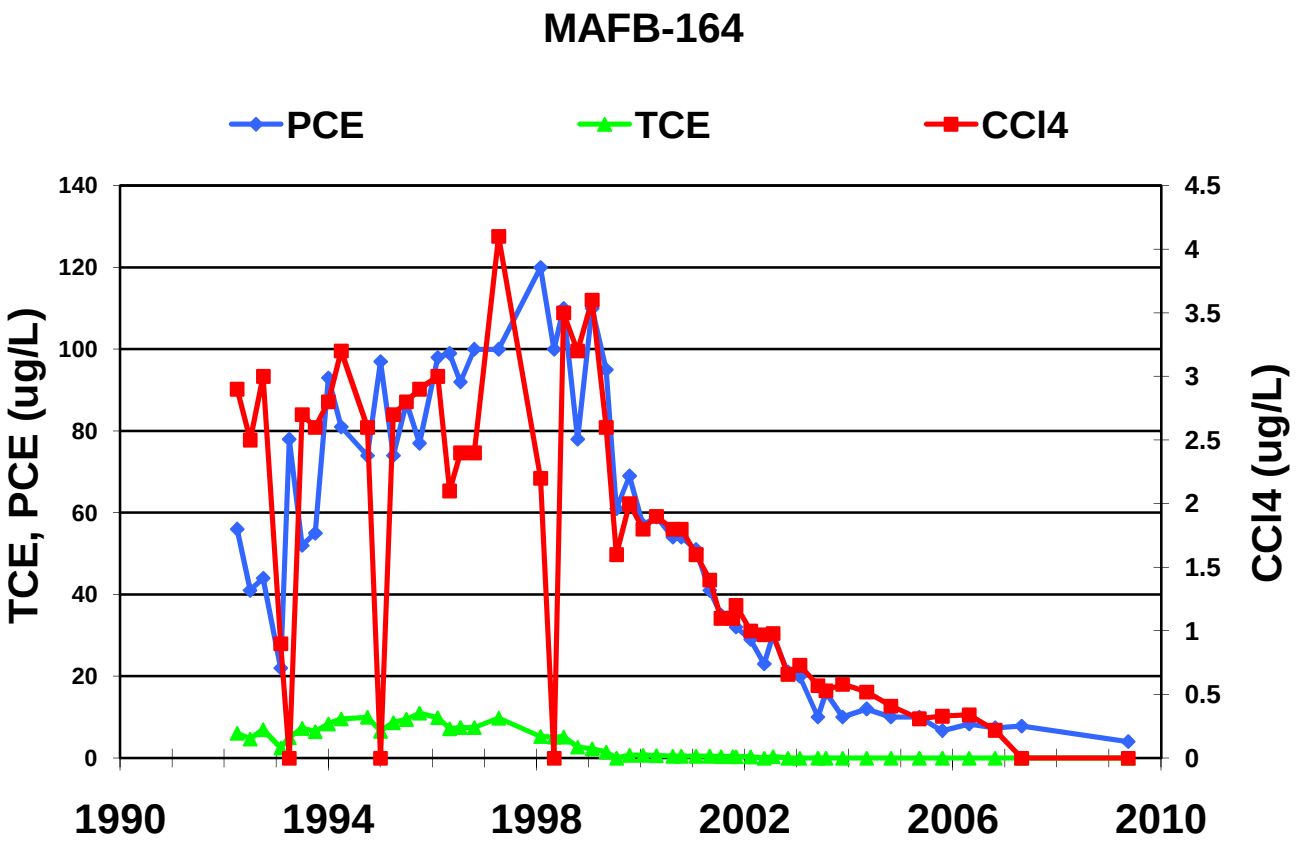

MAFB-159
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

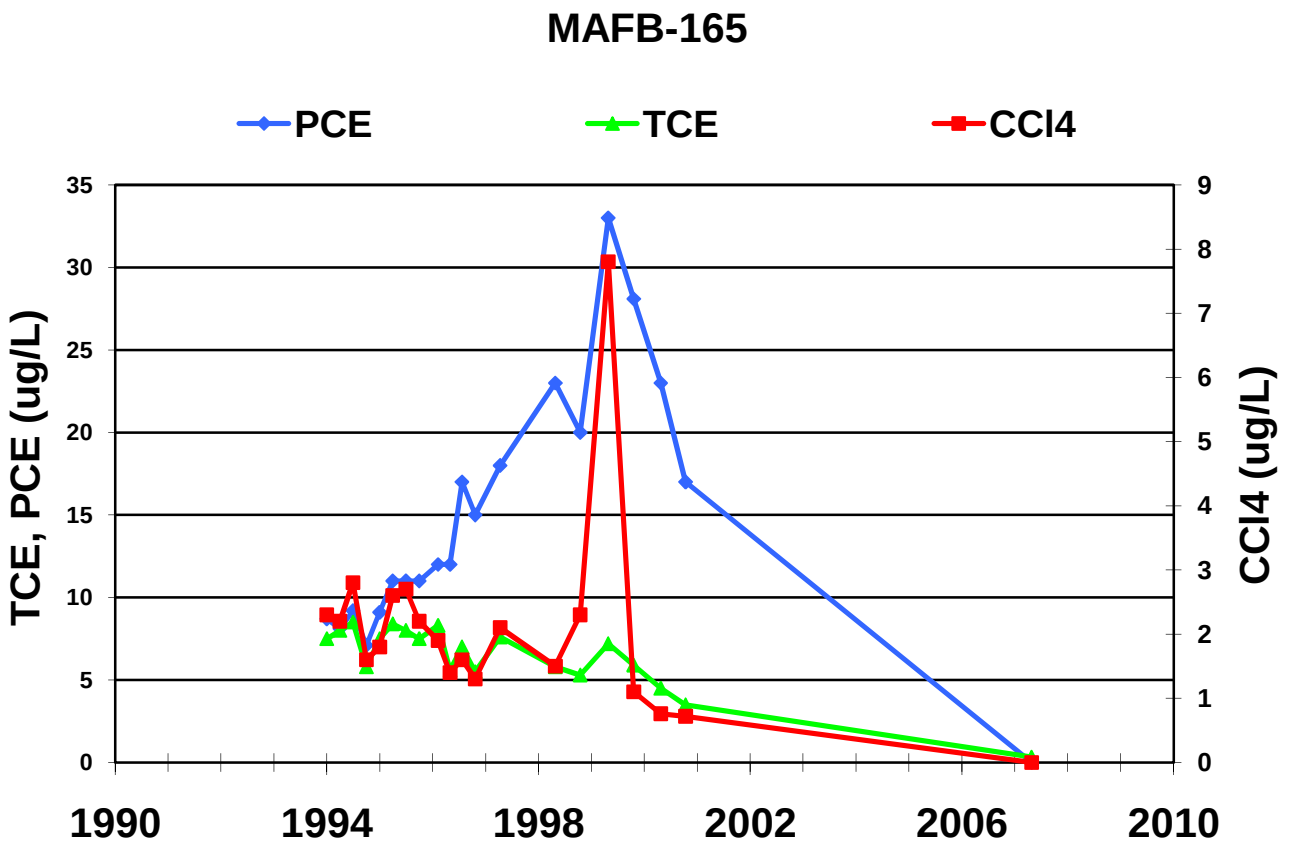

MAFB-160
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
100
90
80
70
60
50
40
30
20
10
0
14
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

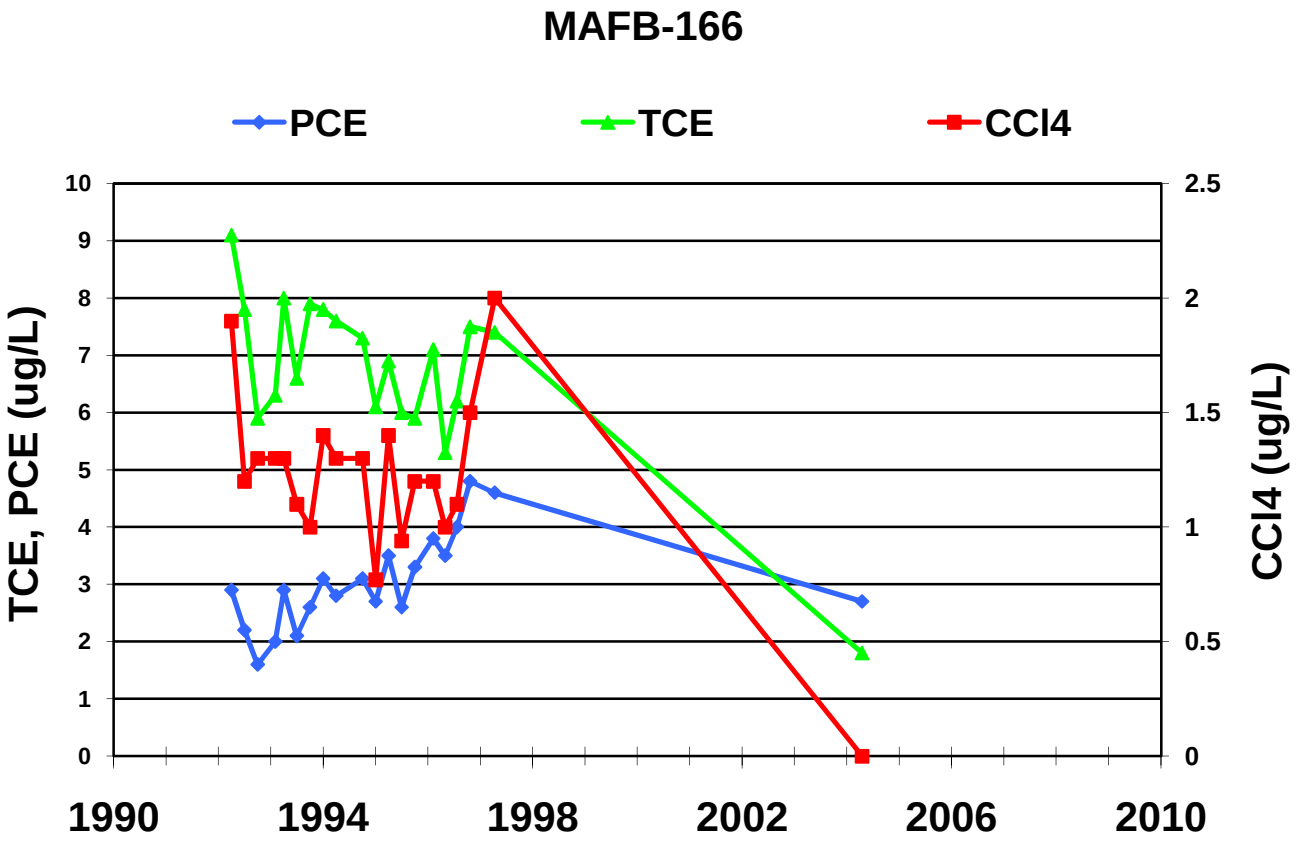

MAFB-161
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

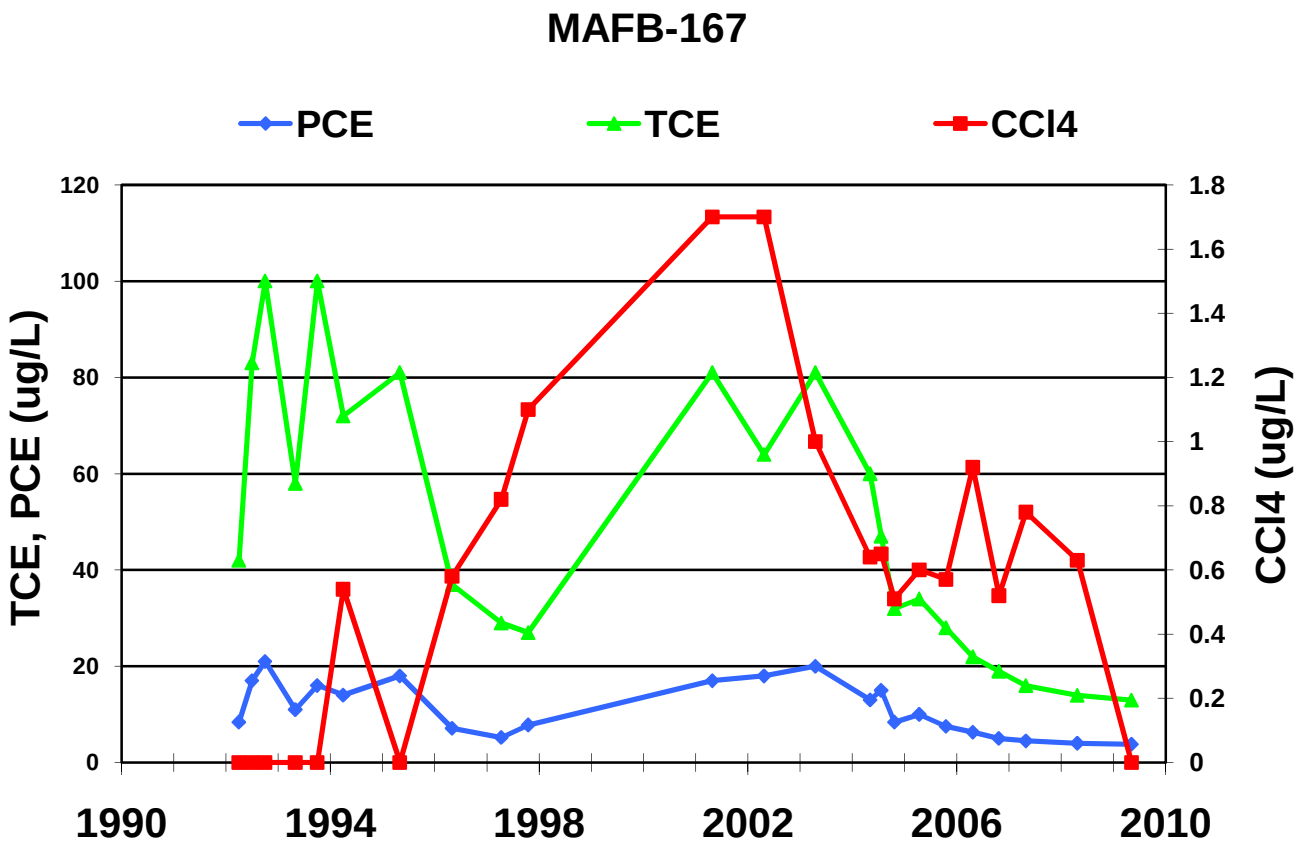

MAFB-162
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

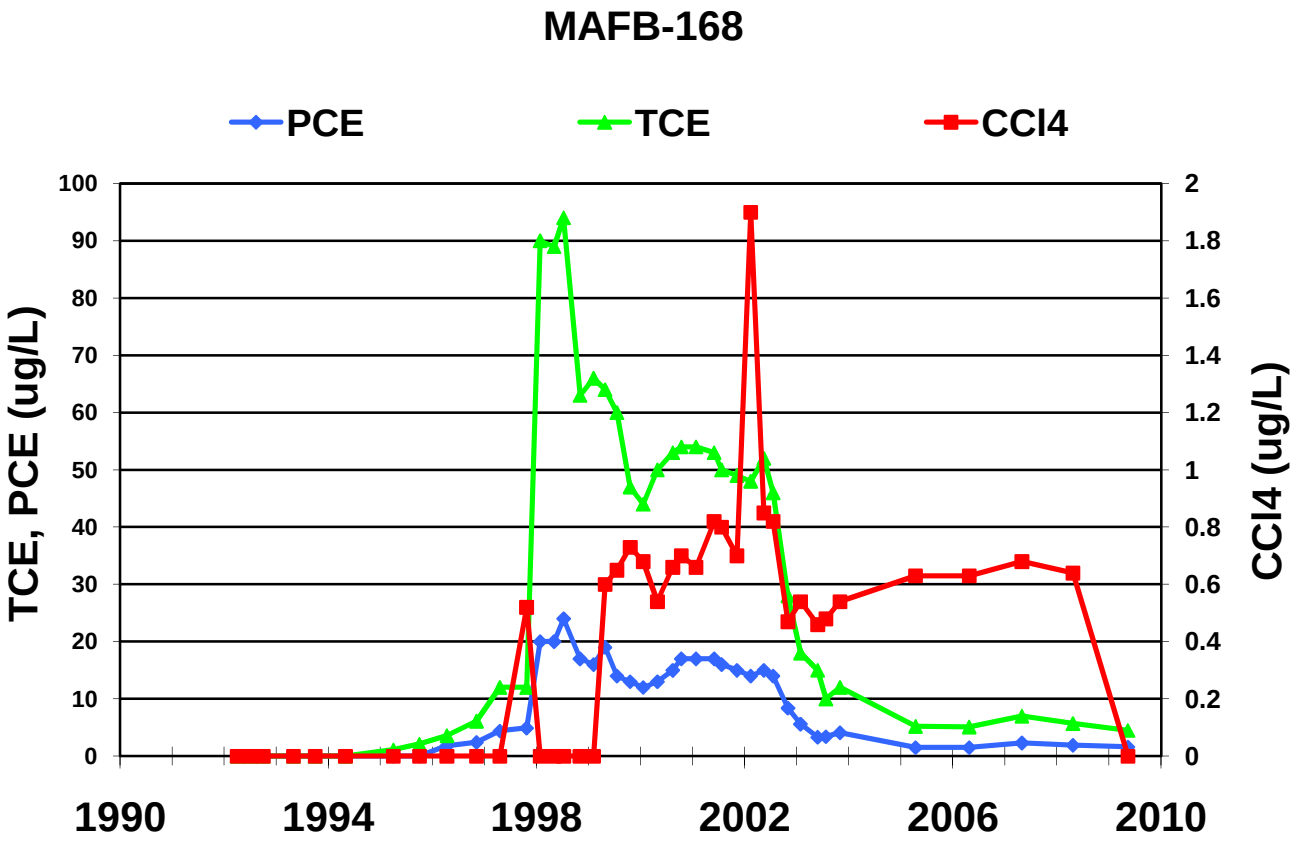

MAFB-163
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-164
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
140
120
100
80
60
40
20
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

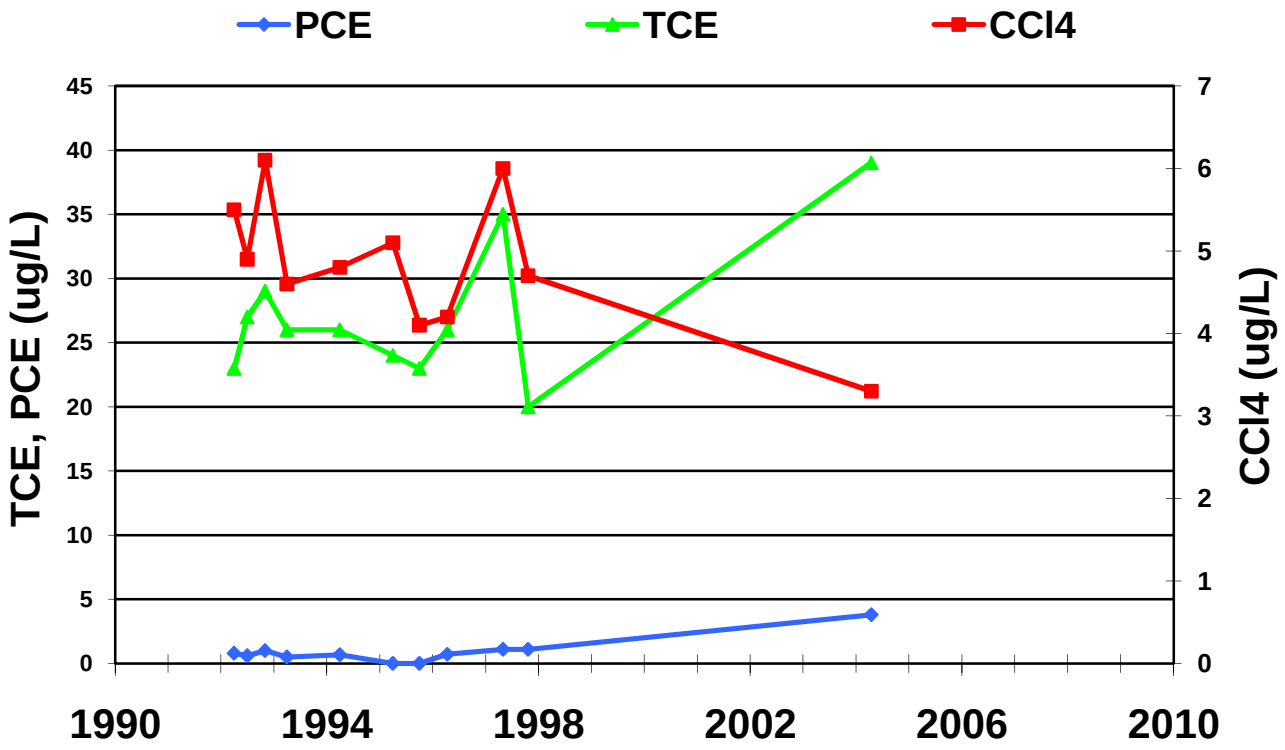

MAFB-165
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
0
1
2
3
4
5
6
7
8
9
1990
1994
1998
2002
2006
2010


MAFB-166
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
10
0
0.5
1
1.5
2
2.5
1990
1994
1998
2002
2006
2010

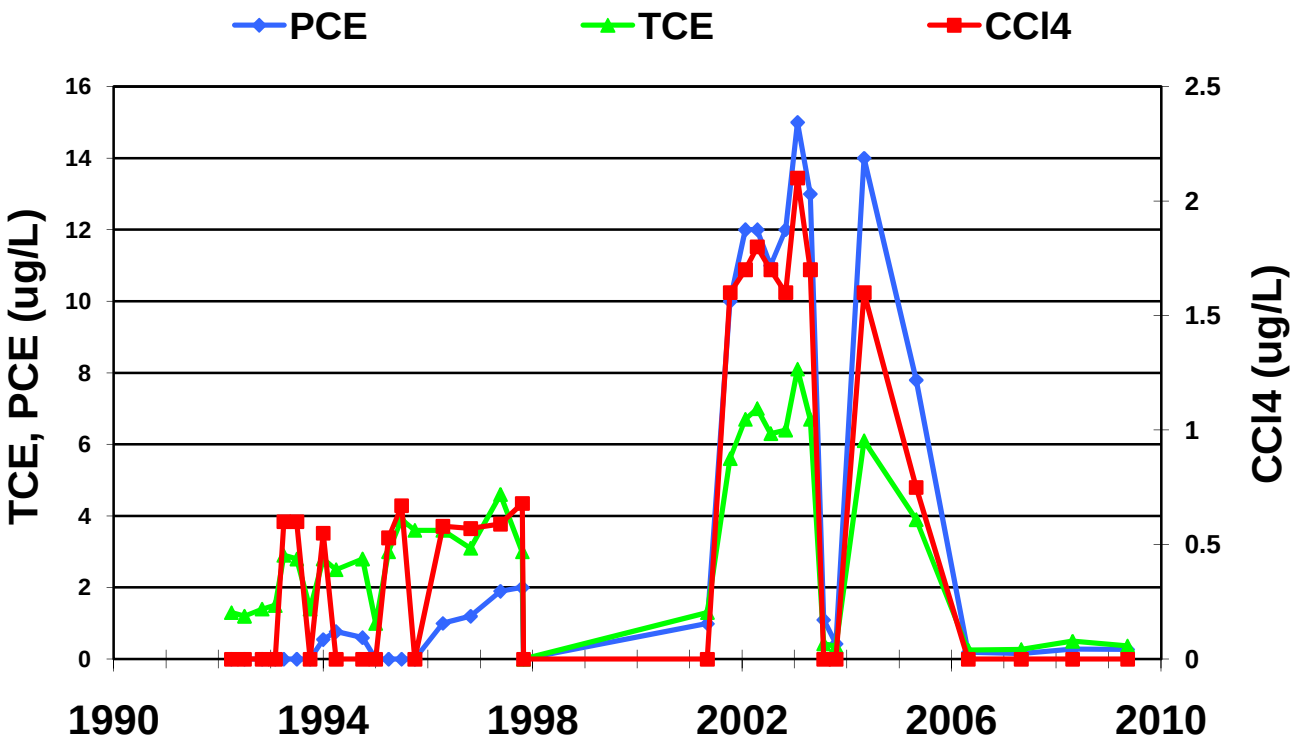

MAFB-167
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

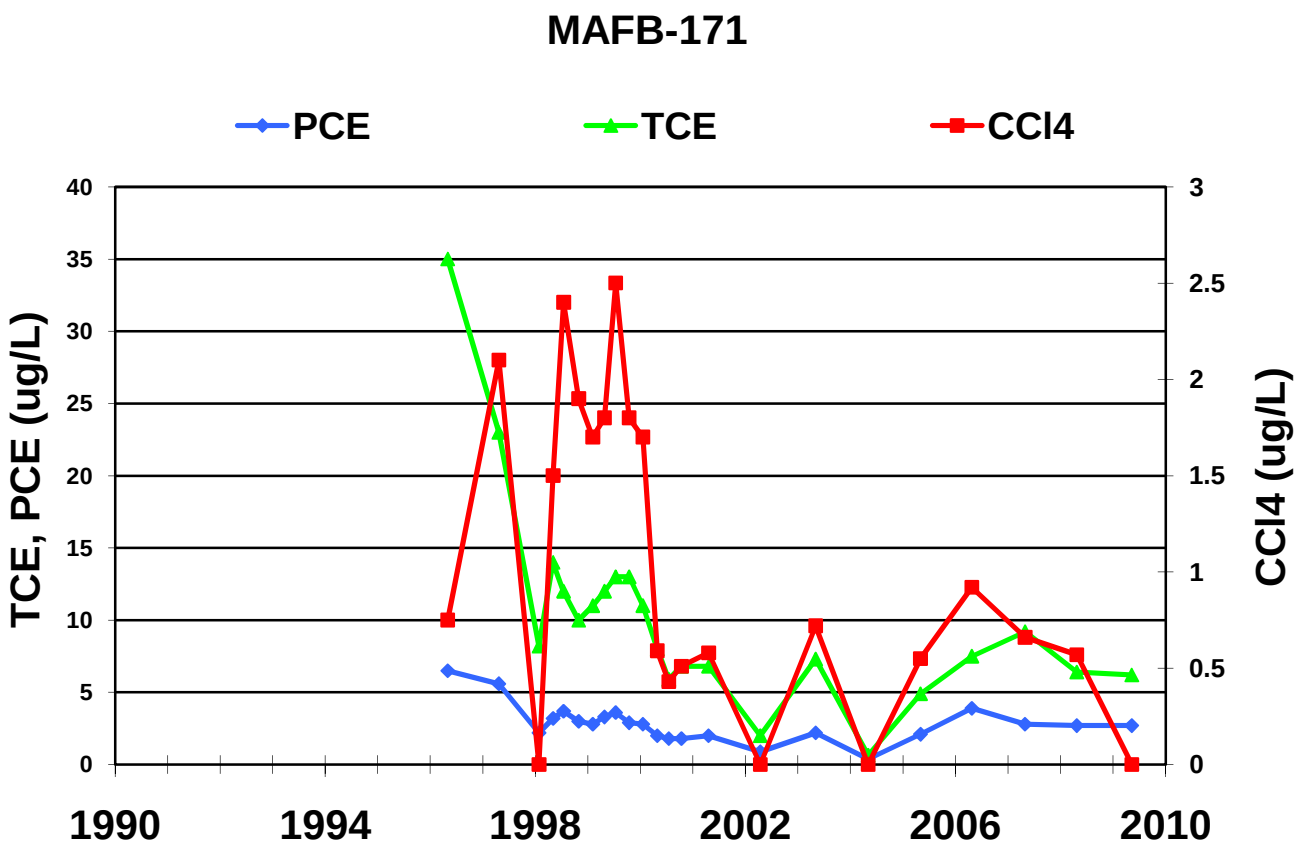

MAFB-168
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
100
90
80
70
60
50
40
30
20
10
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

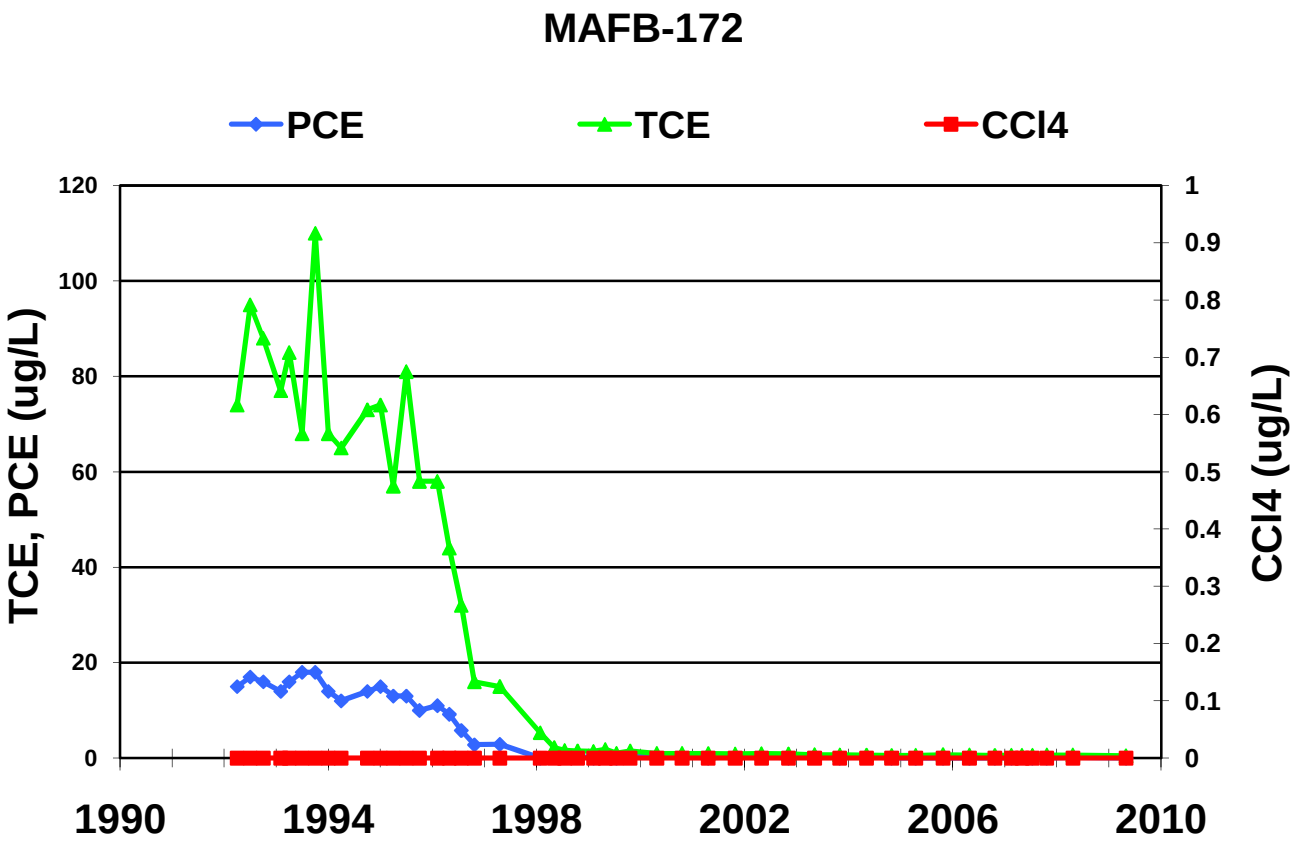
MAFB-169

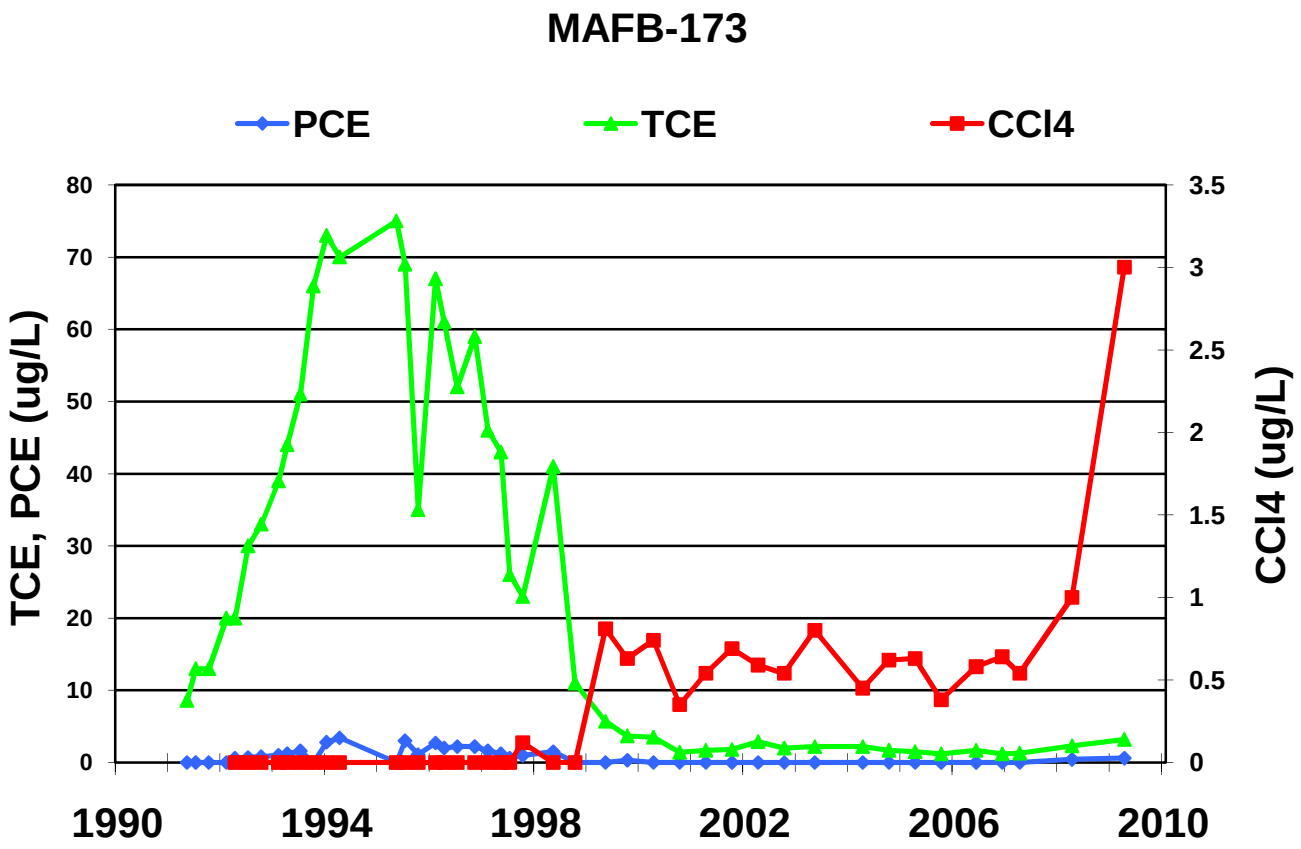


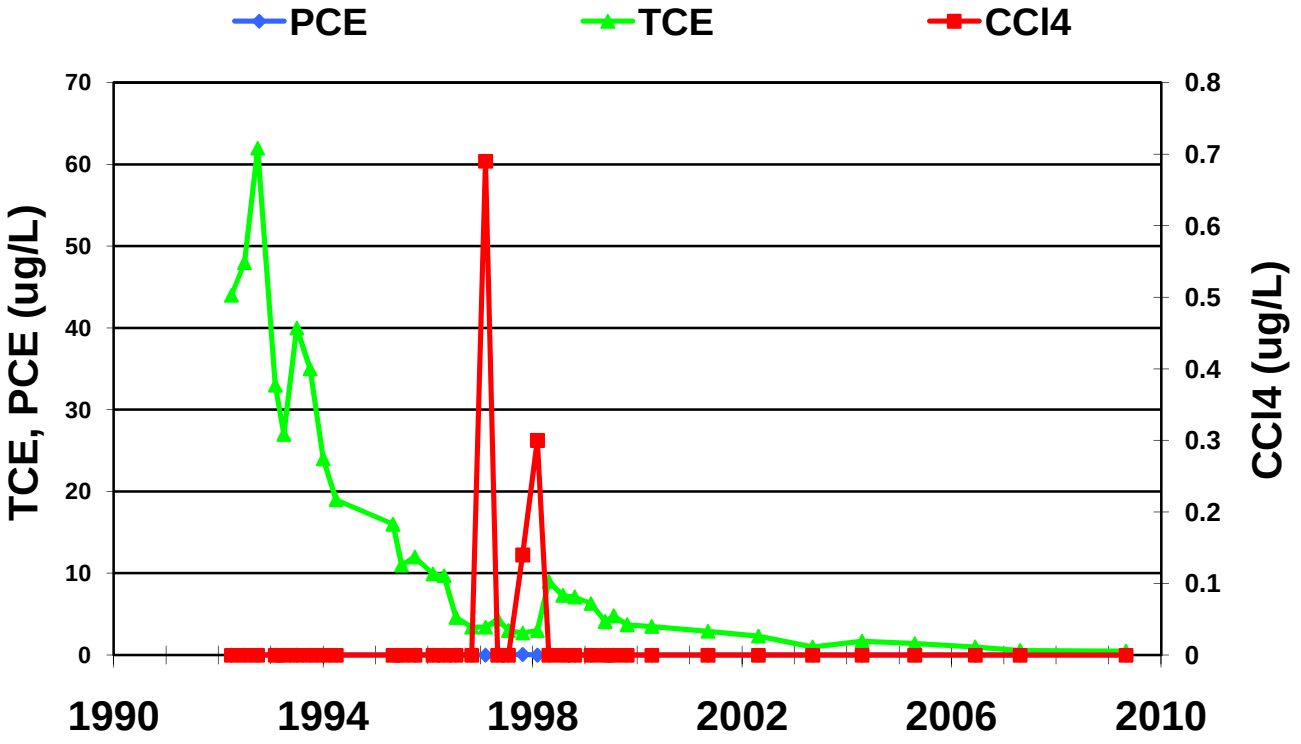
MAFB-170

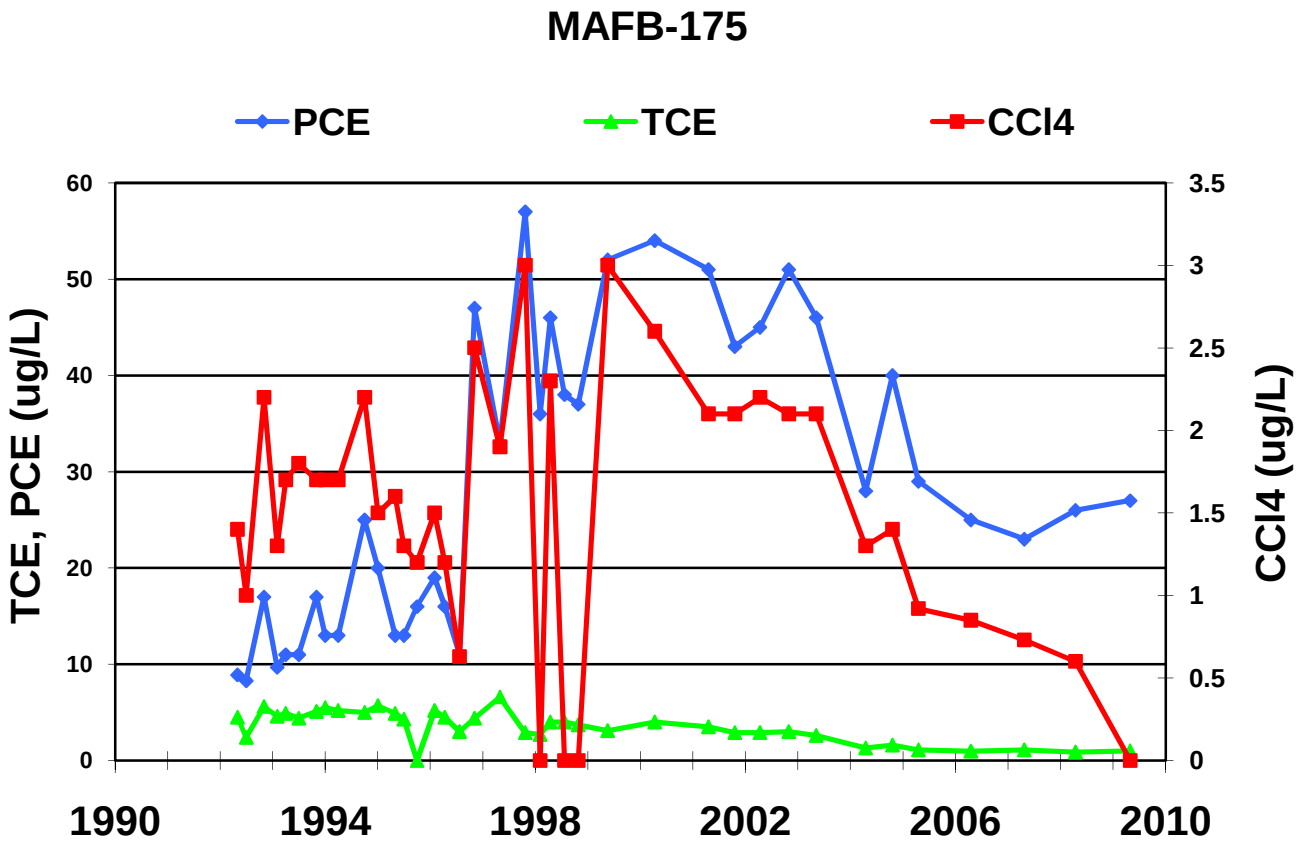


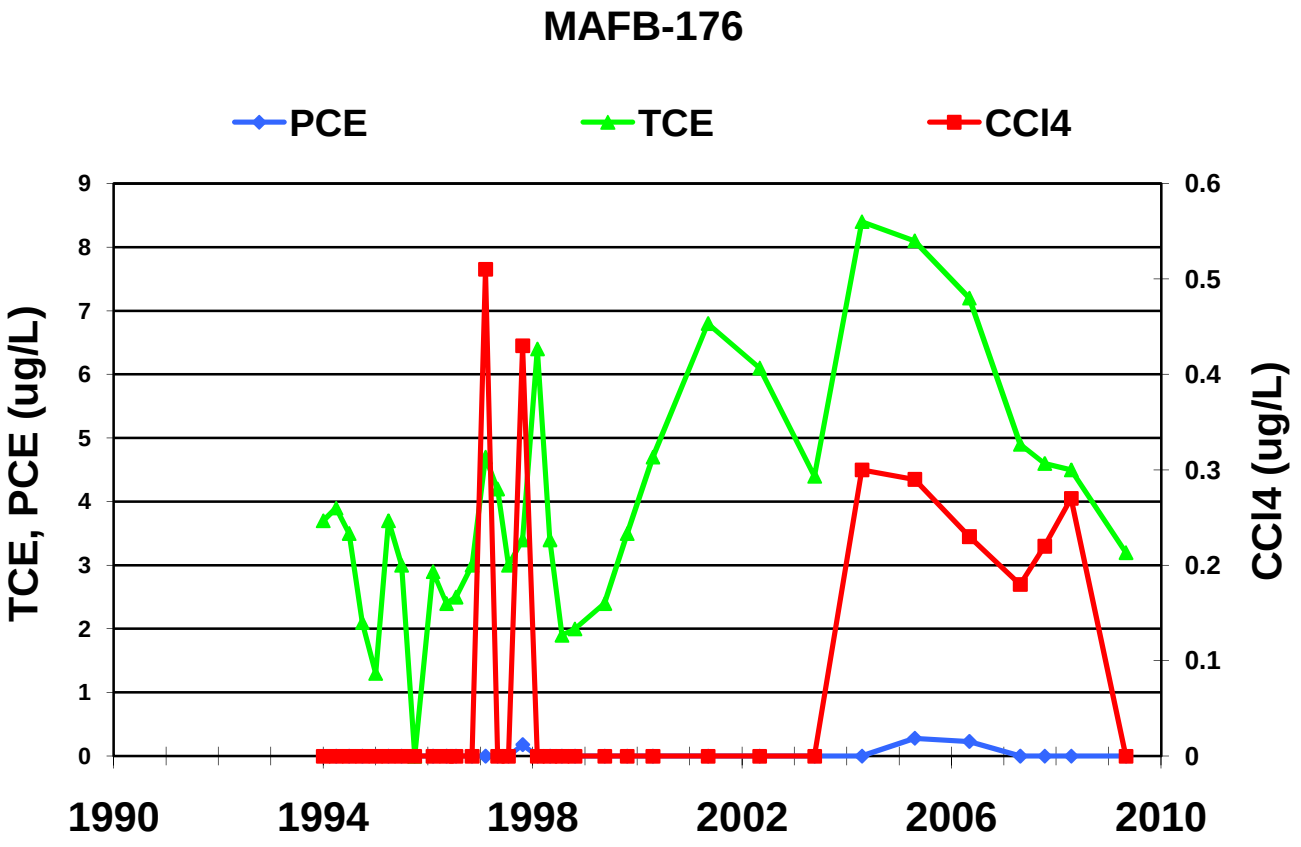

MAFB-171
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
0
0.5
1
1.5
2
2.5
3
1990
1994
1998
2002
2006
2010

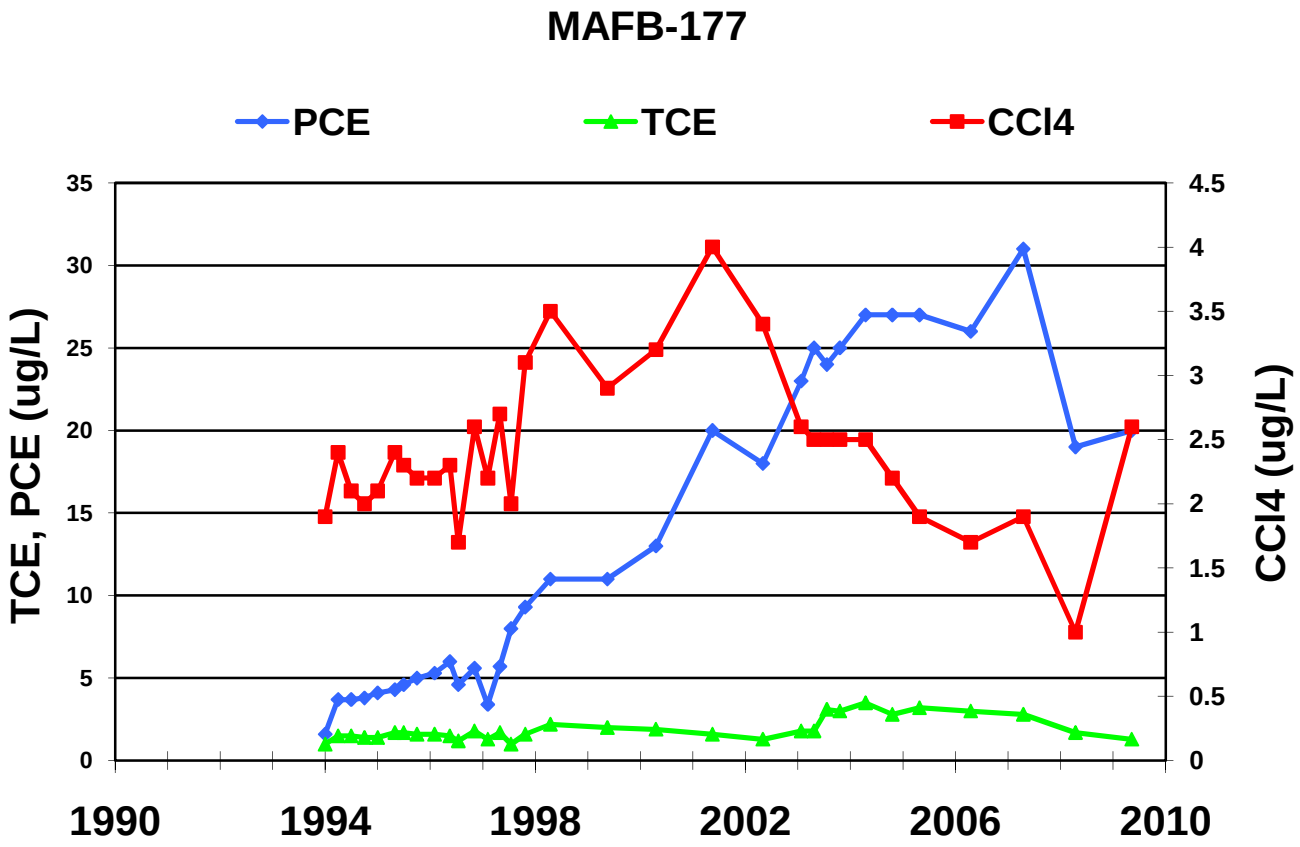

MAFB-172
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
20
40
60
80
100
120
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

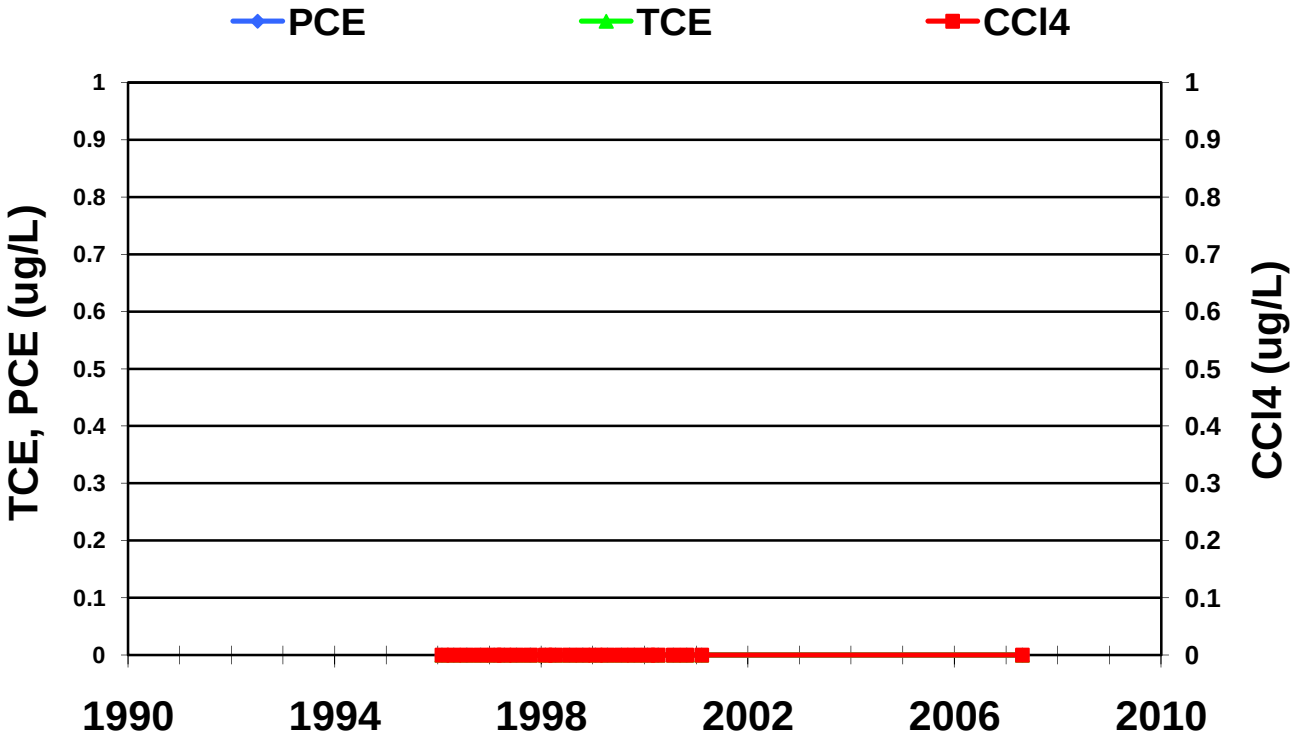

MAFB-173
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

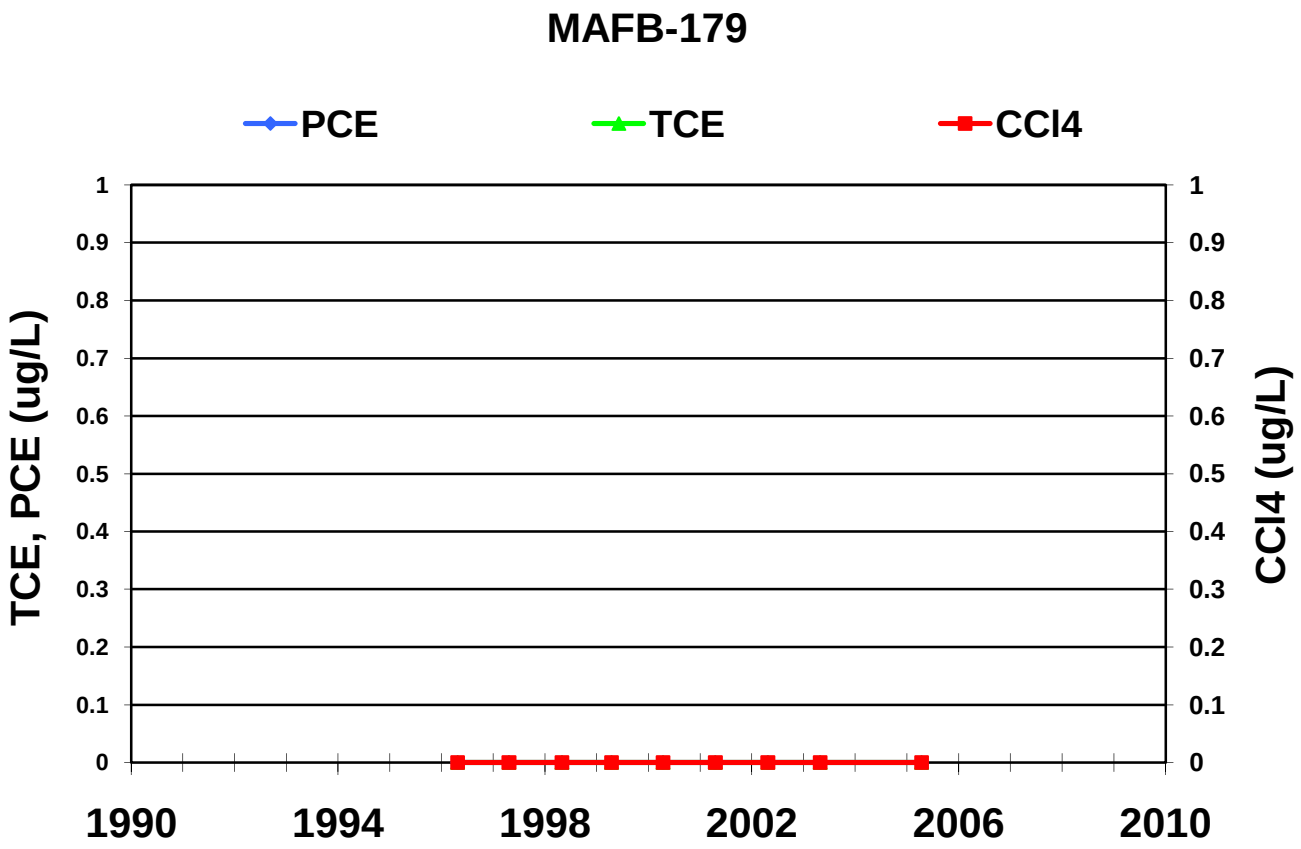

MAFB-174
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

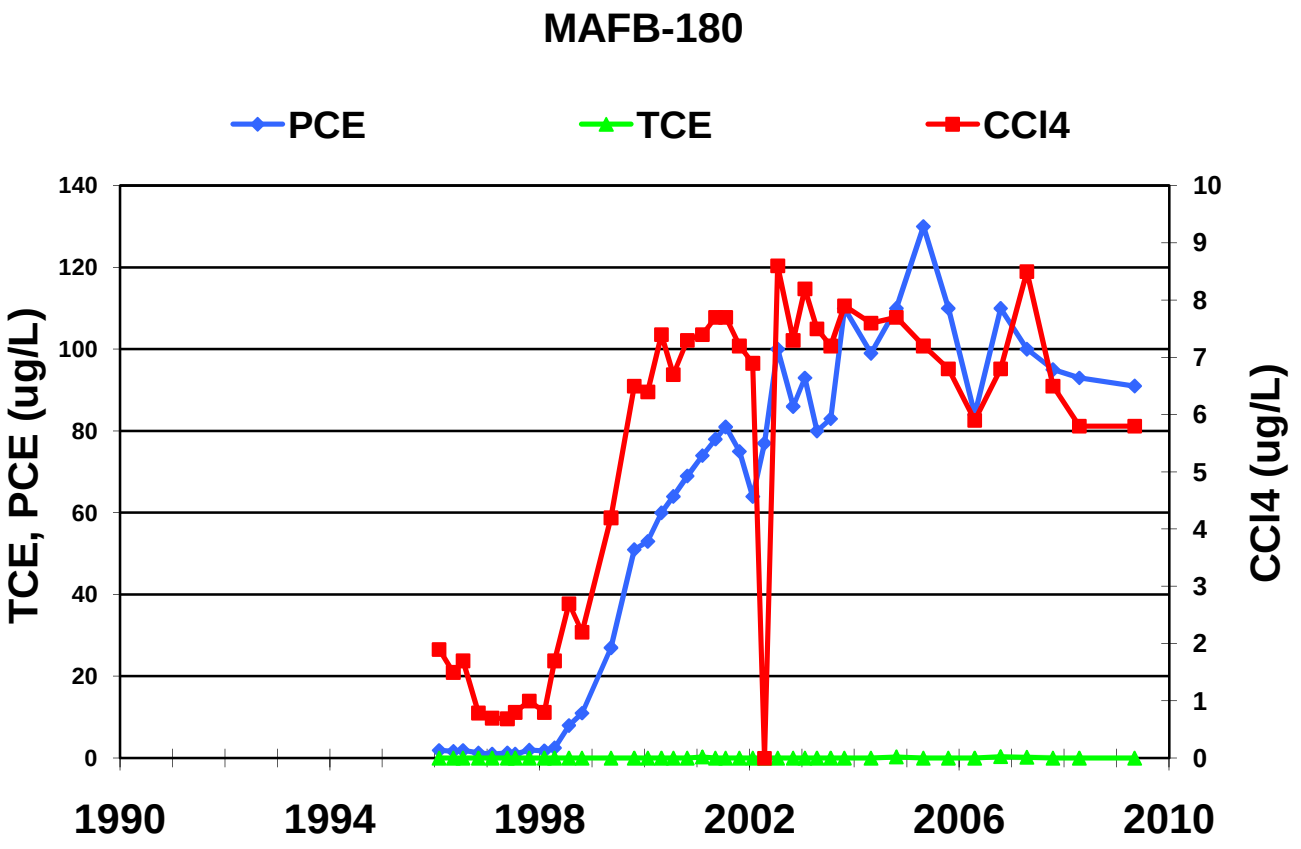

MAFB-175
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

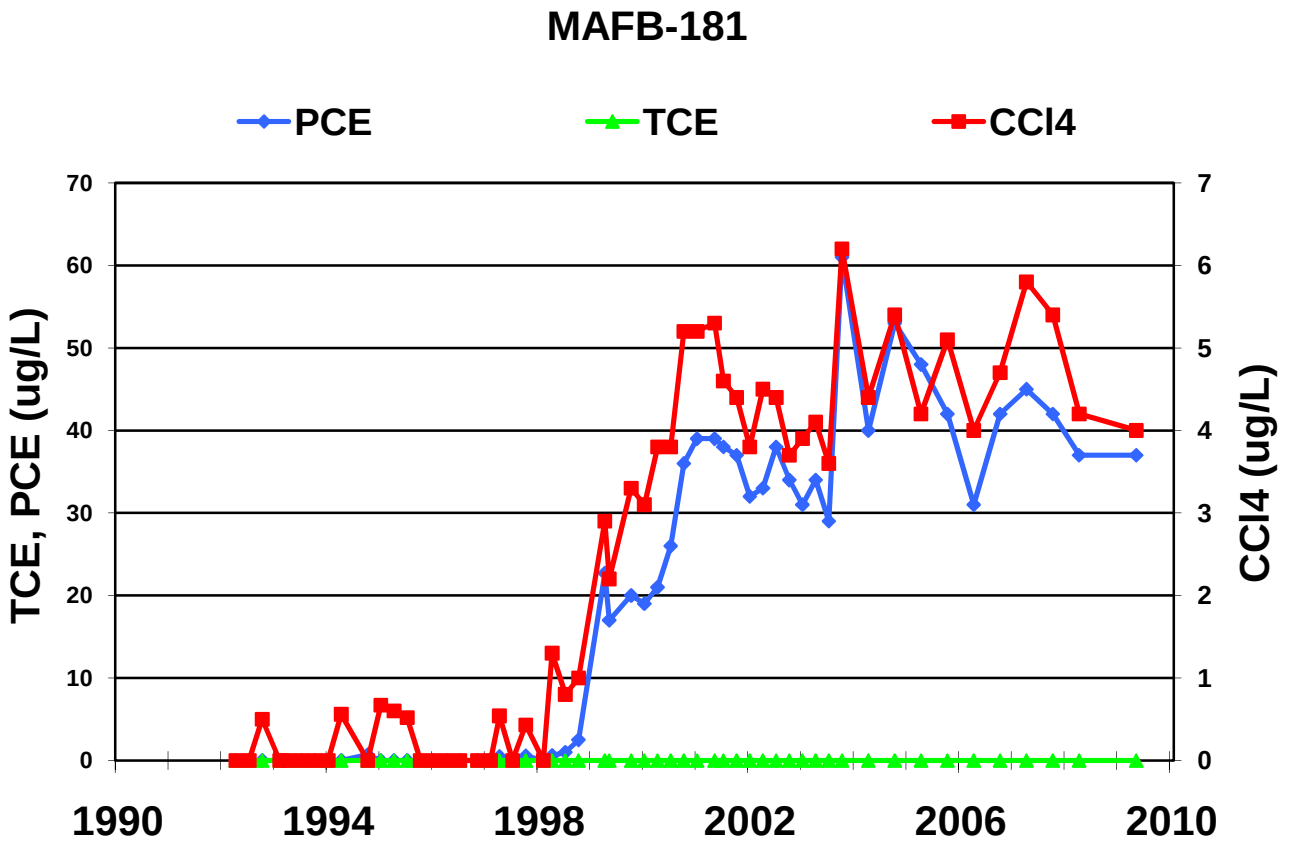

MAFB-176
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
9
8
7
6
5
4
3
2
1
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

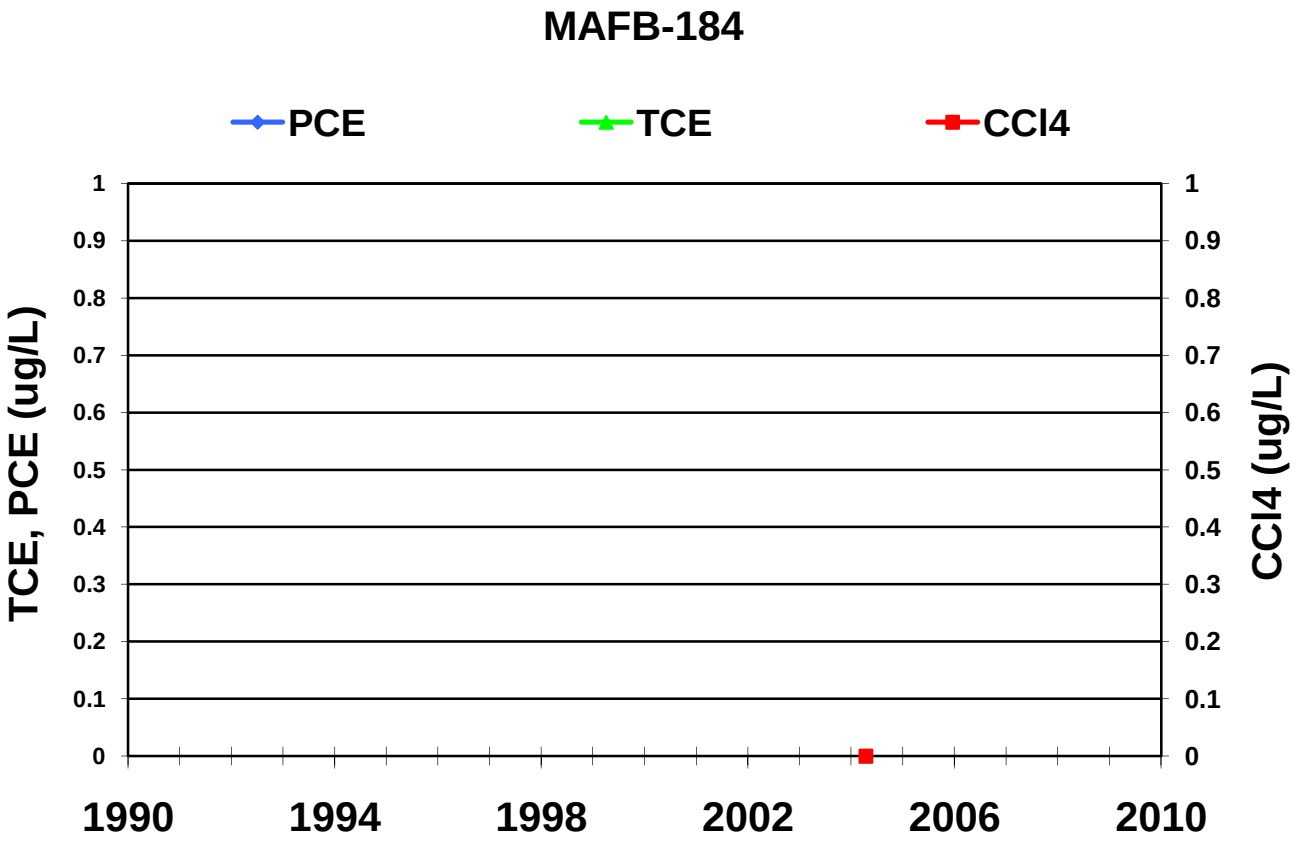

MAFB-177
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
1990
1994
1998
2002
2006
2010

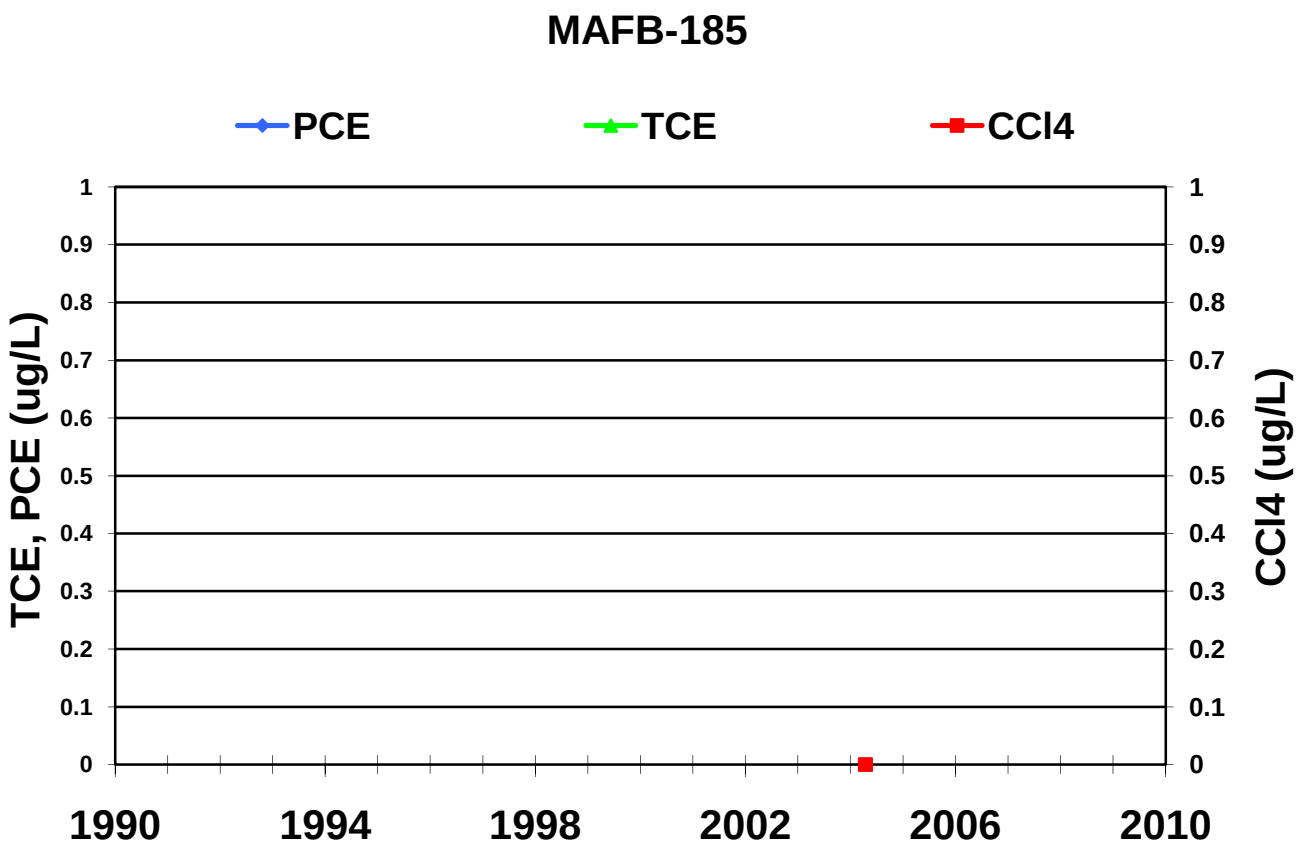

MAFB-178
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

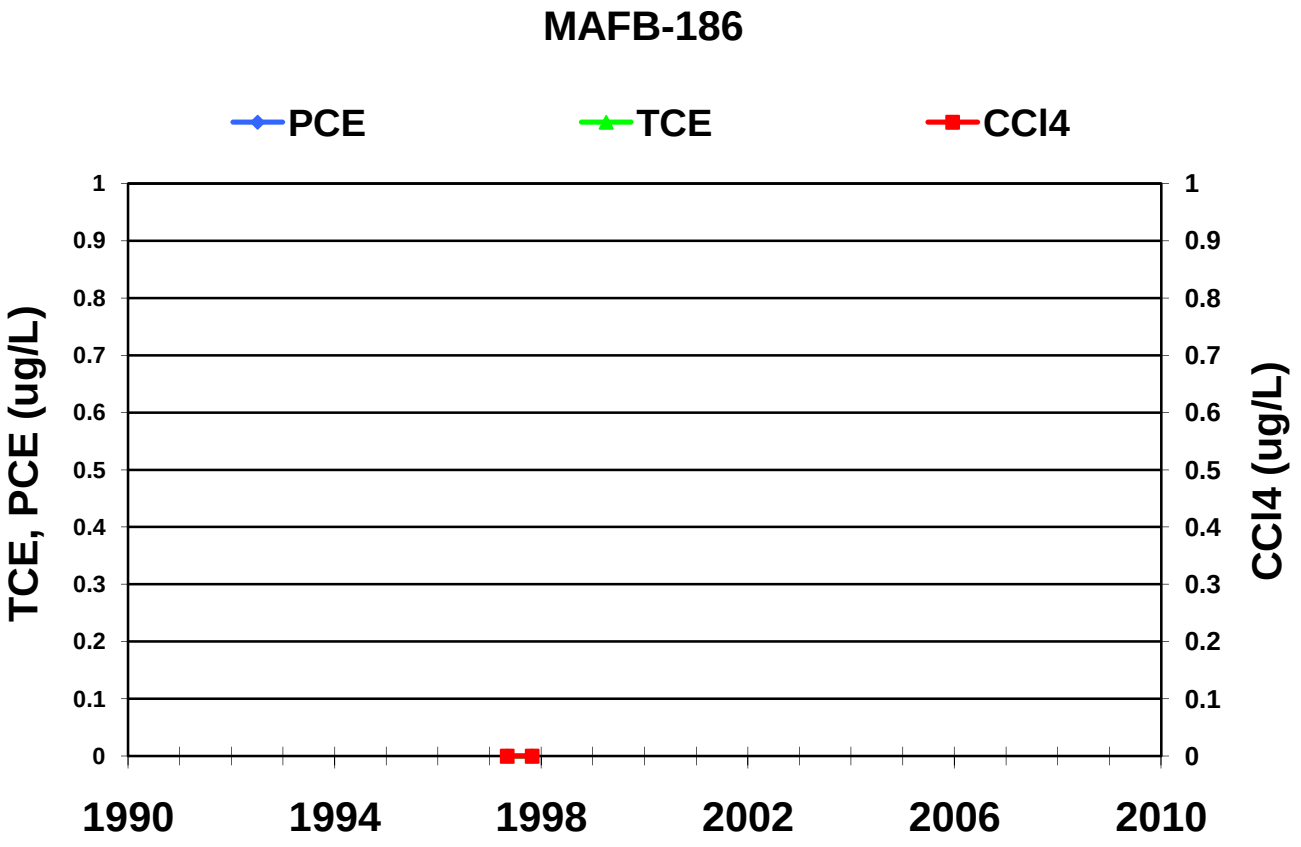

MAFB-179
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

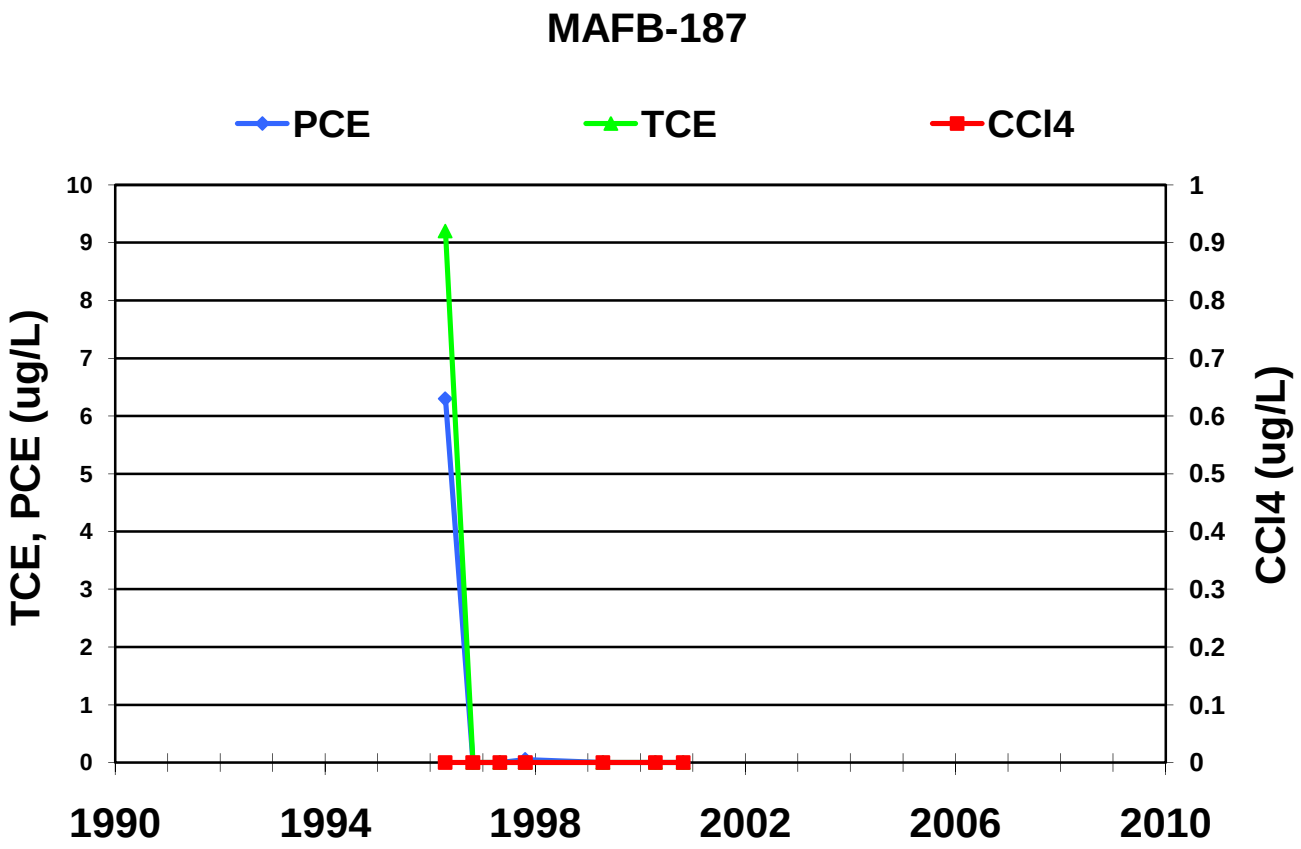

MAFB-180
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
140
120
100
80
60
40
20
0
10
9
8
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

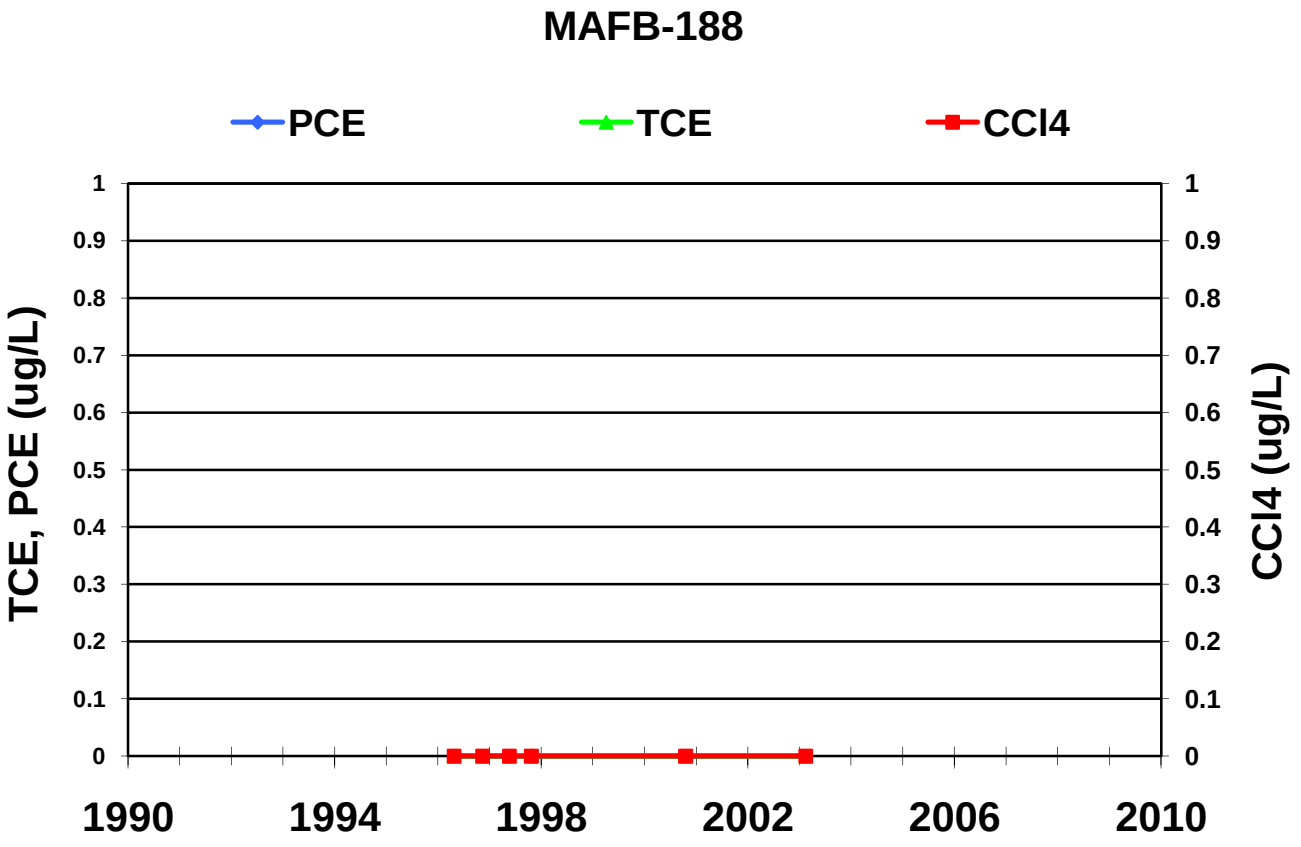

MAFB-181
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

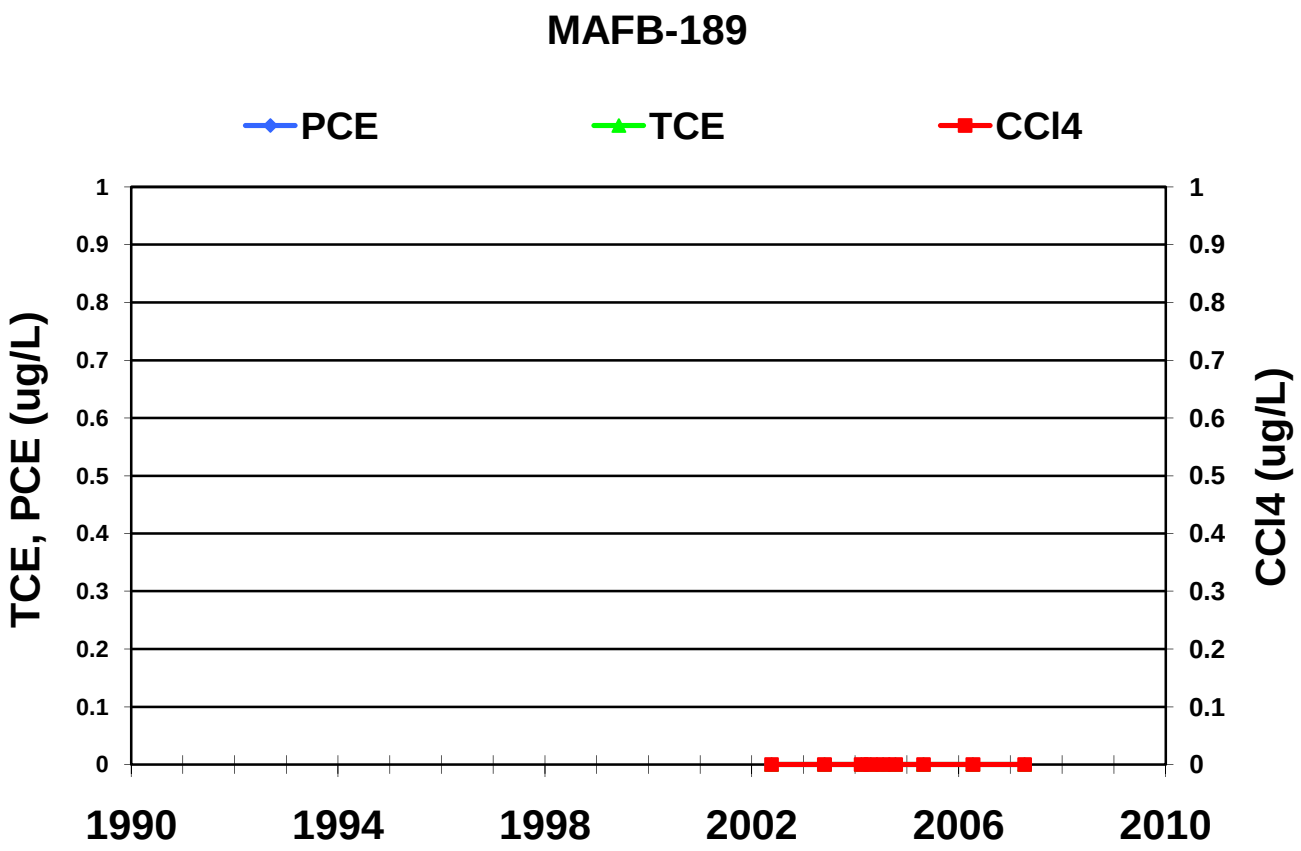

MAFB-184
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

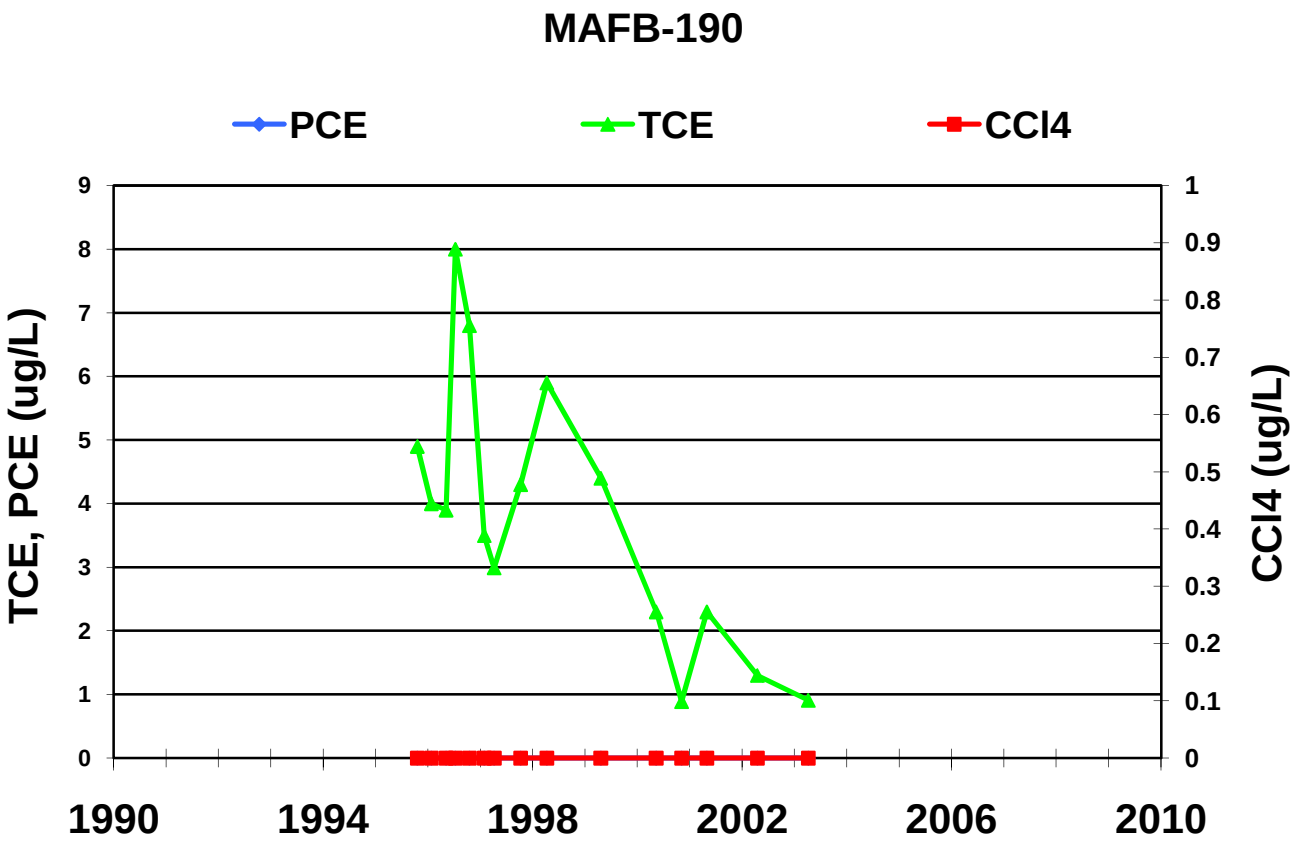

MAFB-185
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

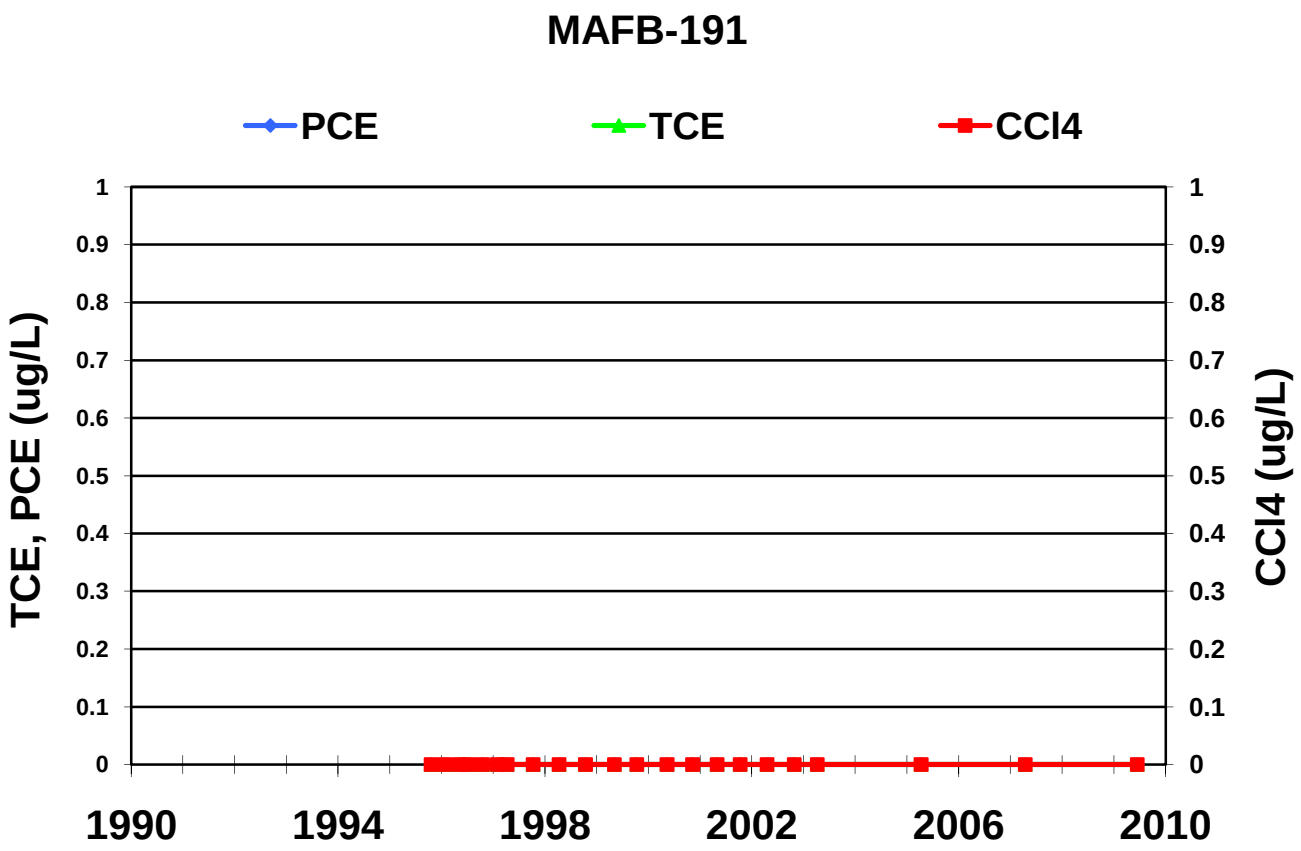

MAFB-186
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

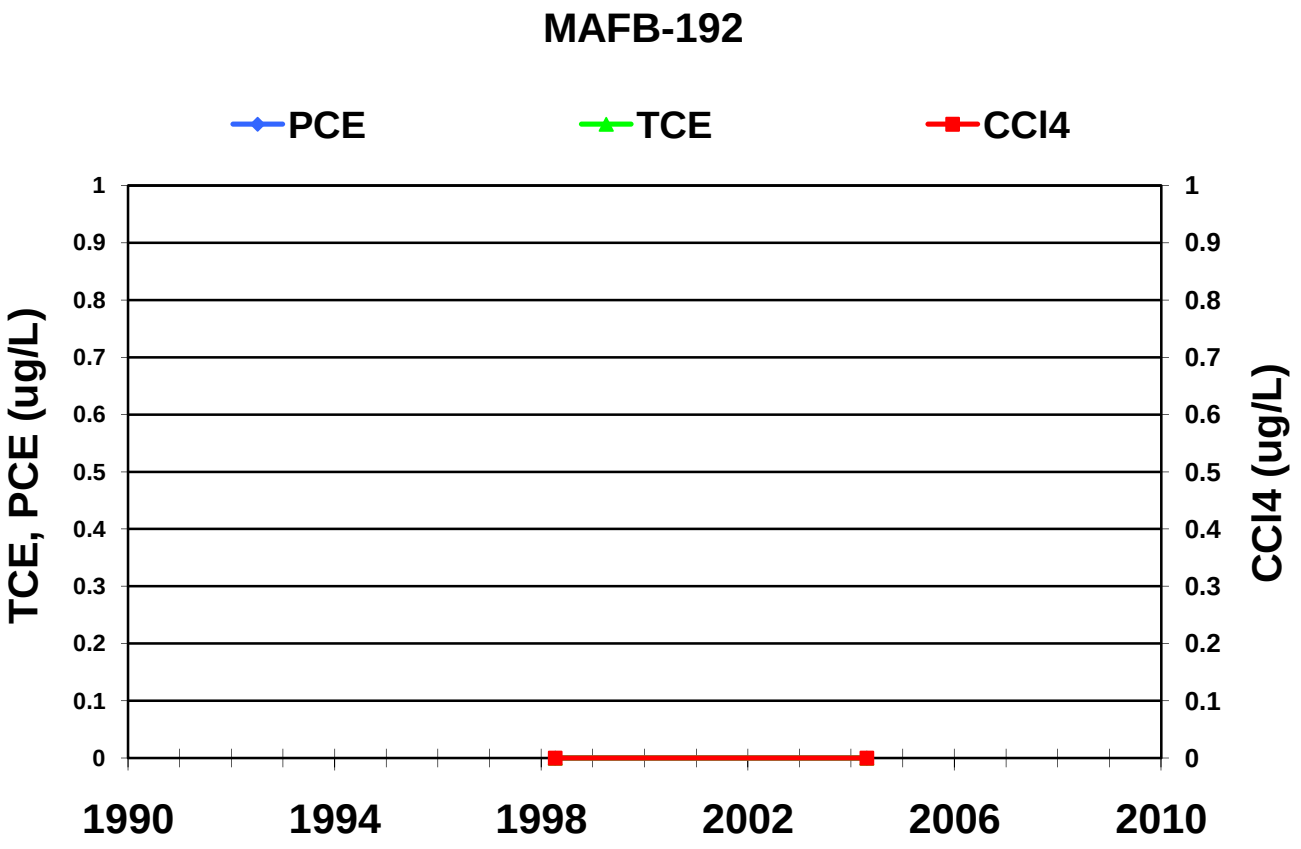

MAFB-187
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

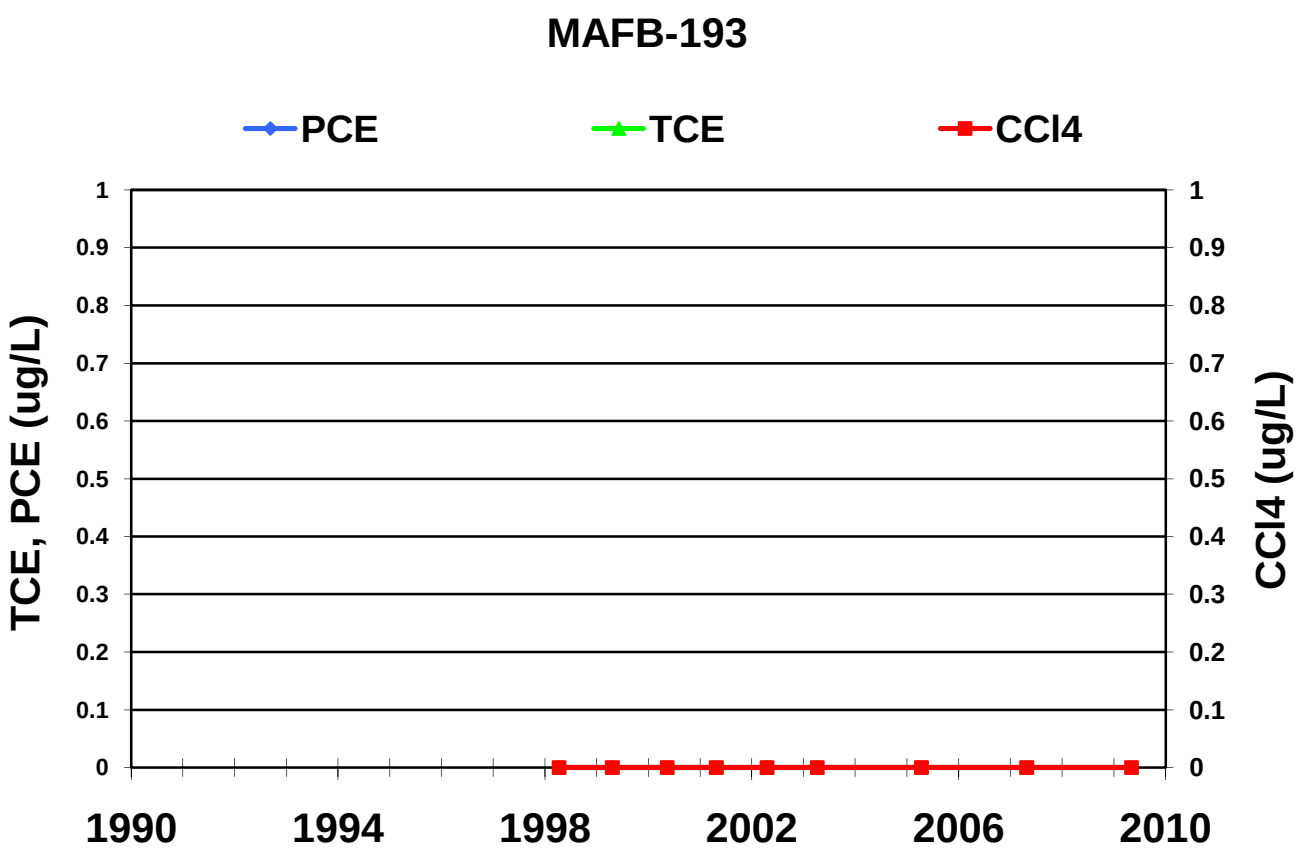

MAFB-188
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

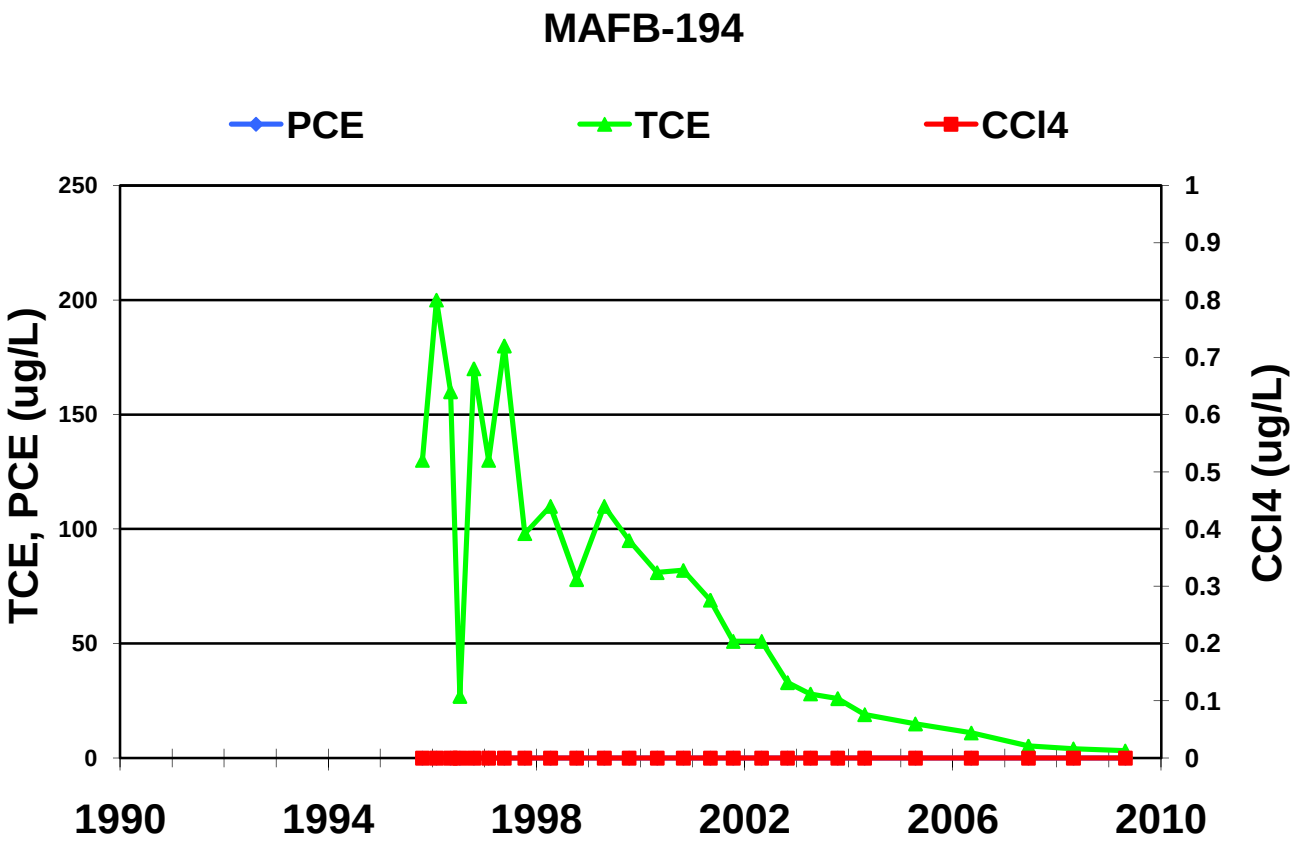

MAFB-189
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

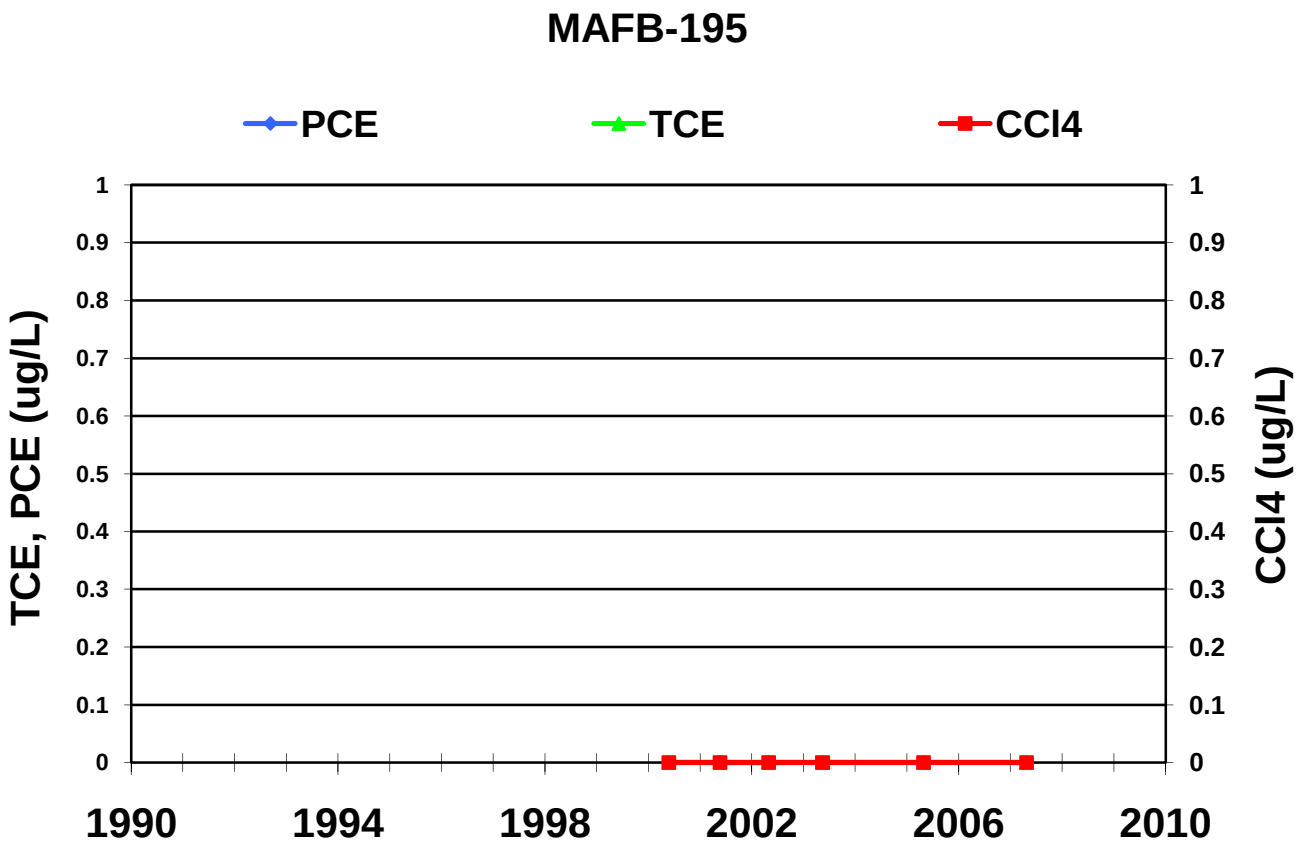

MAFB-190
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

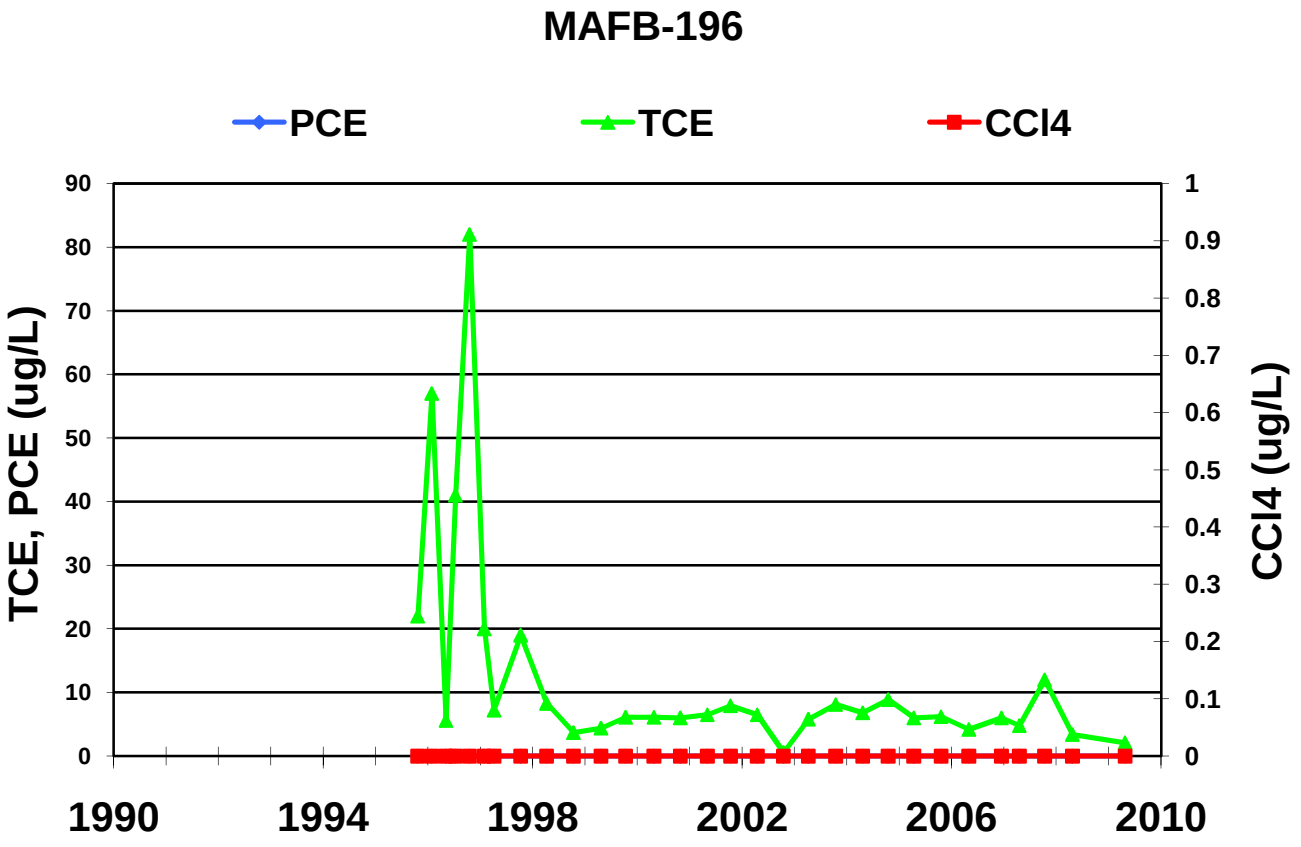

MAFB-191
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

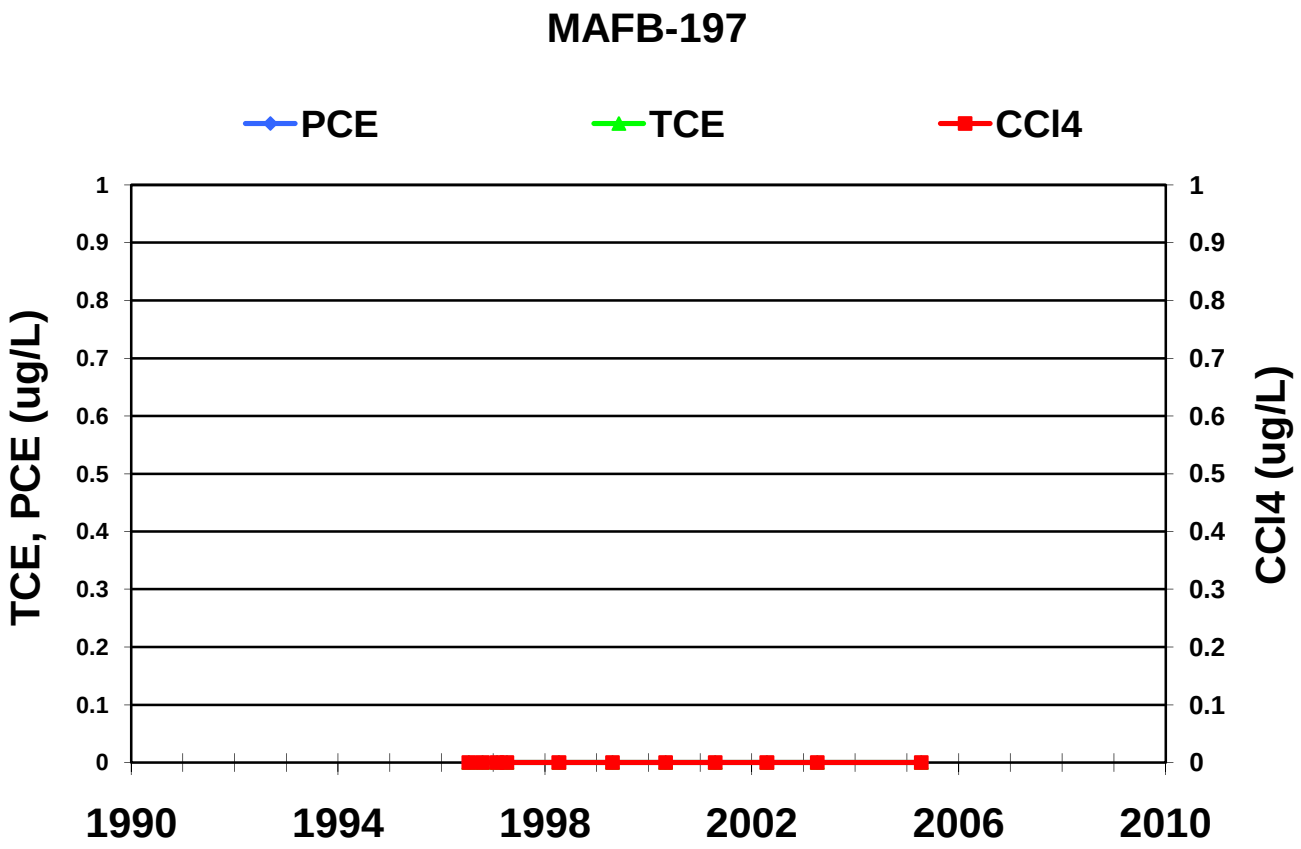

MAFB-192
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

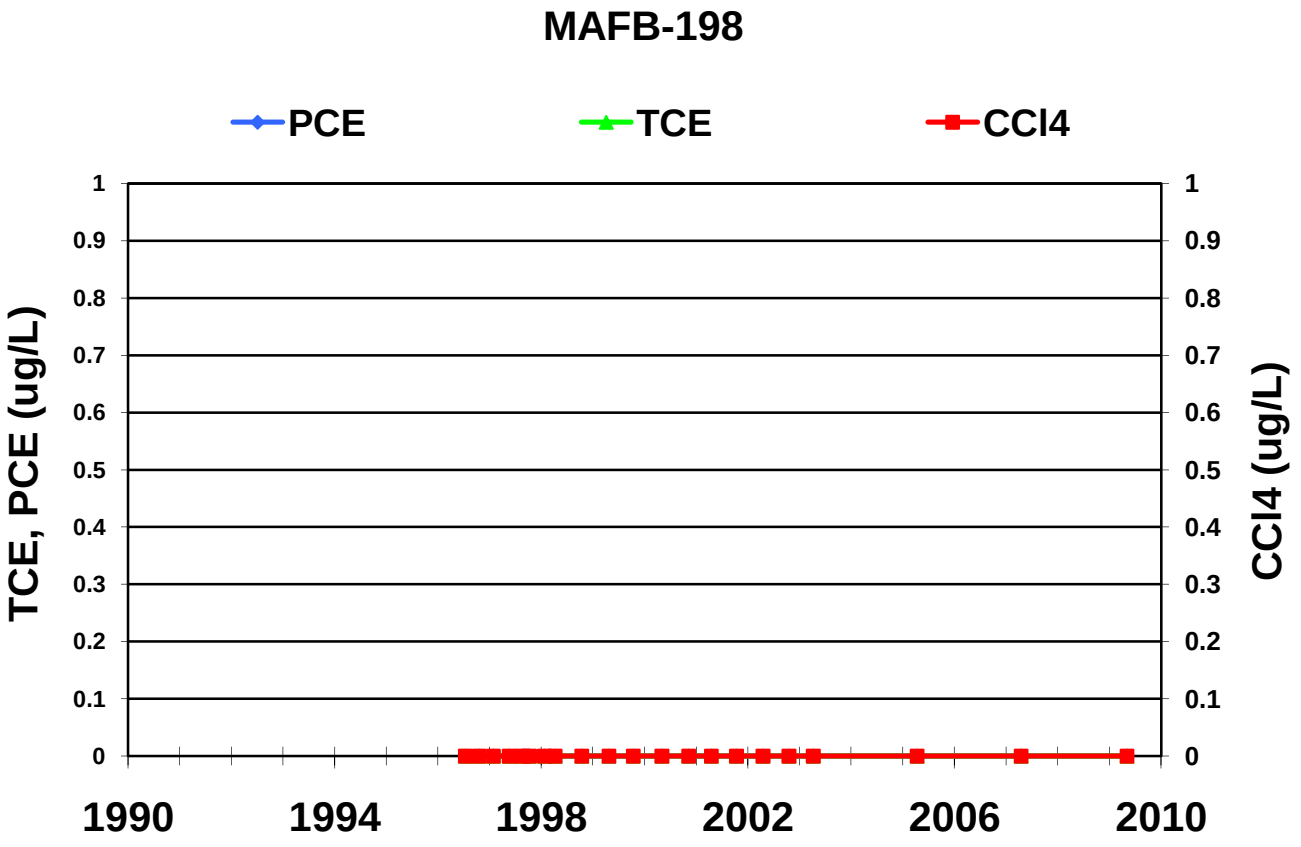

MAFB-193
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

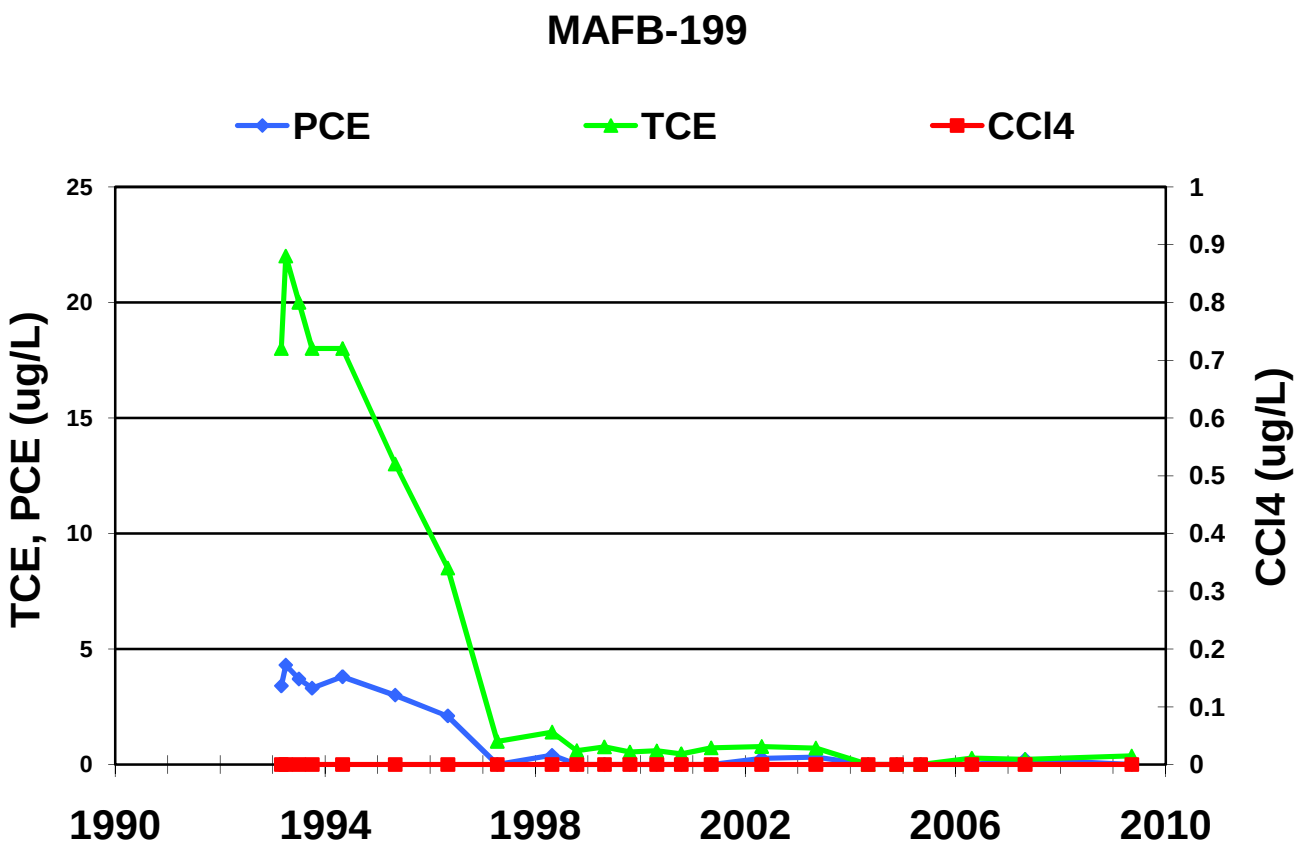

MAFB-194
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
250
200
150
100
50
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

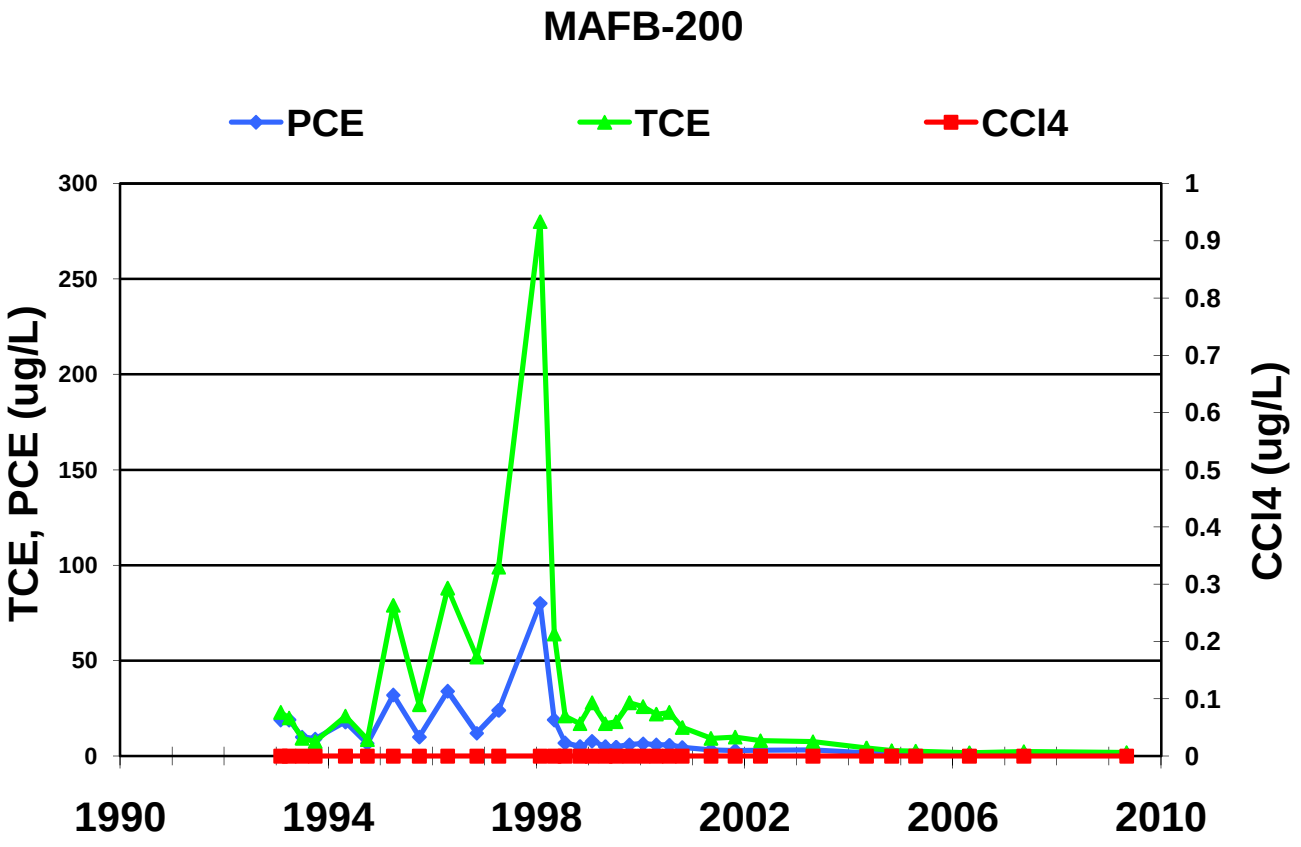

MAFB-195
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

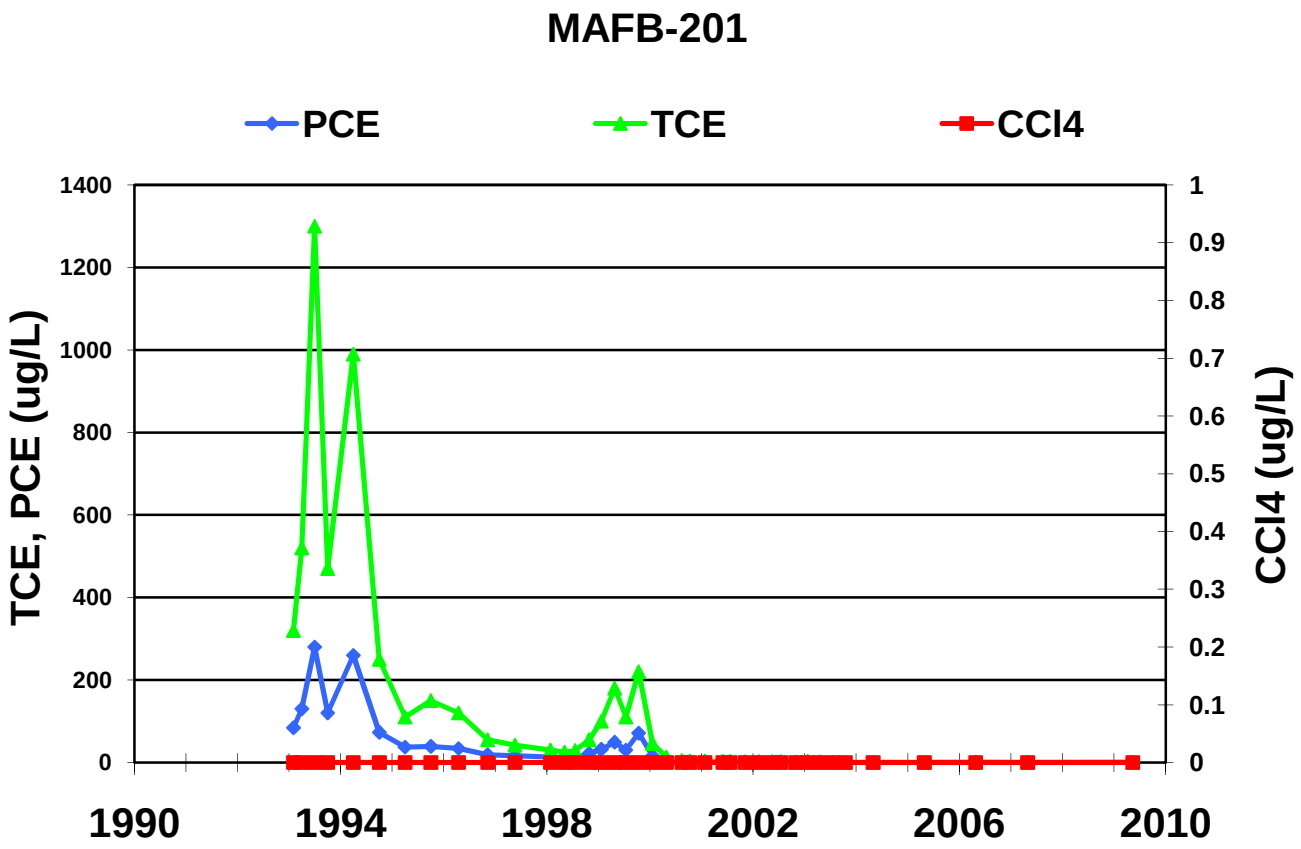

MAFB-196
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
70
80
90
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

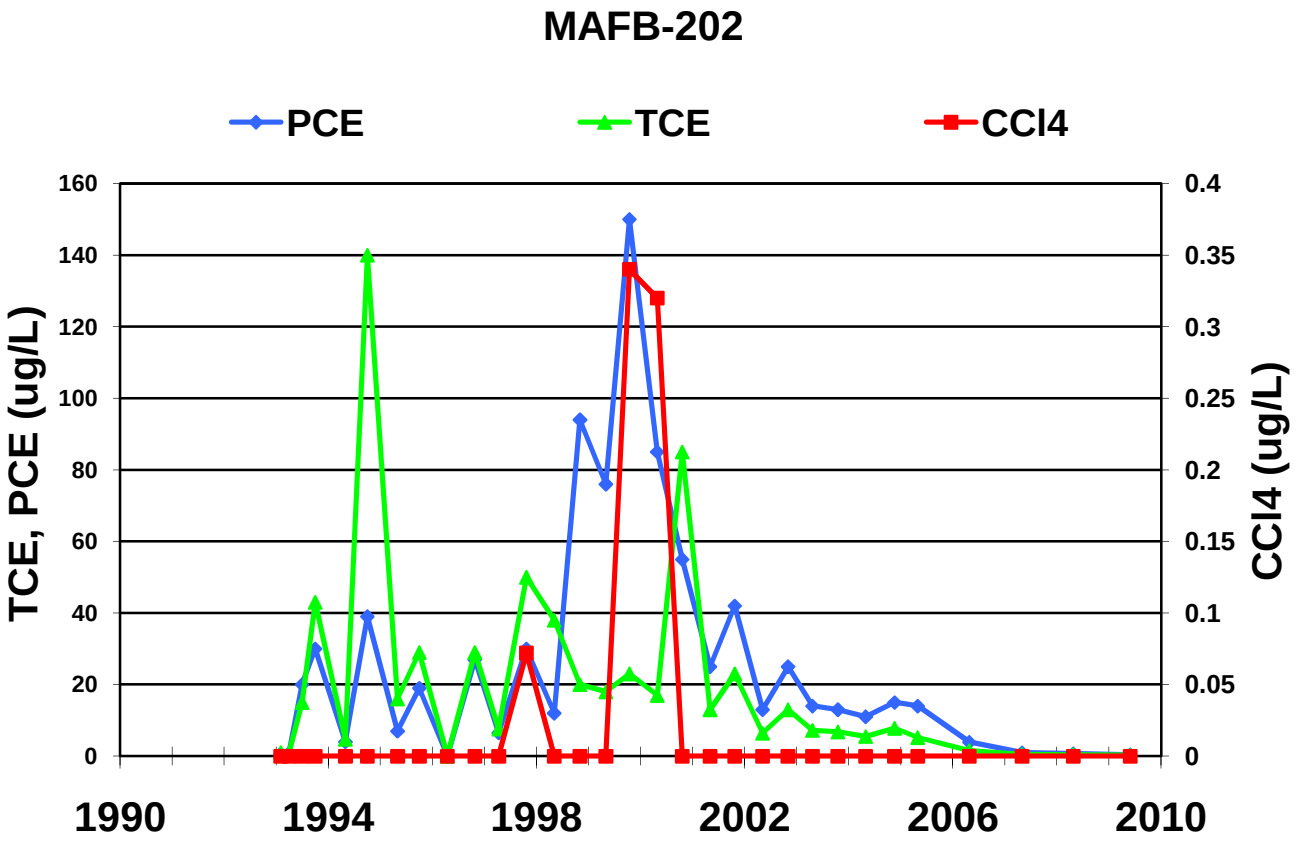

MAFB-197
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-198
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

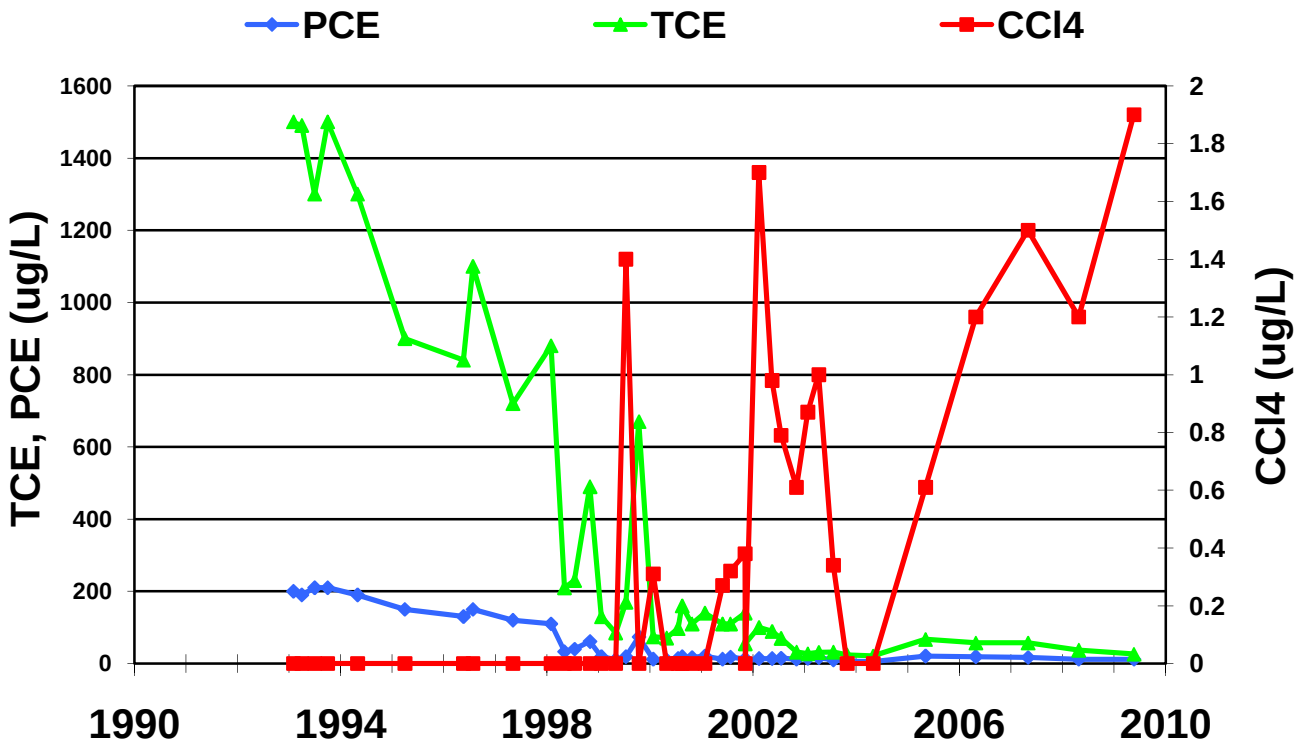

MAFB-199
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-200
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
300
250
200
150
100
50
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

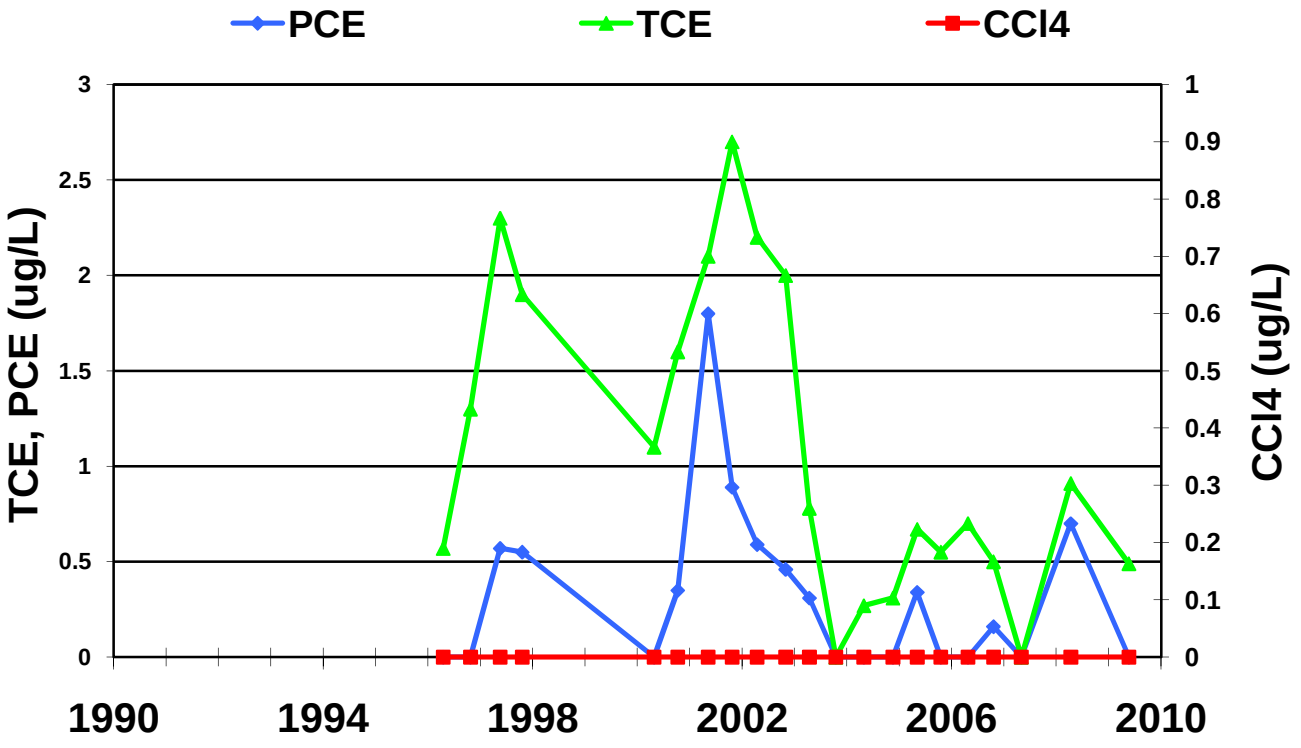

MAFB-201
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1400
1200
1000
800
600
400
200
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

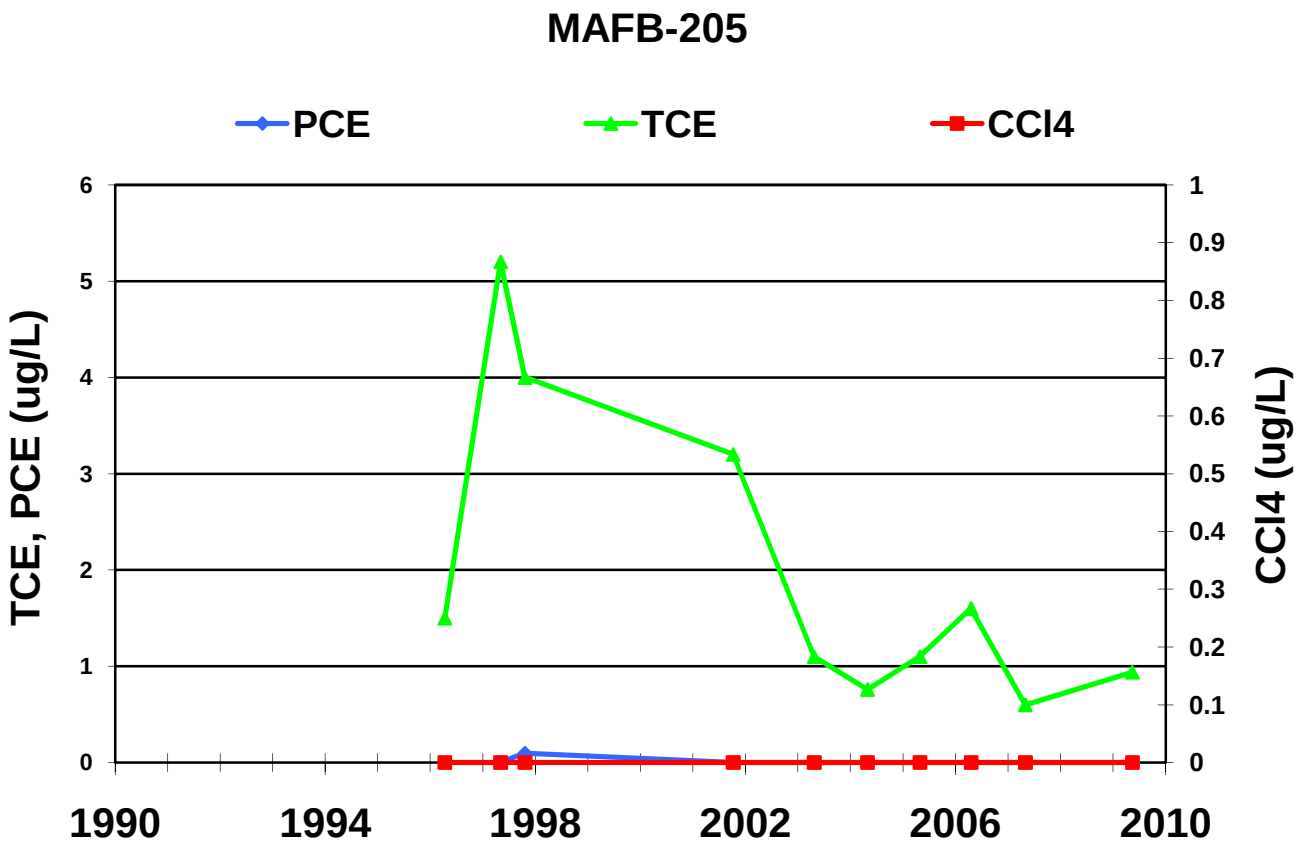

MAFB-202
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
160
140
120
100
80
60
40
20
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

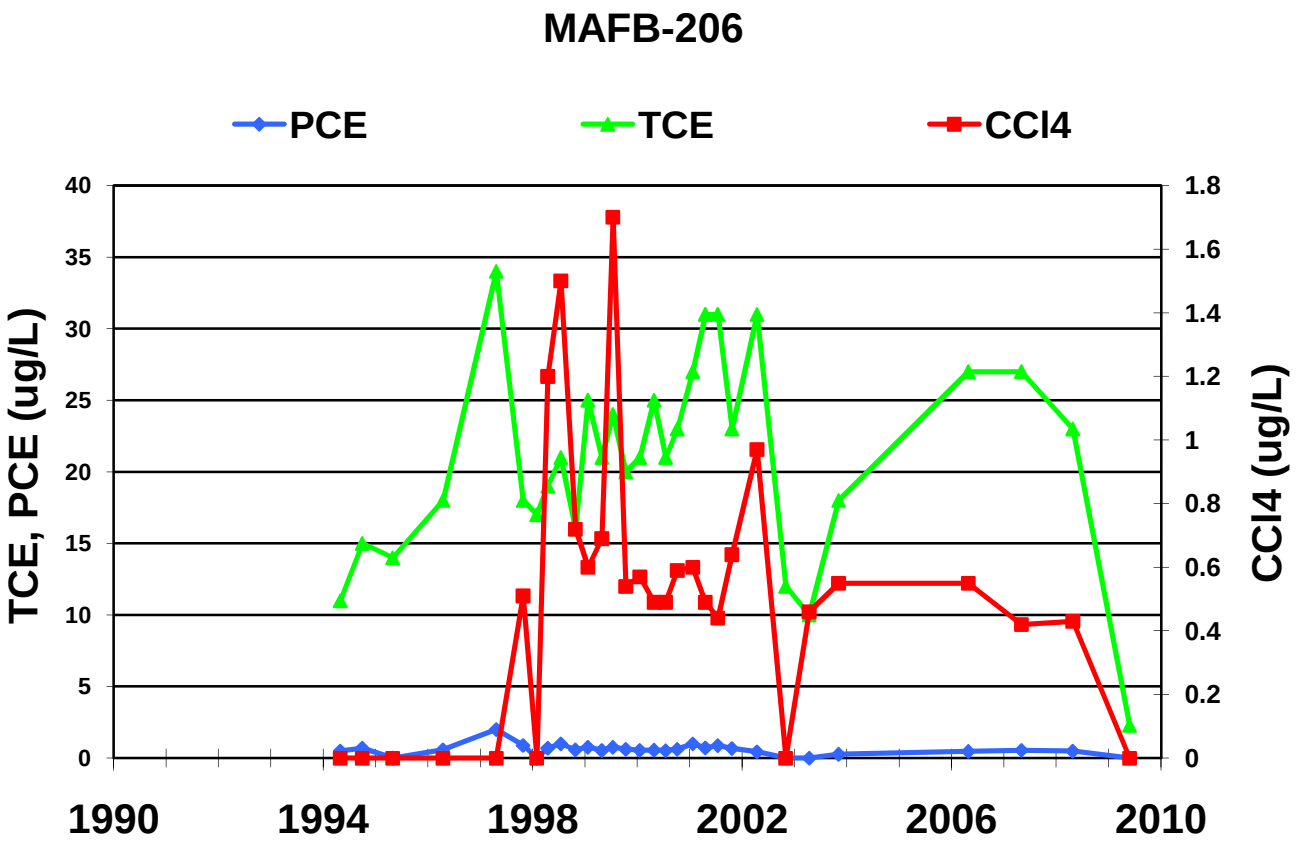
MAFB-203

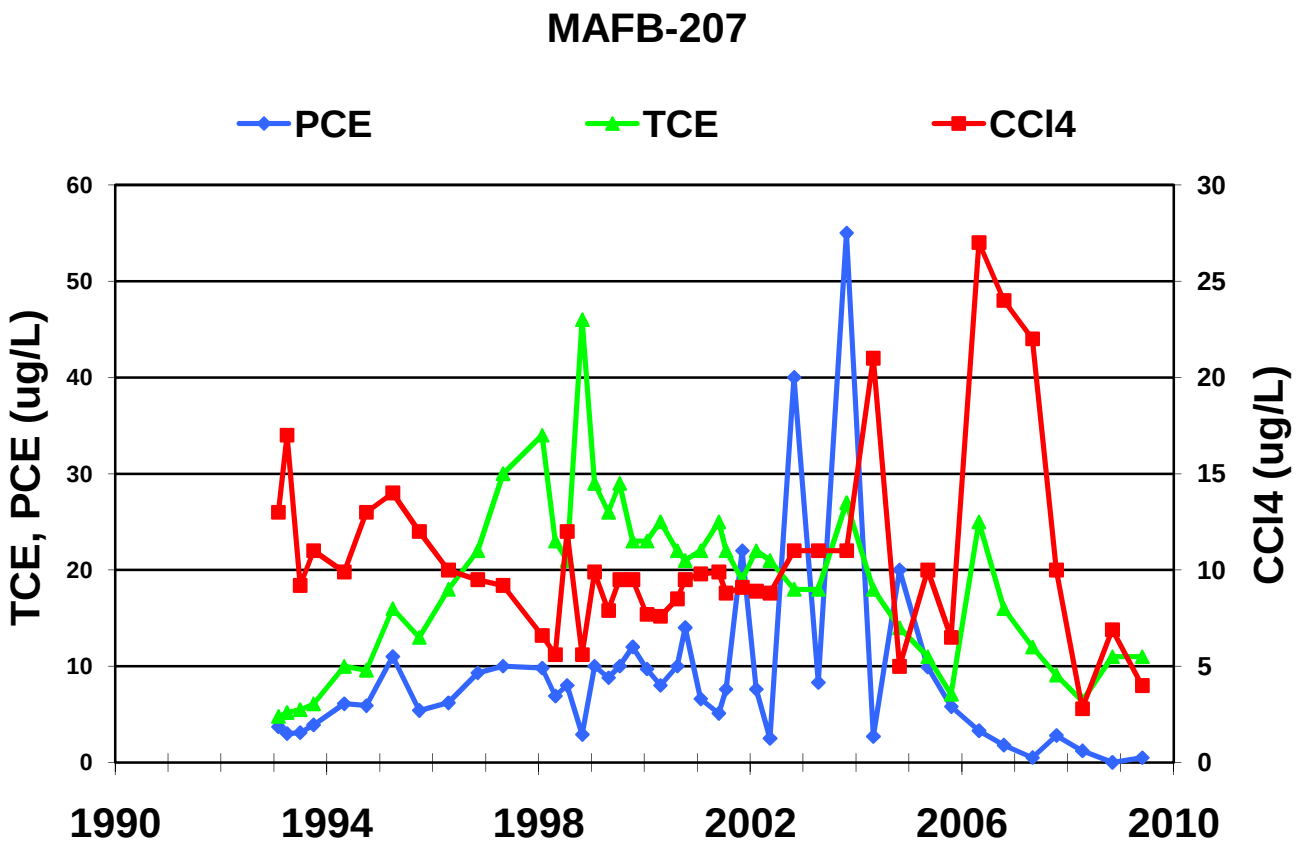


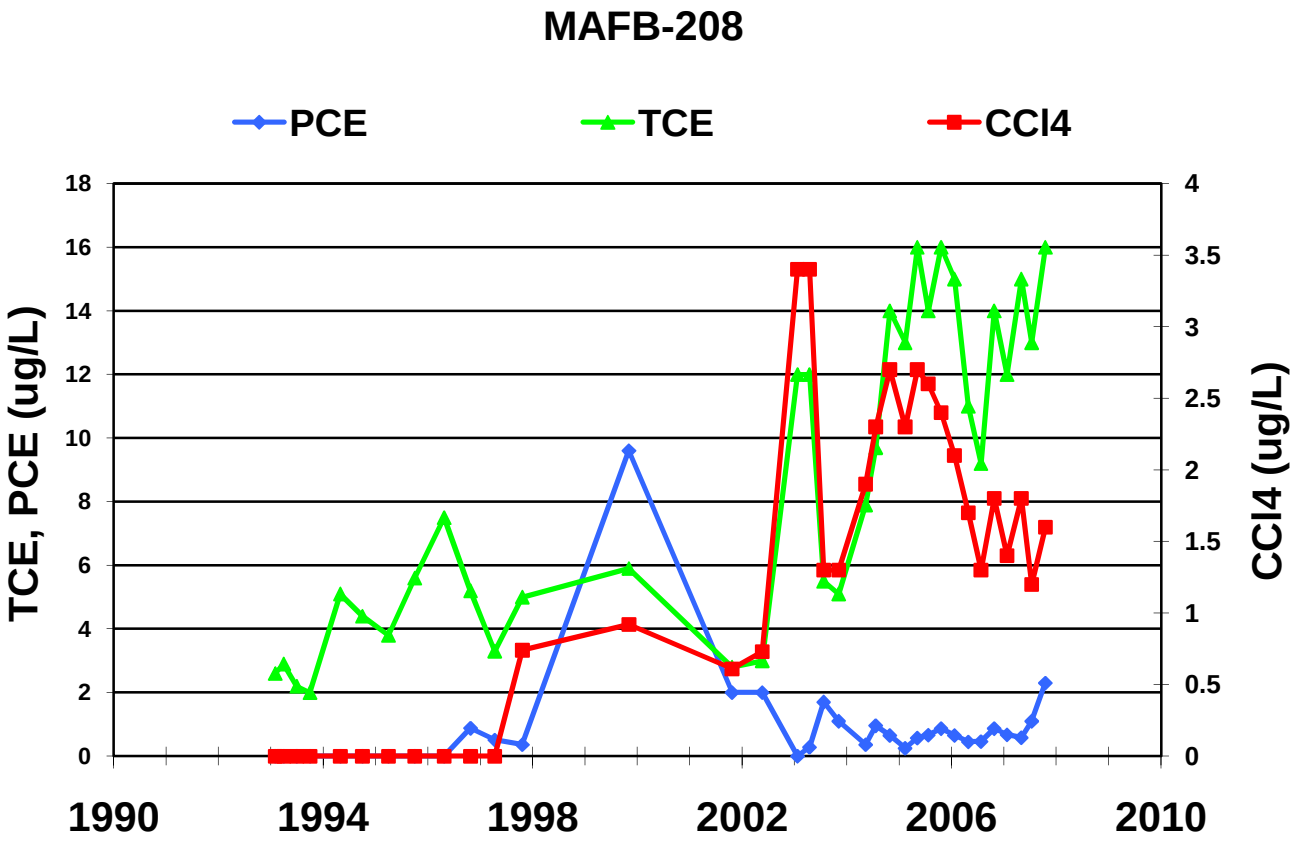
MAFB-204

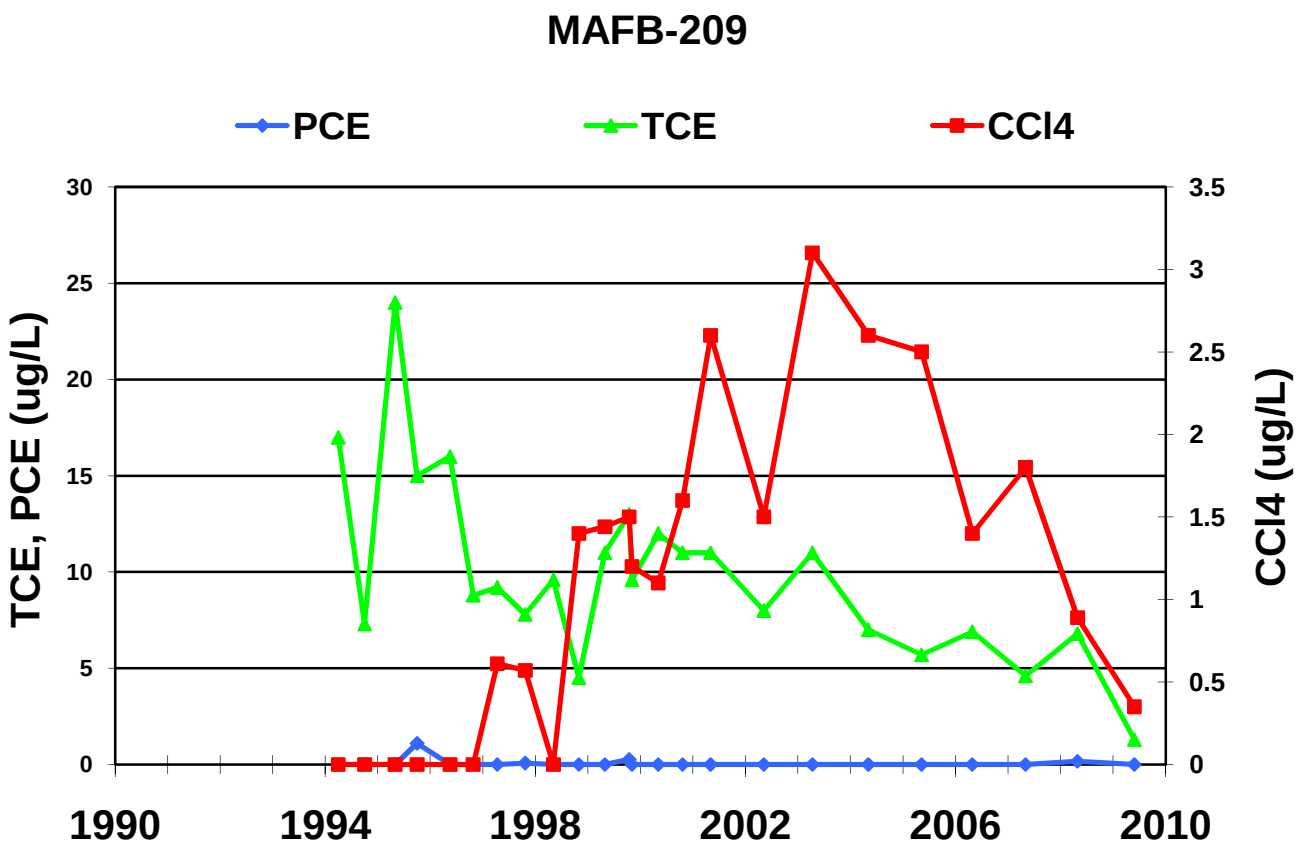


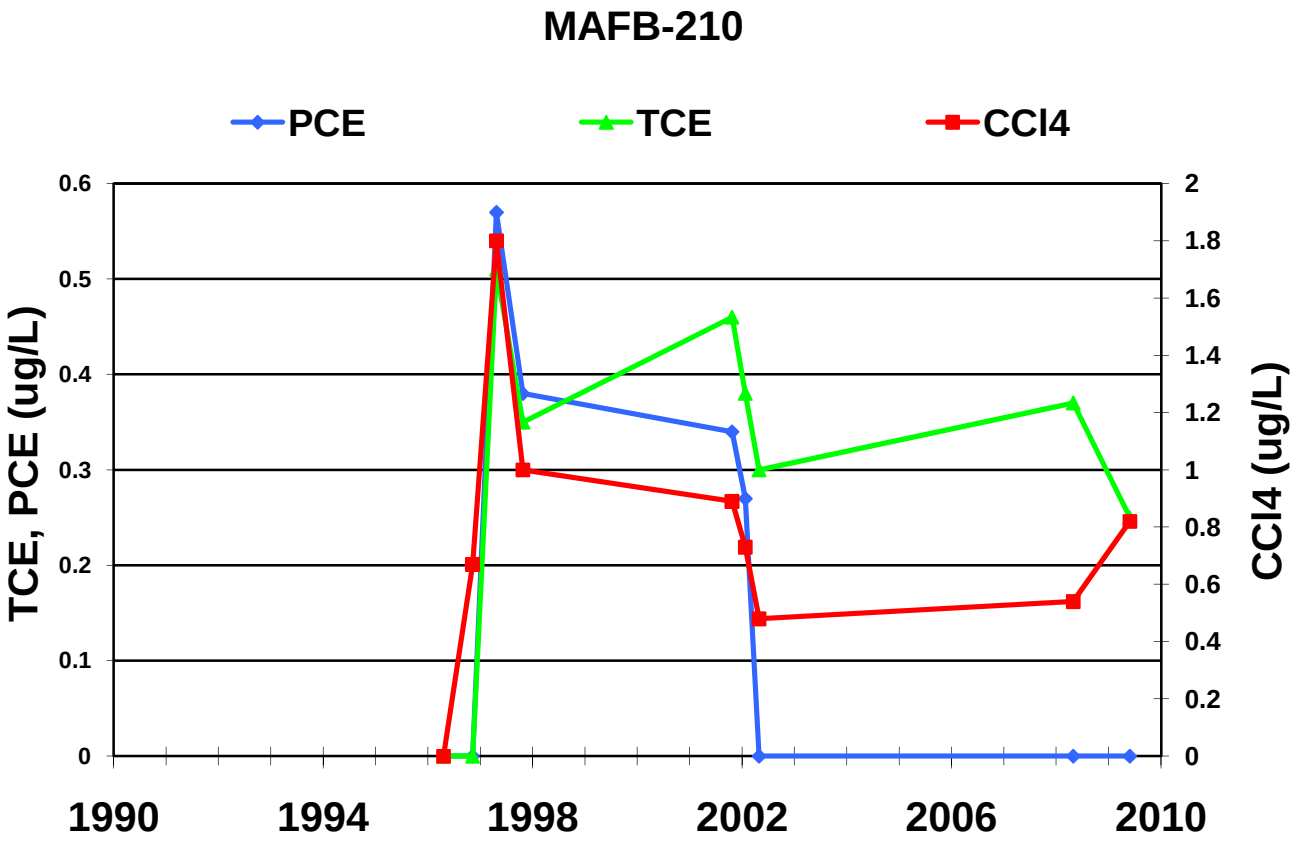

MAFB-205
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

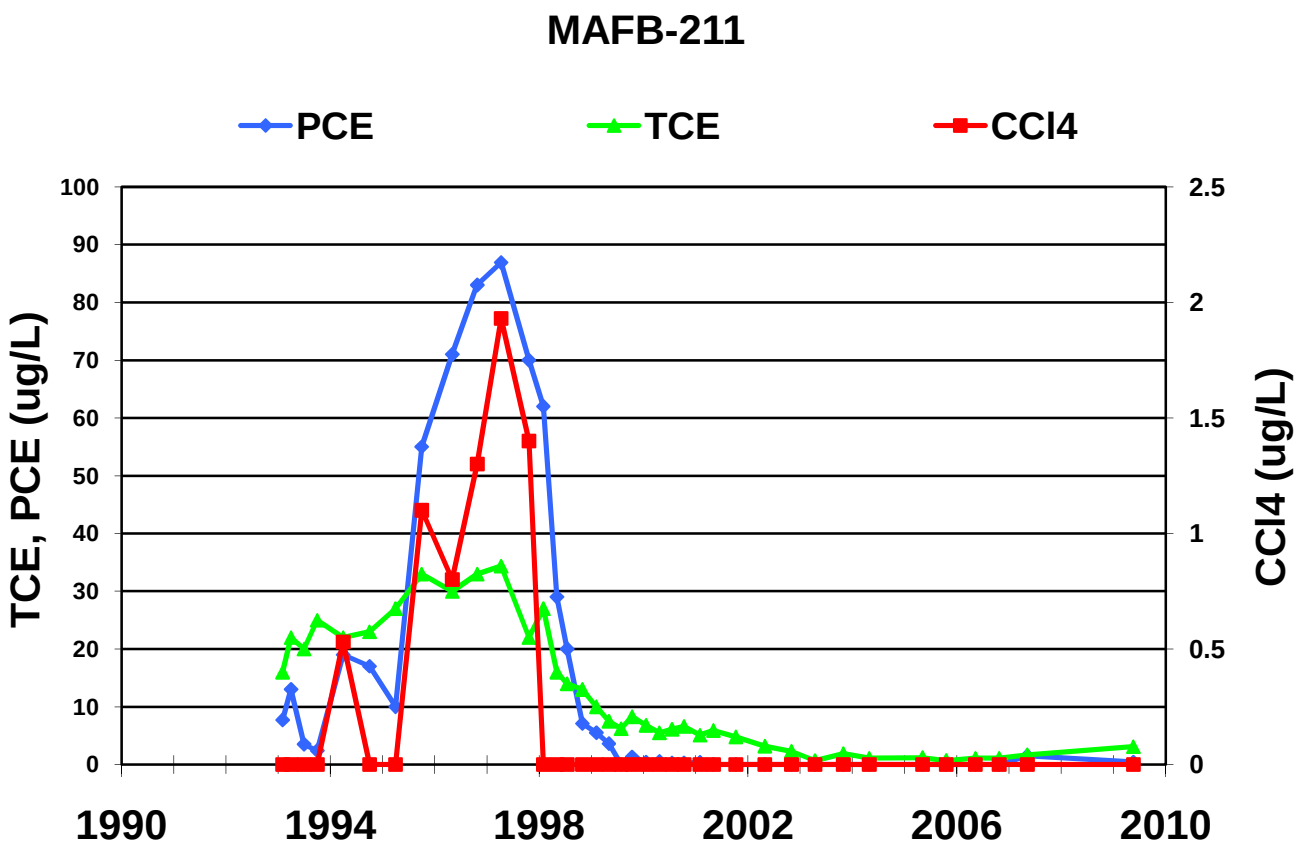

MAFB-206
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
1990
1994
1998
2002
2006
2010

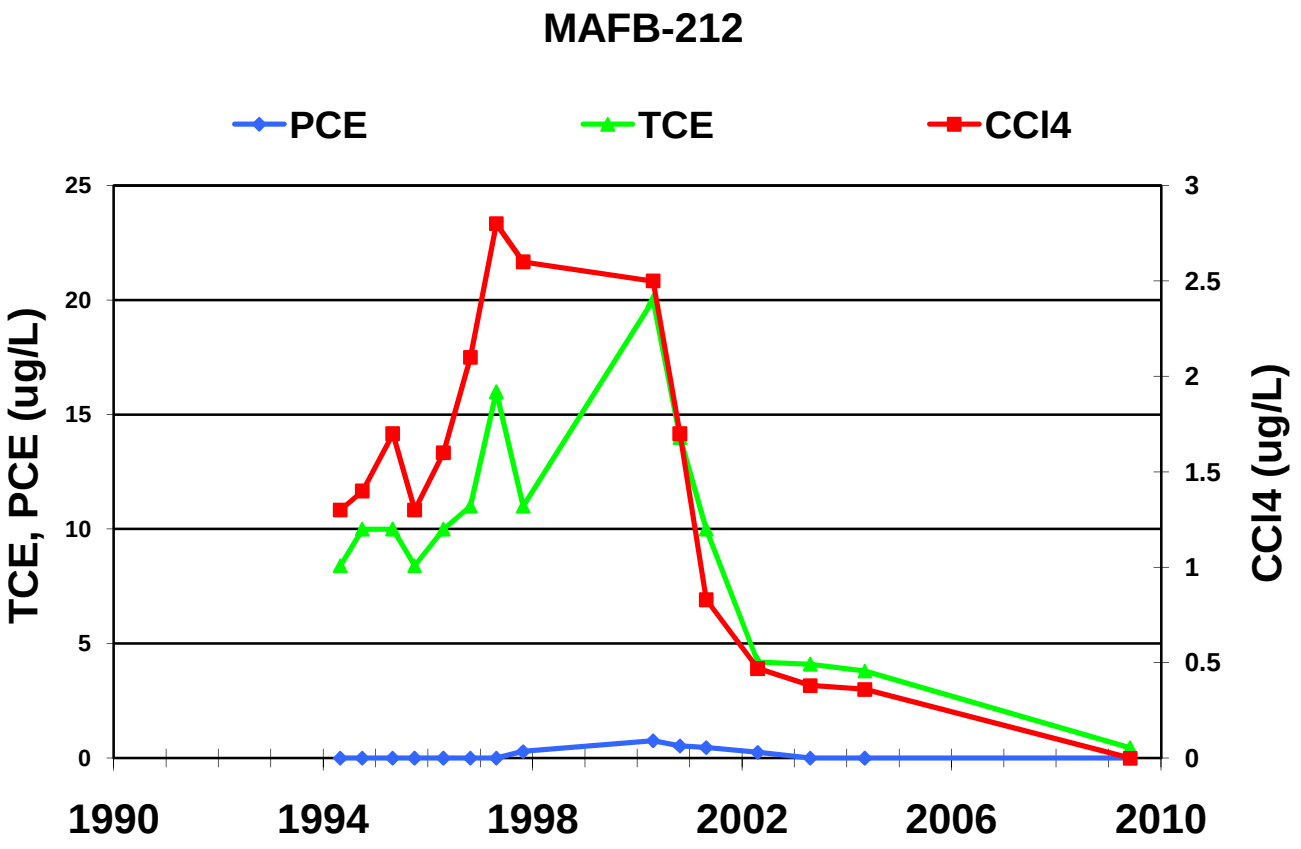

MAFB-207
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
30
25
20
15
10
5
0
1990
1994
1998
2002
2006
2010

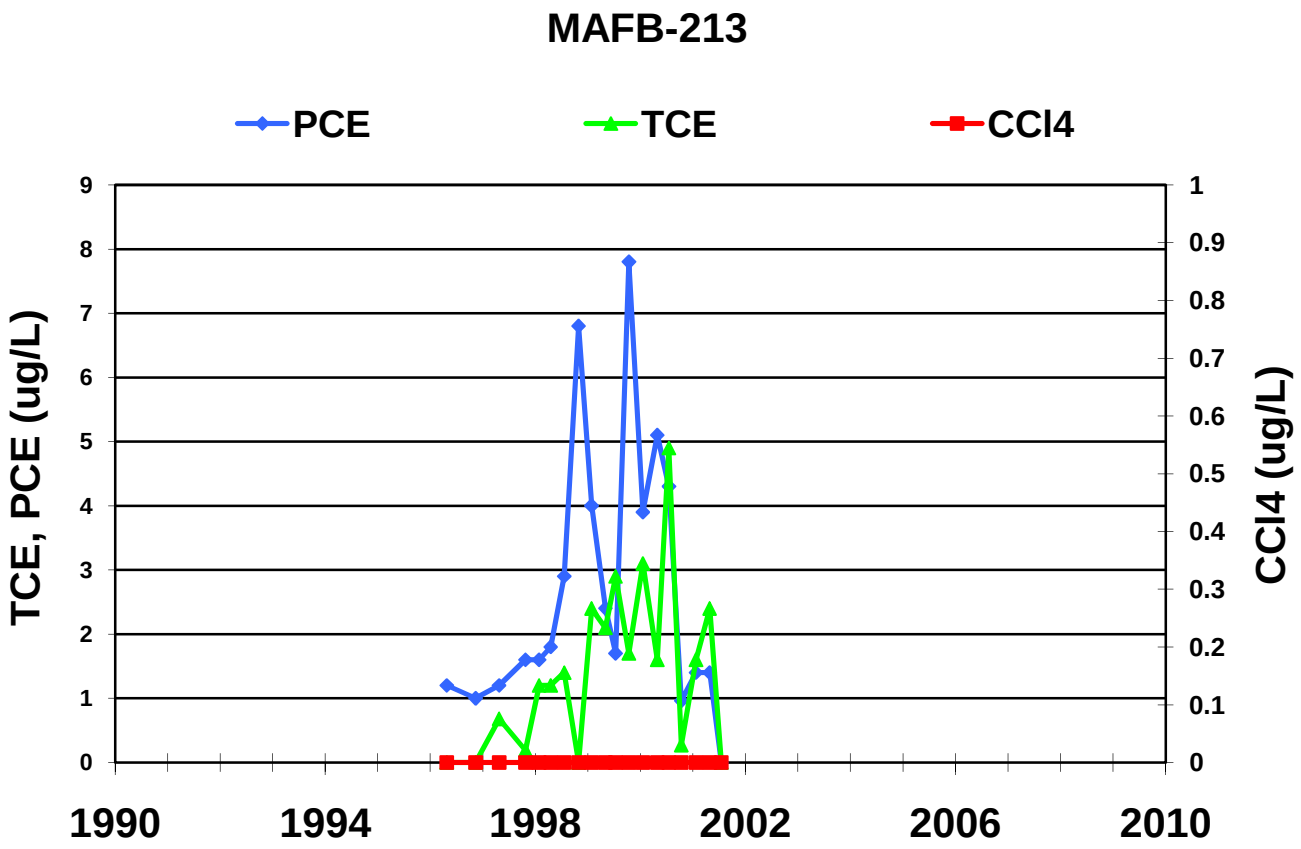

MAFB-208
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

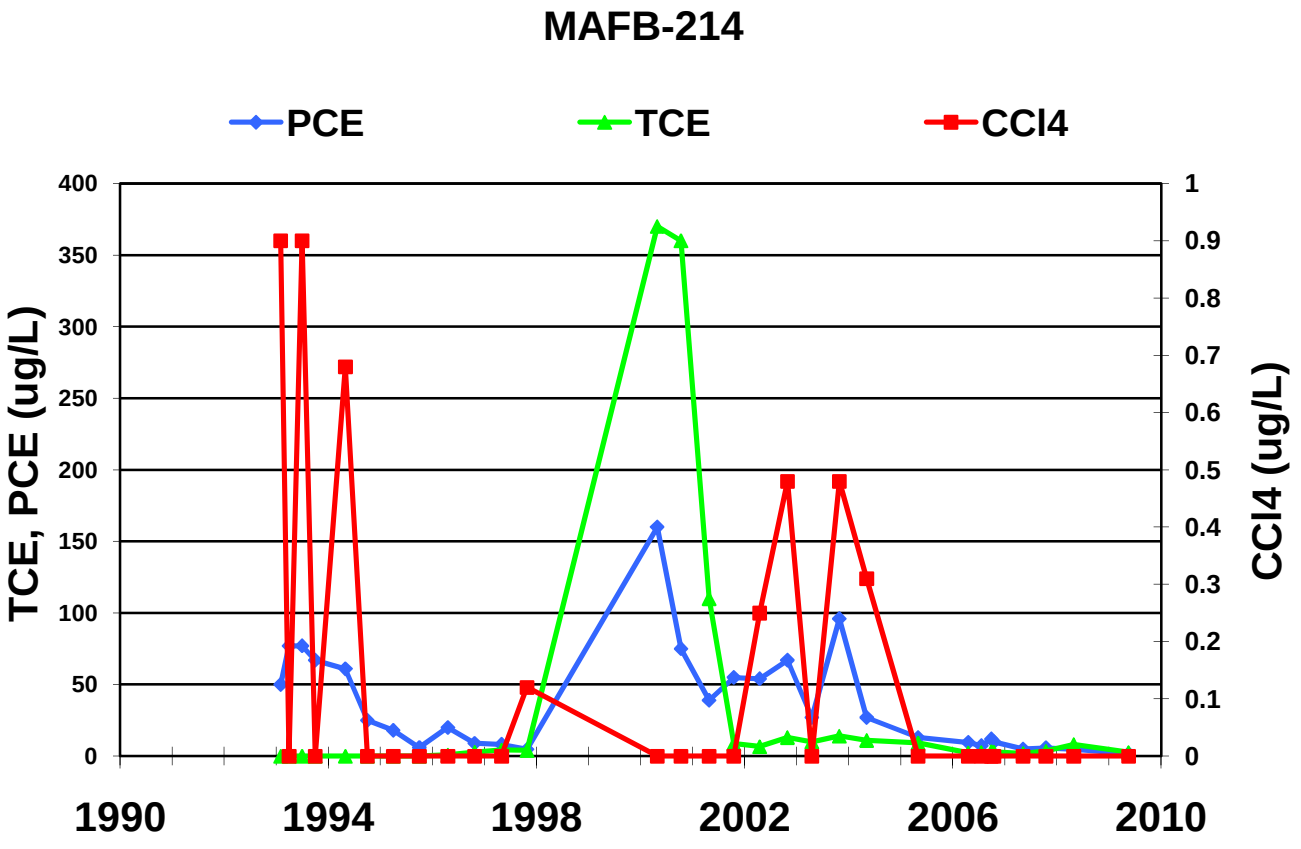

MAFB-209
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-210
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

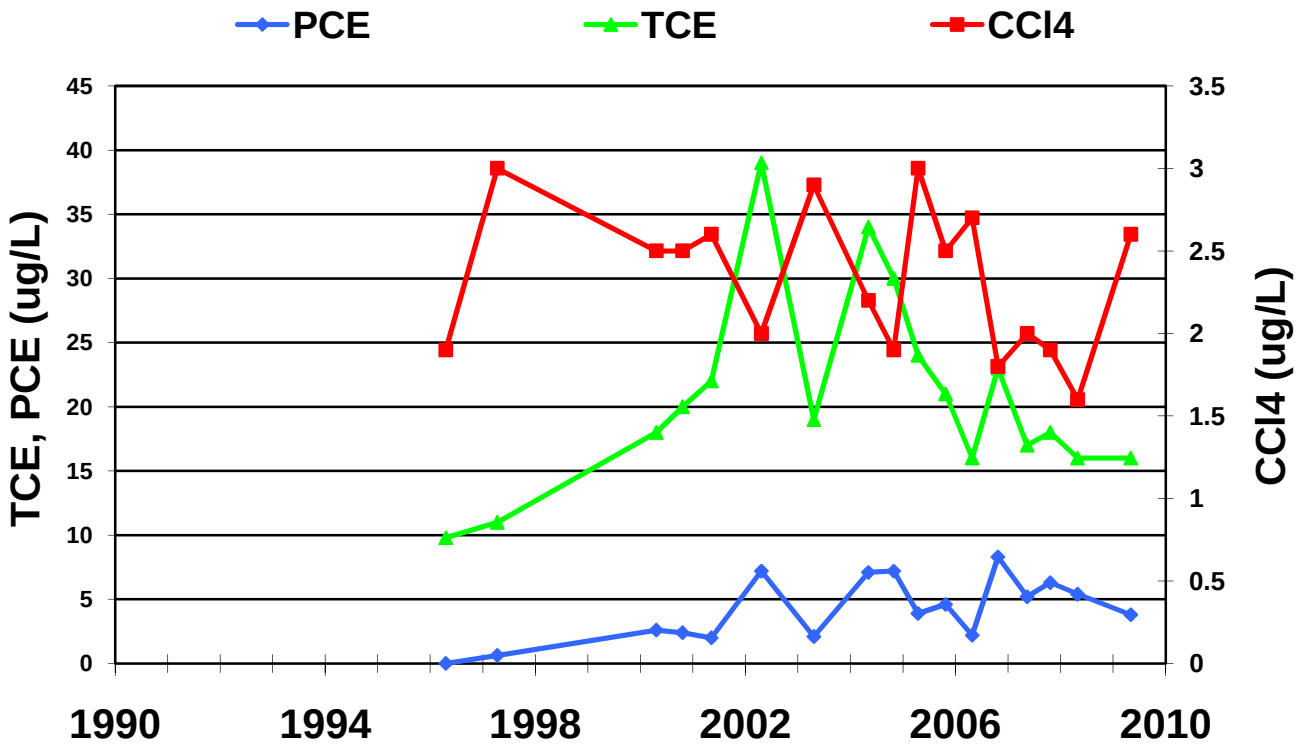

MAFB-211
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
100
90
80
70
60
50
40
30
20
10
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-212
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

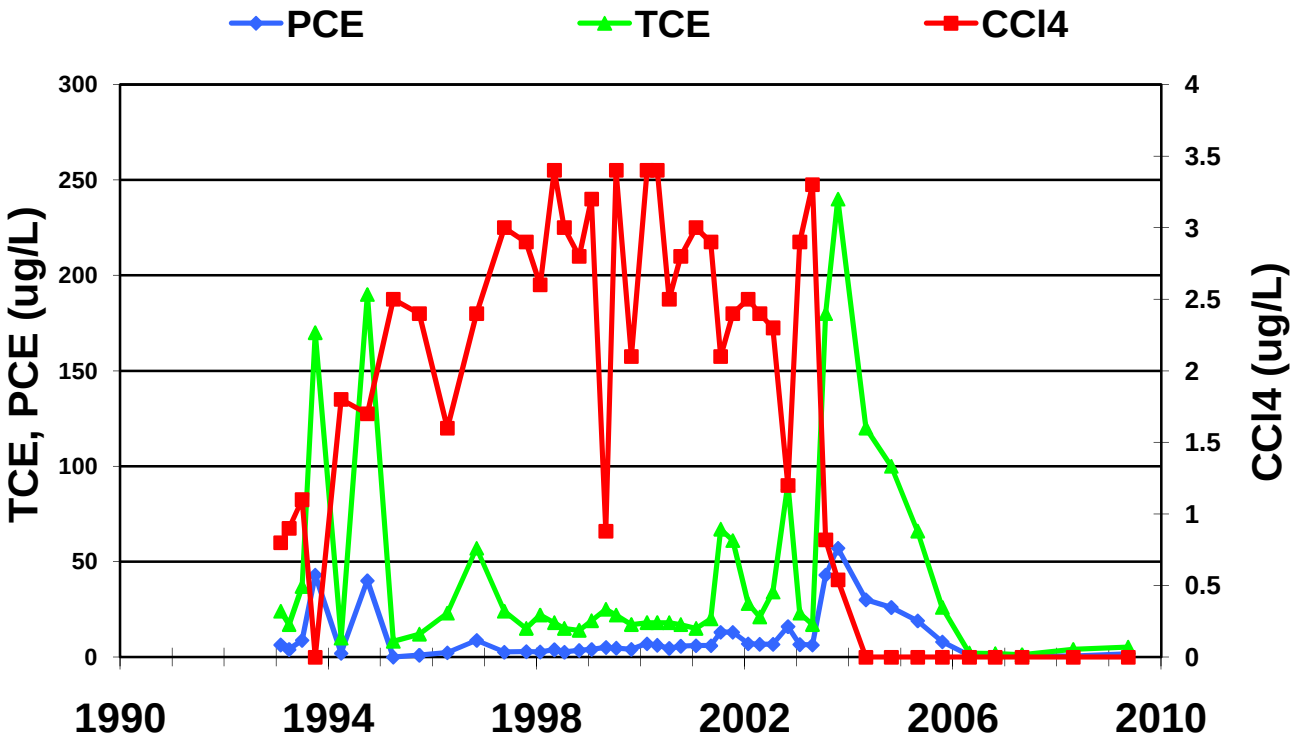

MAFB-213
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

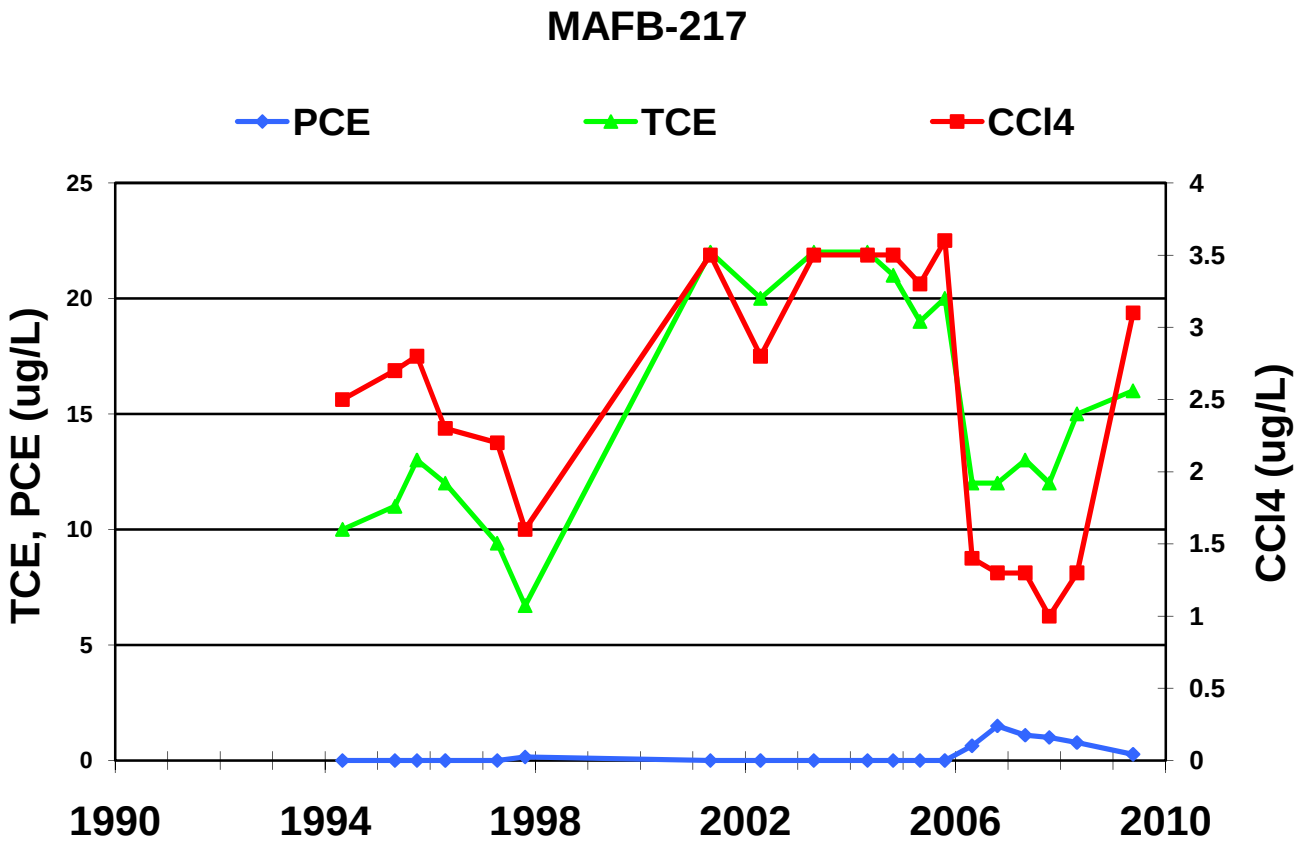

MAFB-214
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
50
100
150
200
250
300
350
400
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

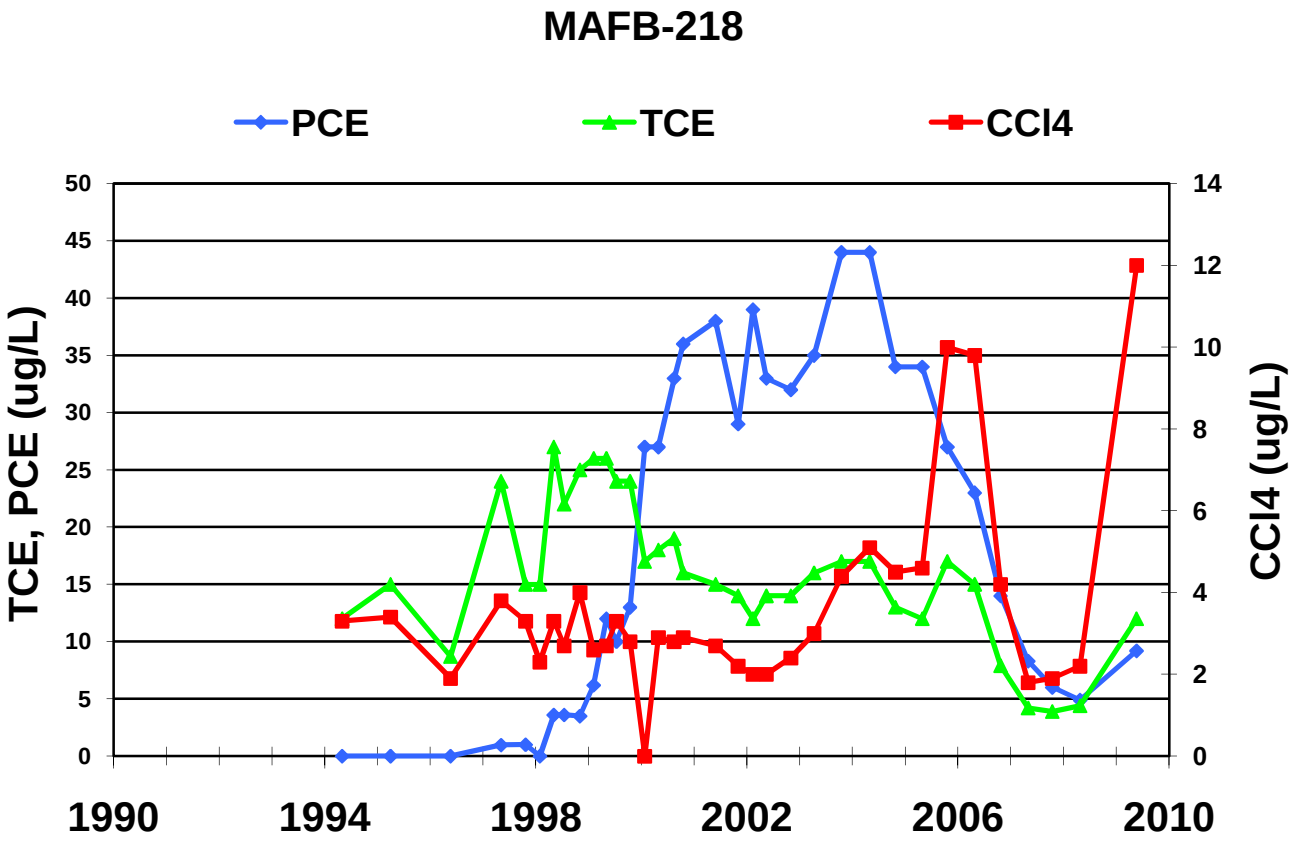
MAFB-215

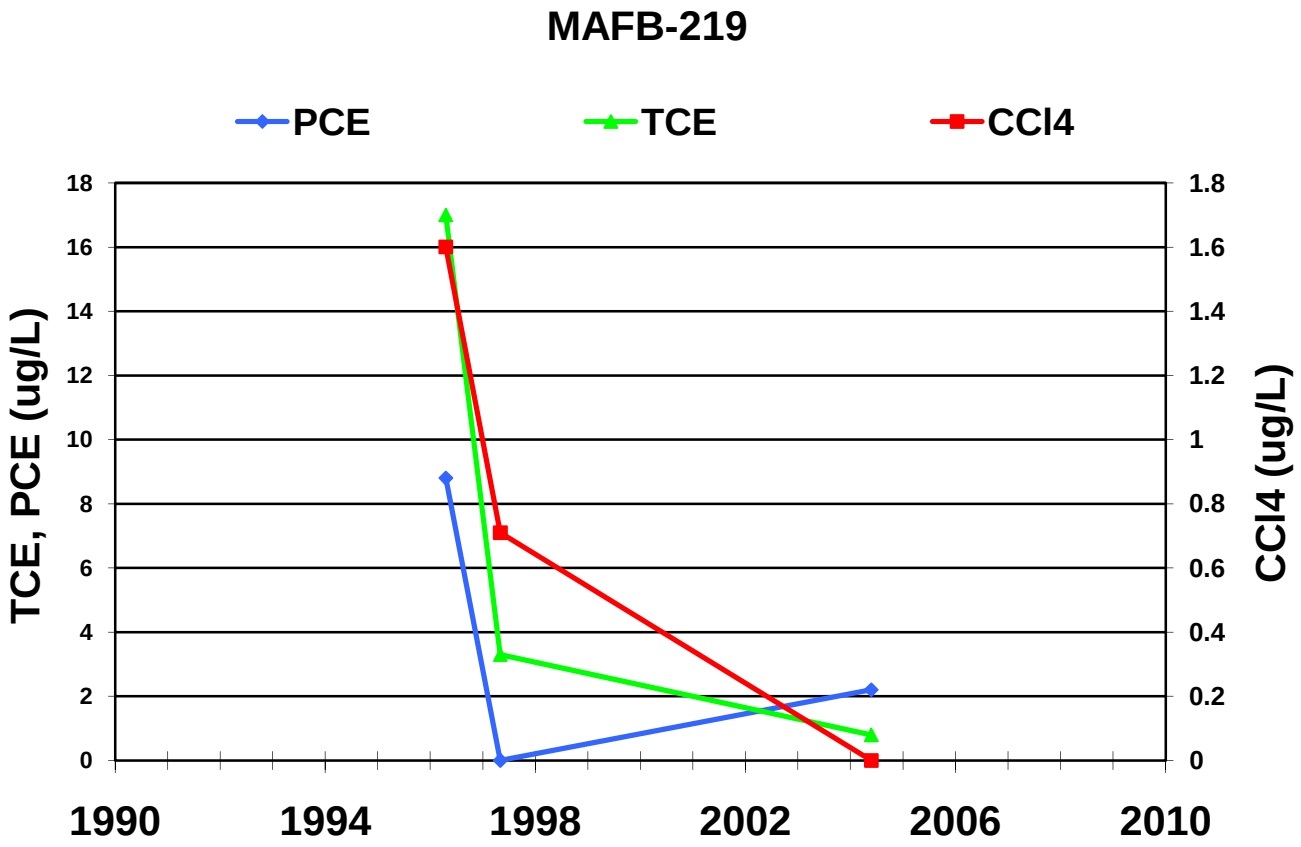


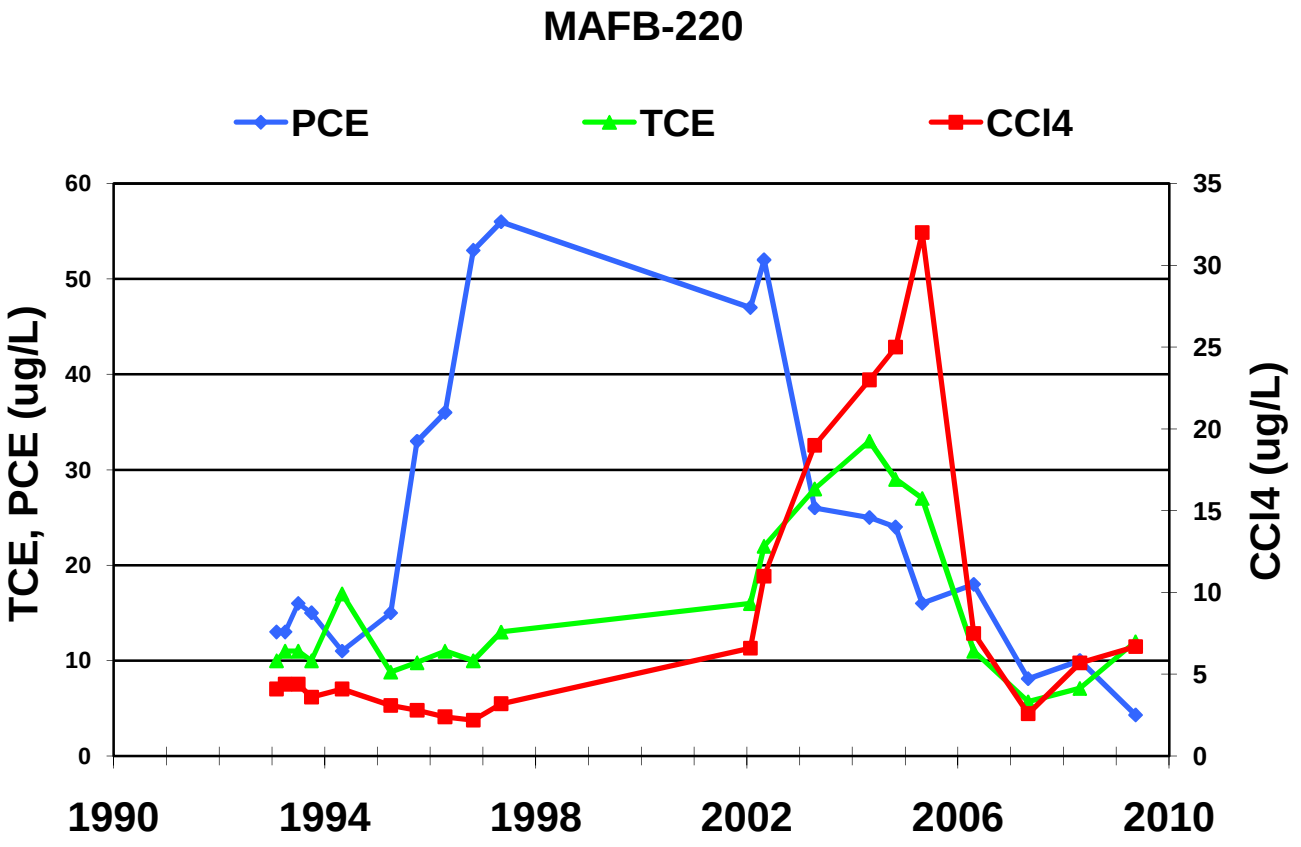
MAFB-216

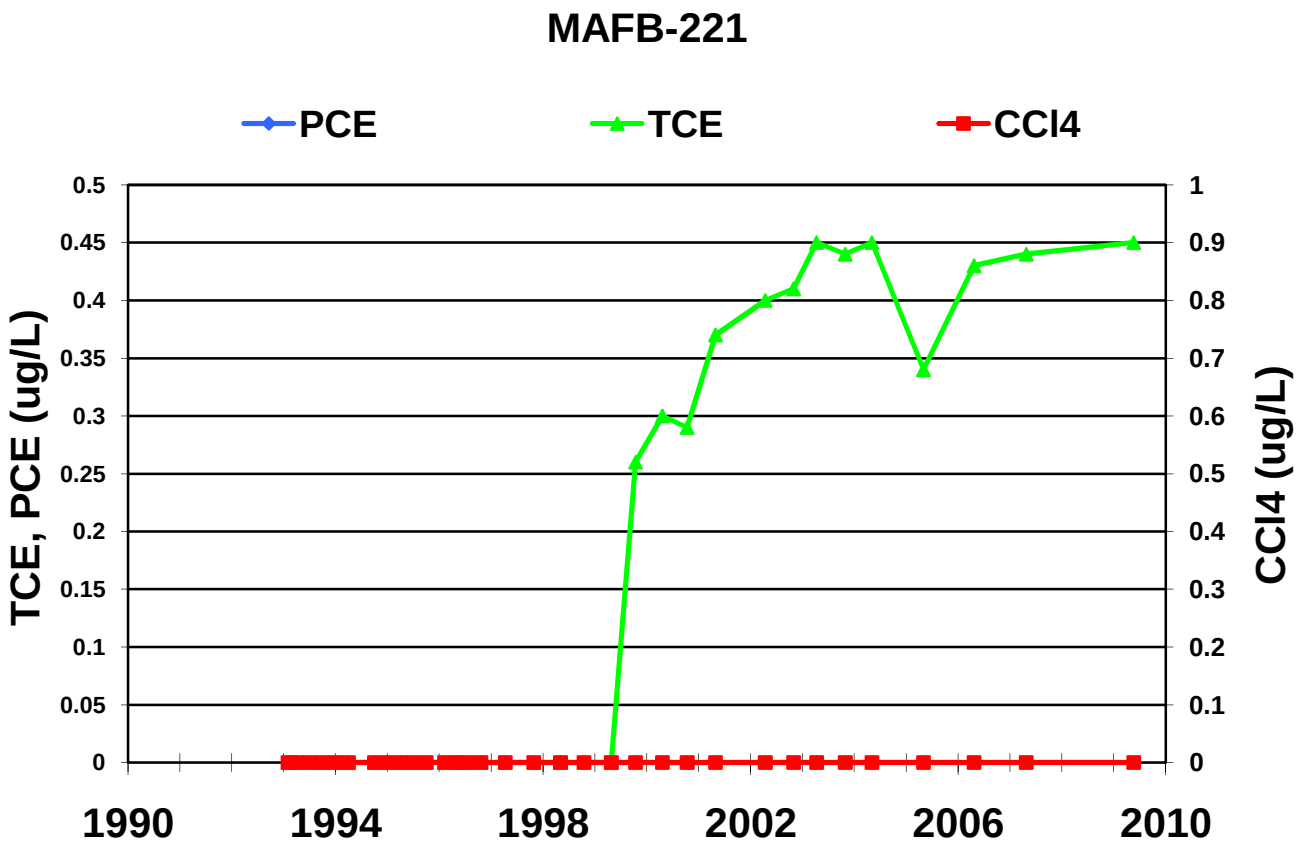


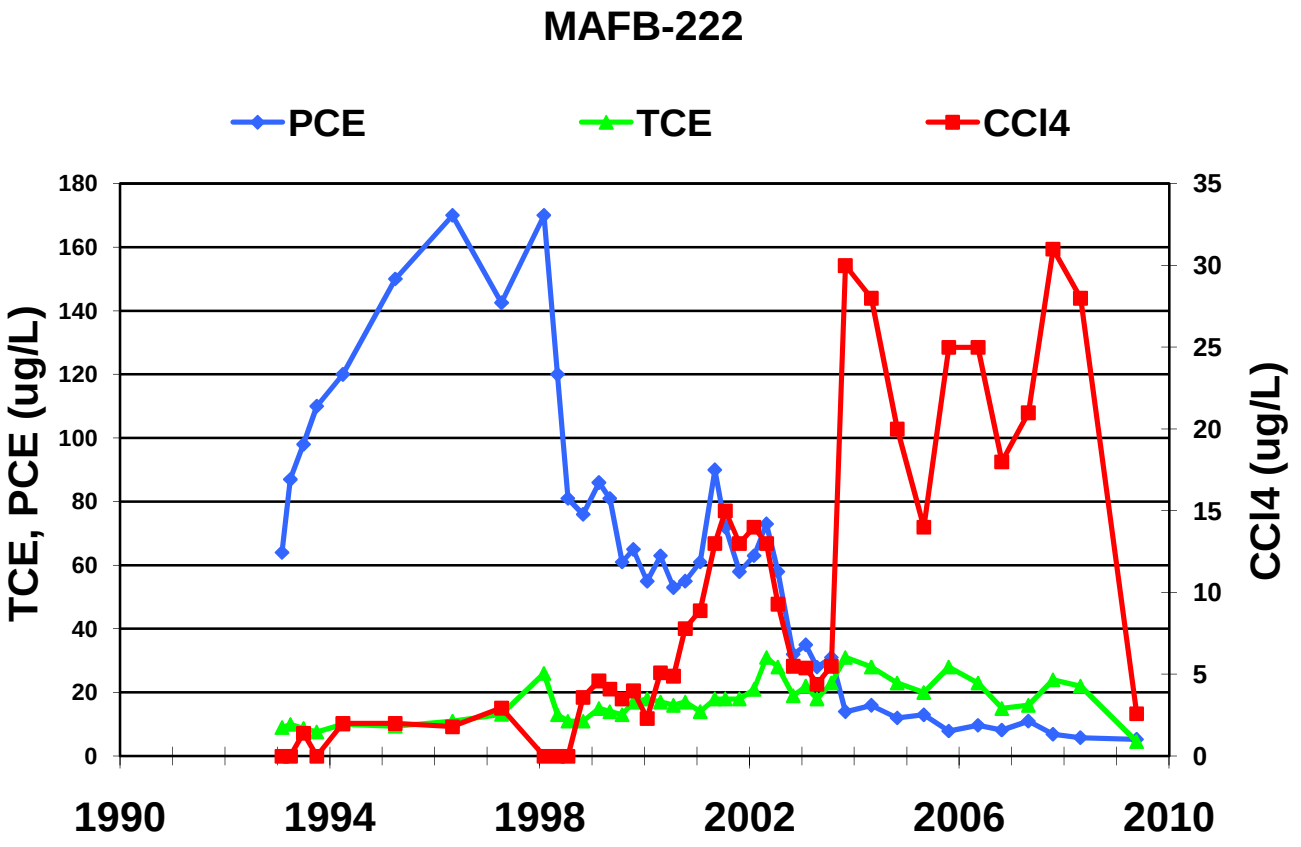

MAFB-217
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

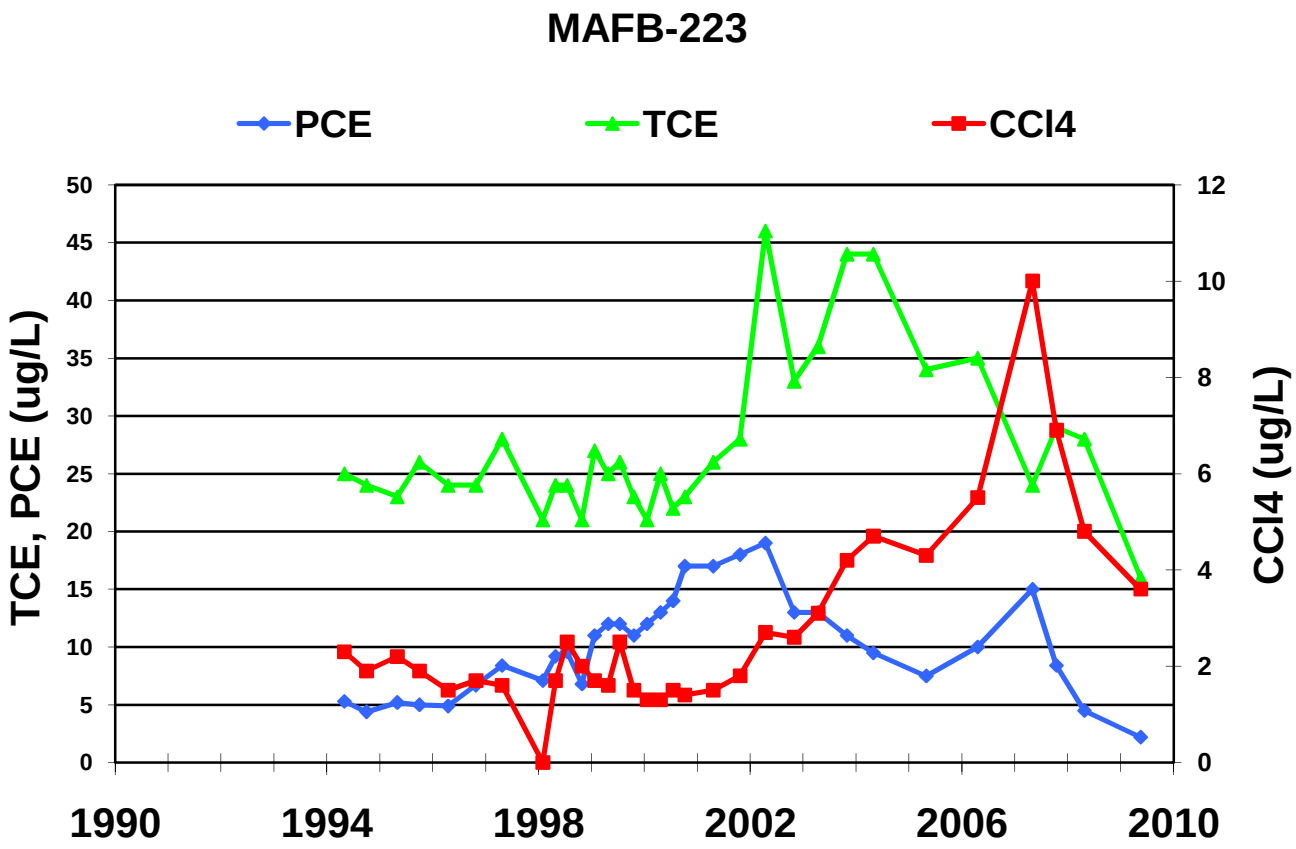

MAFB-218
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
50
45
40
35
30
25
20
15
10
5
0
14
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

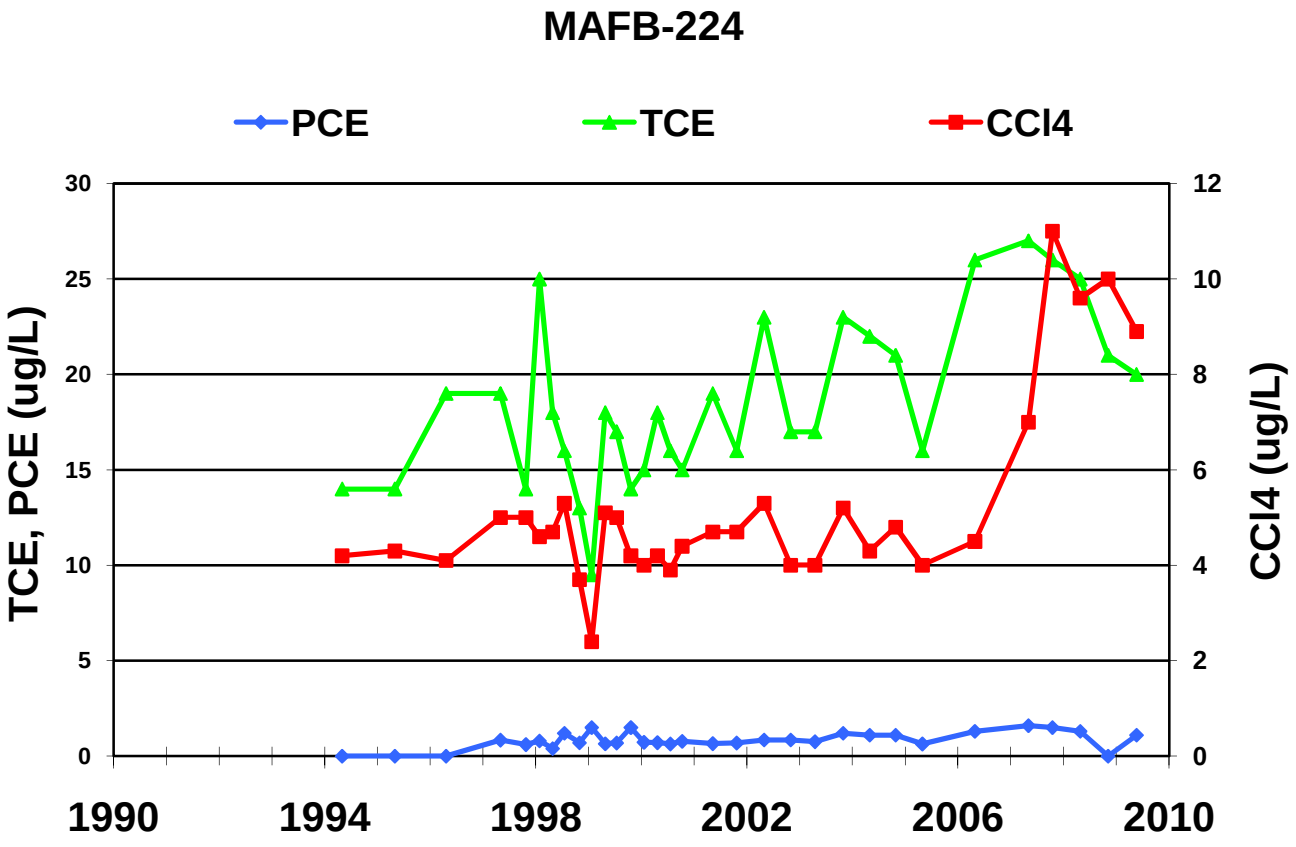

MAFB-219
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
18
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
1990
1994
1998
2002
2006
2010

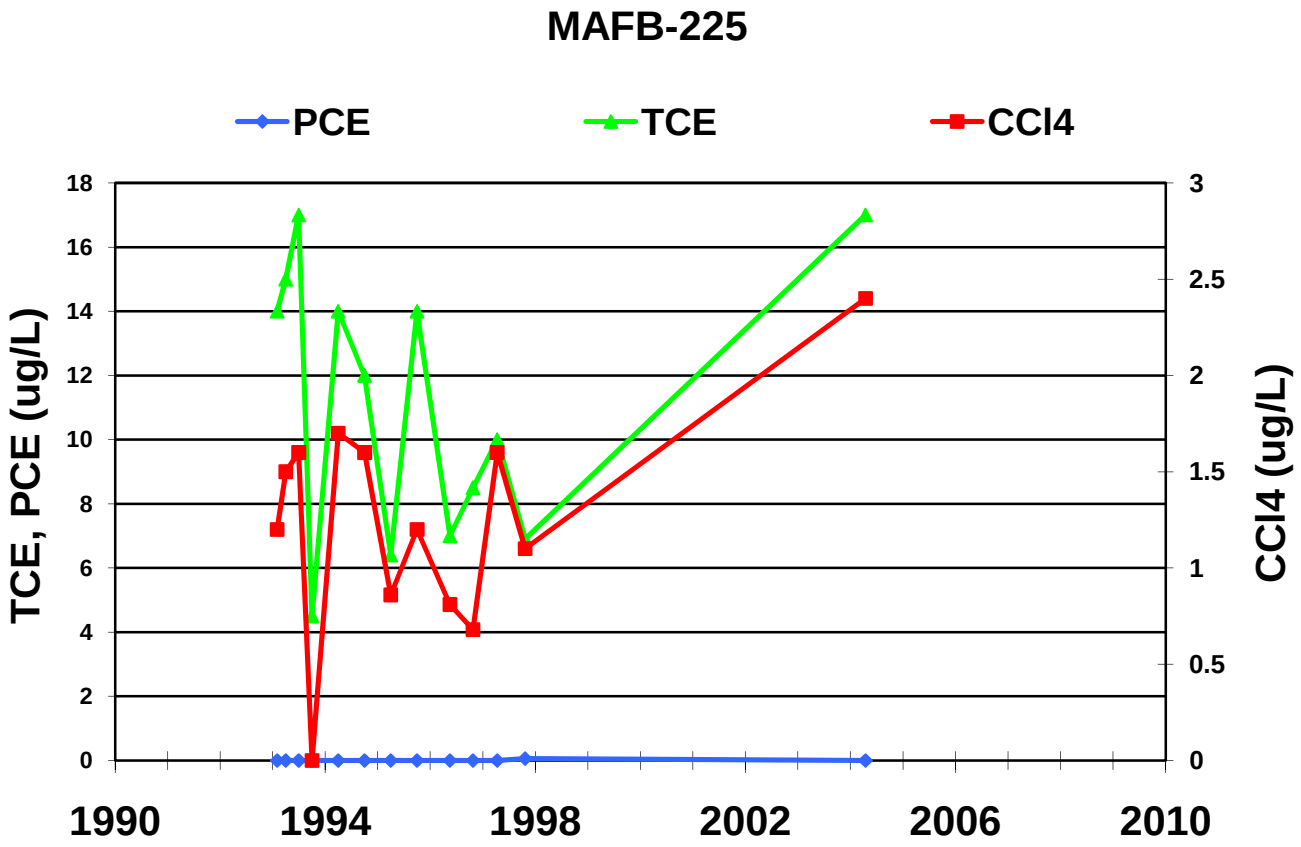

MAFB-220
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
0
5
10
15
20
25
30
35
1990
1994
1998
2002
2006
2010

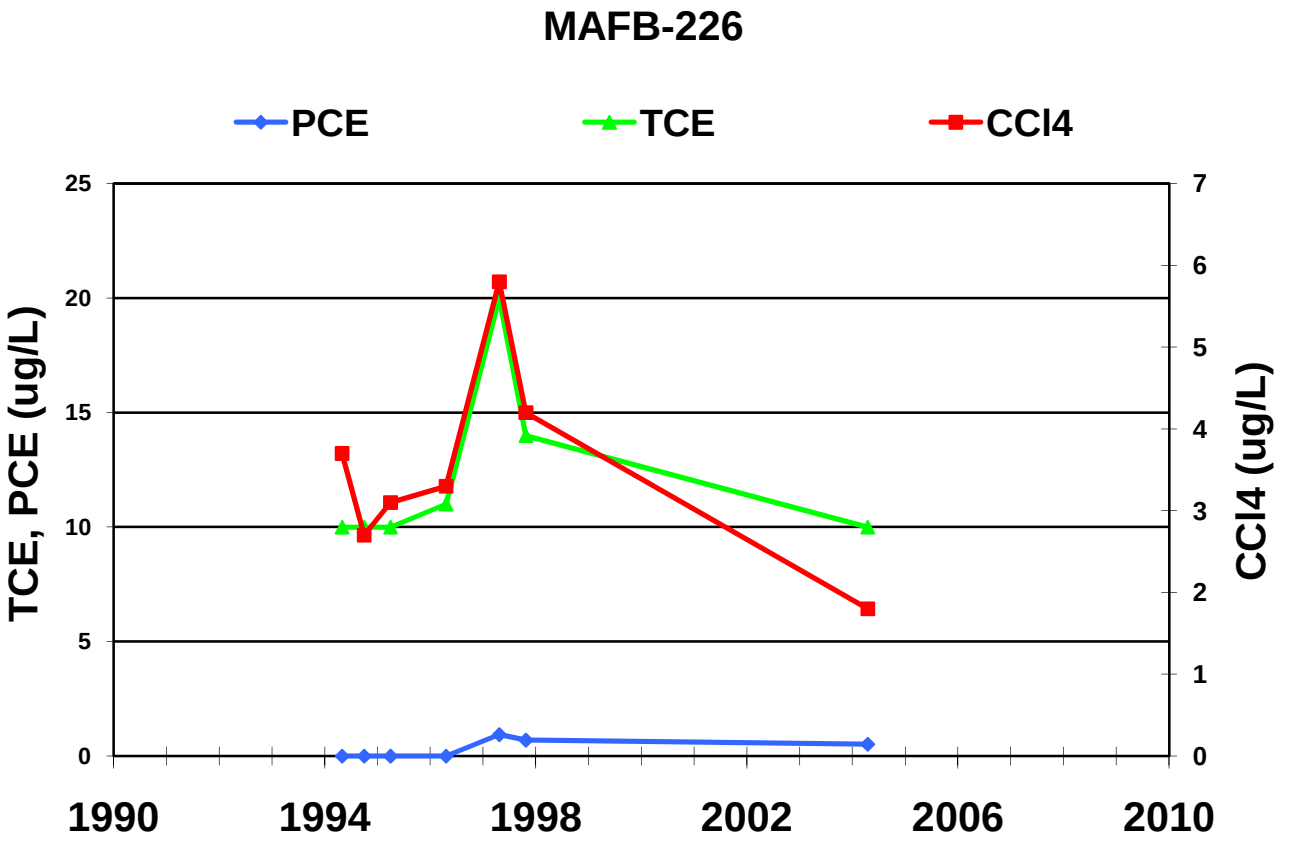

MAFB-221
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

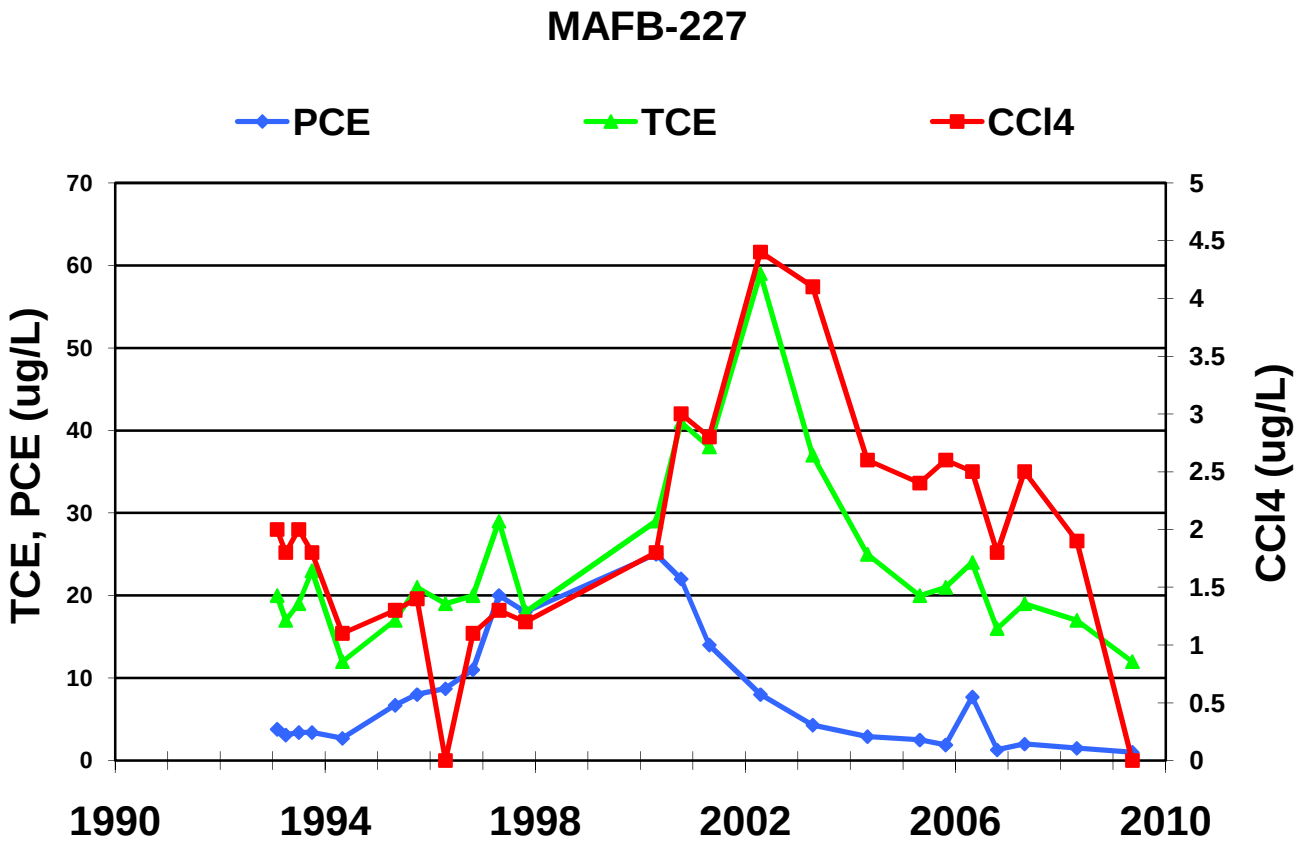

MAFB-222
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
180
160
140
120
100
80
60
40
20
0
35
30
25
20
15
10
5
0
1990
1994
1998
2002
2006
2010

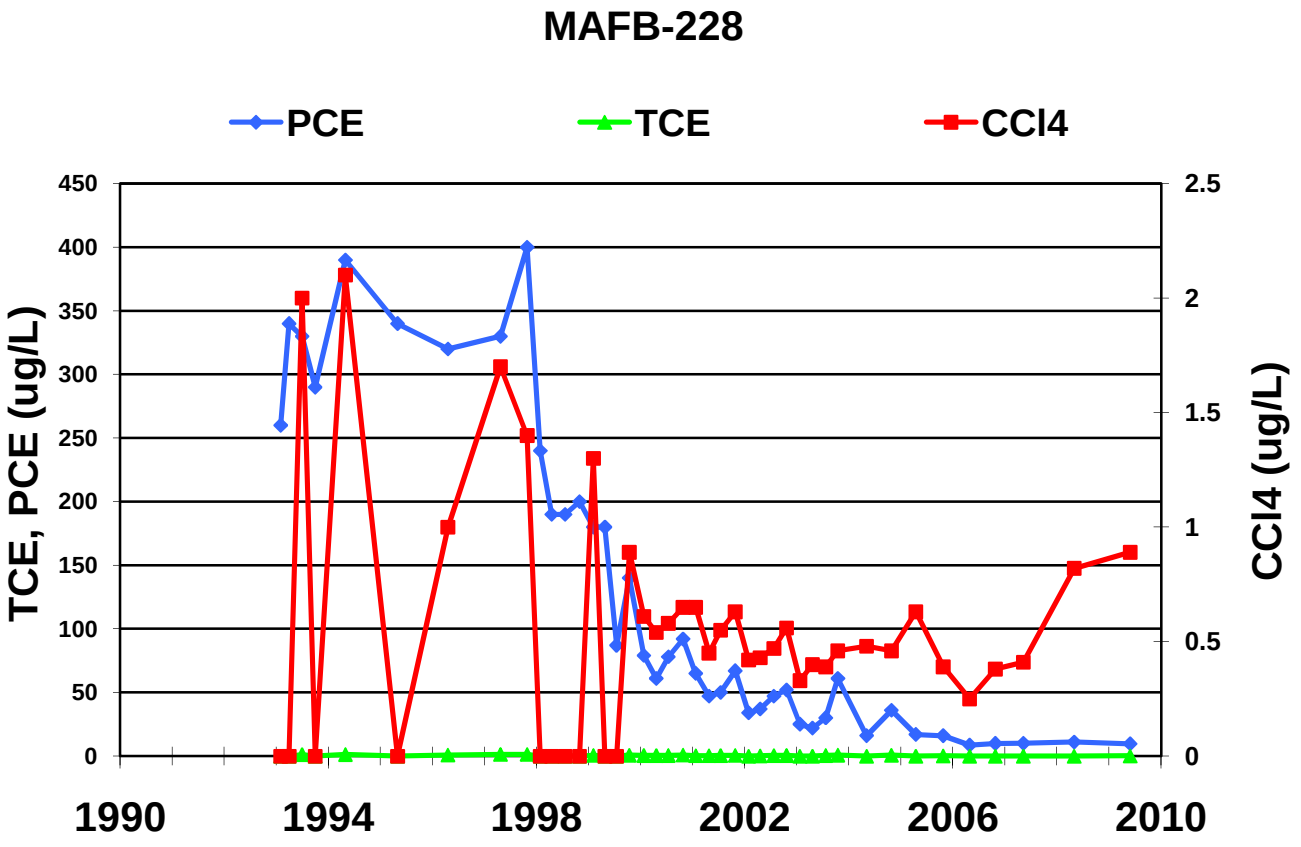

MAFB-223
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
45
50
0
2
4
6
8
10
12
1990
1994
1998
2002
2006
2010

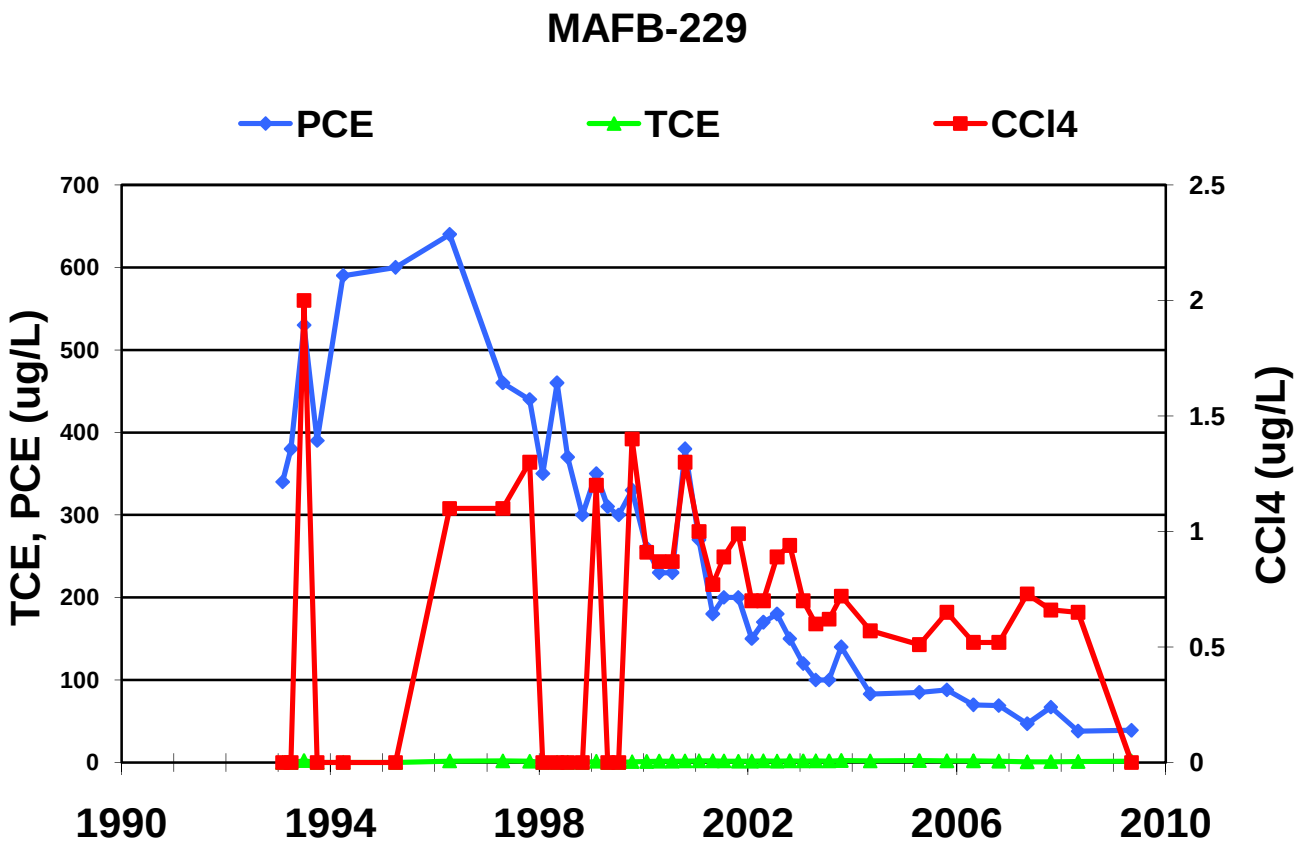

MAFB-224
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
0
2
4
6
8
10
12
1990
1994
1998
2002
2006
2010

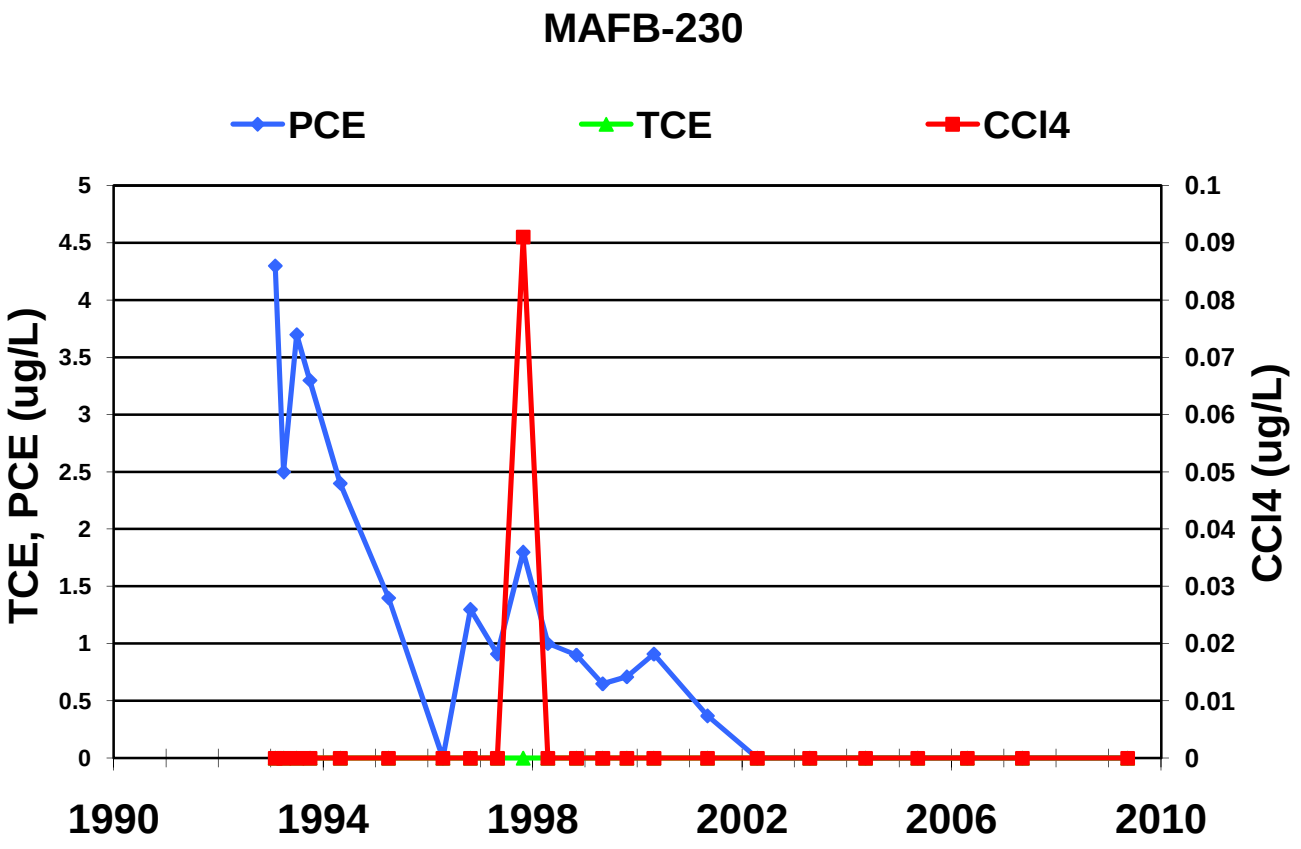

MAFB-225
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
18
0
0.5
1
1.5
2
2.5
3
1990
1994
1998
2002
2006
2010


MAFB-226
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
0
1
2
3
4
5
6
7
1990
1994
1998
2002
2006
2010

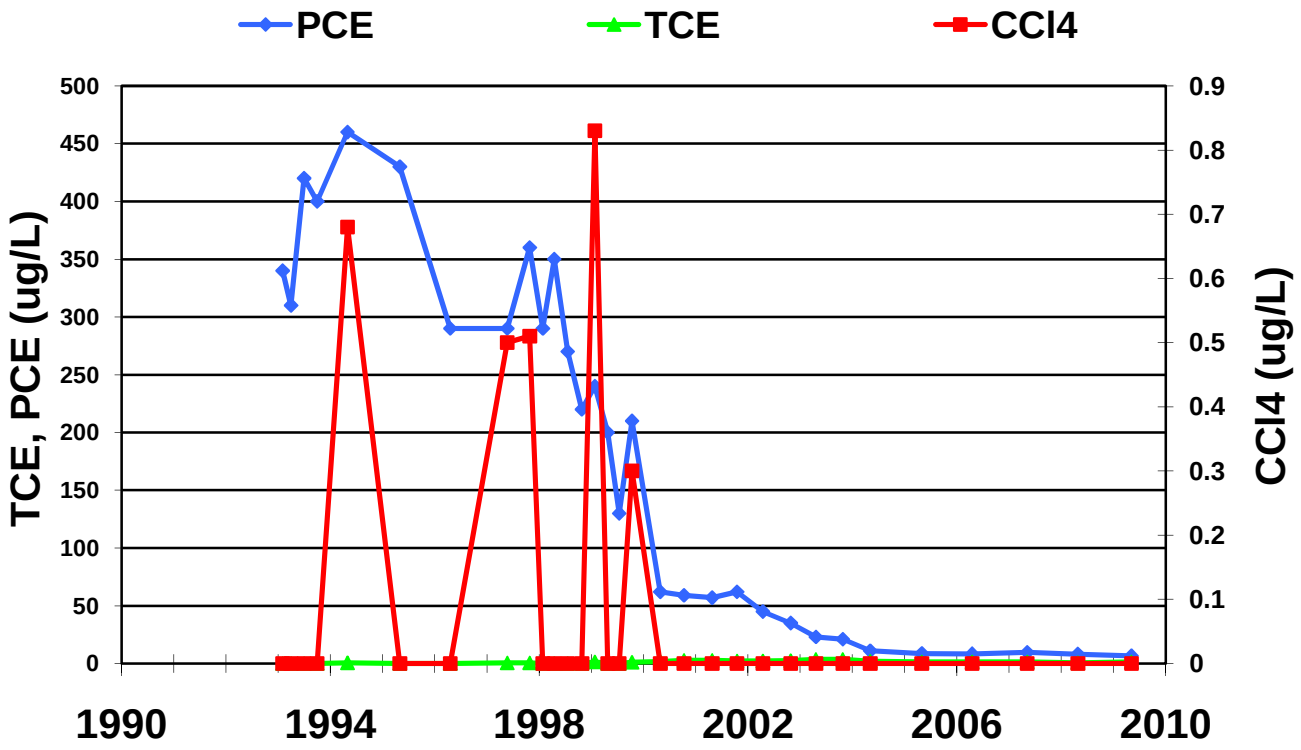

MAFB-227
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-228
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
450
400
350
300
250
200
150
100
50
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

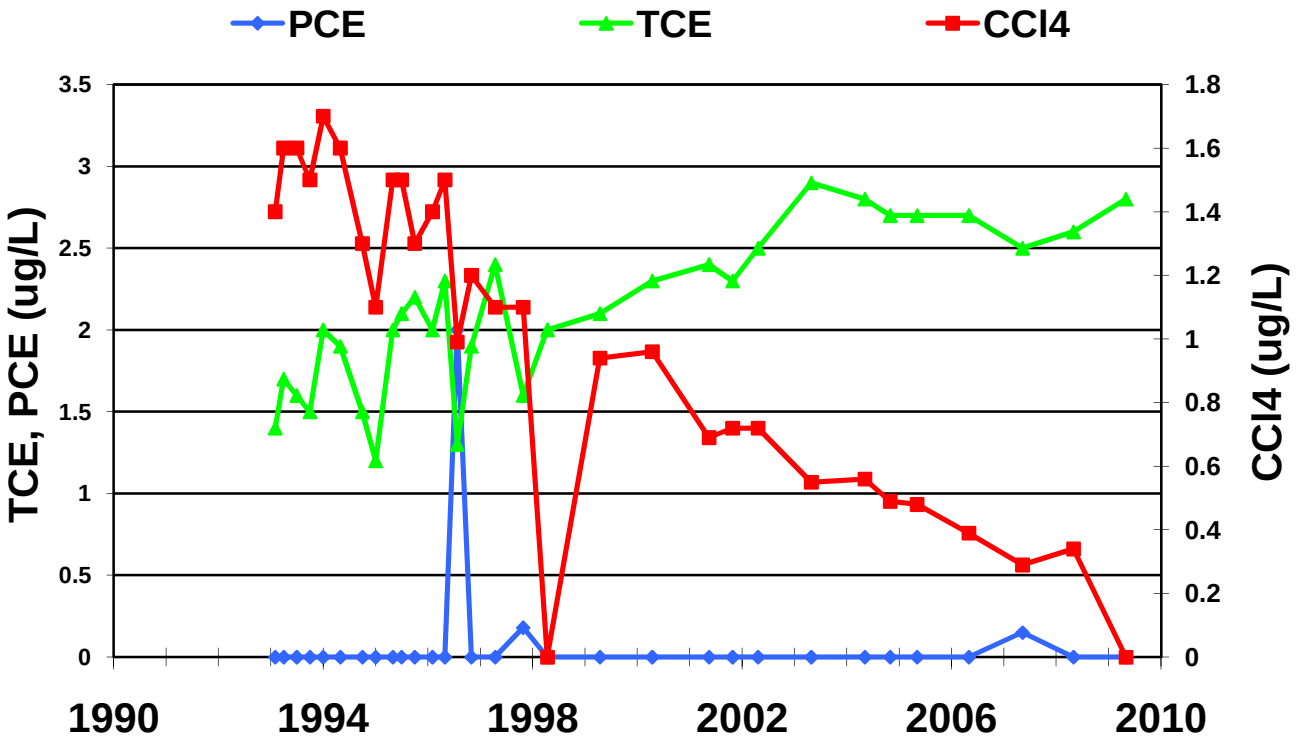

MAFB-229
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
700
600
500
400
300
200
100
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-230
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1990
1994
1998
2002
2006
2010

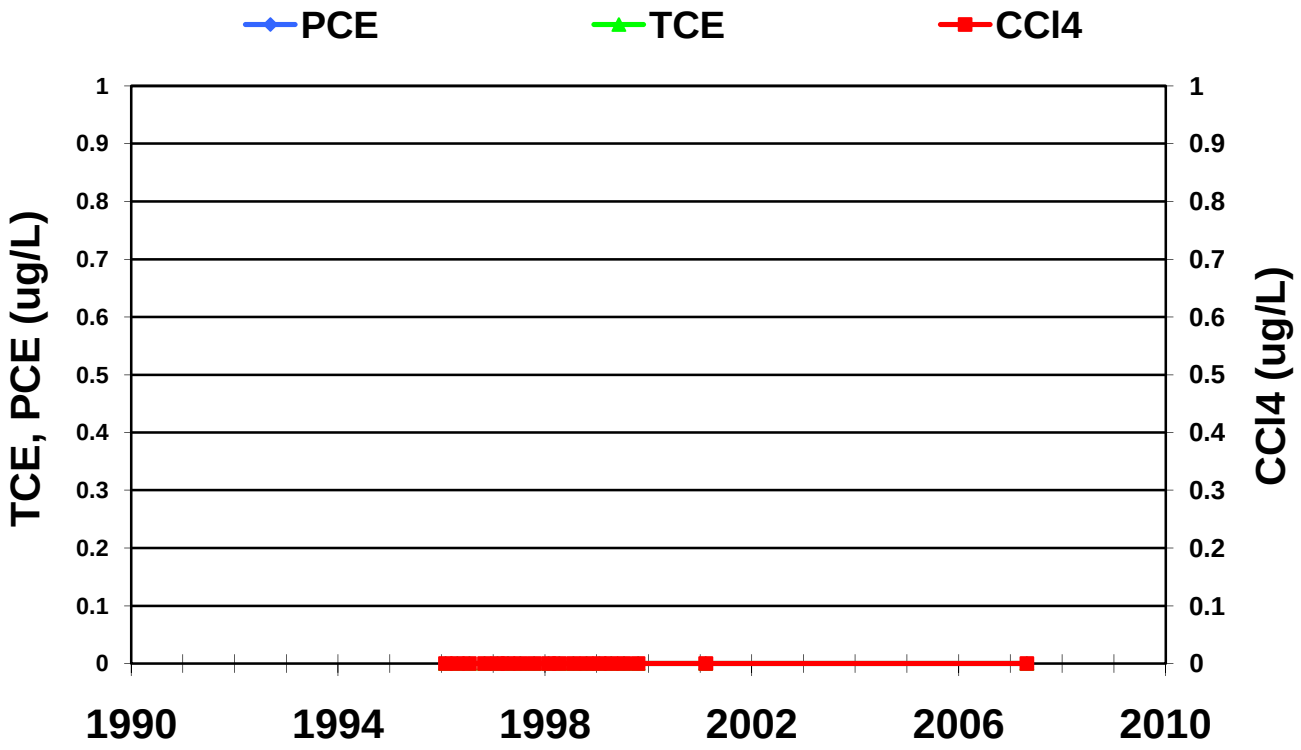
MAFB-231



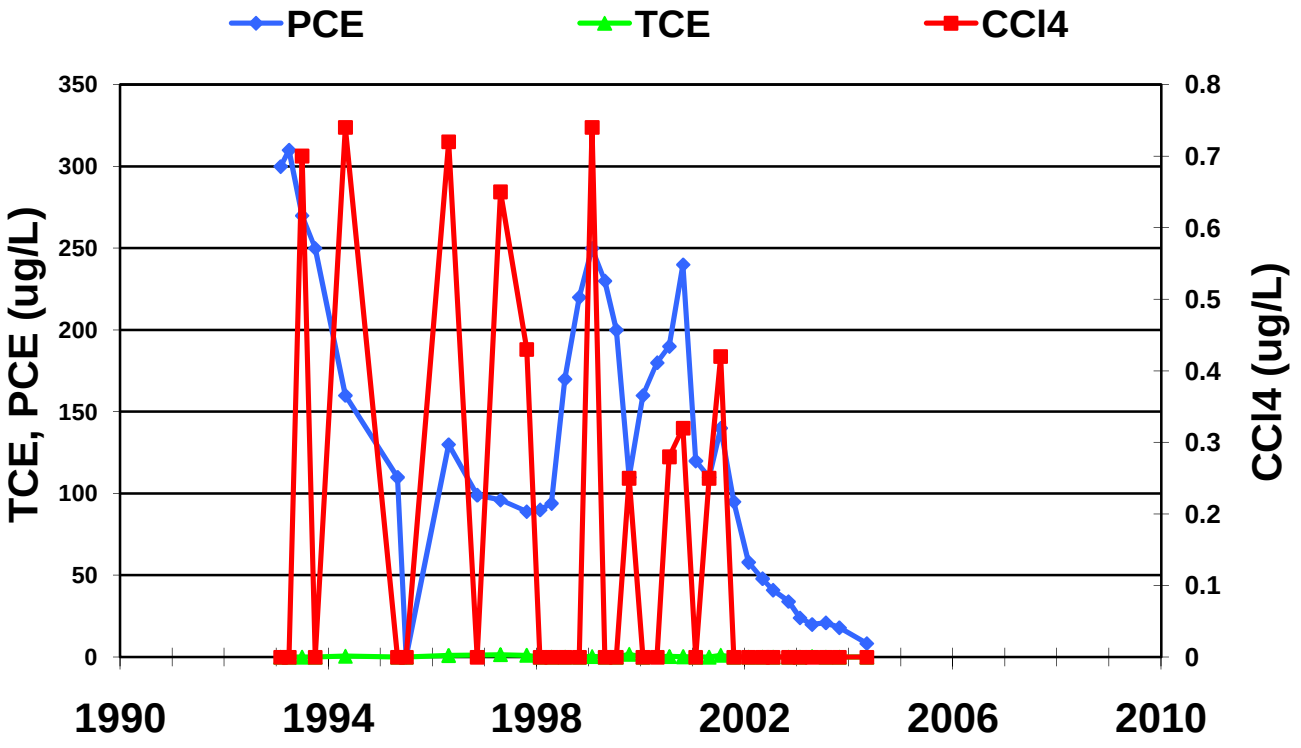
MAFB-232



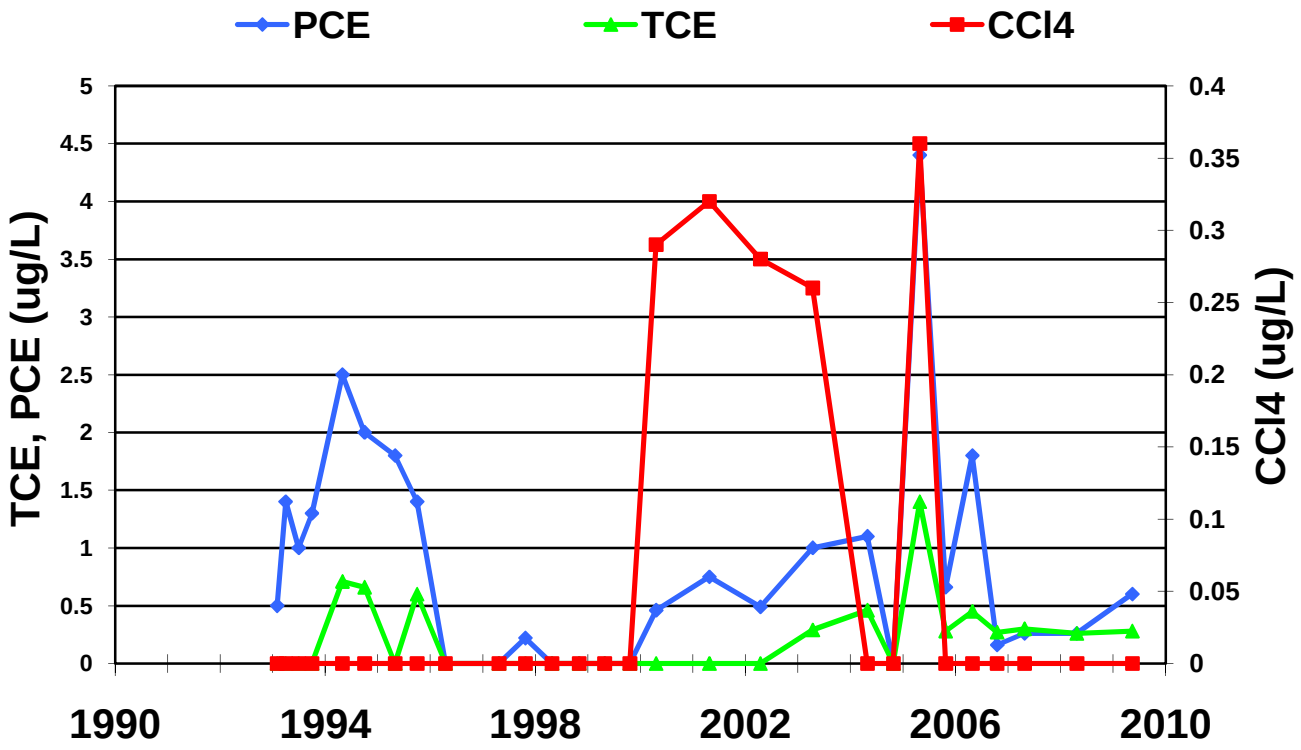
MAFB-233



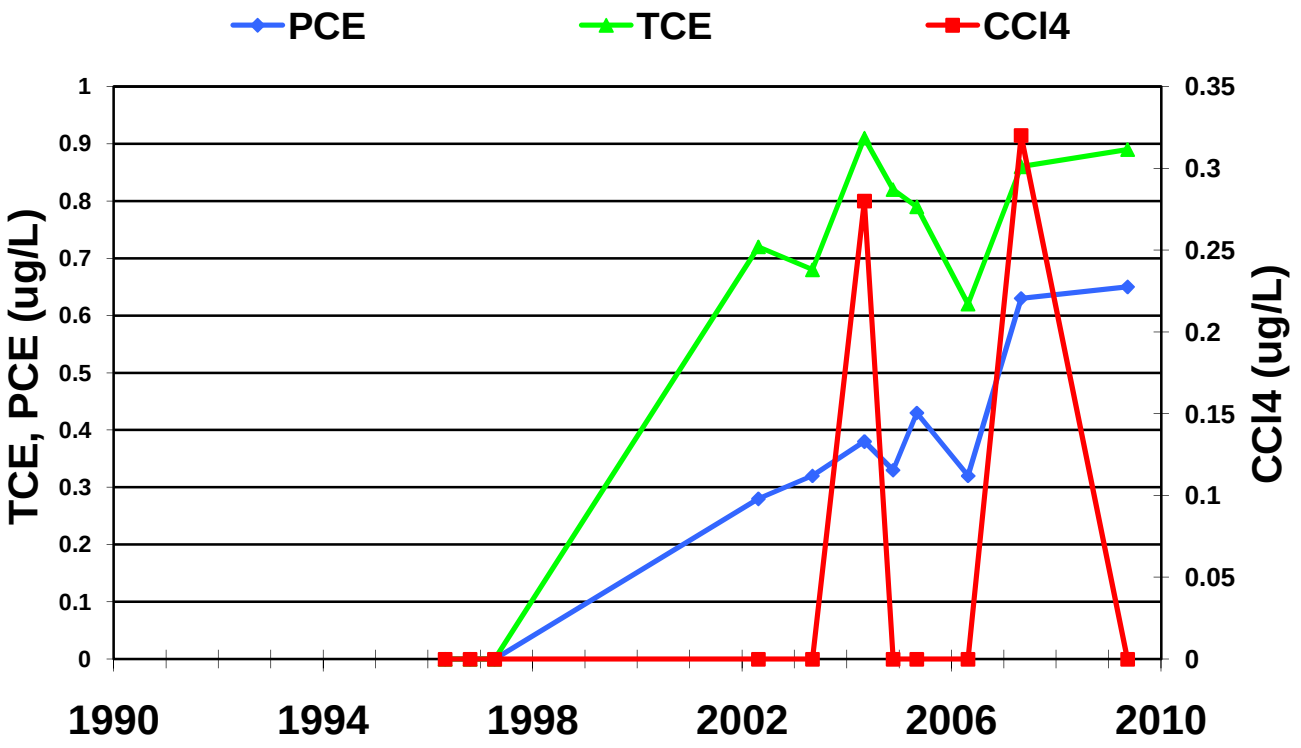
MAFB-234



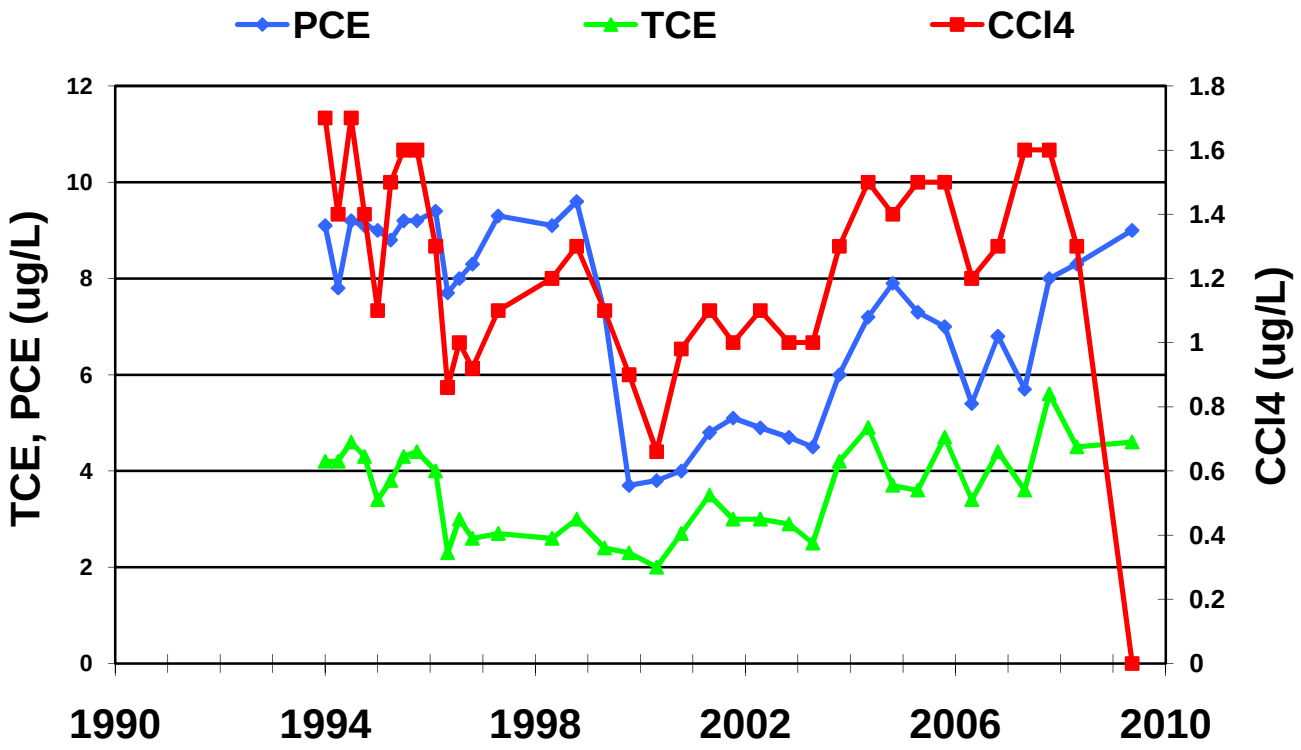
MAFB-235



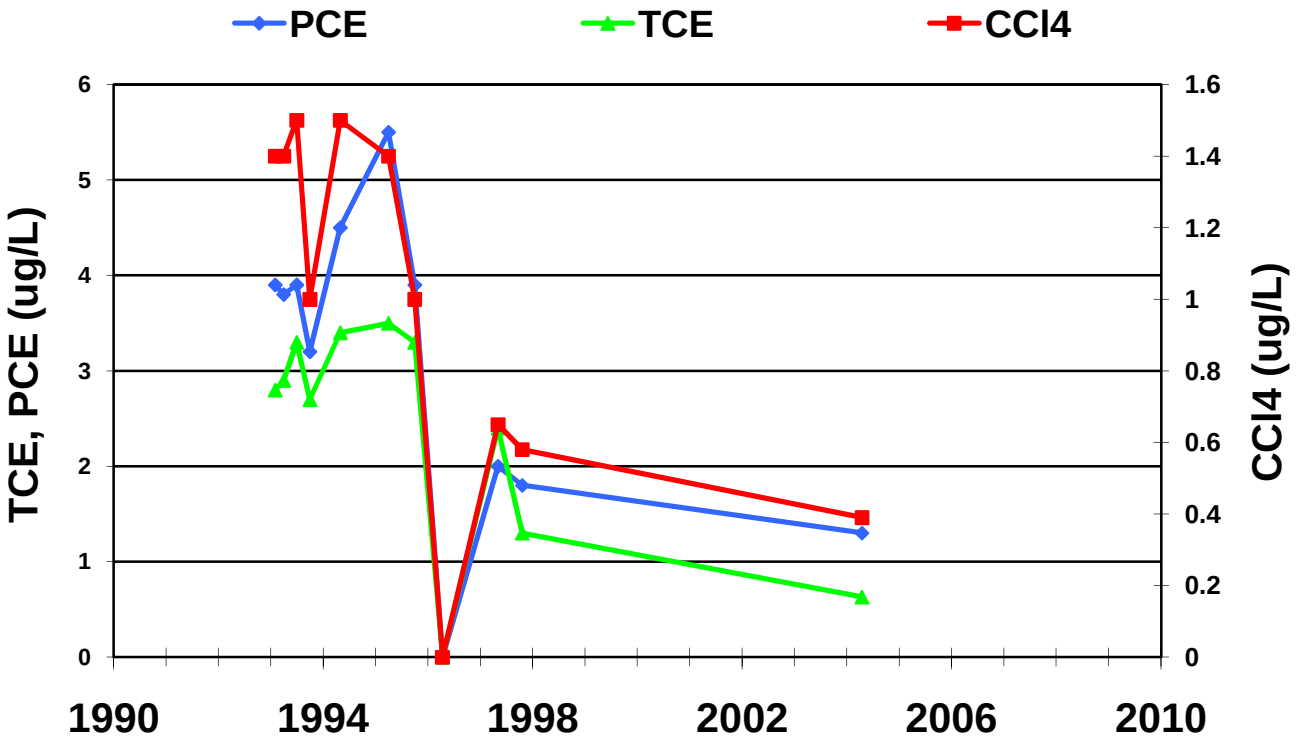
MAFB-239

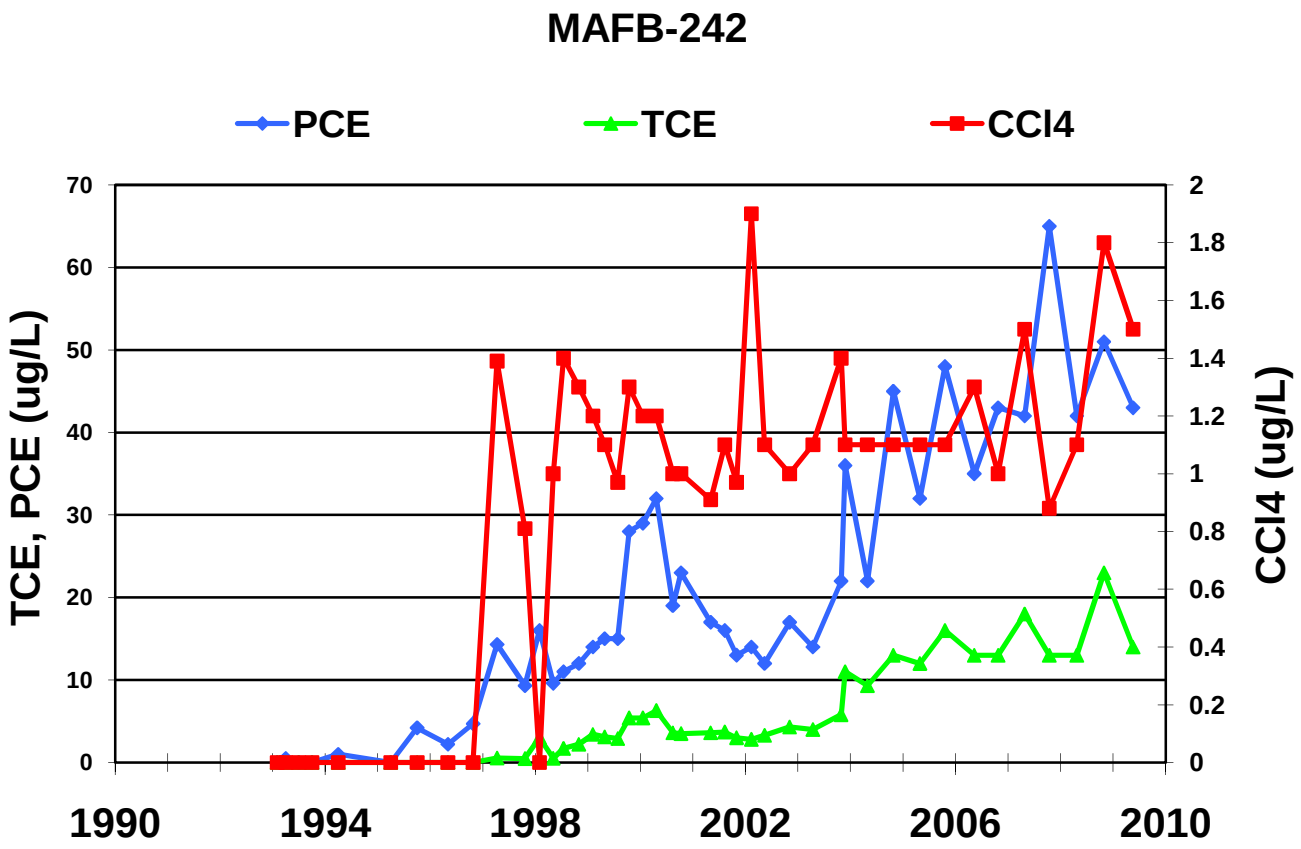


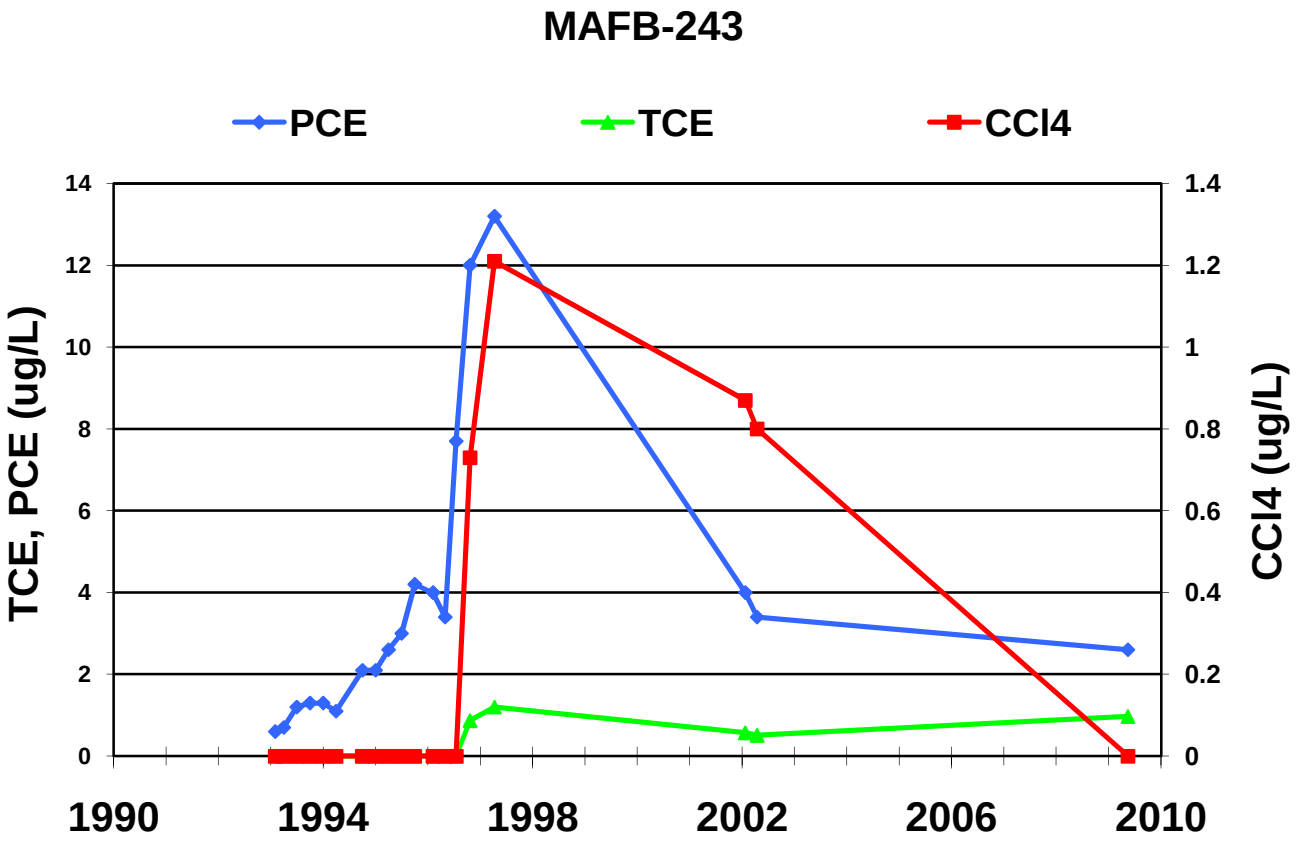
MAFB-240

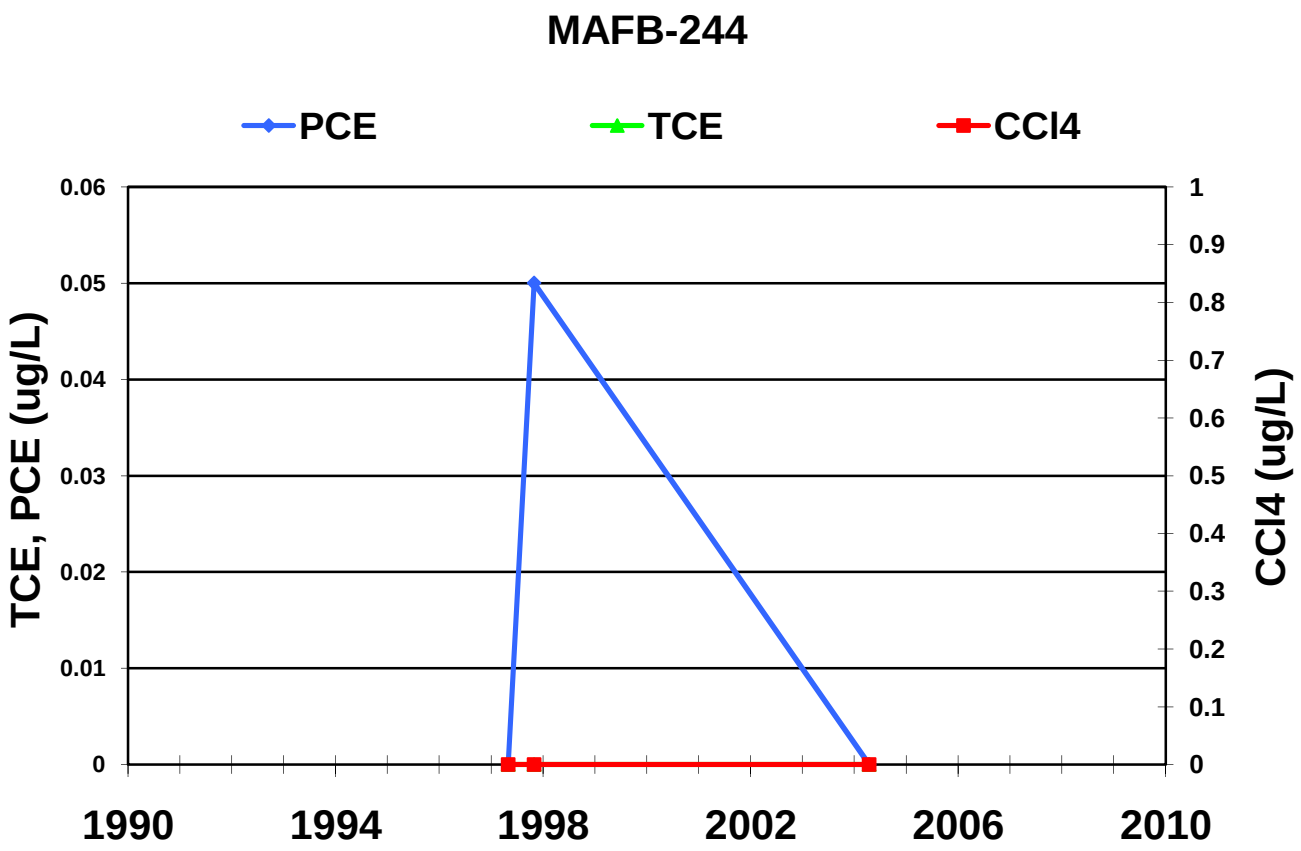


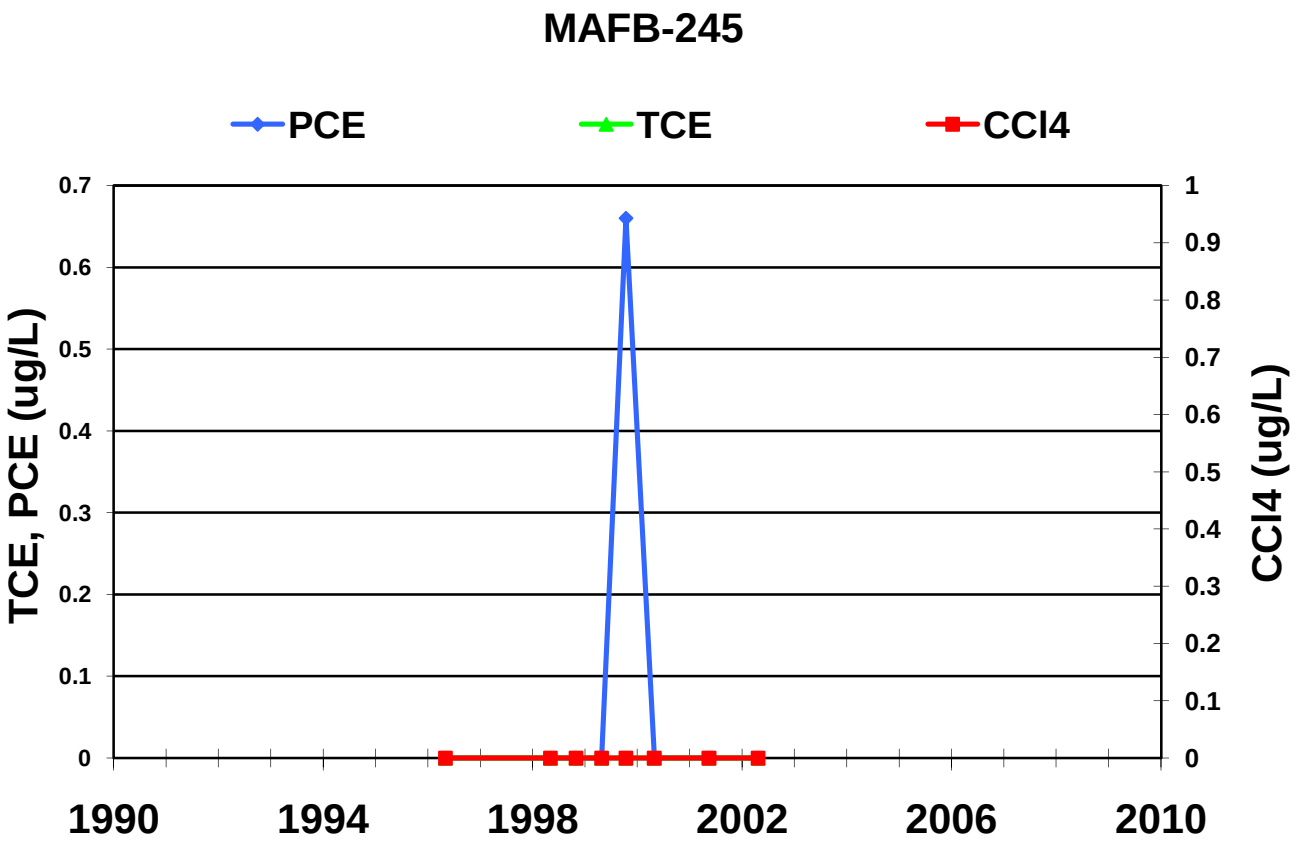
MAFB-241

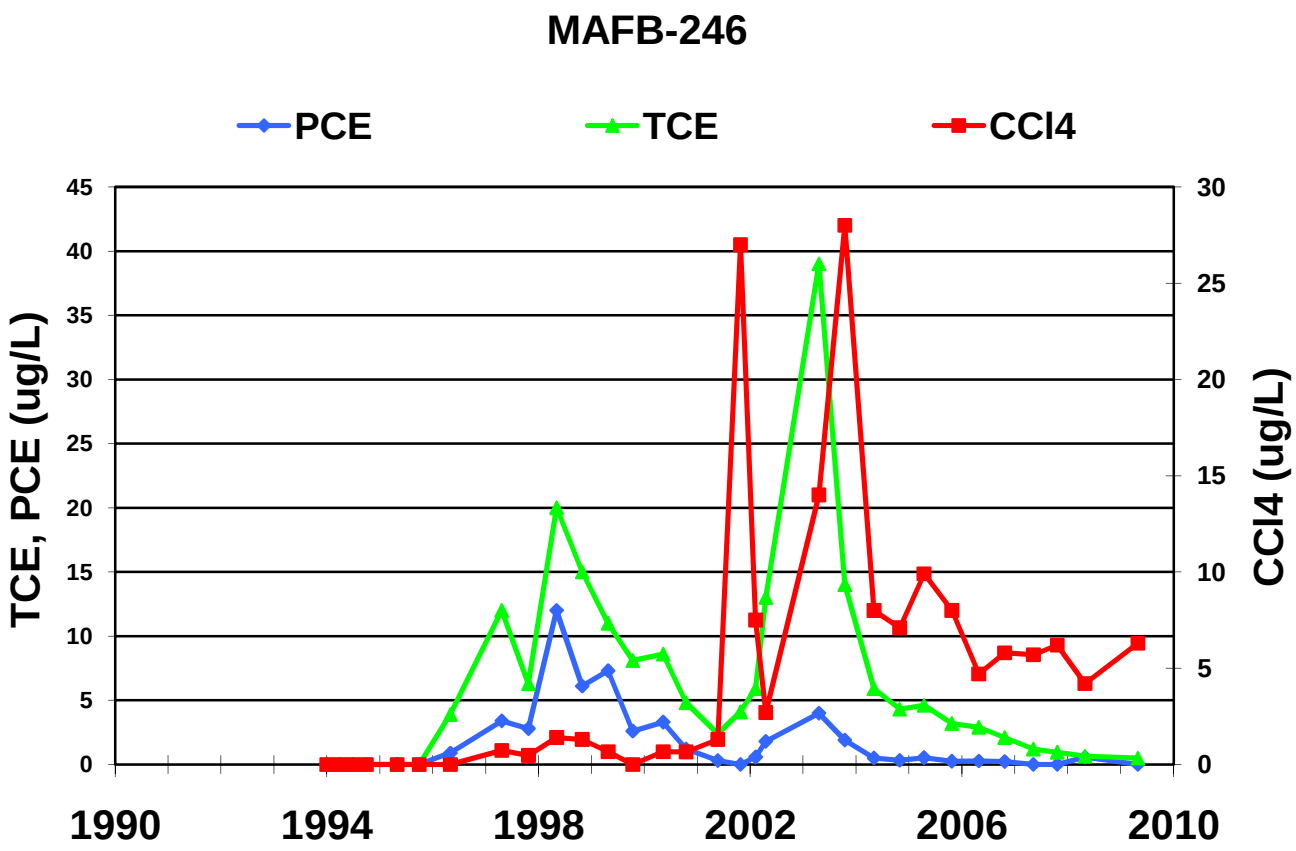


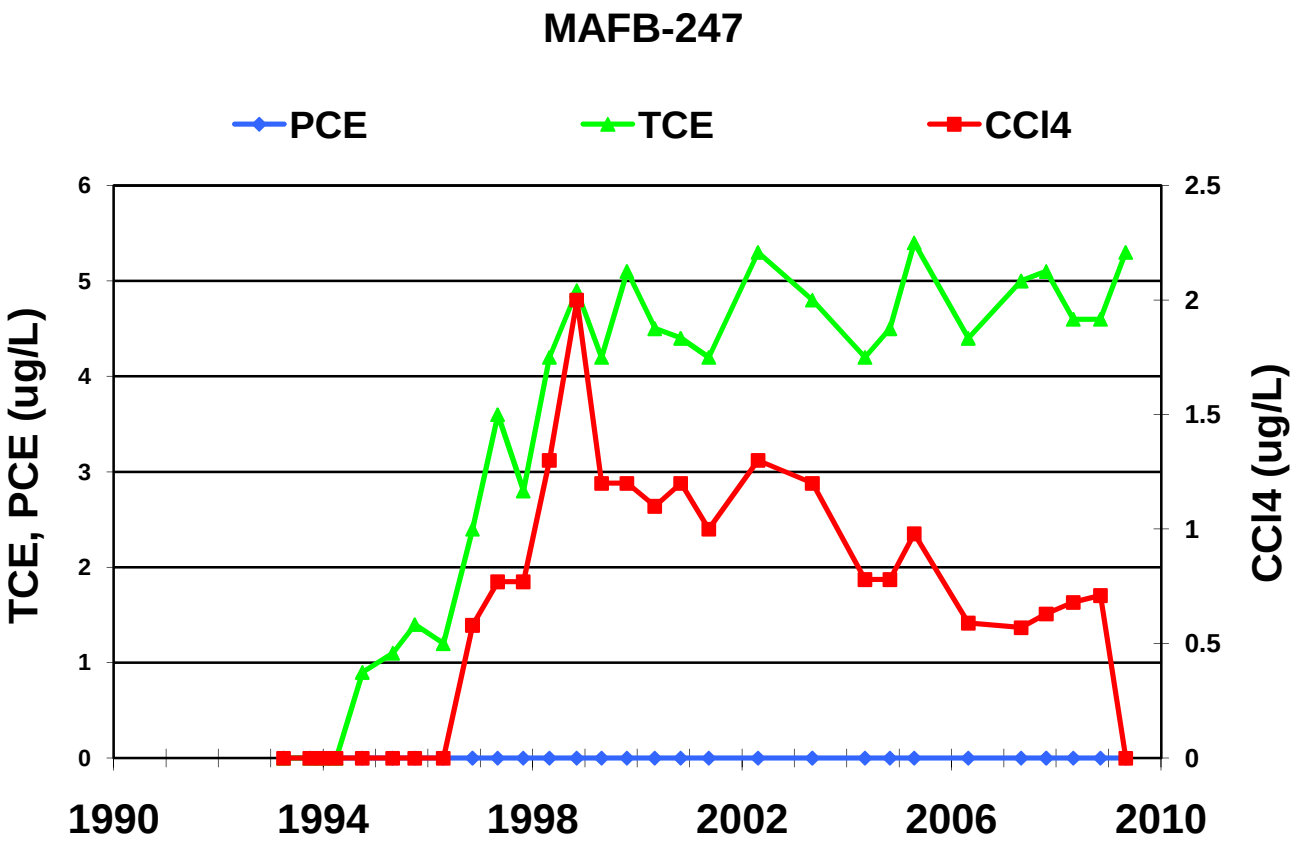

MAFB-242
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
70
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1990
1994
1998
2002
2006
2010

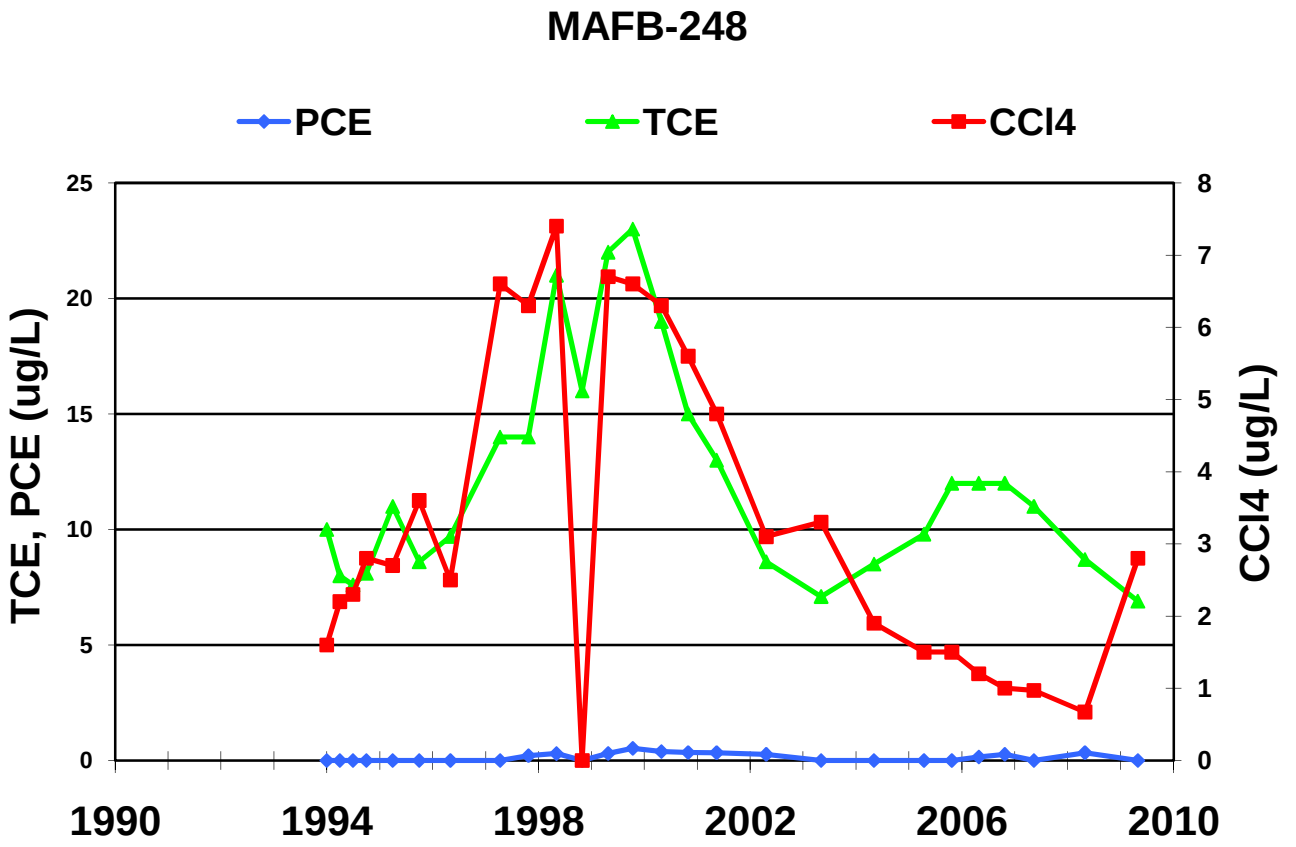

MAFB-243
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1990
1994
1998
2002
2006
2010

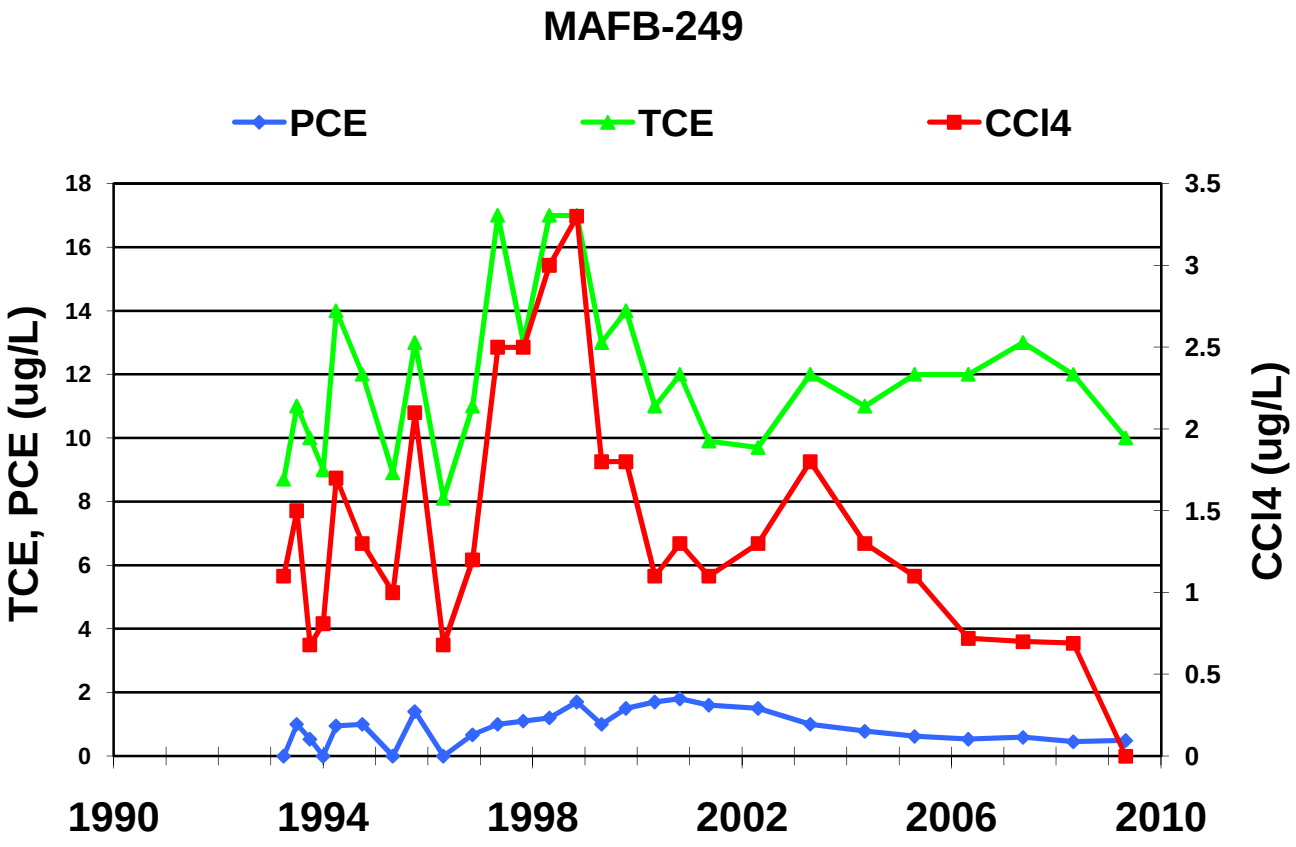

MAFB-244
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

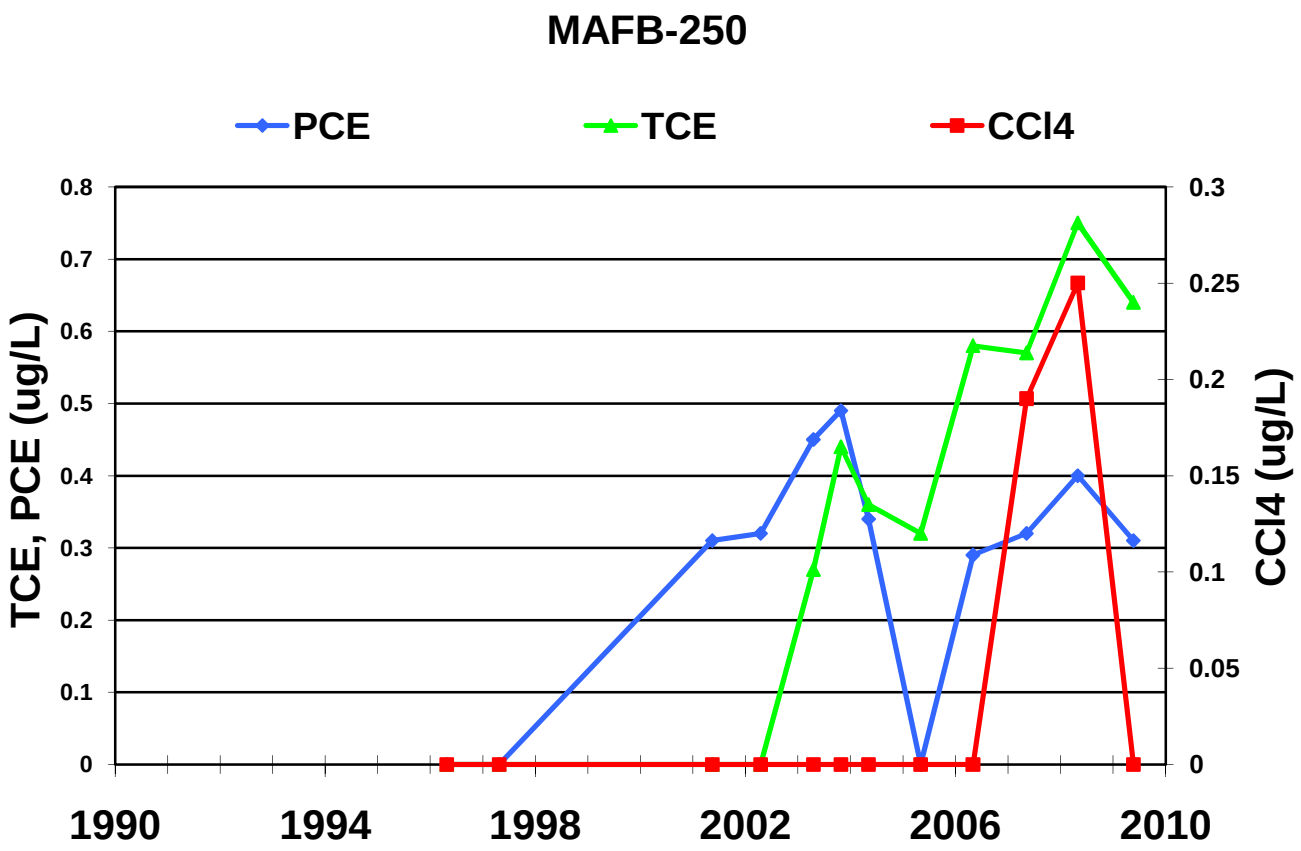

MAFB-245
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

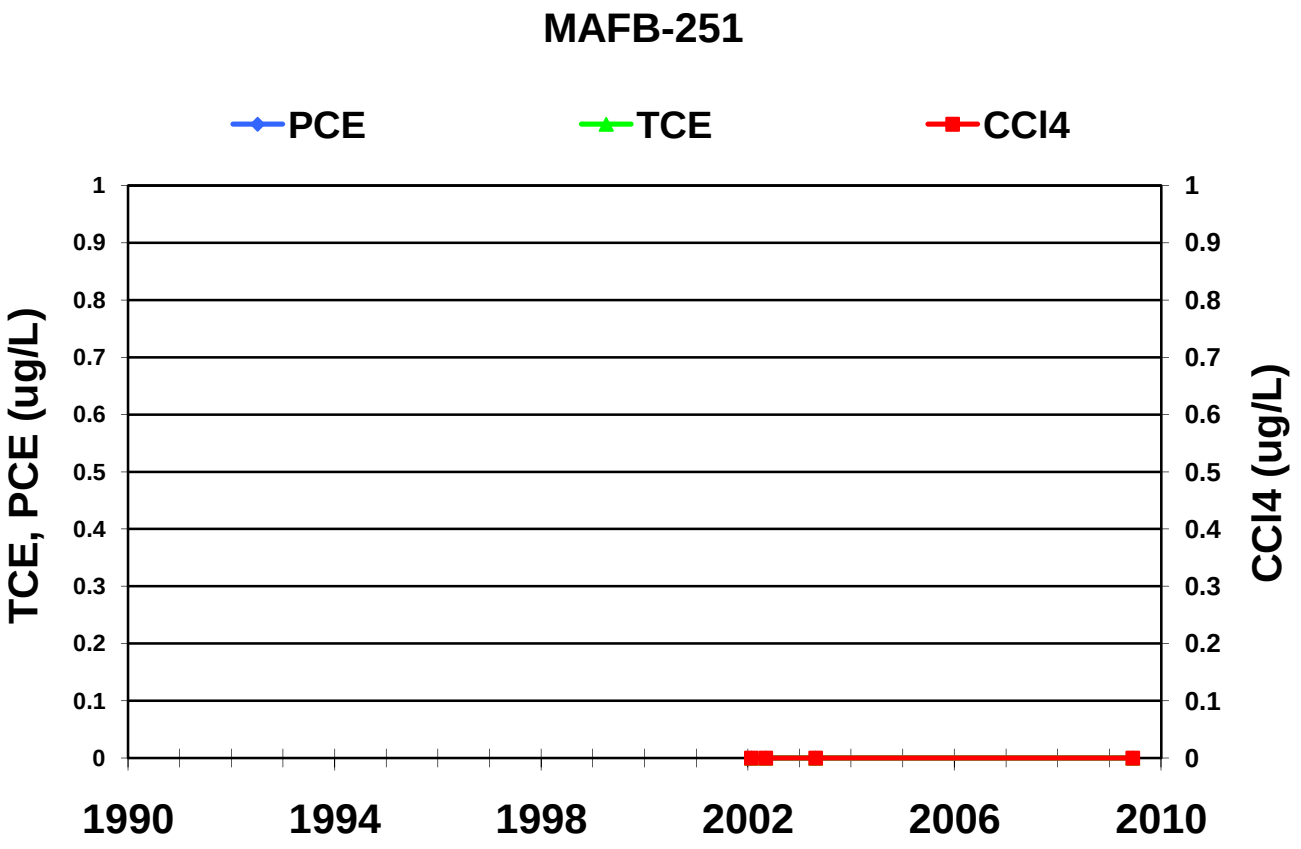

MAFB-246
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
45
0
5
10
15
20
25
30
1990
1994
1998
2002
2006
2010

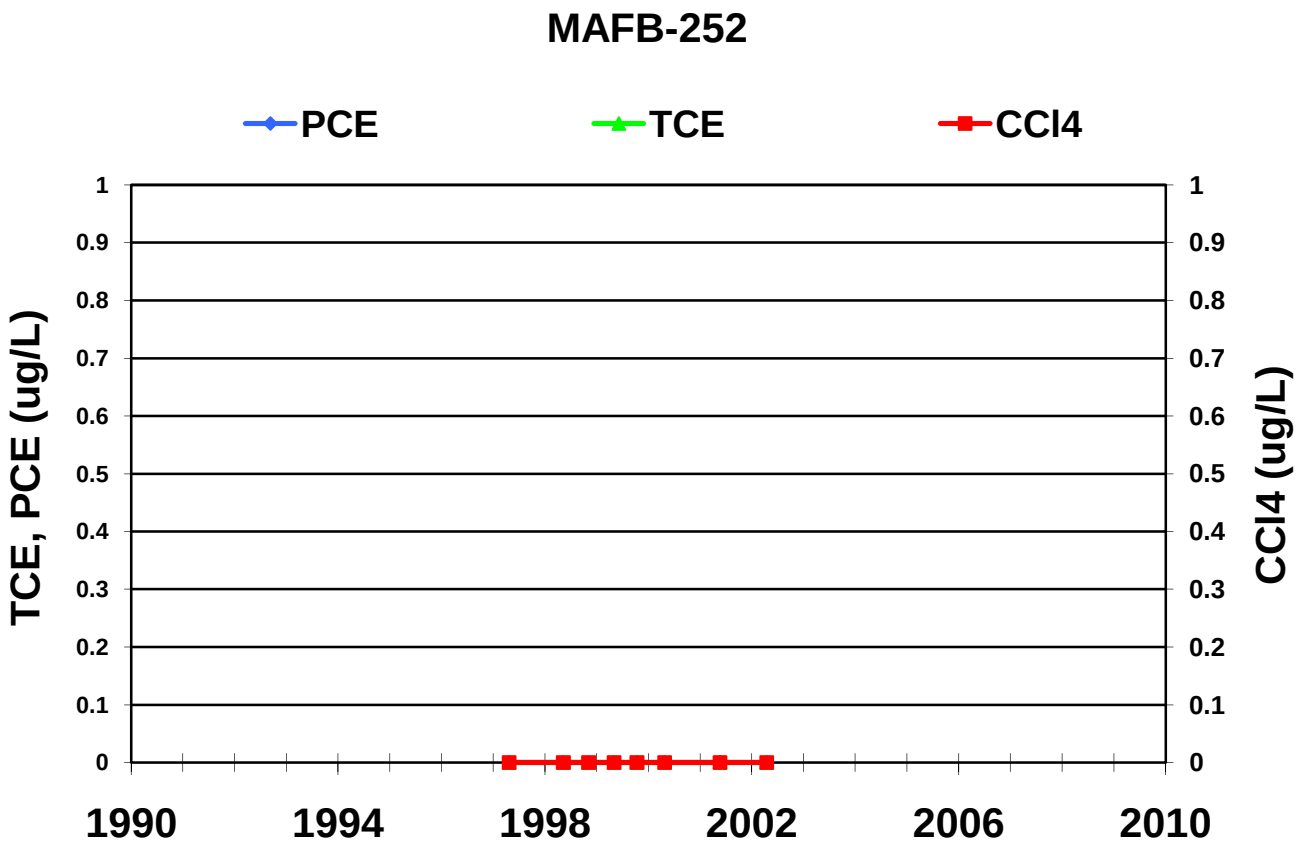

MAFB-247
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.5
1
1.5
2
2.5
1990
1994
1998
2002
2006
2010

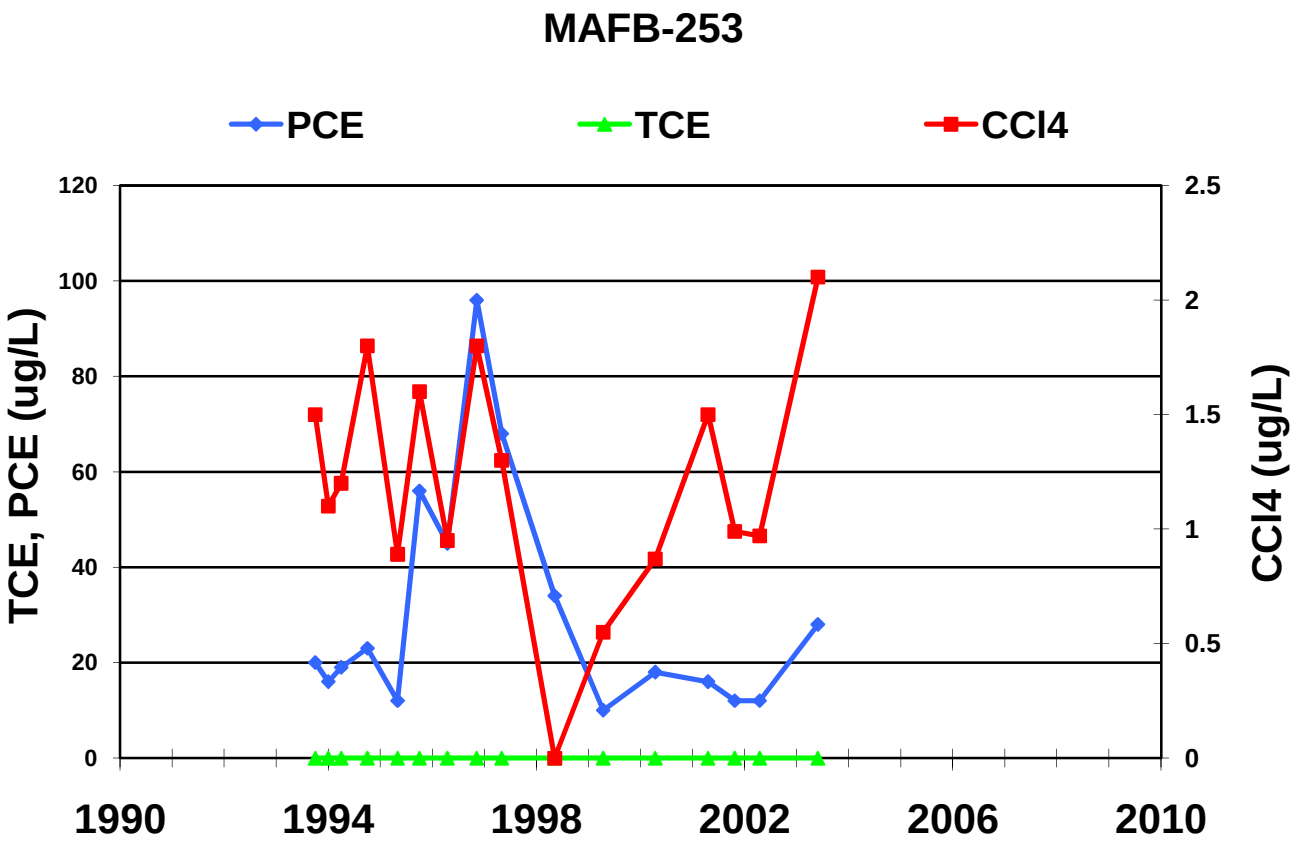

MAFB-248
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
8
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

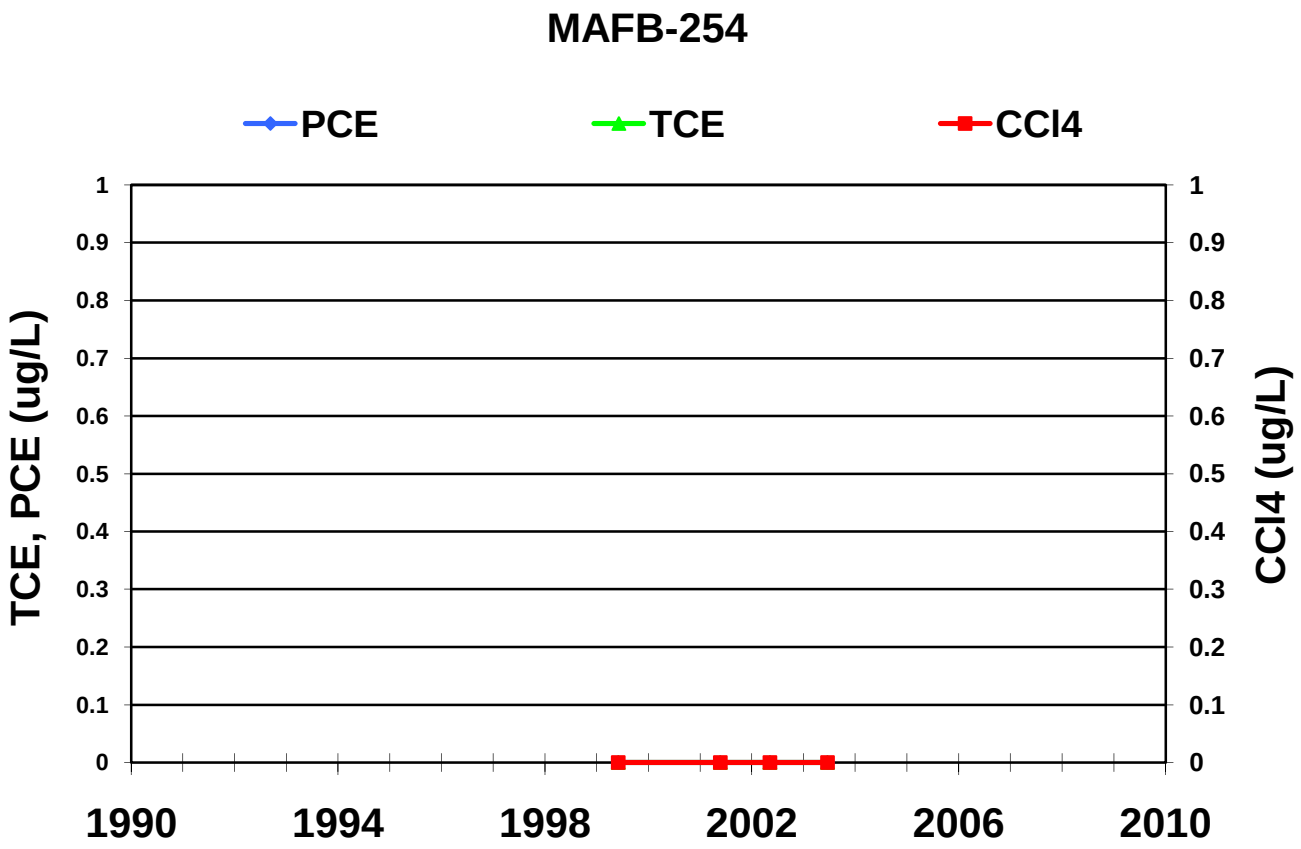

MAFB-249
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

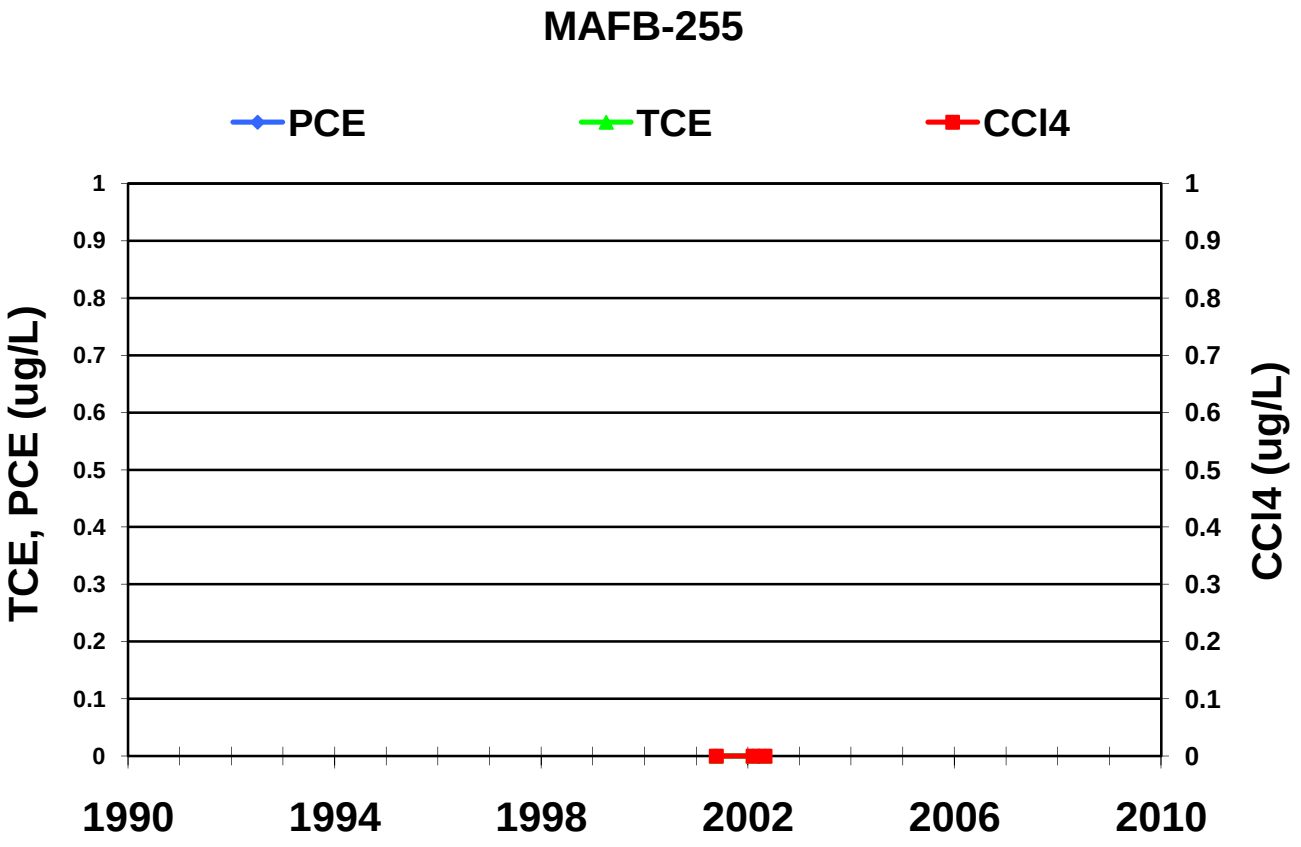

MAFB-250
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.05
0.15
0.25
1990
1994
1998
2002
2006
2010

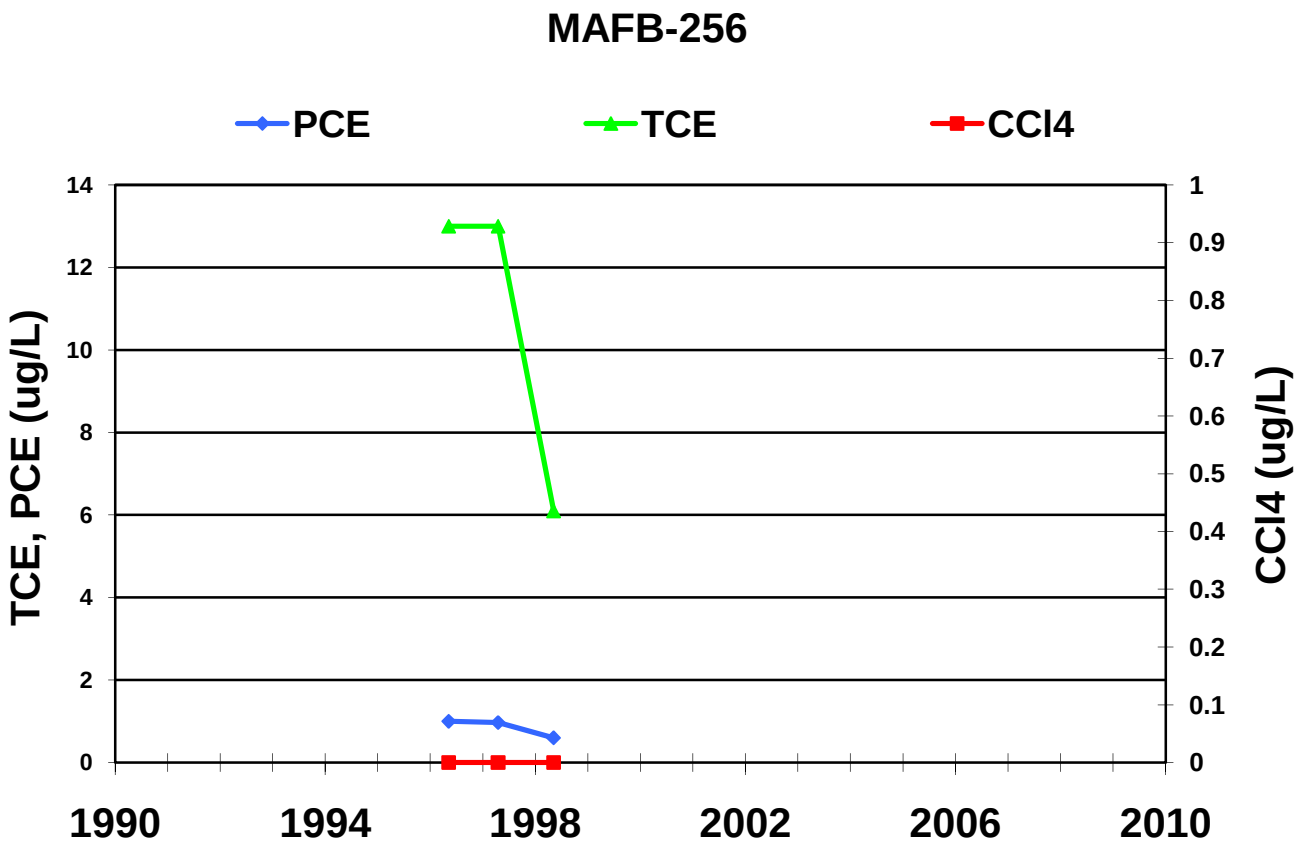

MAFB-251
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

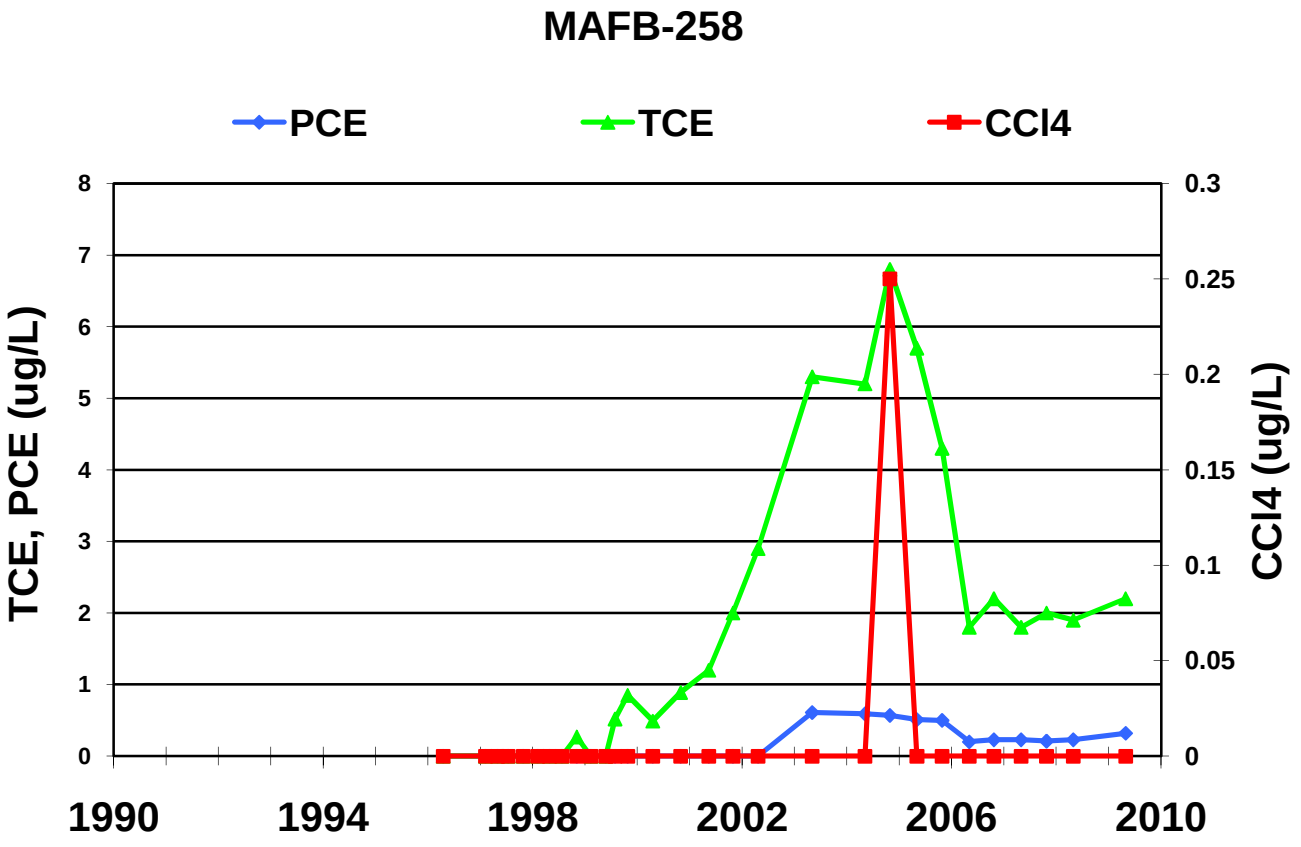

MAFB-252
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

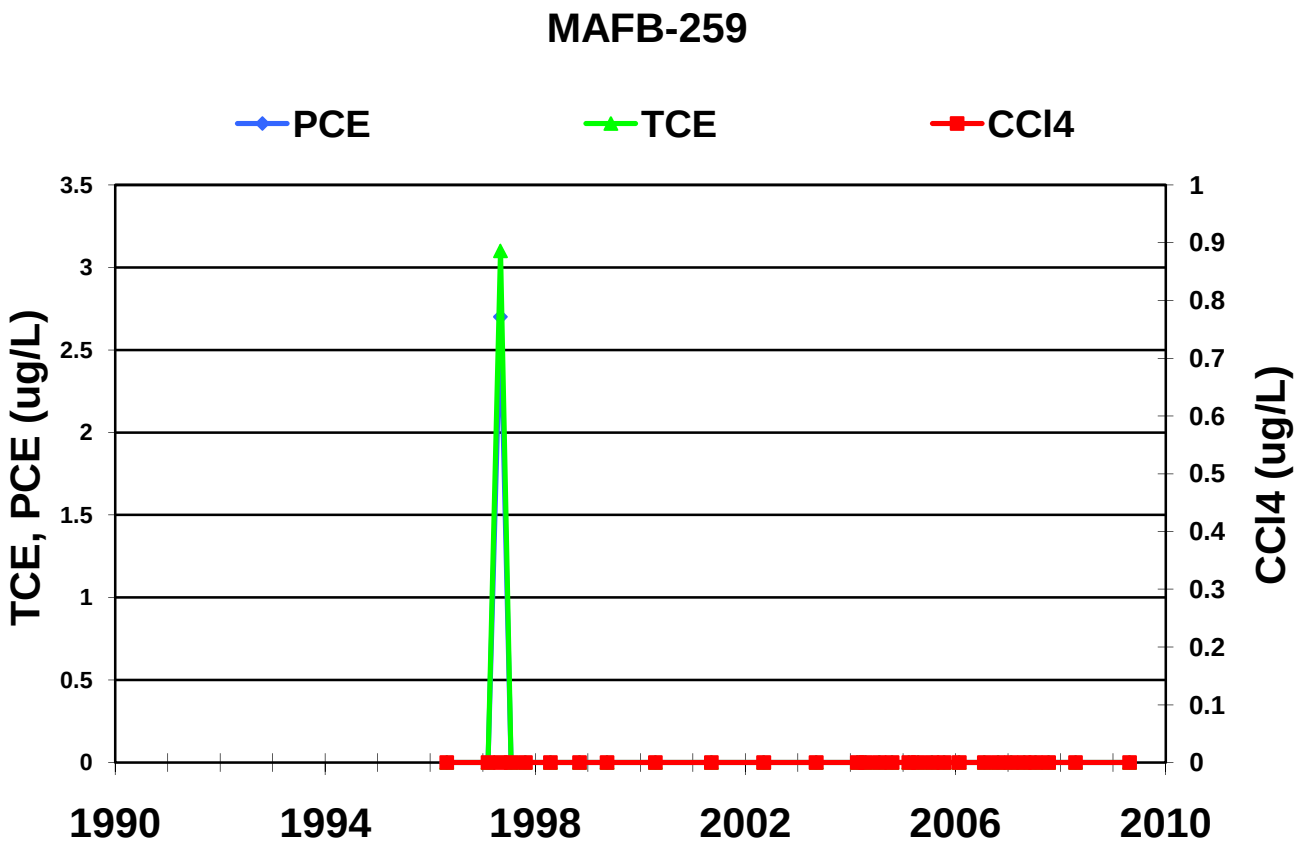

MAFB-253
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

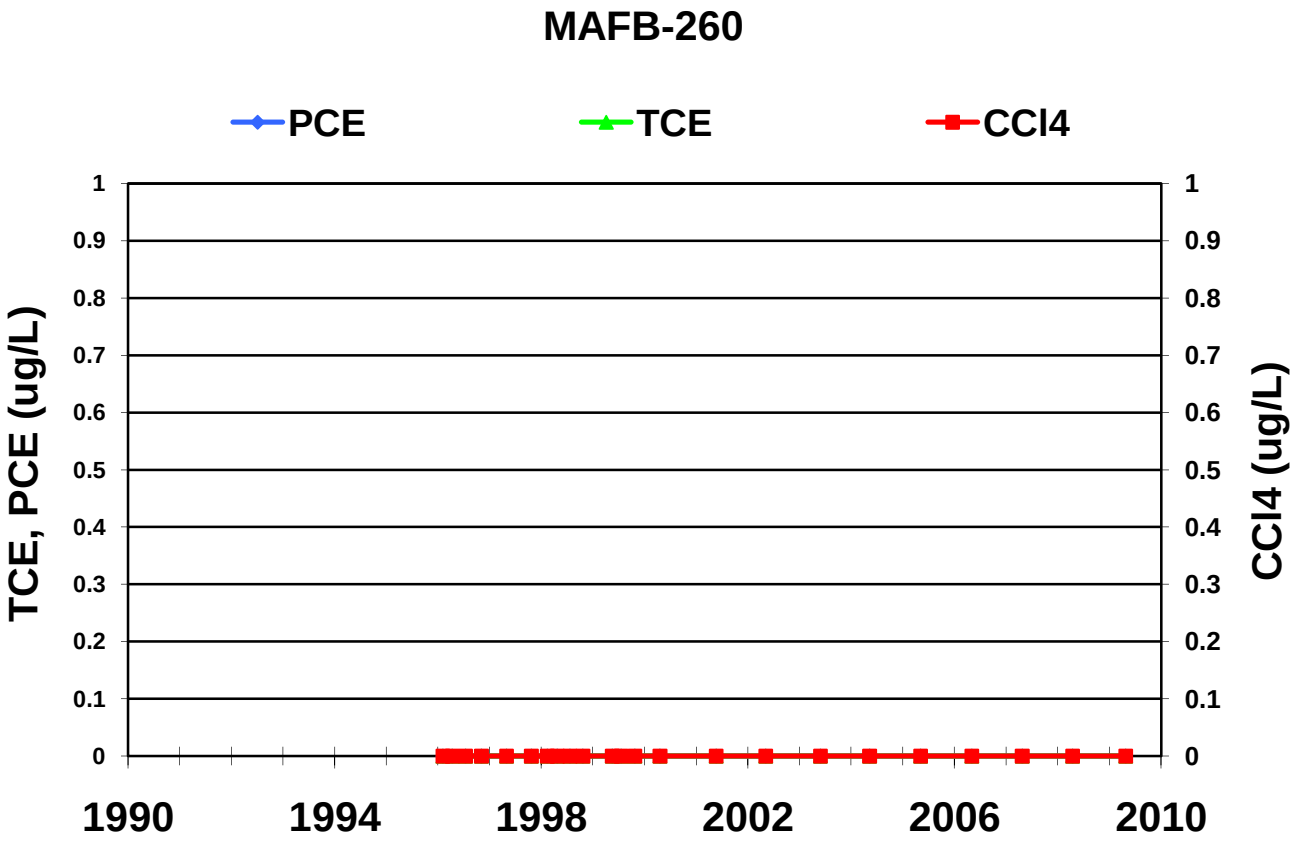

MAFB-254
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

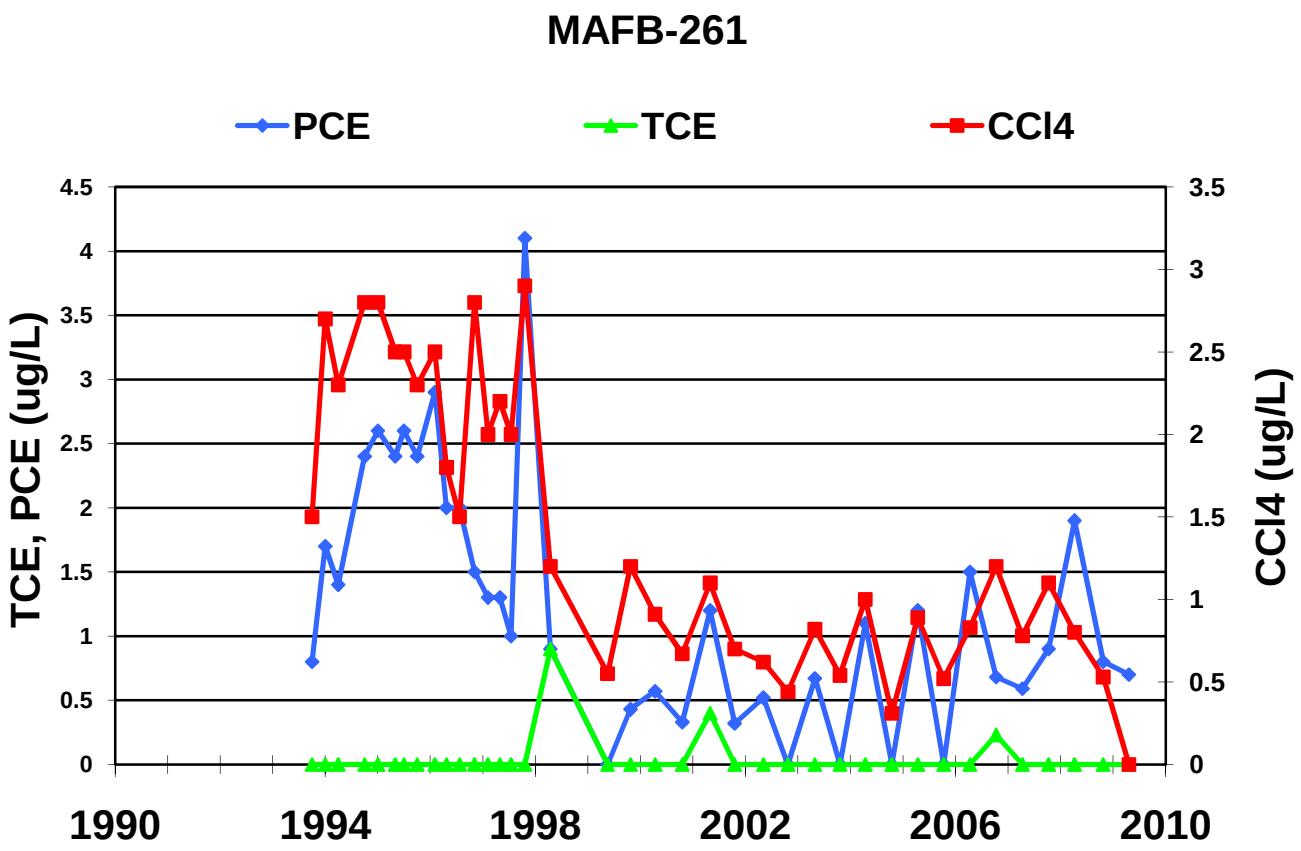

MAFB-255
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

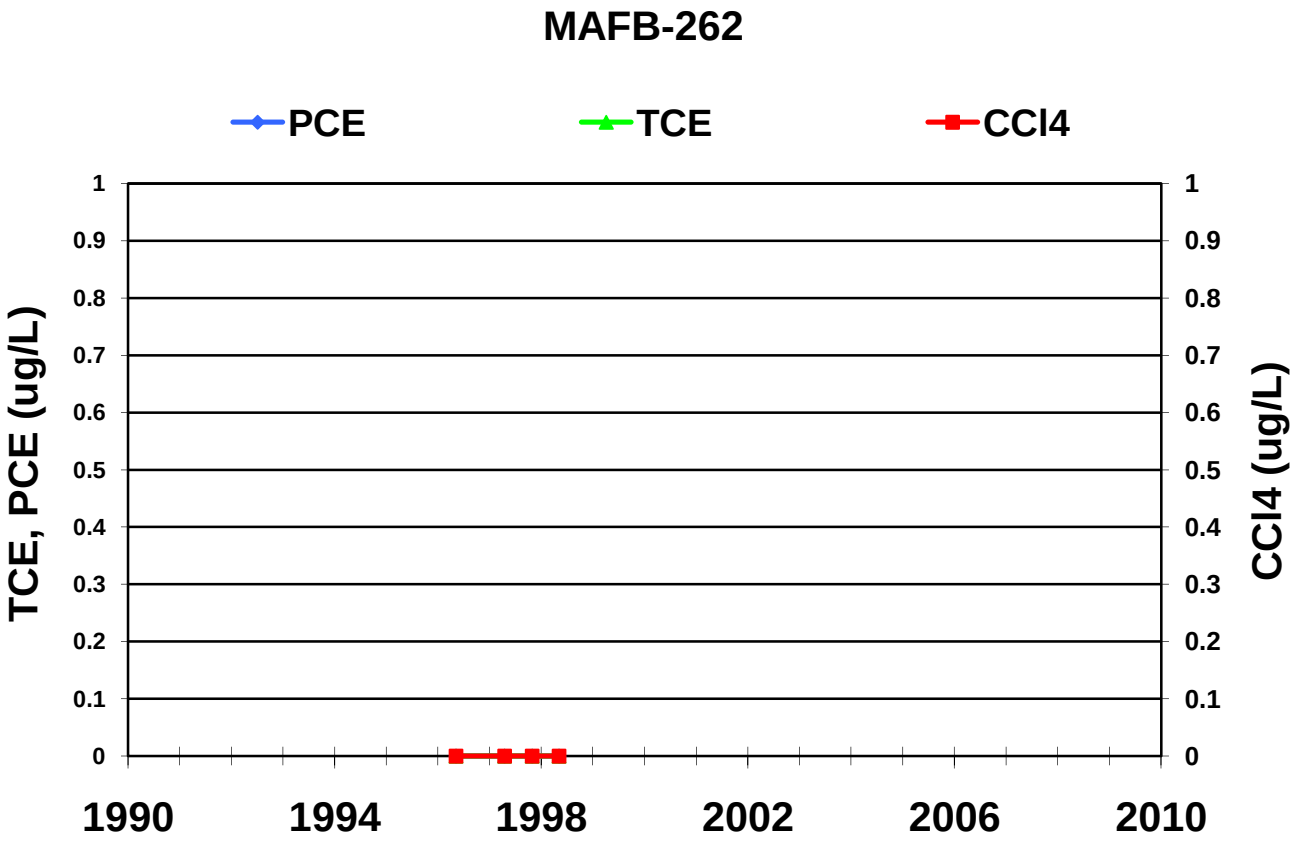

MAFB-256
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

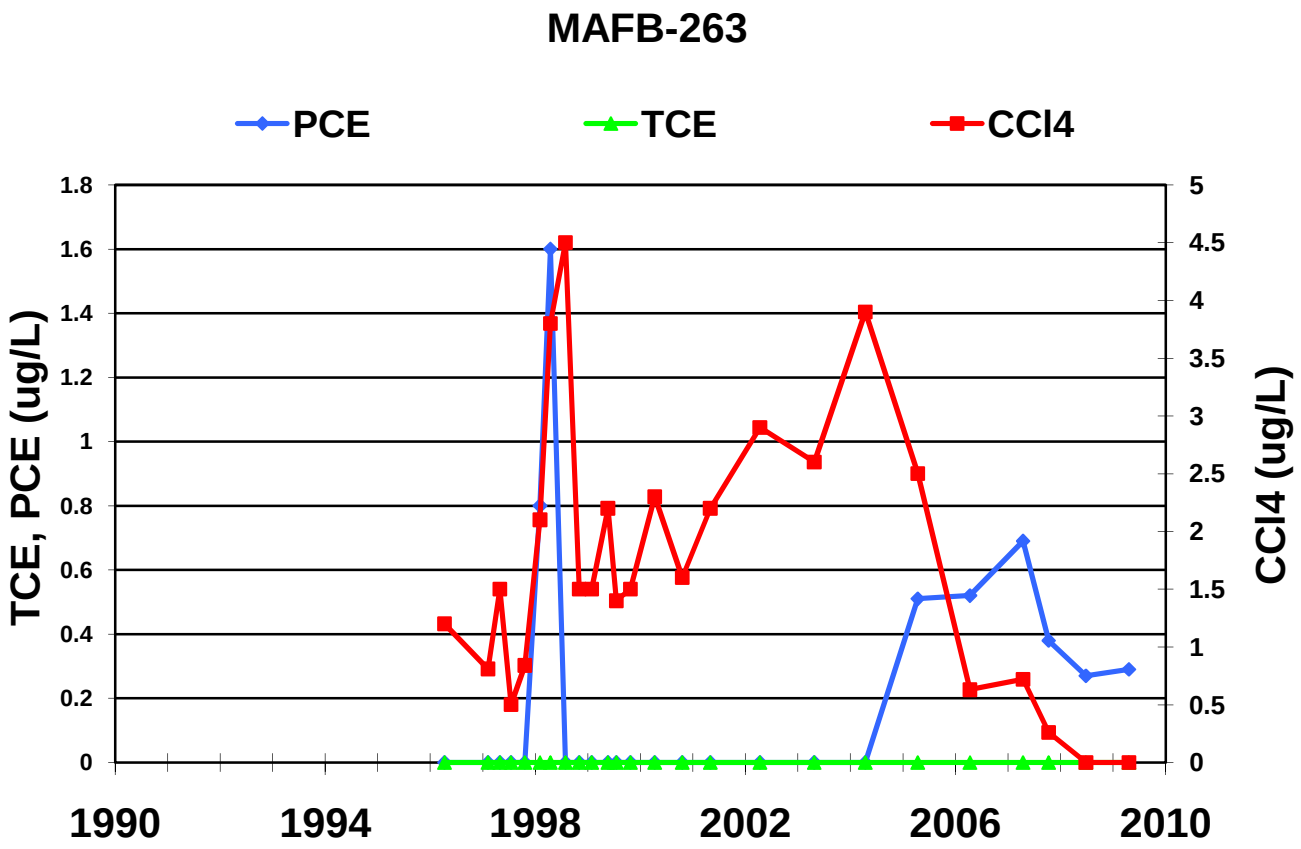

MAFB-258
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
0
0.05
0.1
0.15
0.2
0.25
0.3
1990
1994
1998
2002
2006
2010

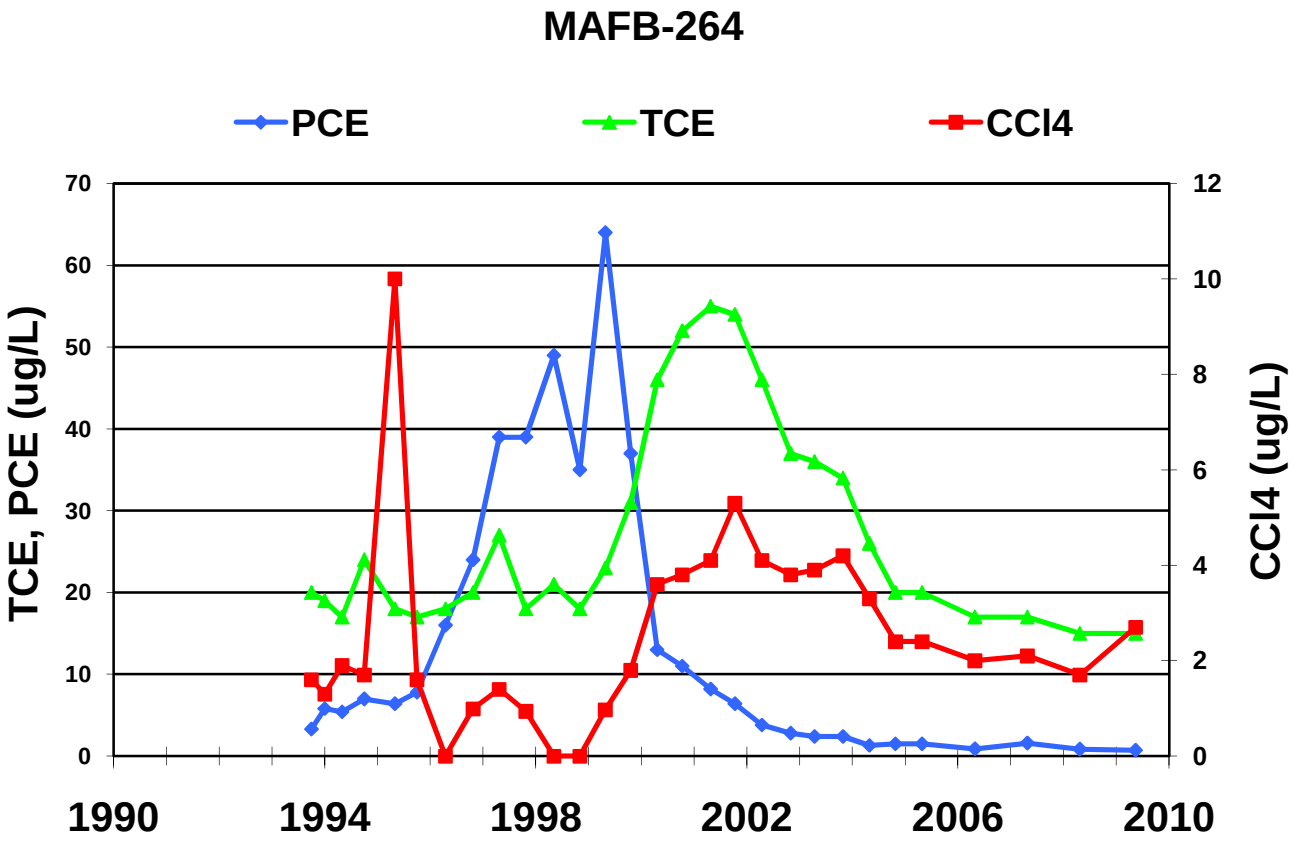

MAFB-259
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

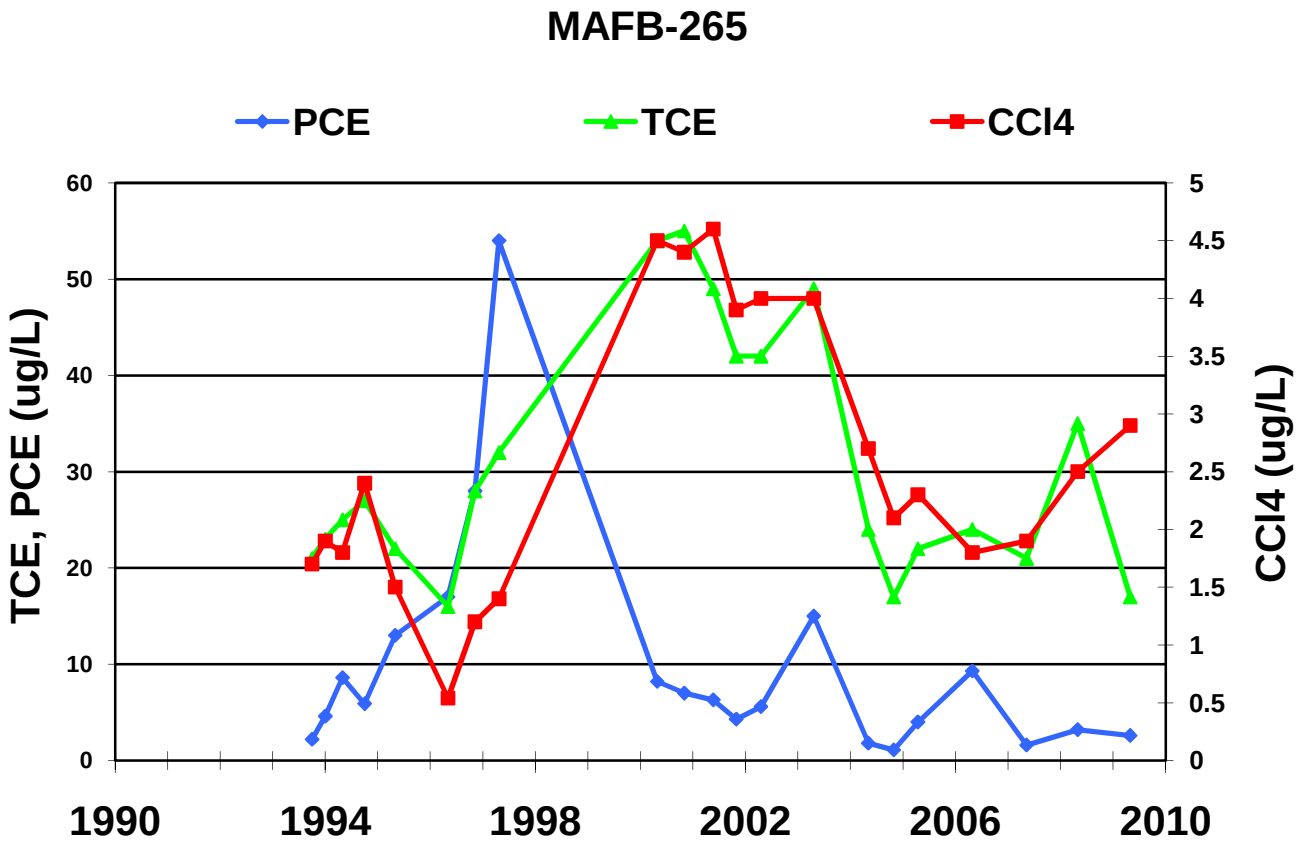

MAFB-260
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

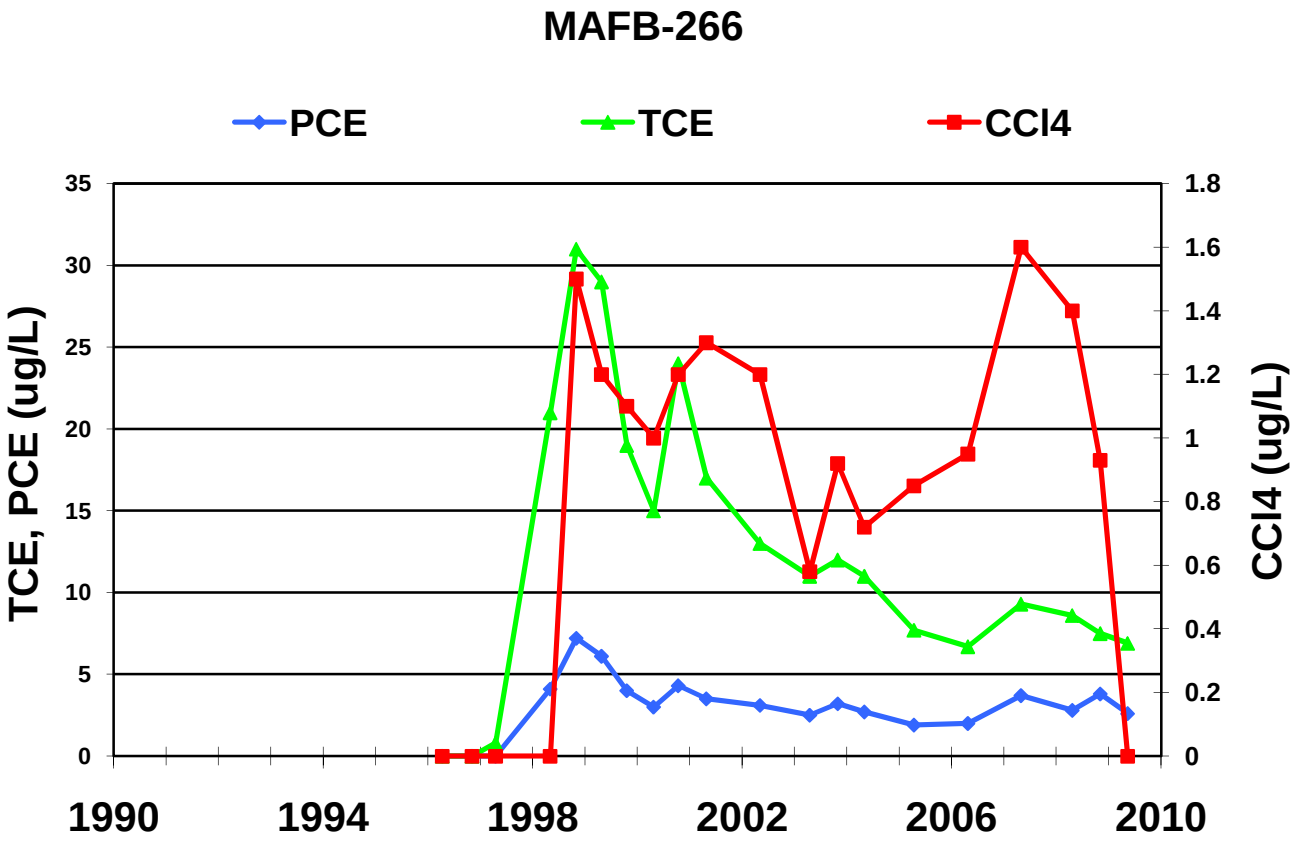

MAFB-261
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

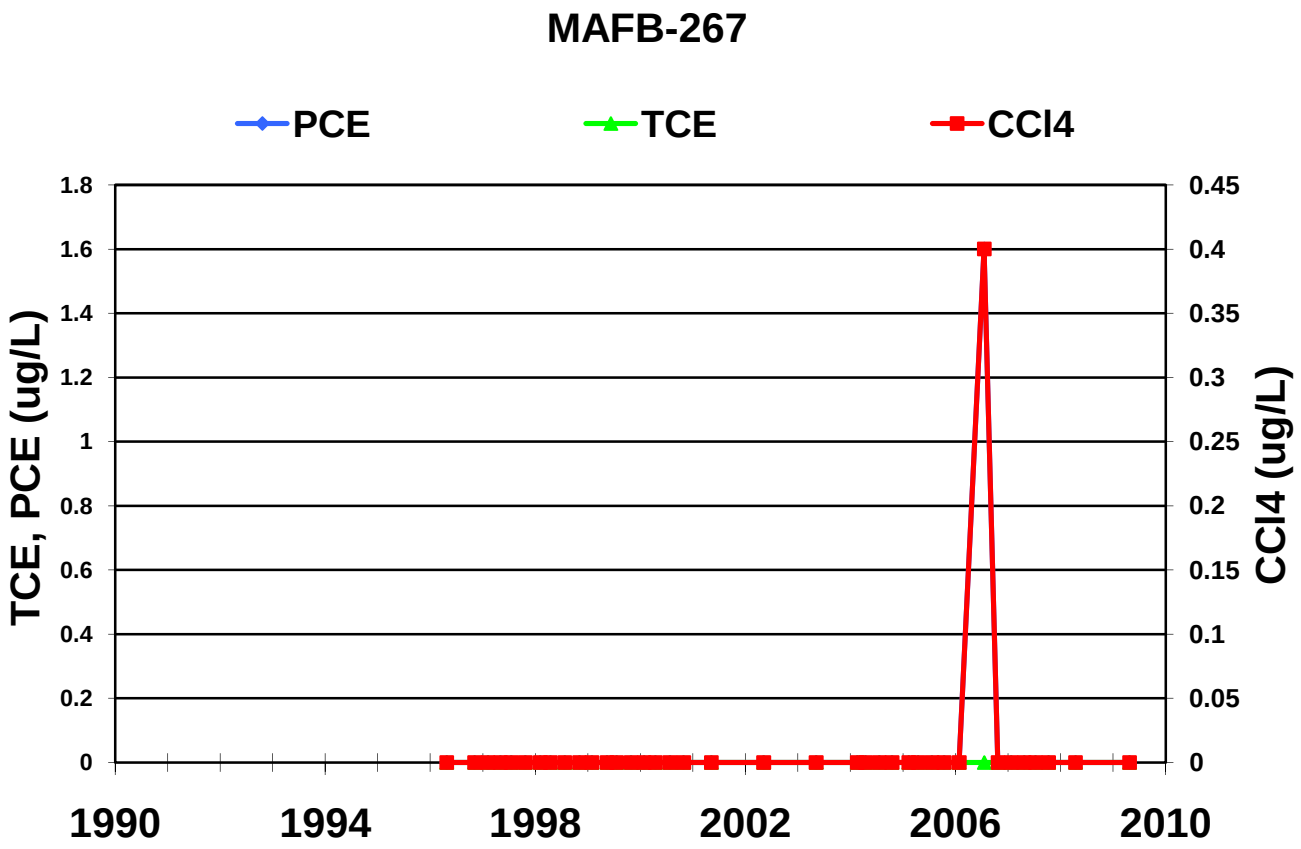

MAFB-262
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

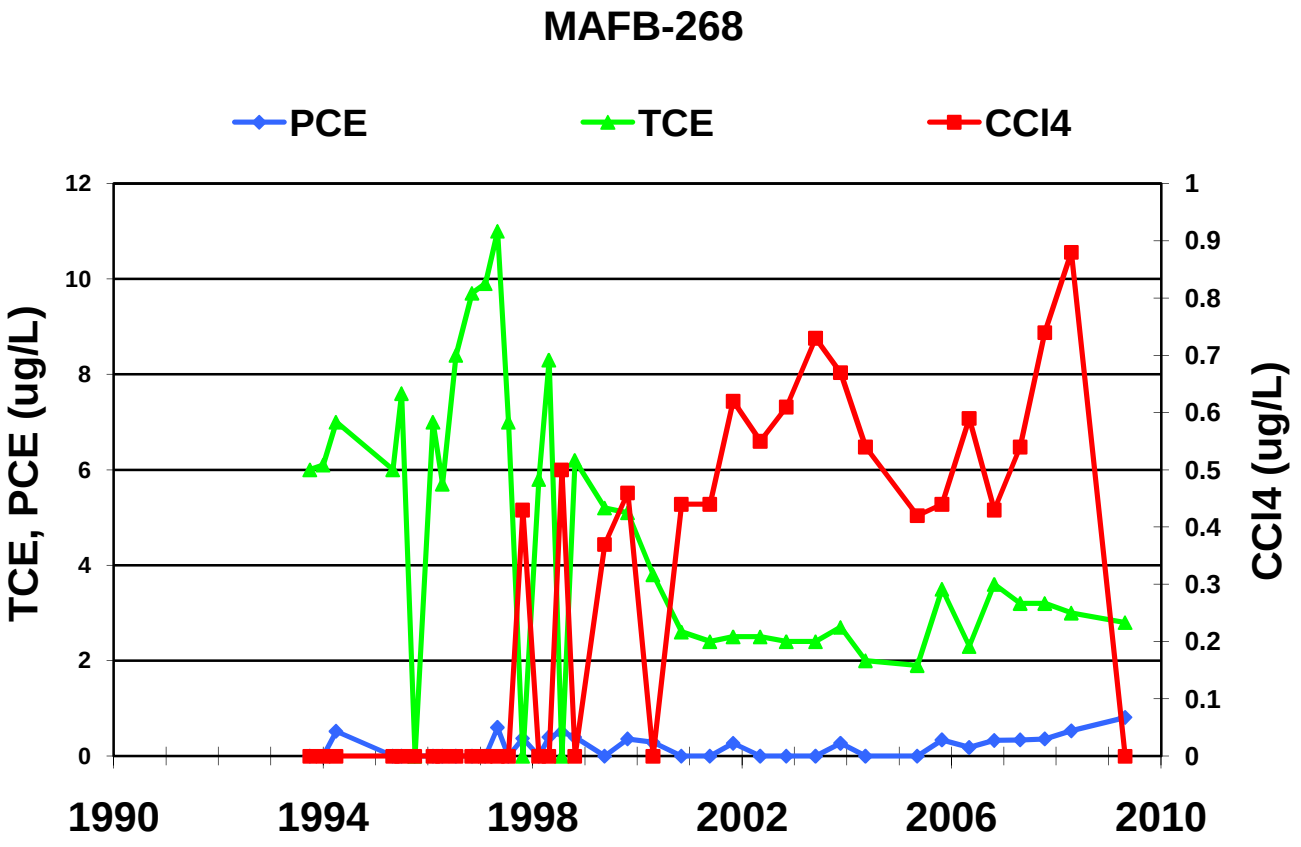

MAFB-263
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-264
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

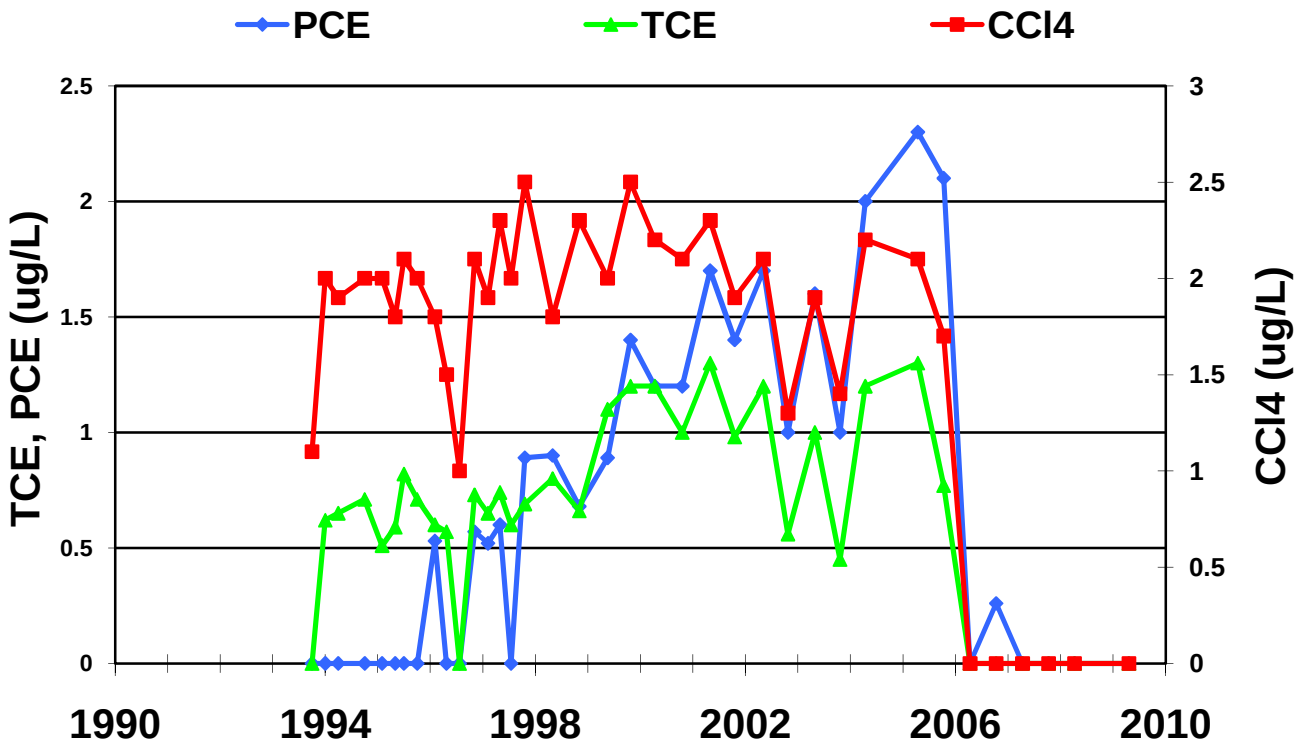

MAFB-265
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MAFB-266
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
35
30
25
20
15
10
5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

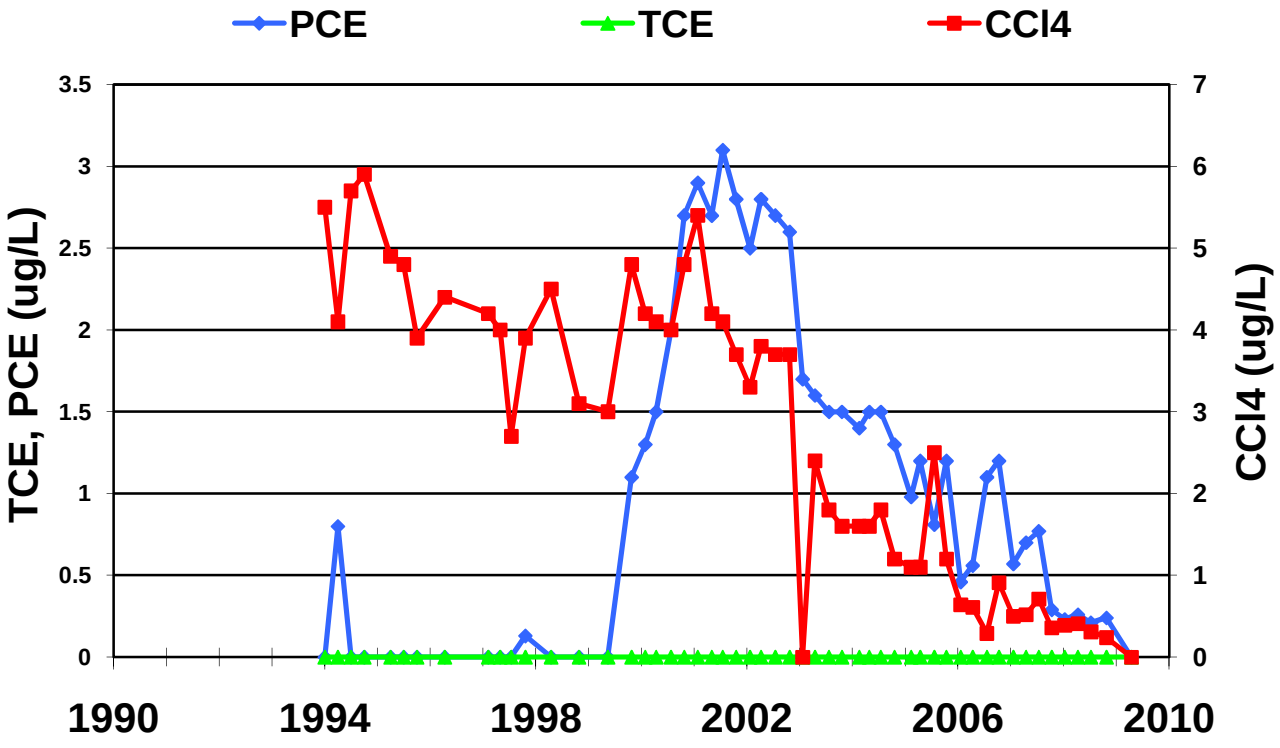

MAFB-267
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

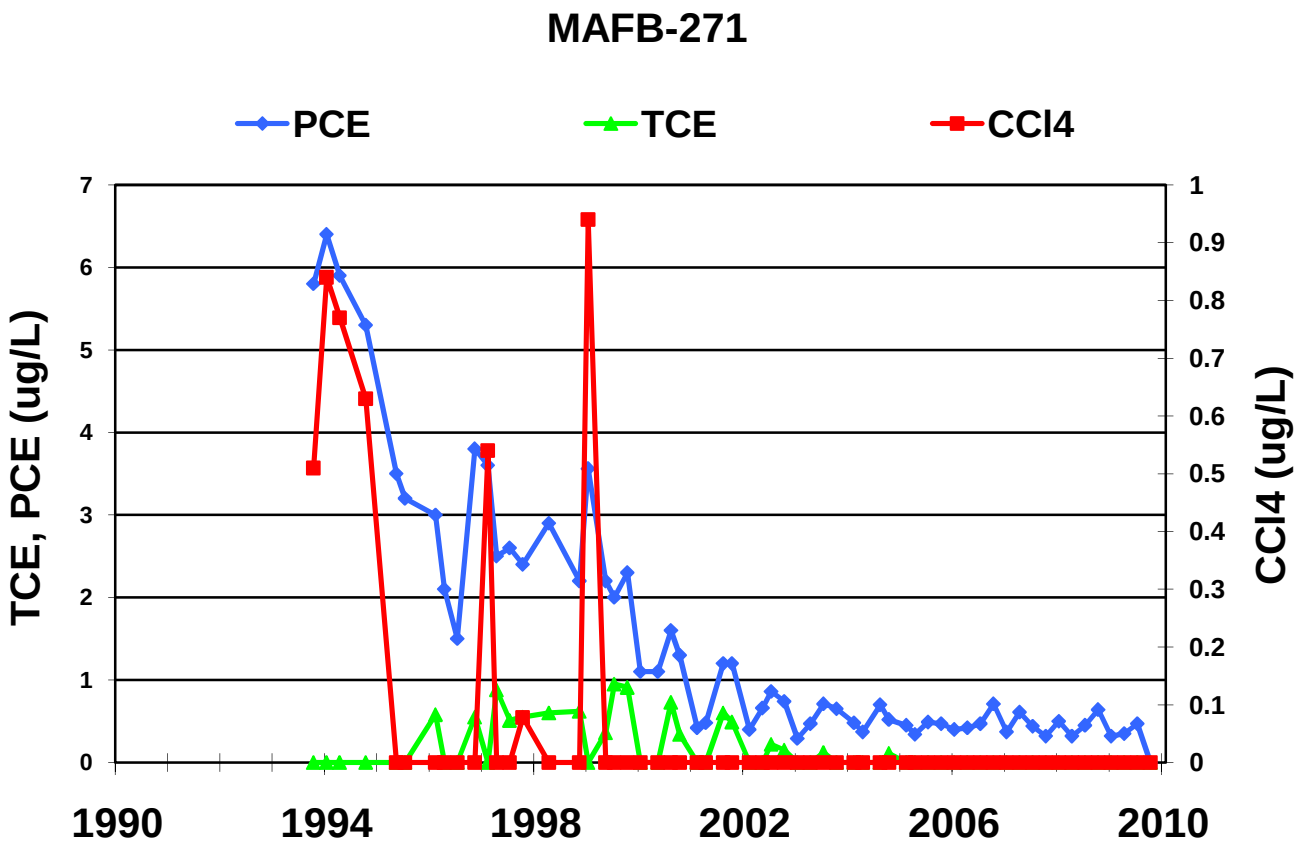

MAFB-268
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

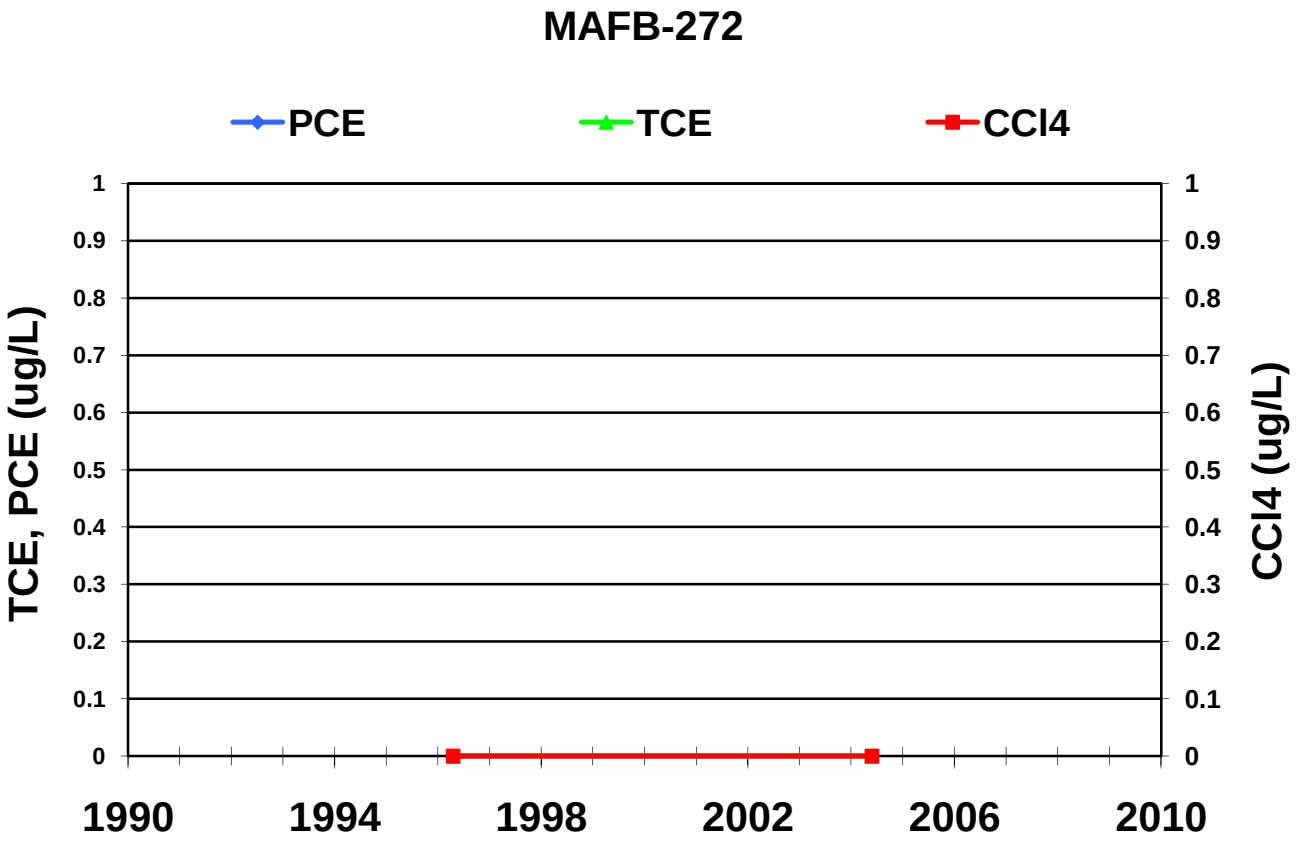
MAFB-269

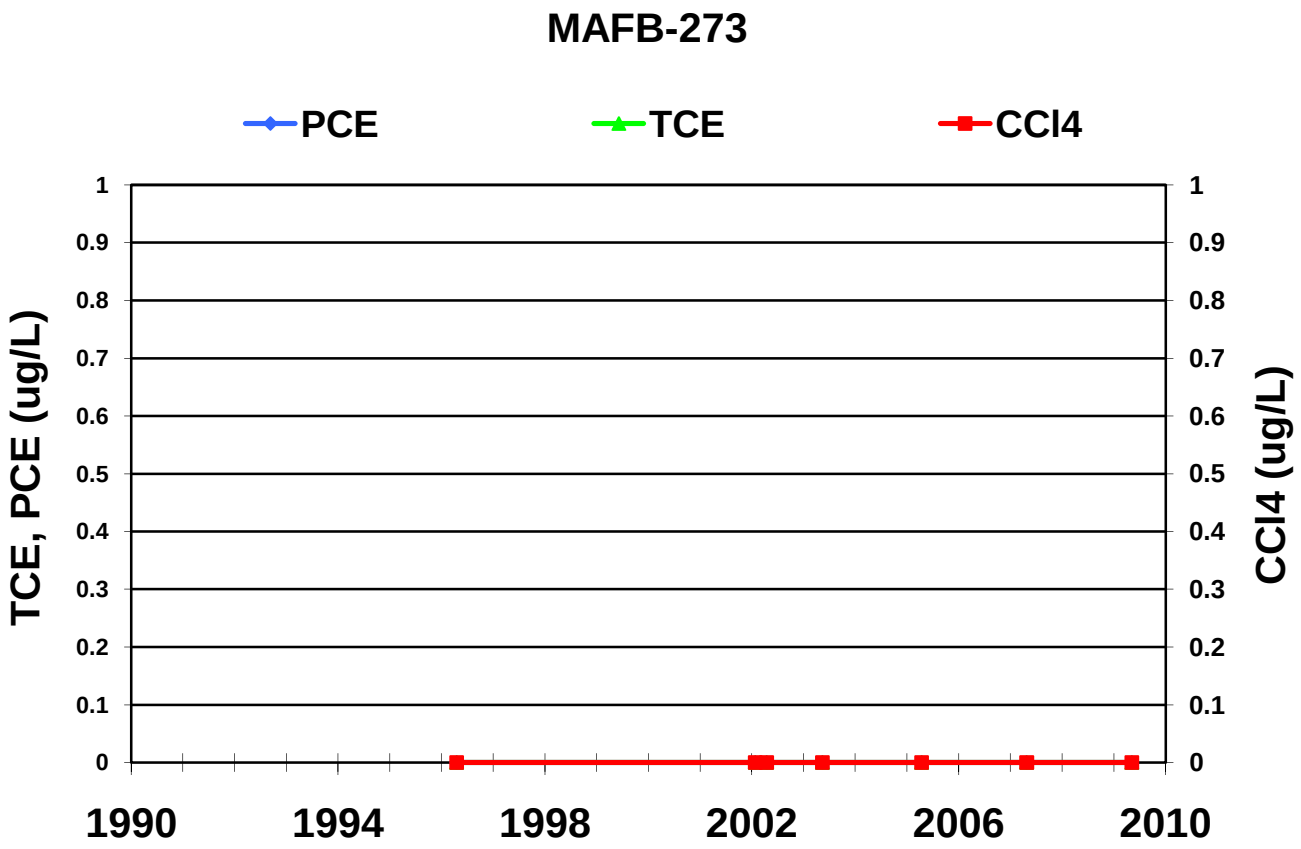


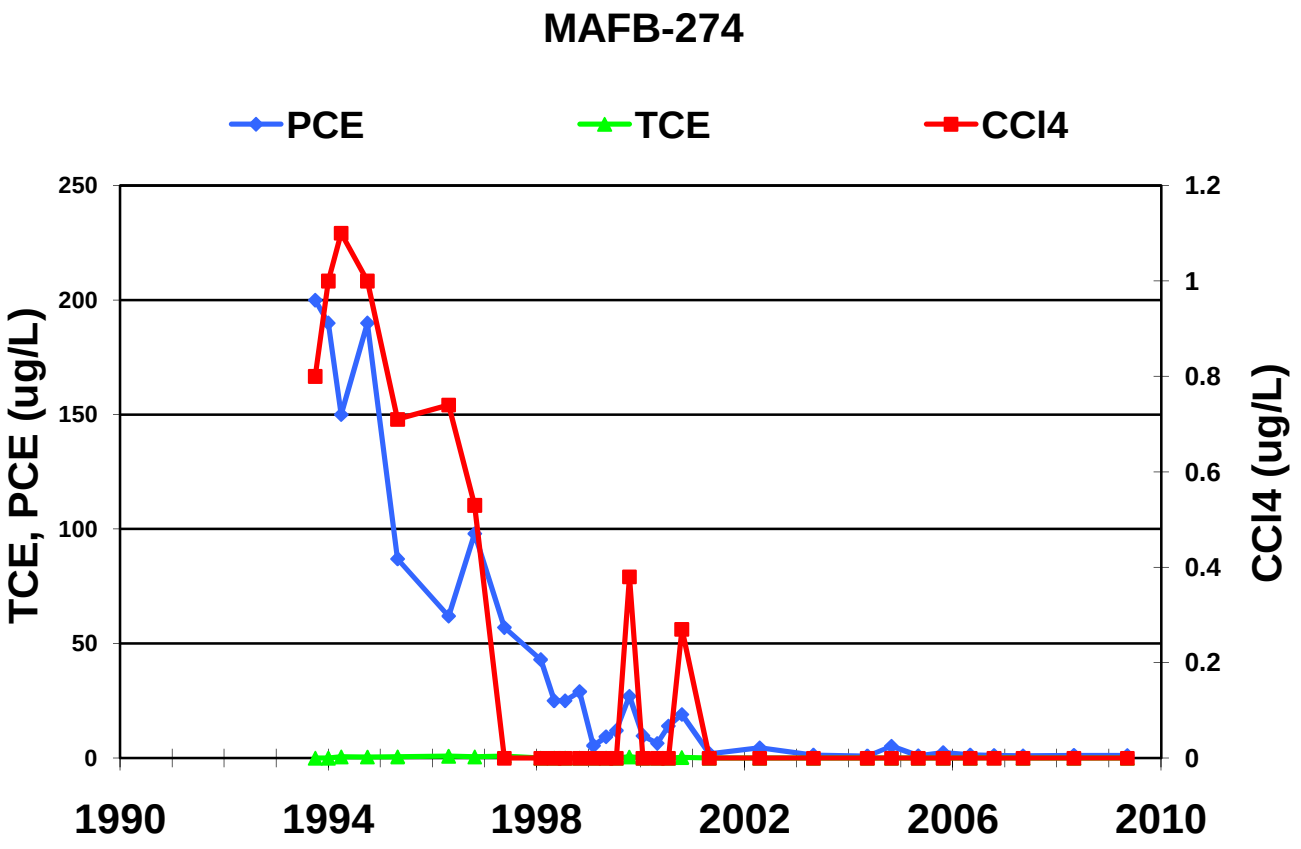
MAFB-270

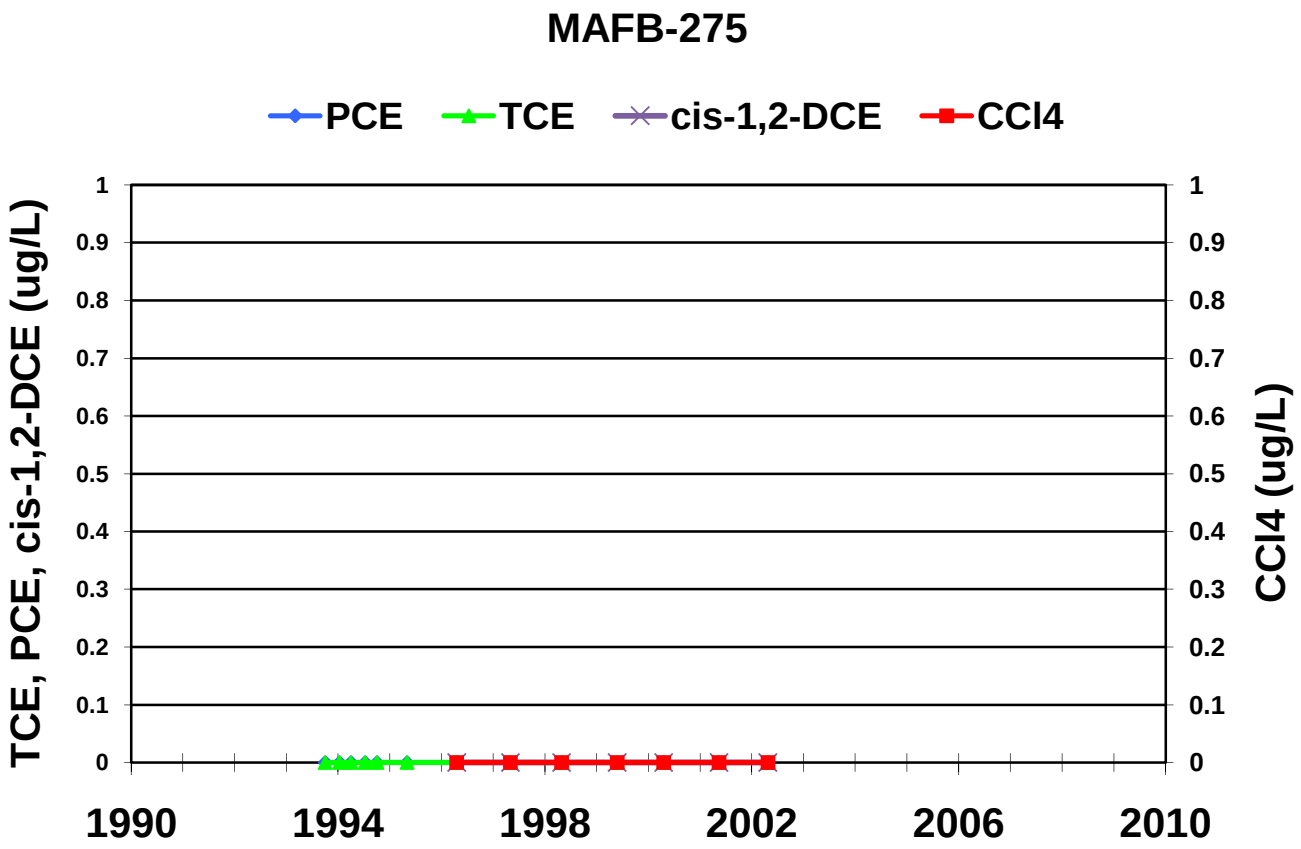


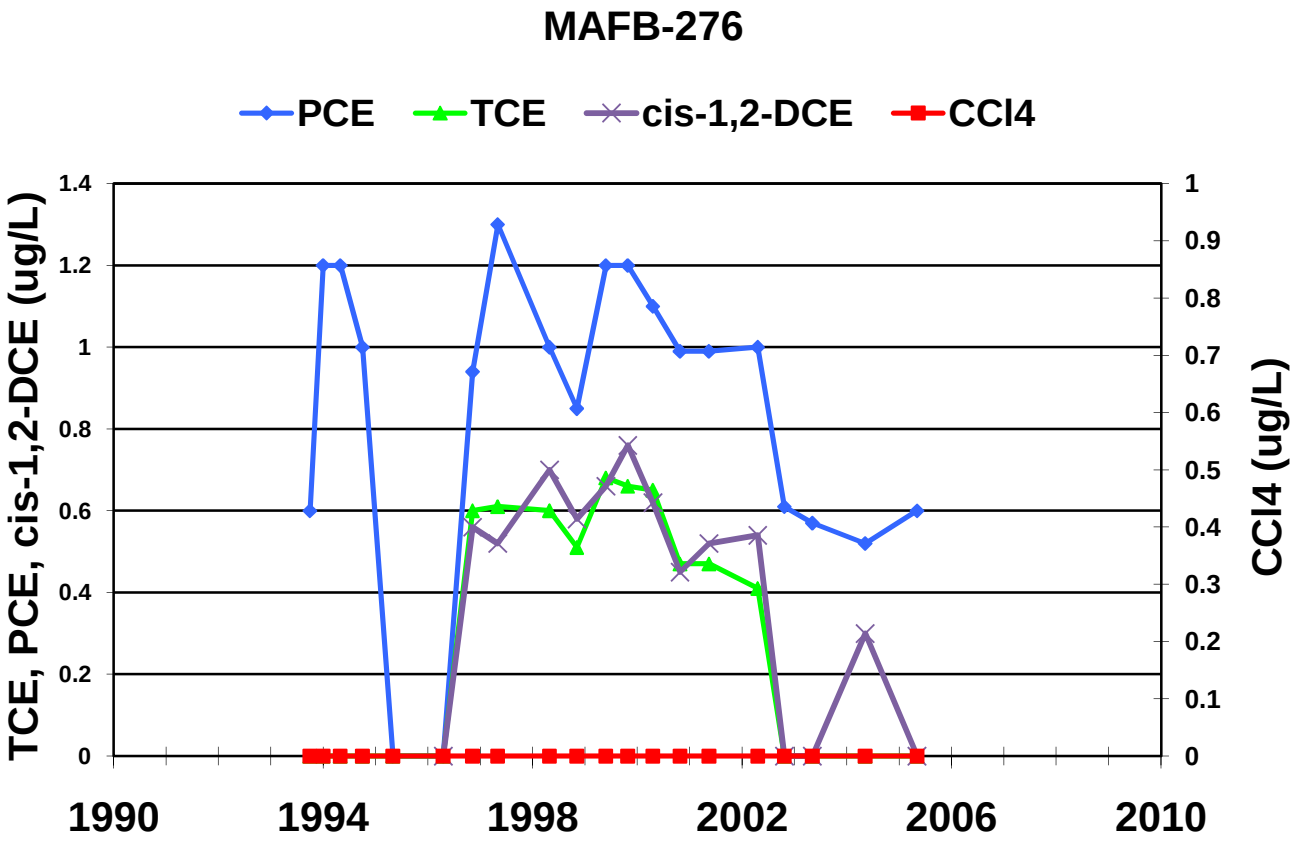

MAFB-271
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

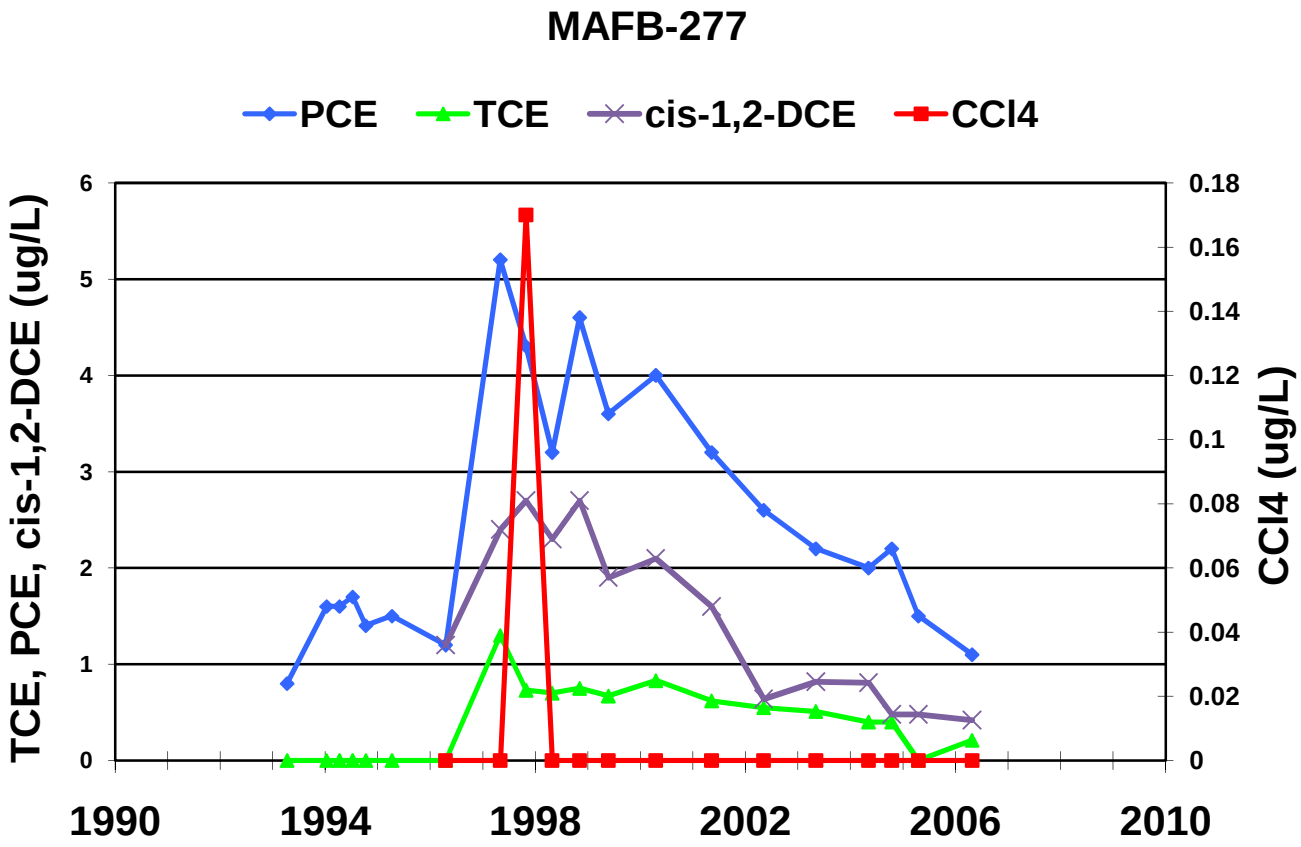

MAFB-272
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

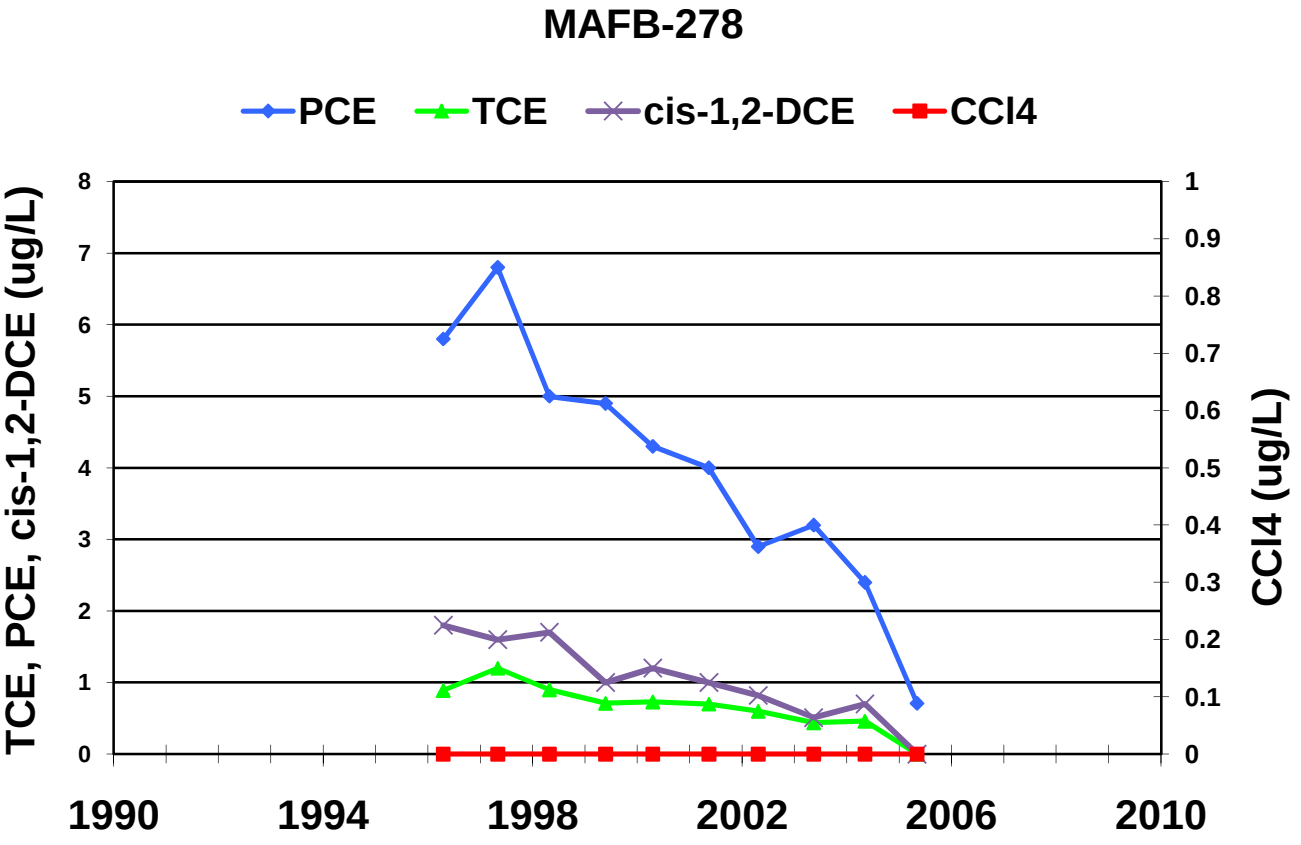

MAFB-273
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

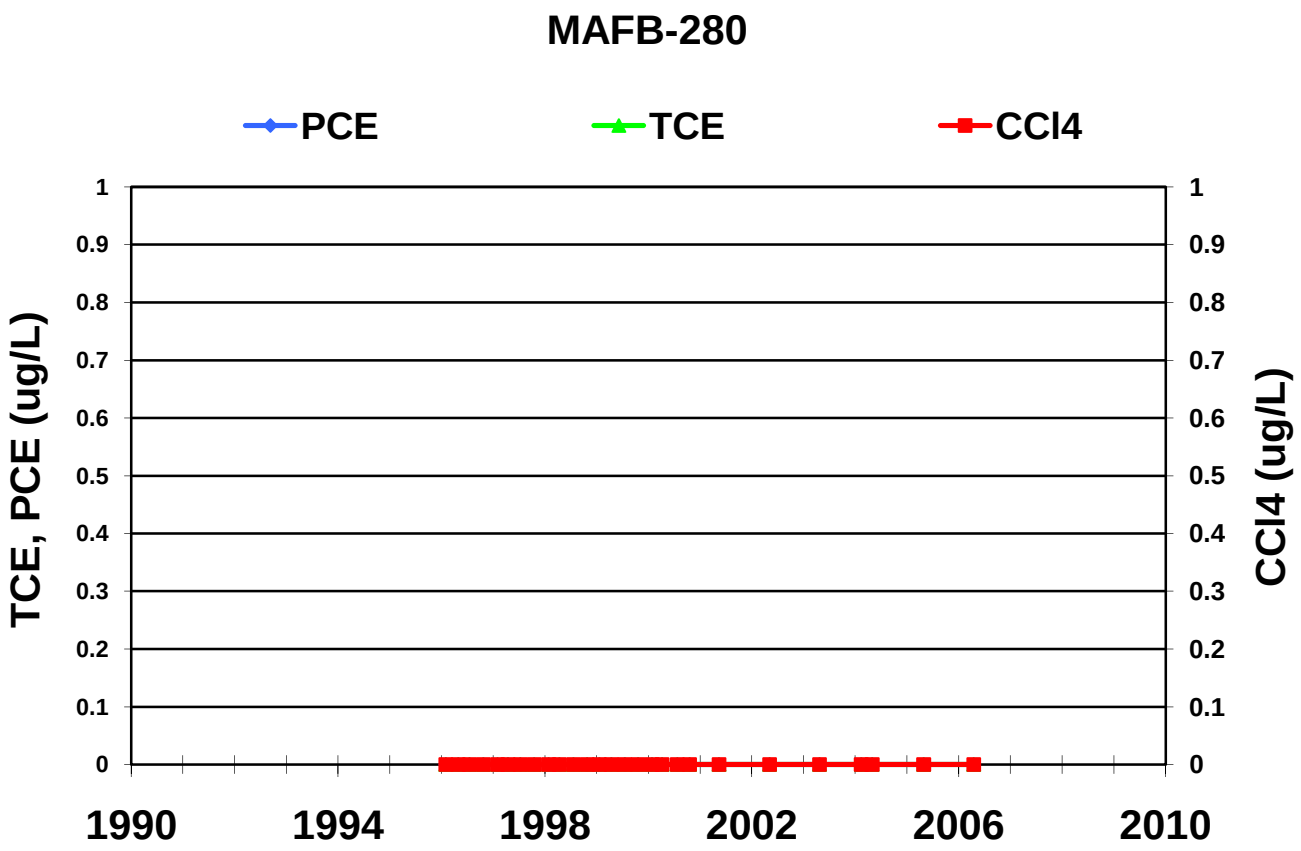

MAFB-274
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
250
200
150
100
50
0
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

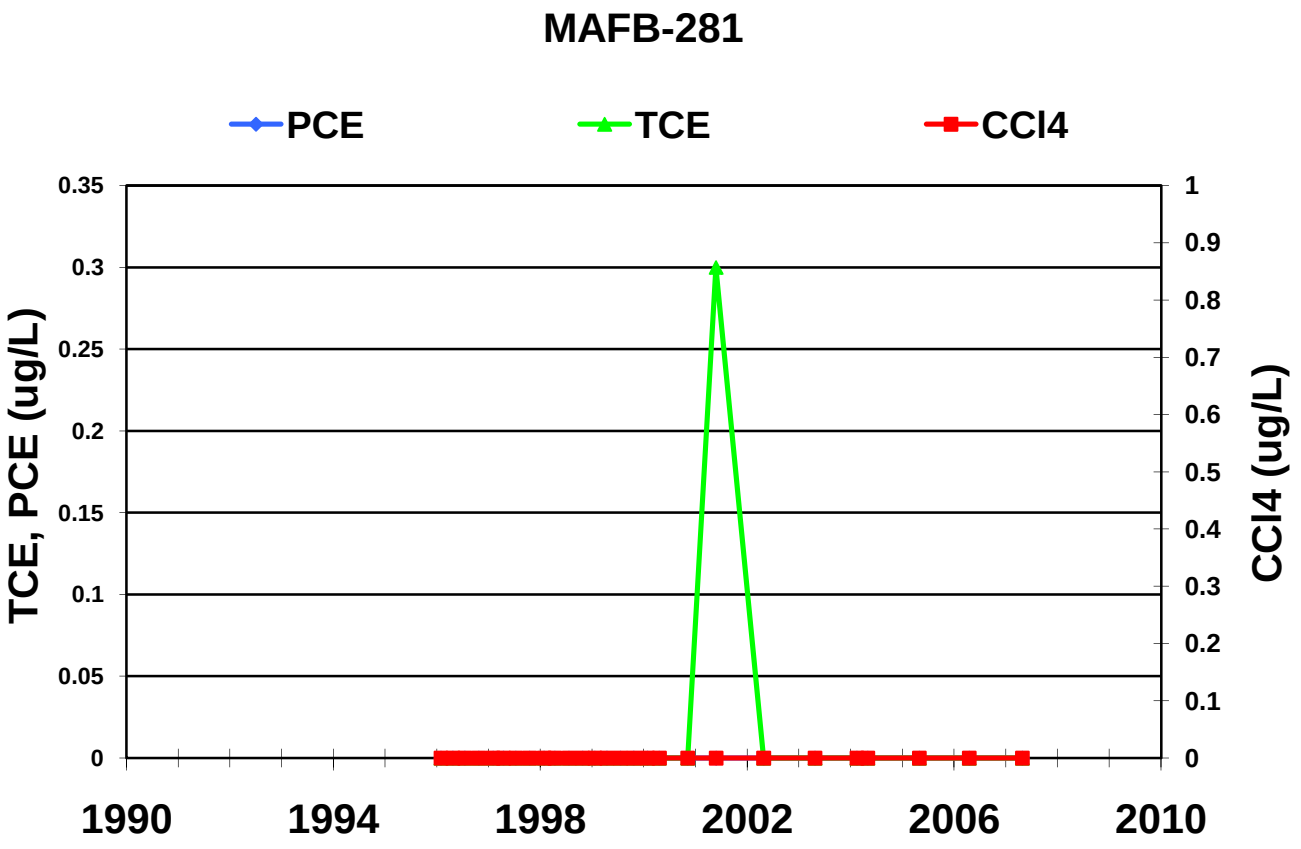

MAFB-275
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

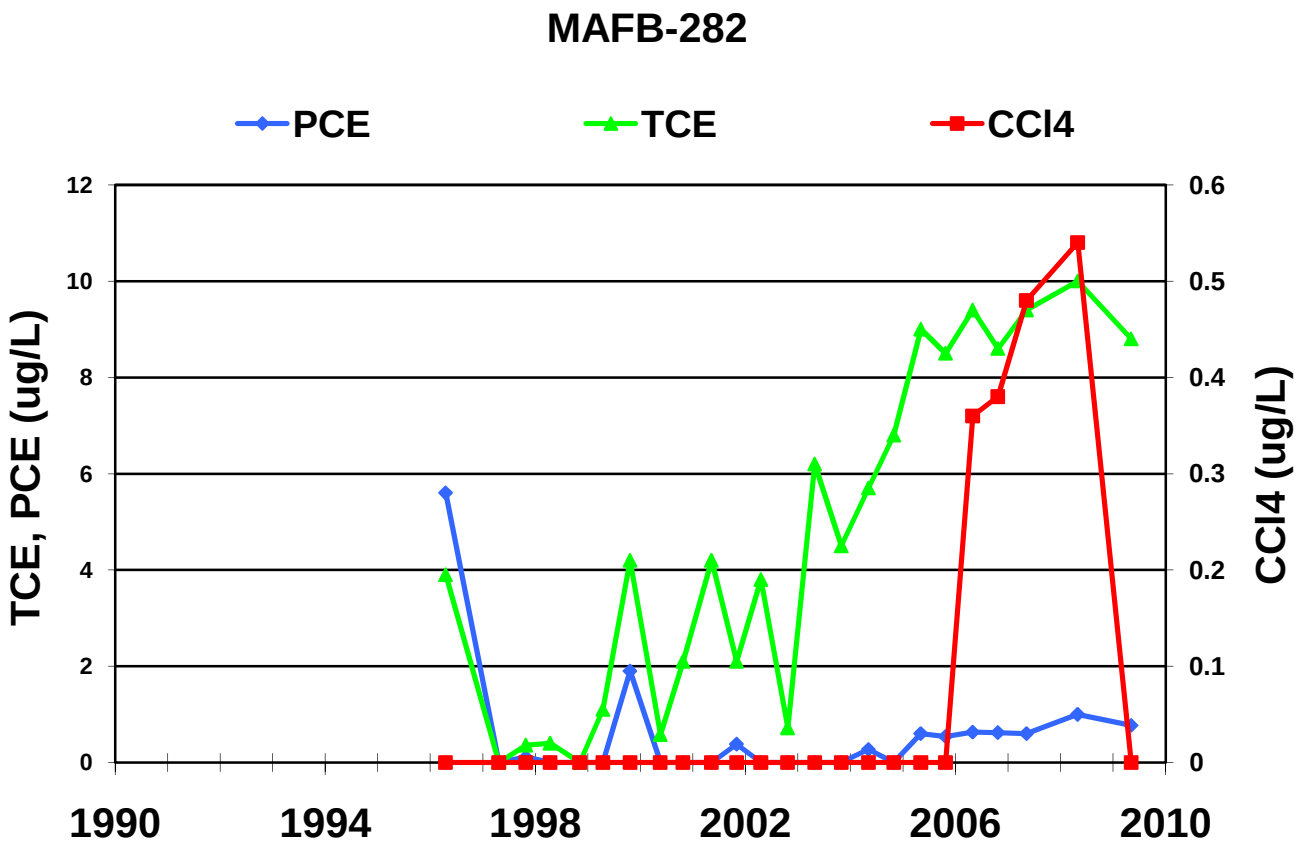

MAFB-276
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.1
0.3
0.5
0.7
0.9
1990
1994
1998
2002
2006
2010

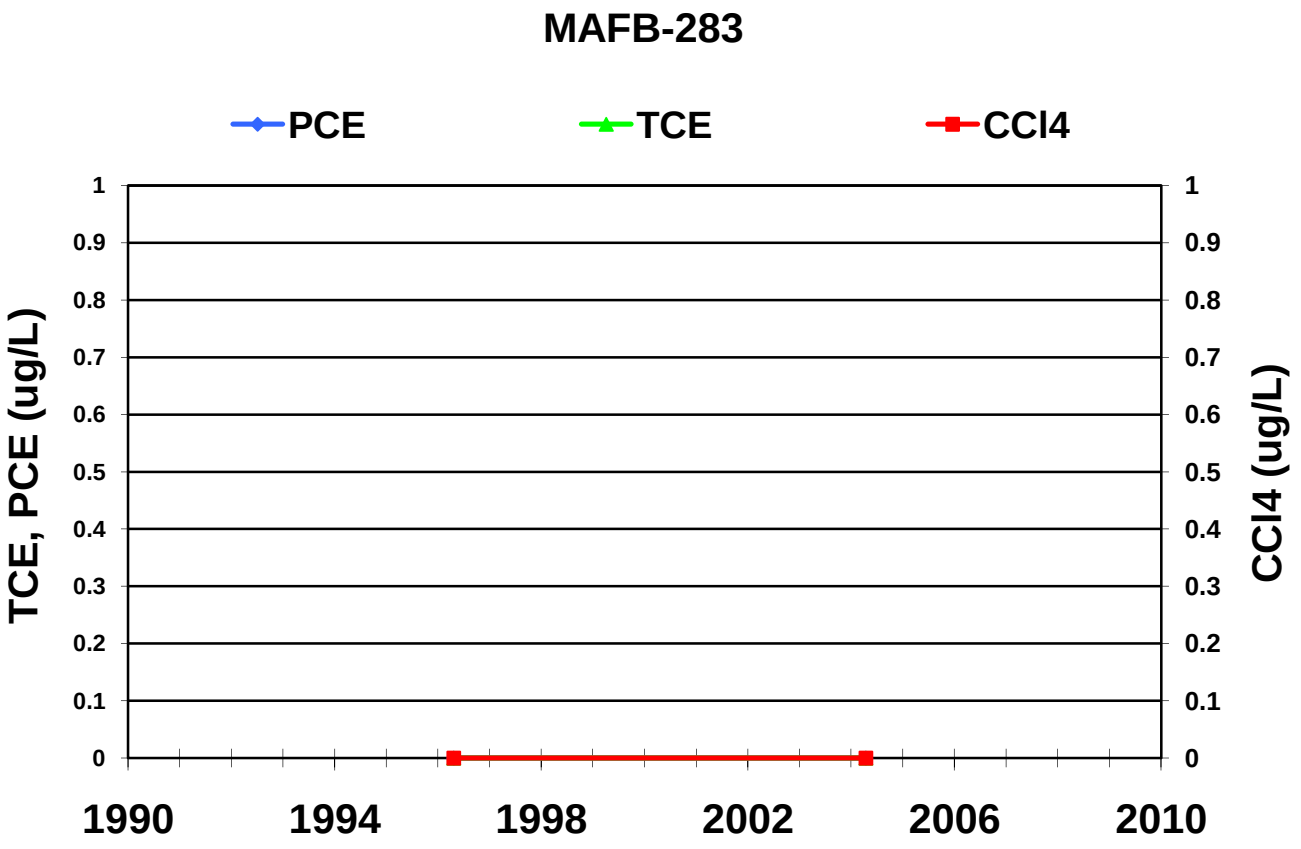

MAFB-277
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
1990
1994
1998
2002
2006
2010

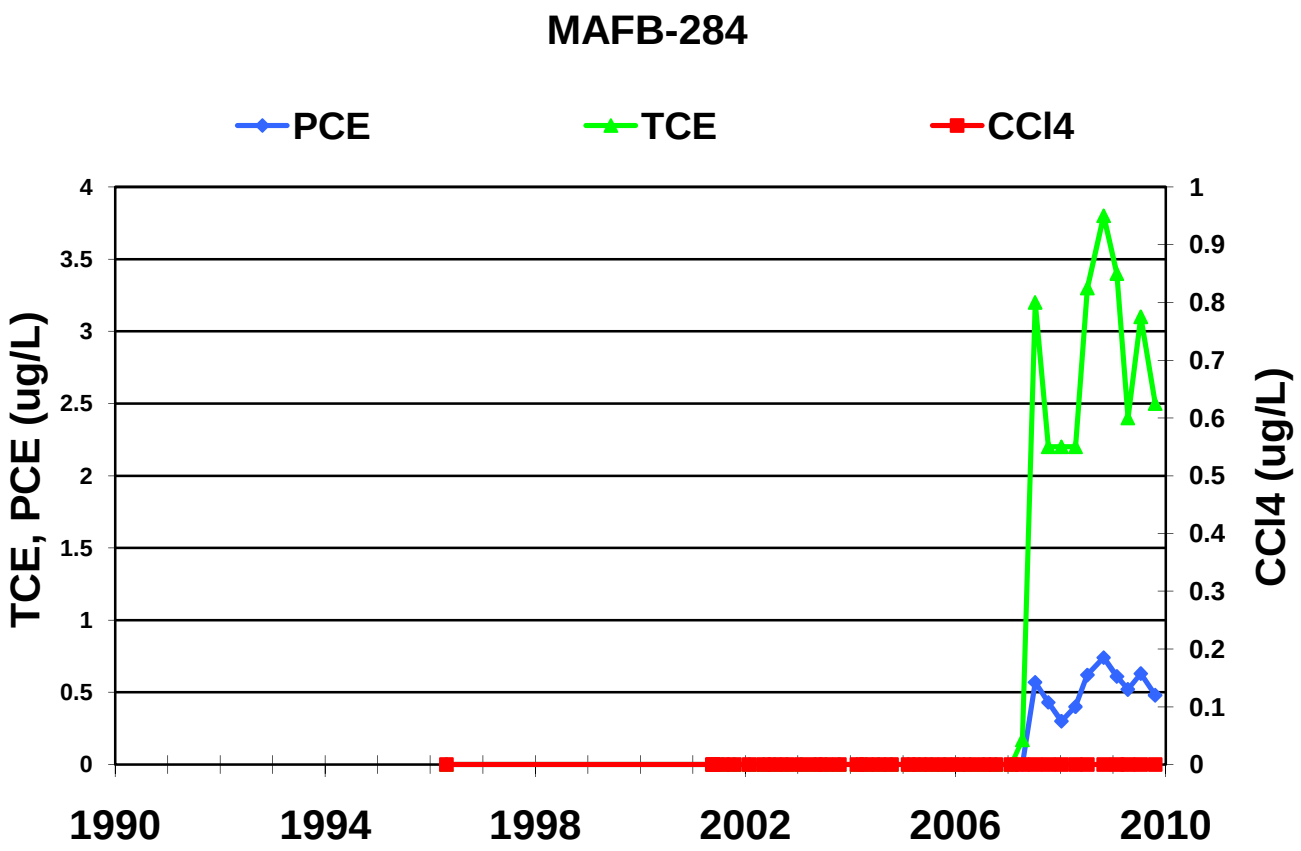

MAFB-278
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

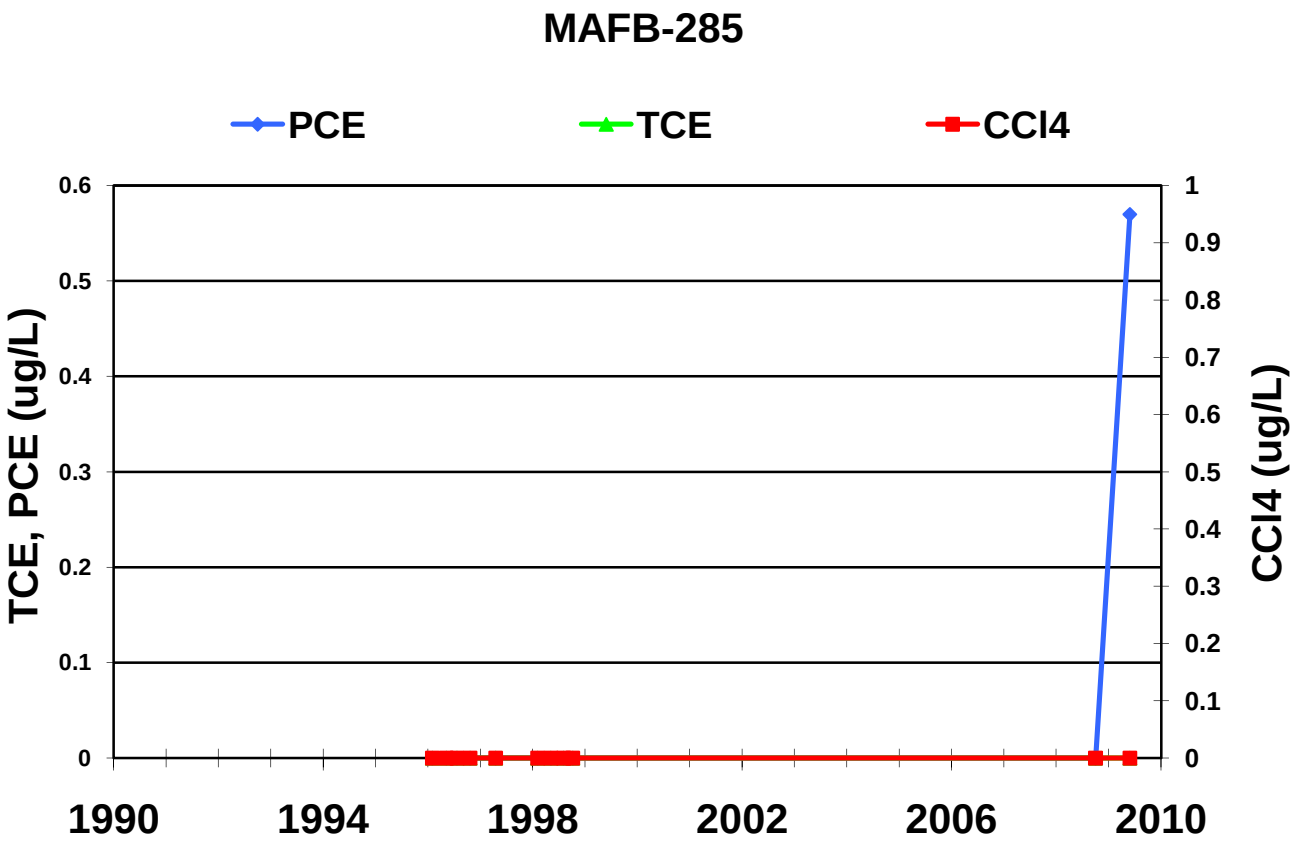

MAFB-280
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

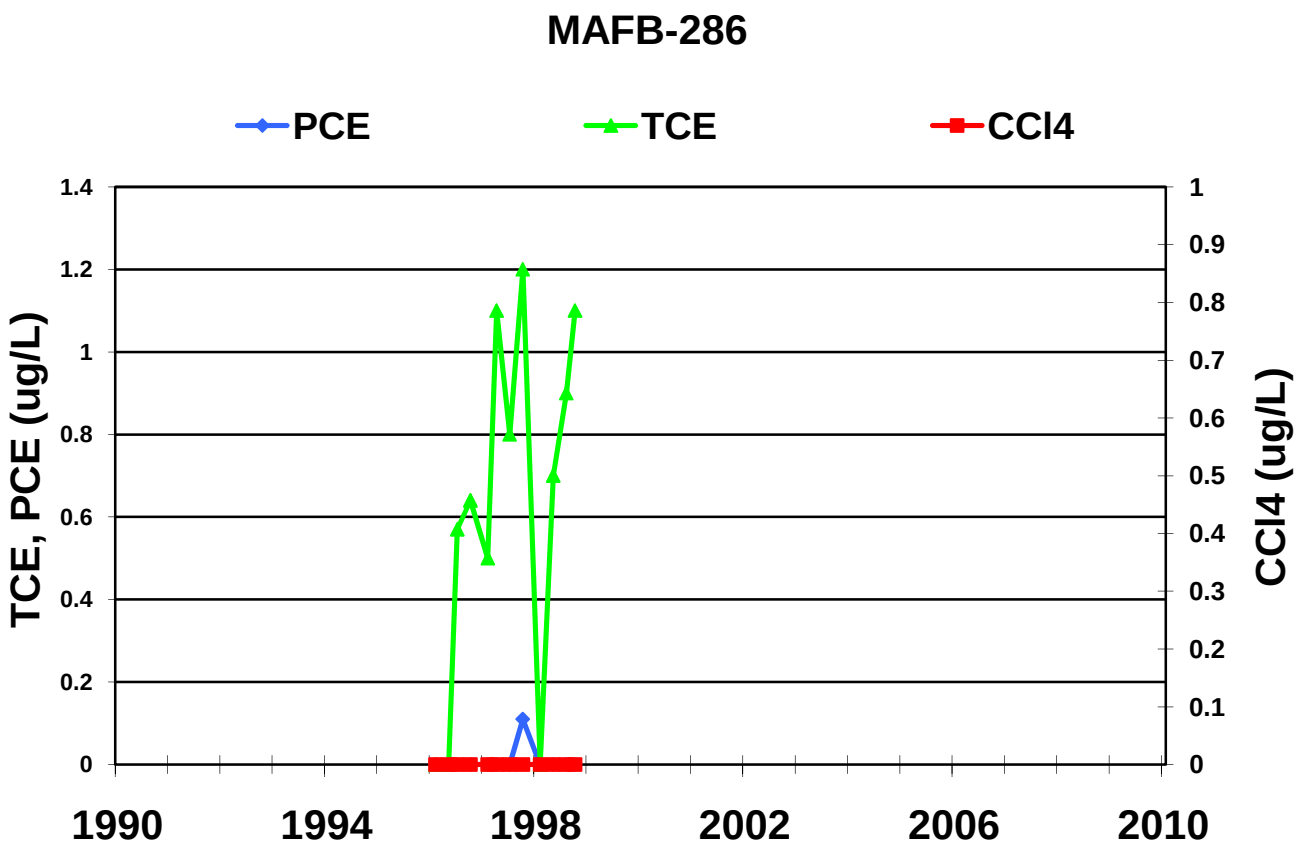

MAFB-281
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

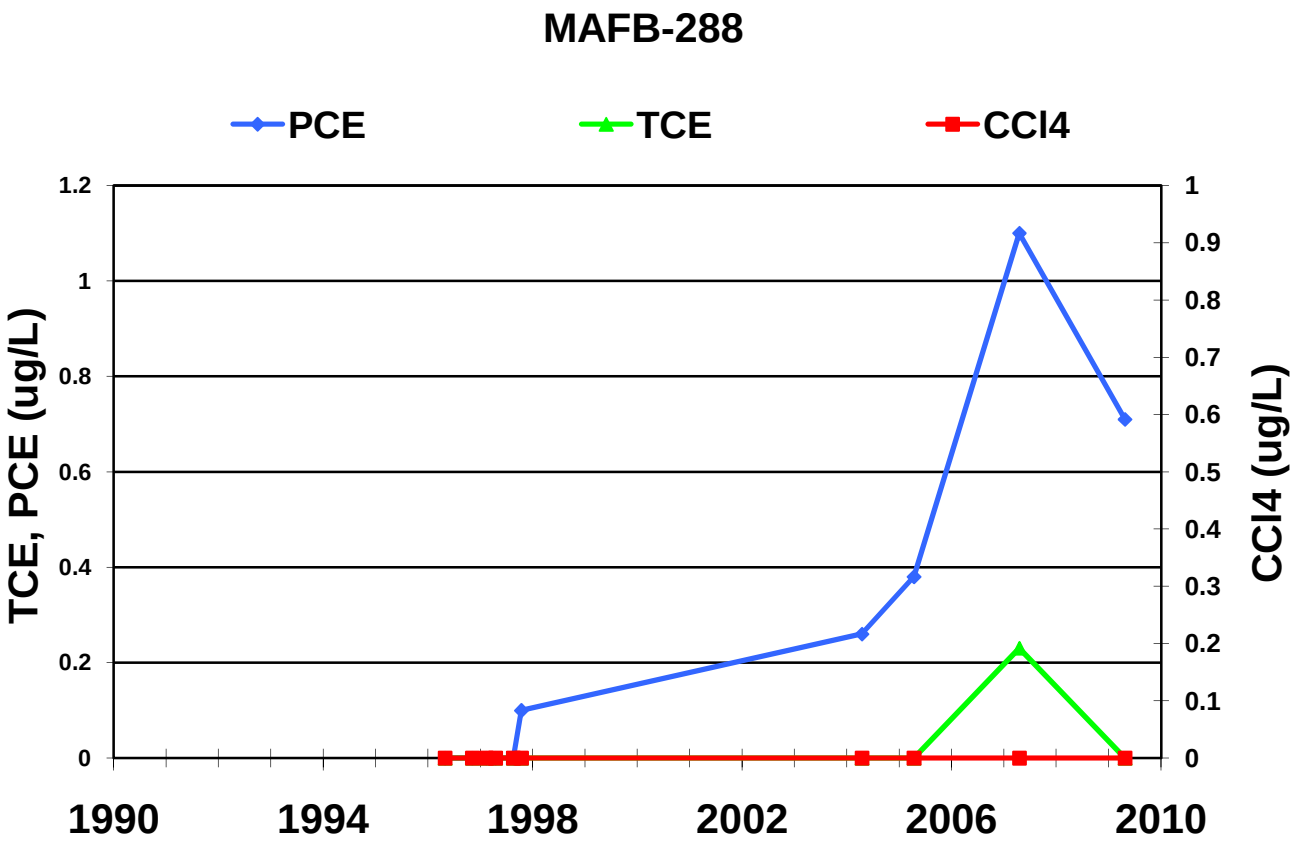

MAFB-282
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
0
0.1
0.2
0.3
0.4
0.5
0.6
1990
1994
1998
2002
2006
2010

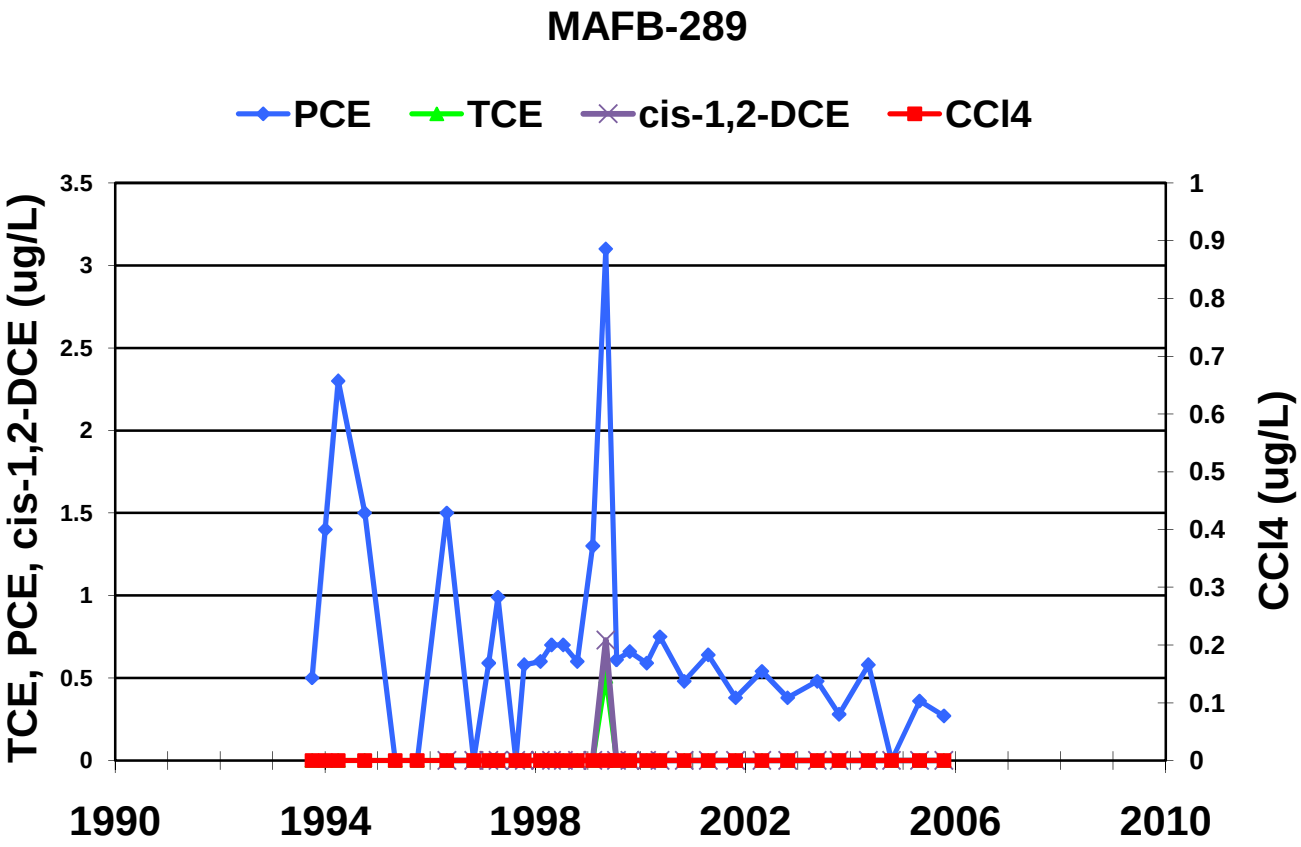

MAFB-283
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

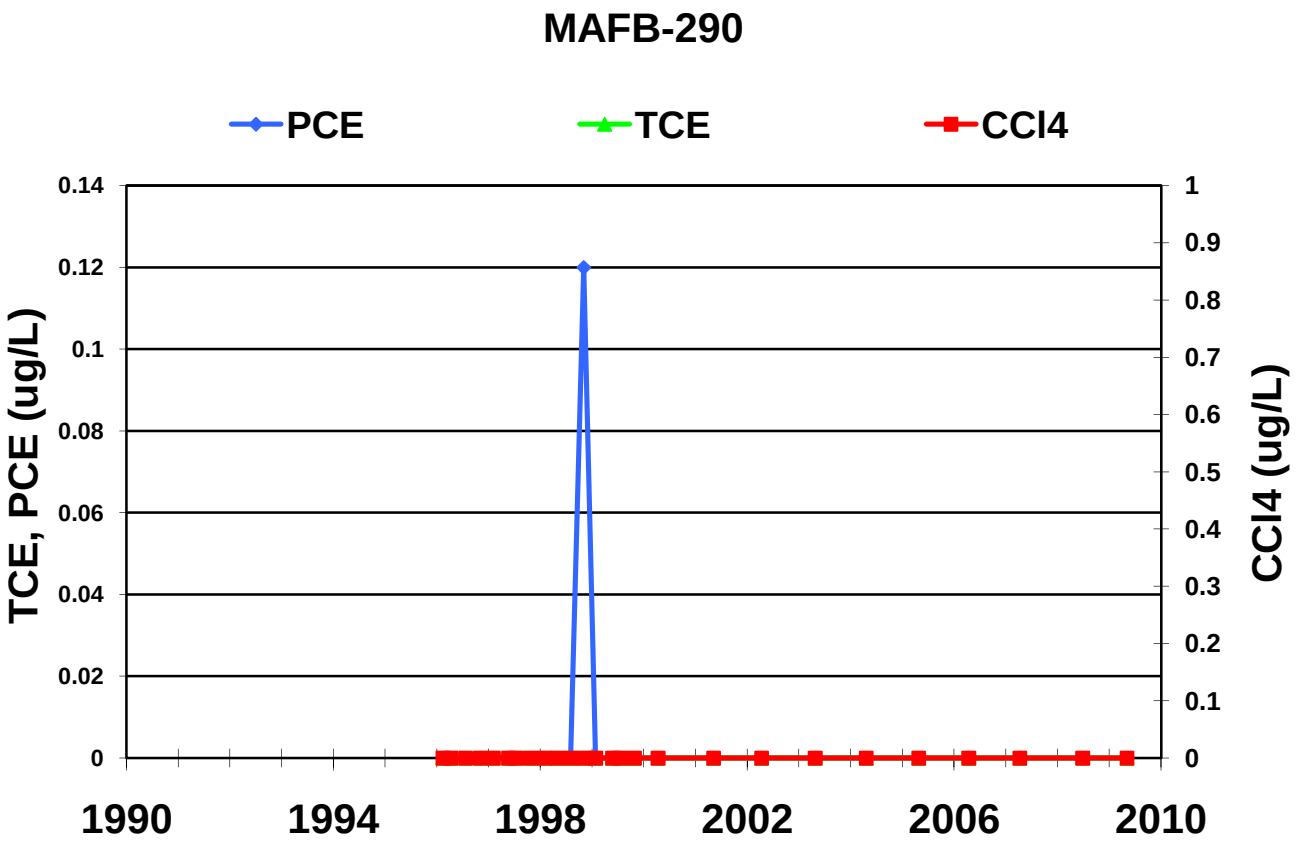

MAFB-284
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
3.5
4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

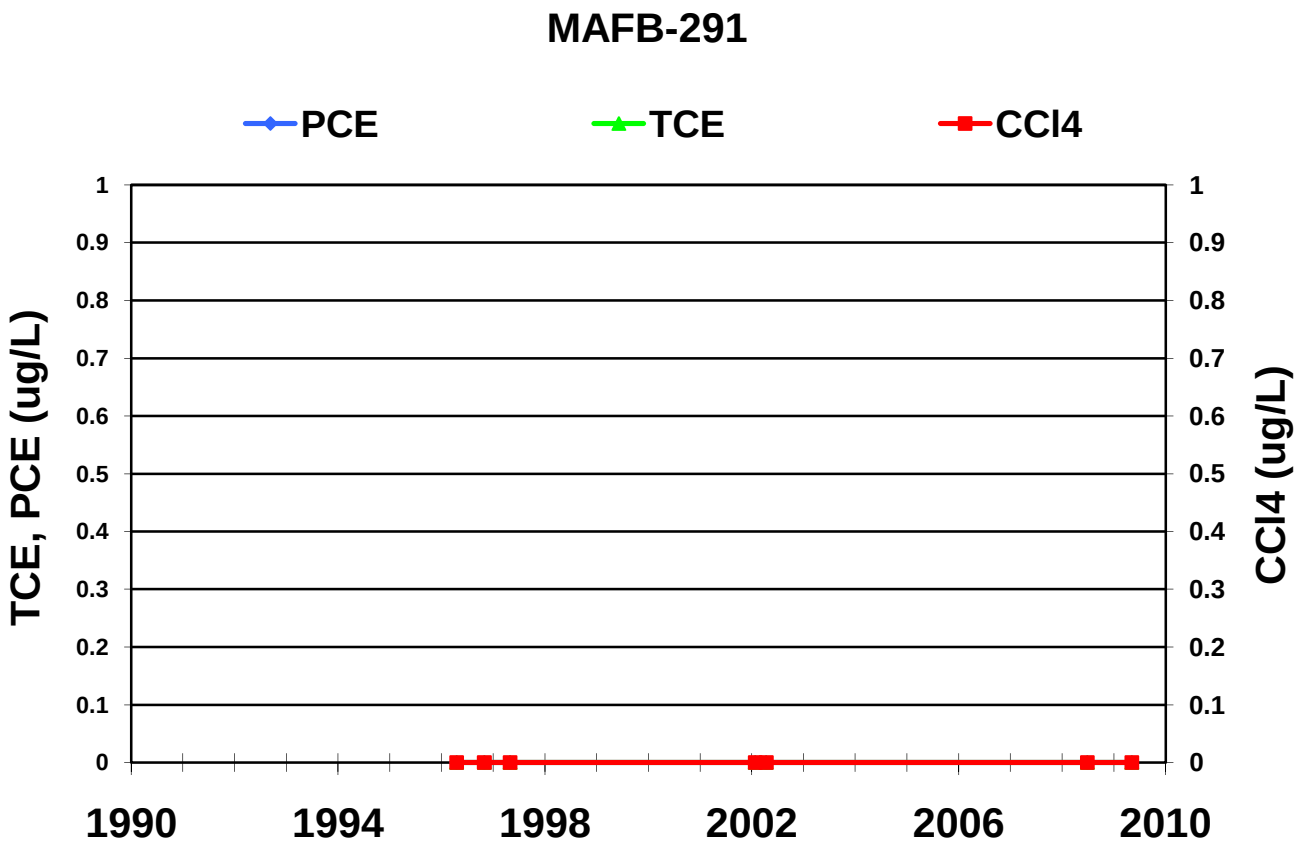

MAFB-285
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

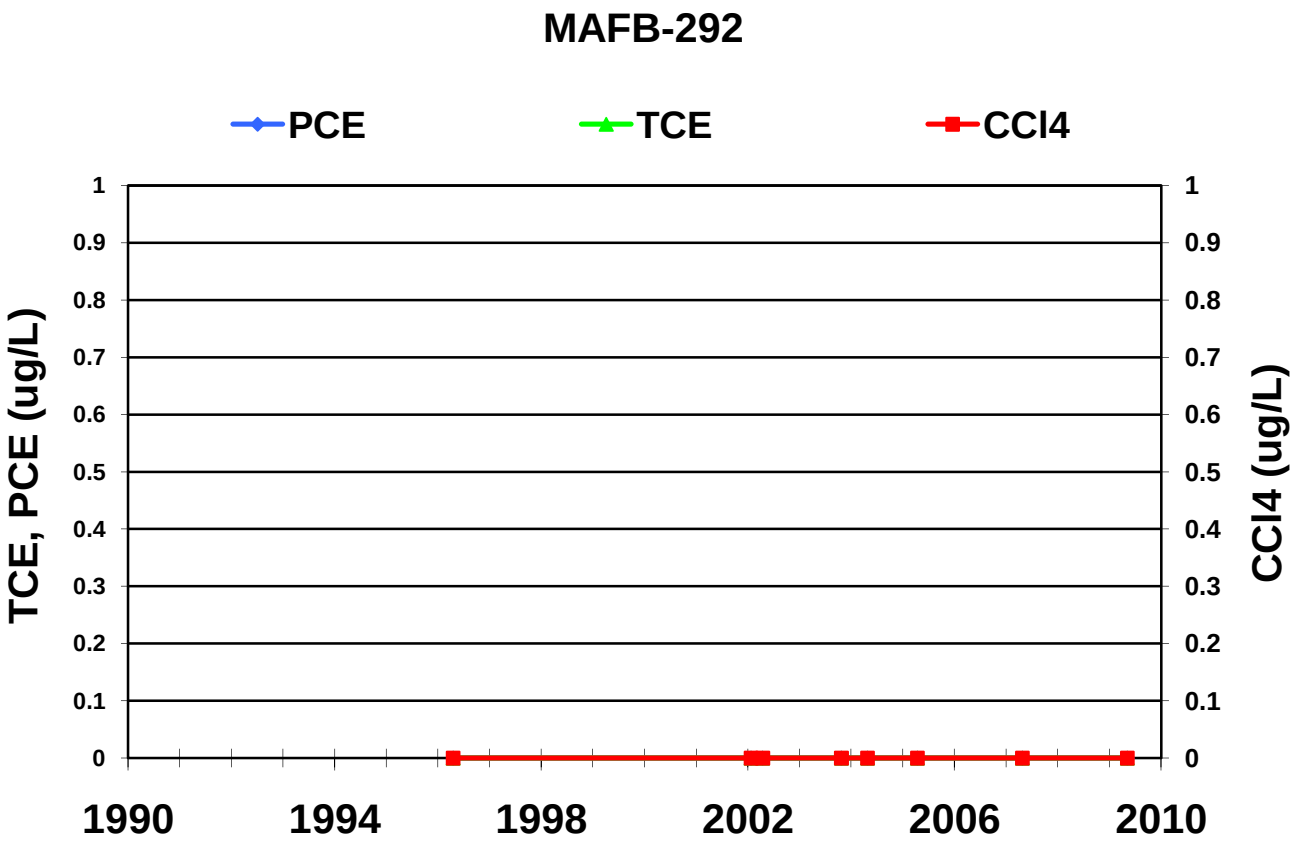

MAFB-286
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

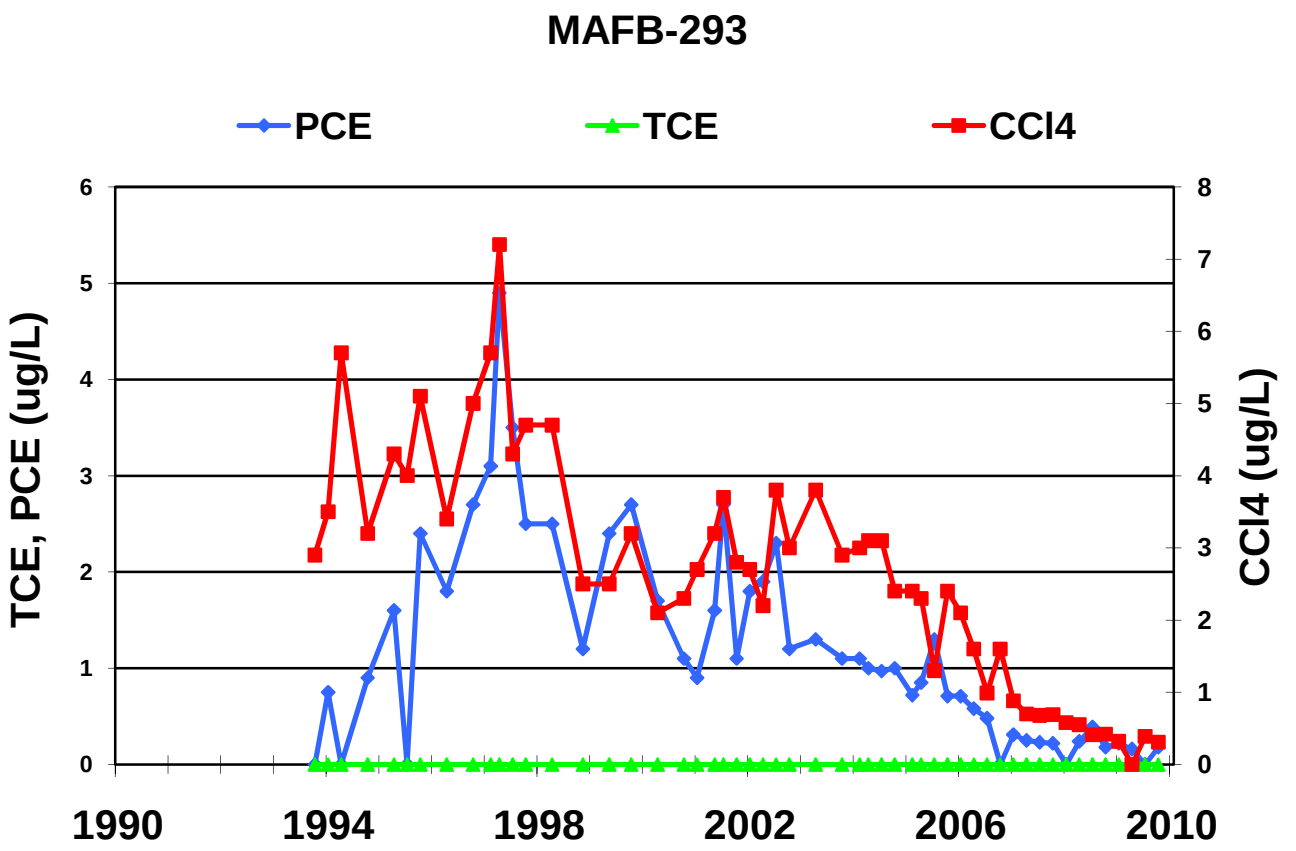

MAFB-288
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

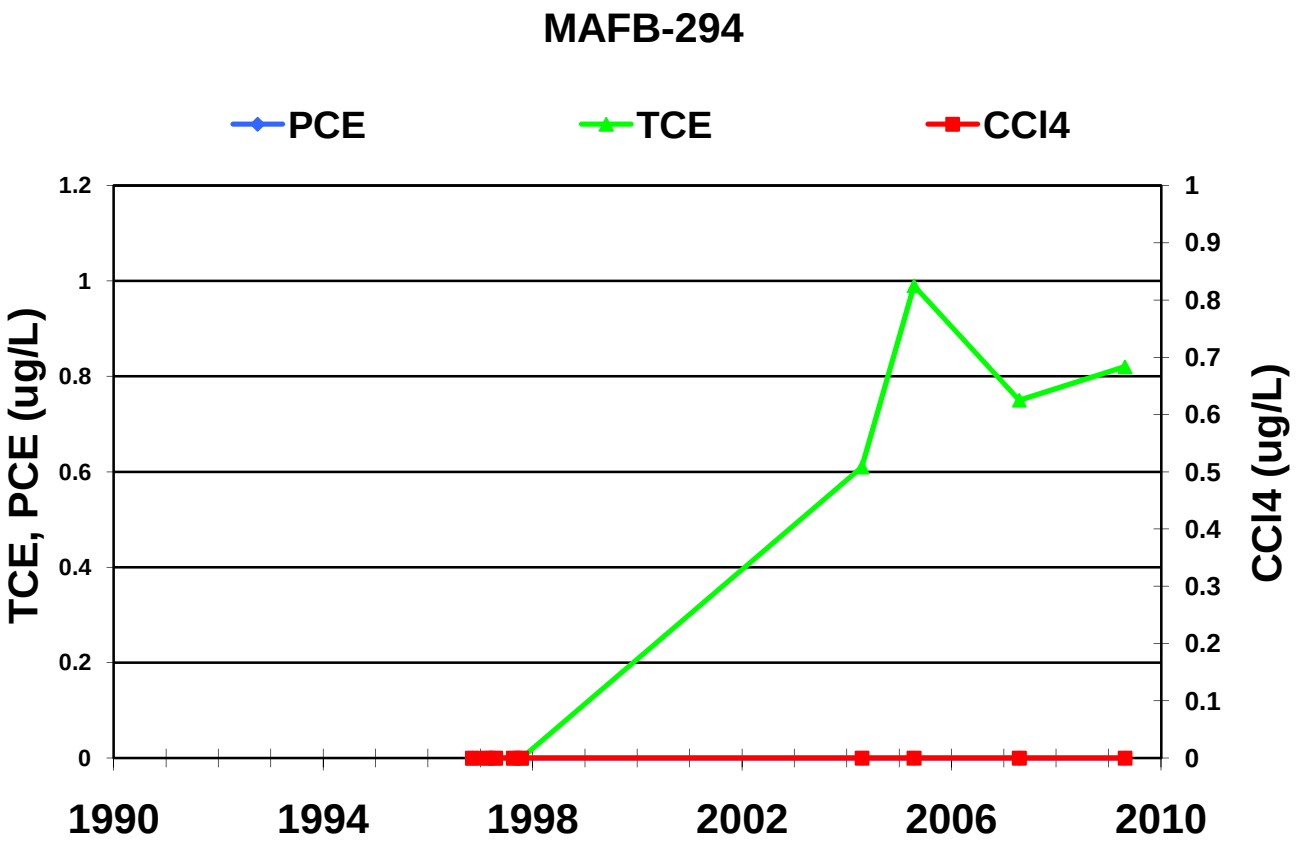

MAFB-289
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

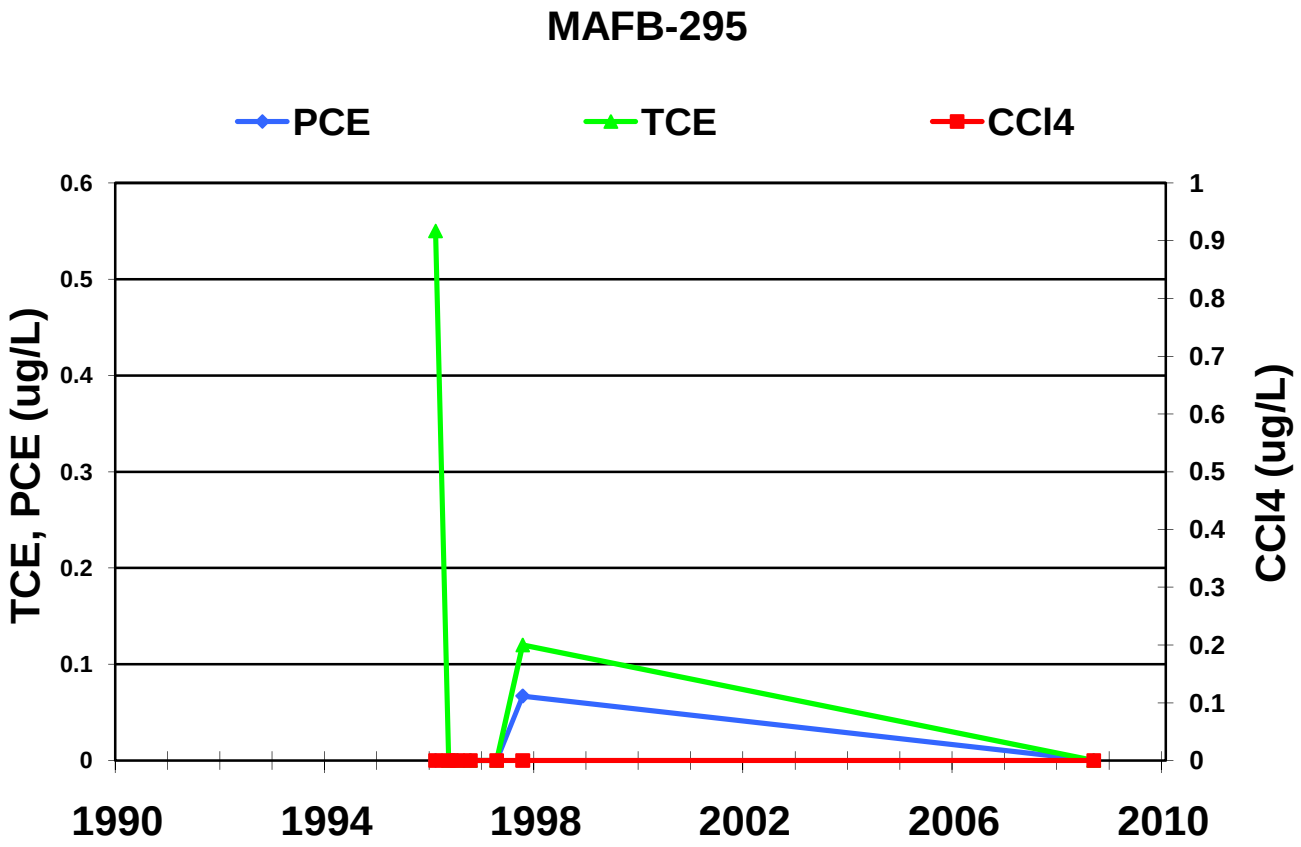

MAFB-290
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

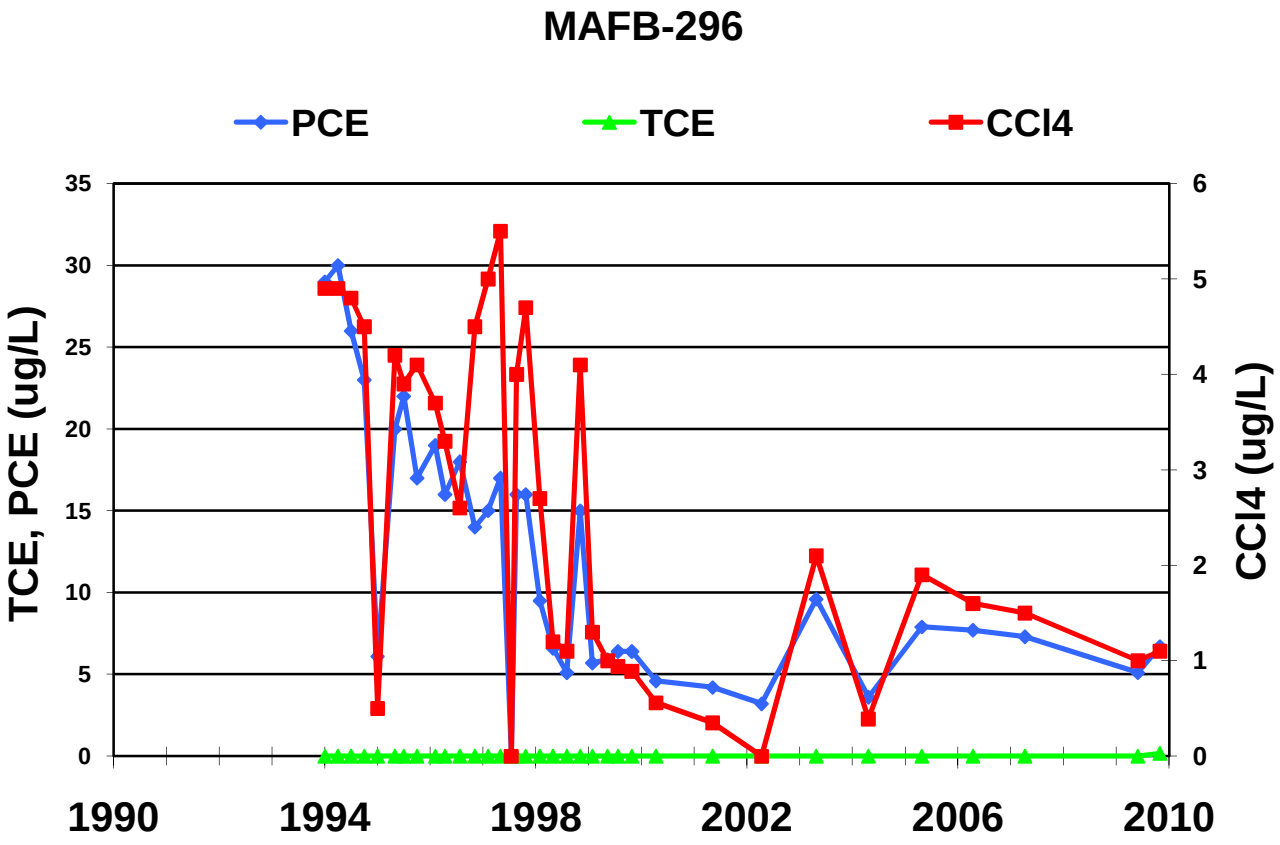

MAFB-291
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

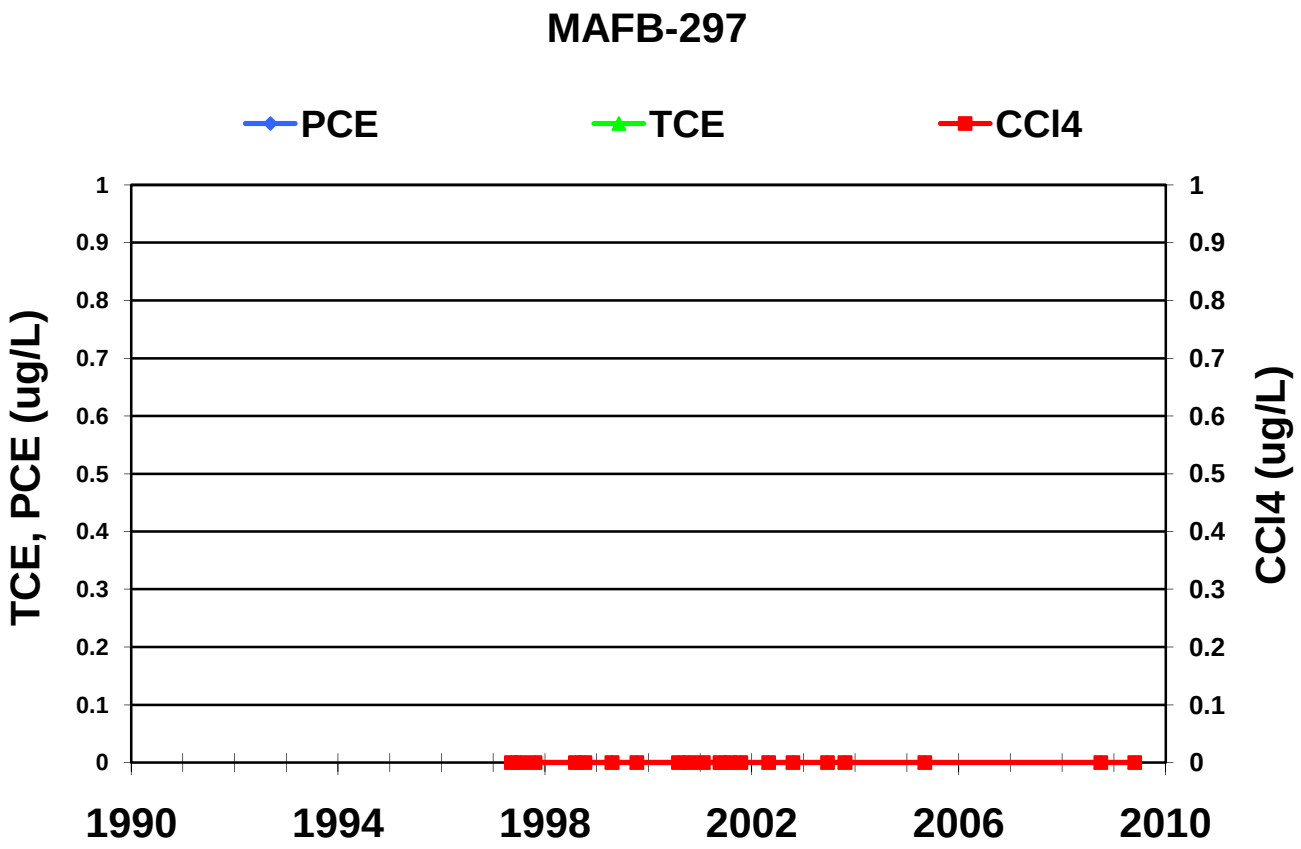

MAFB-292
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

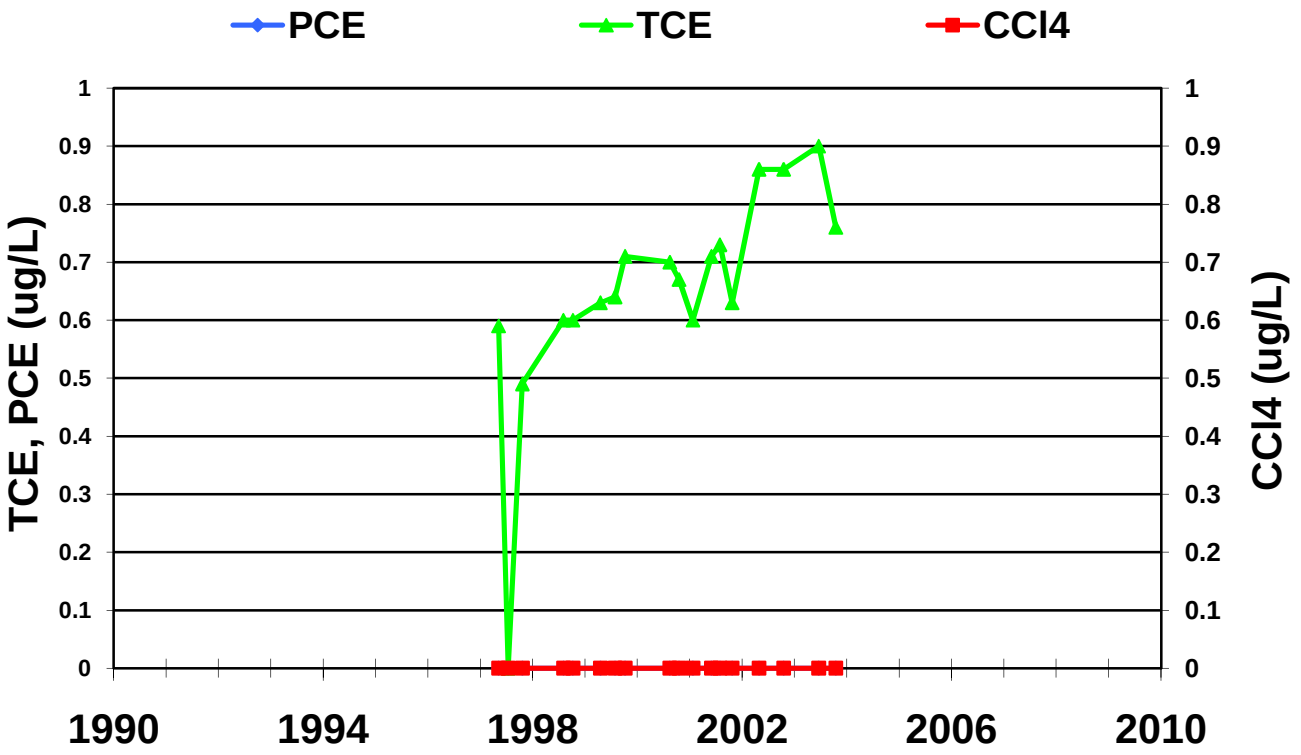

MAFB-293
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
1
2
3
4
5
6
7
8
1990
1994
1998
2002
2006
2010

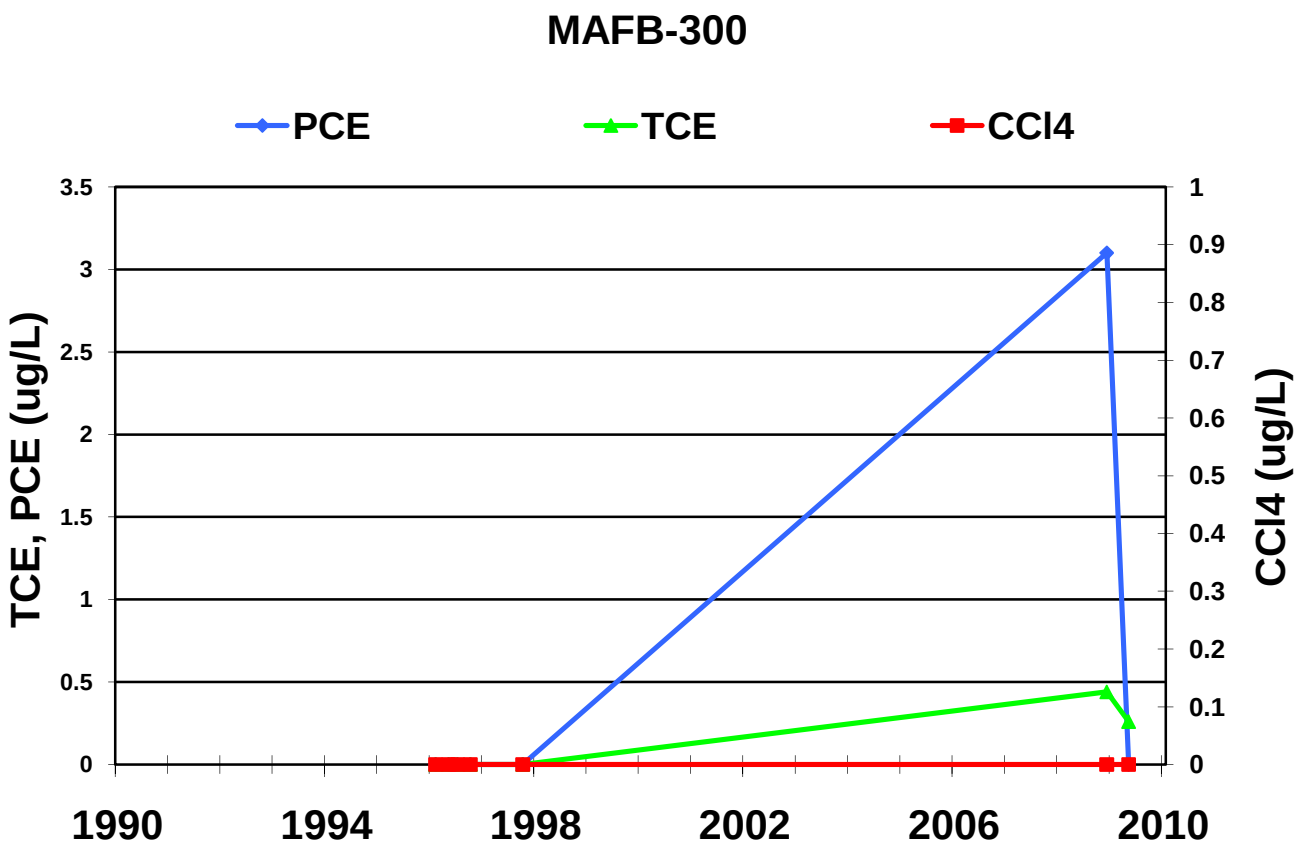

MAFB-294
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

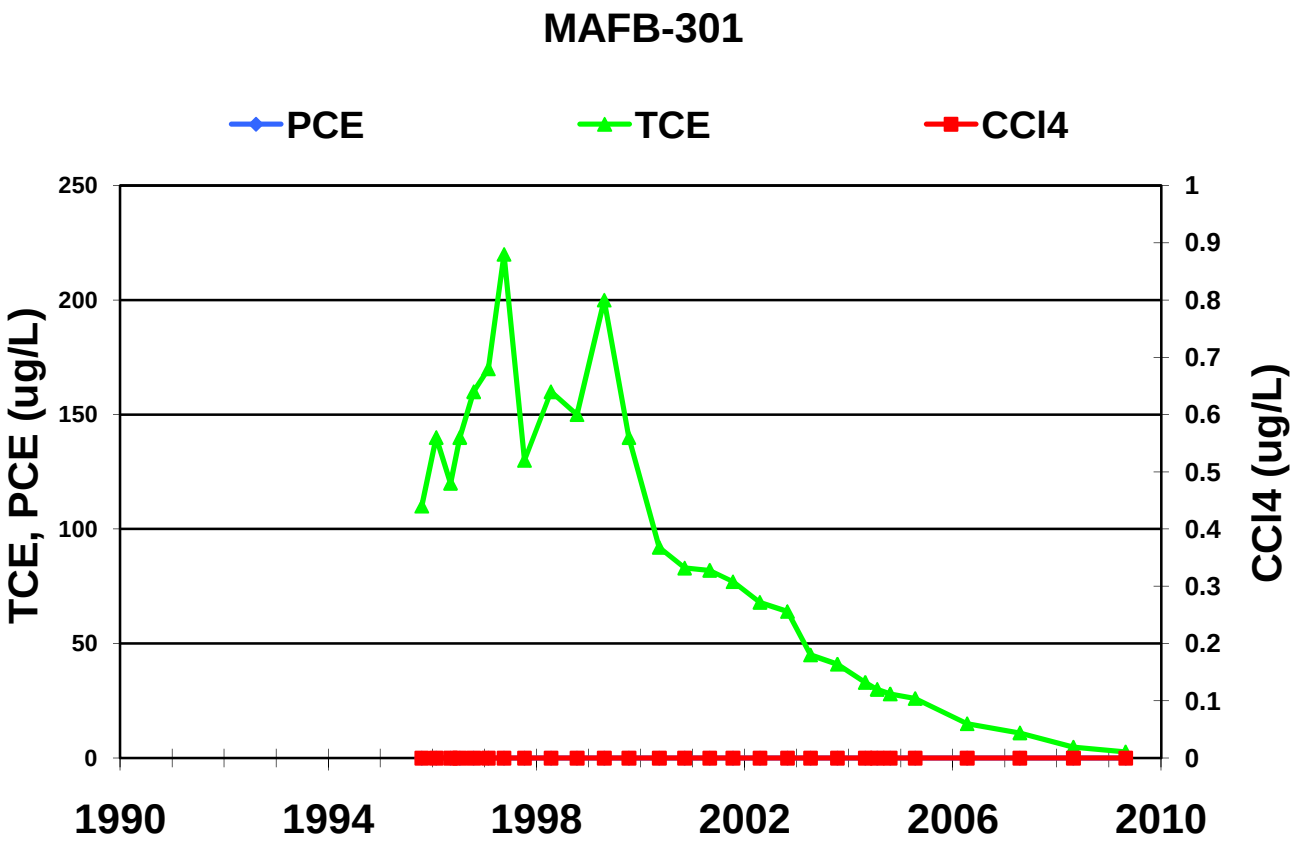

MAFB-295
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

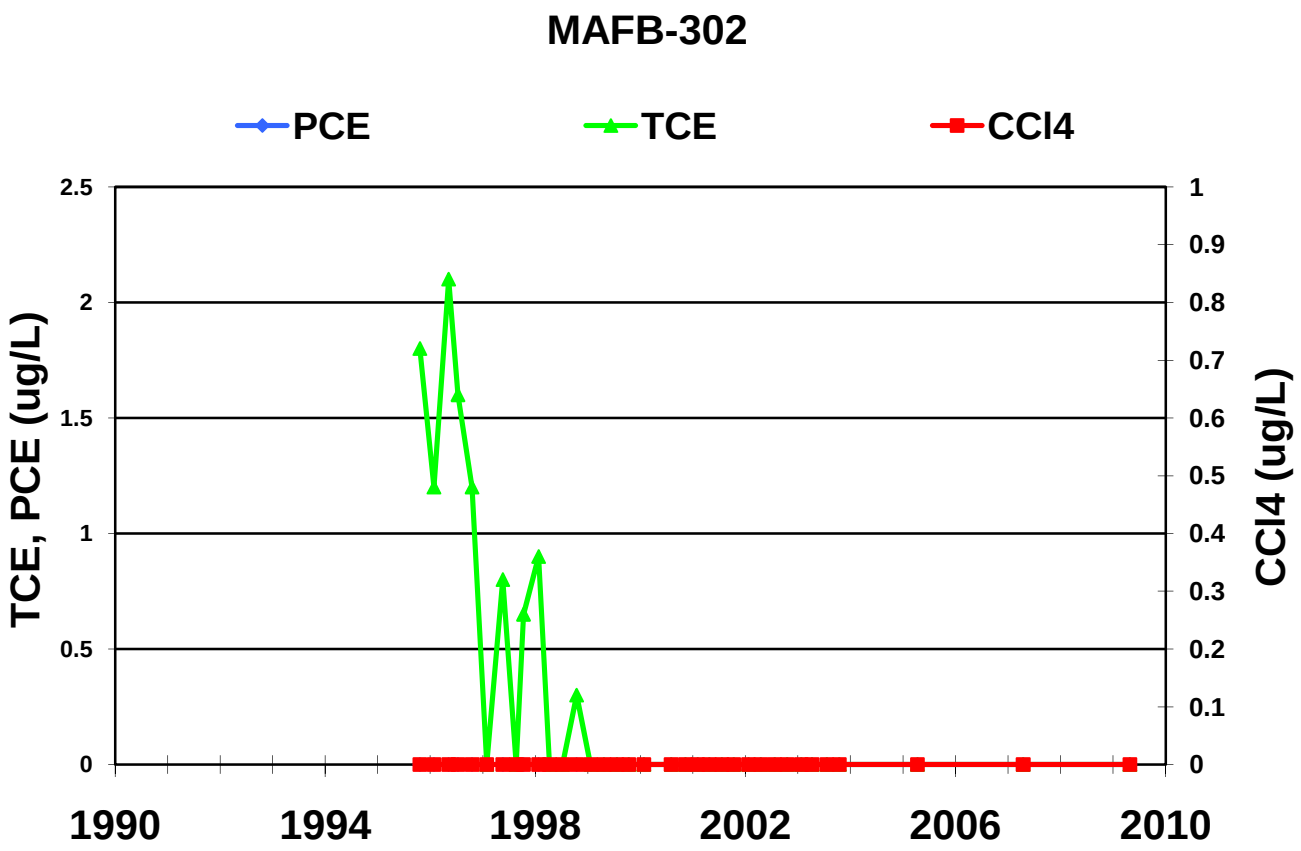

MAFB-296
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
35
30
25
20
15
10
5
0
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

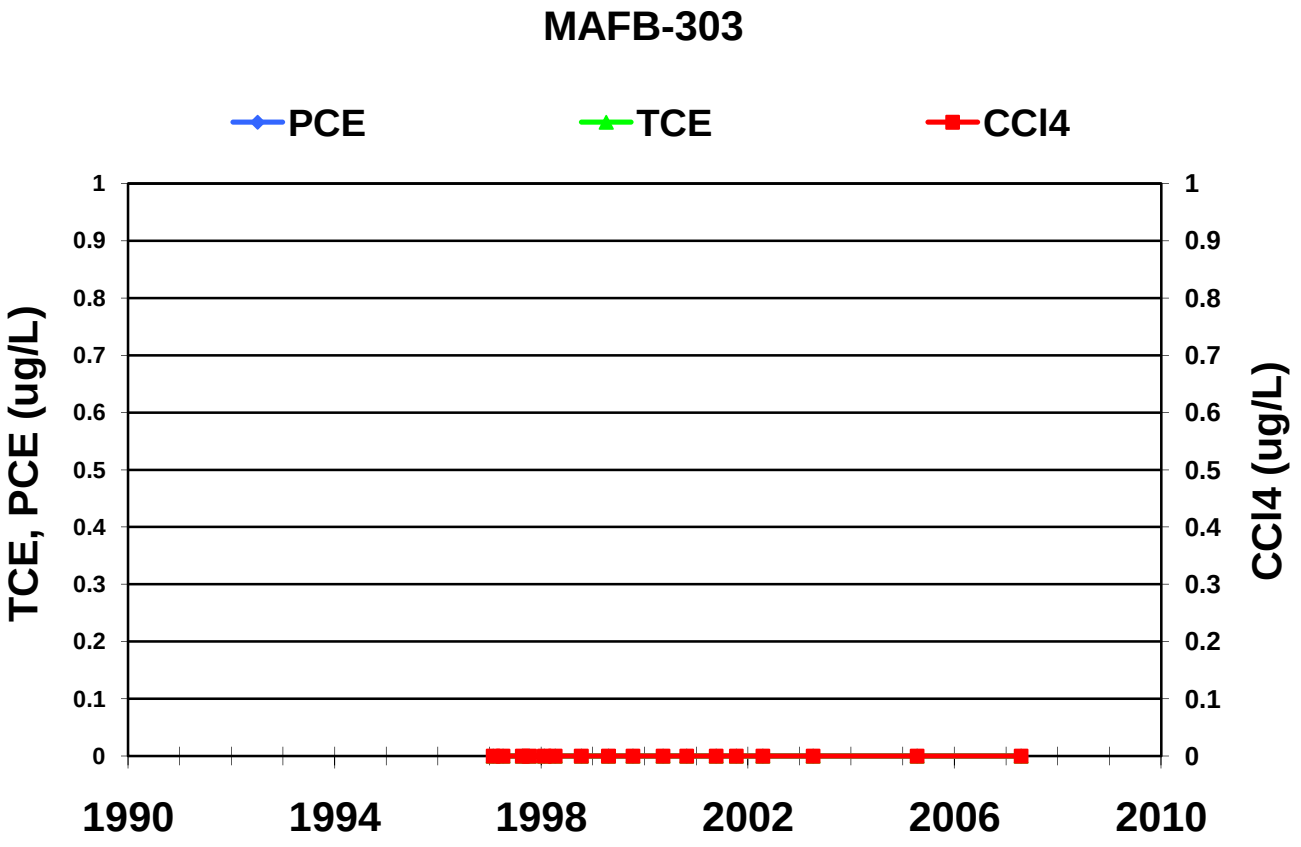

MAFB-297
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

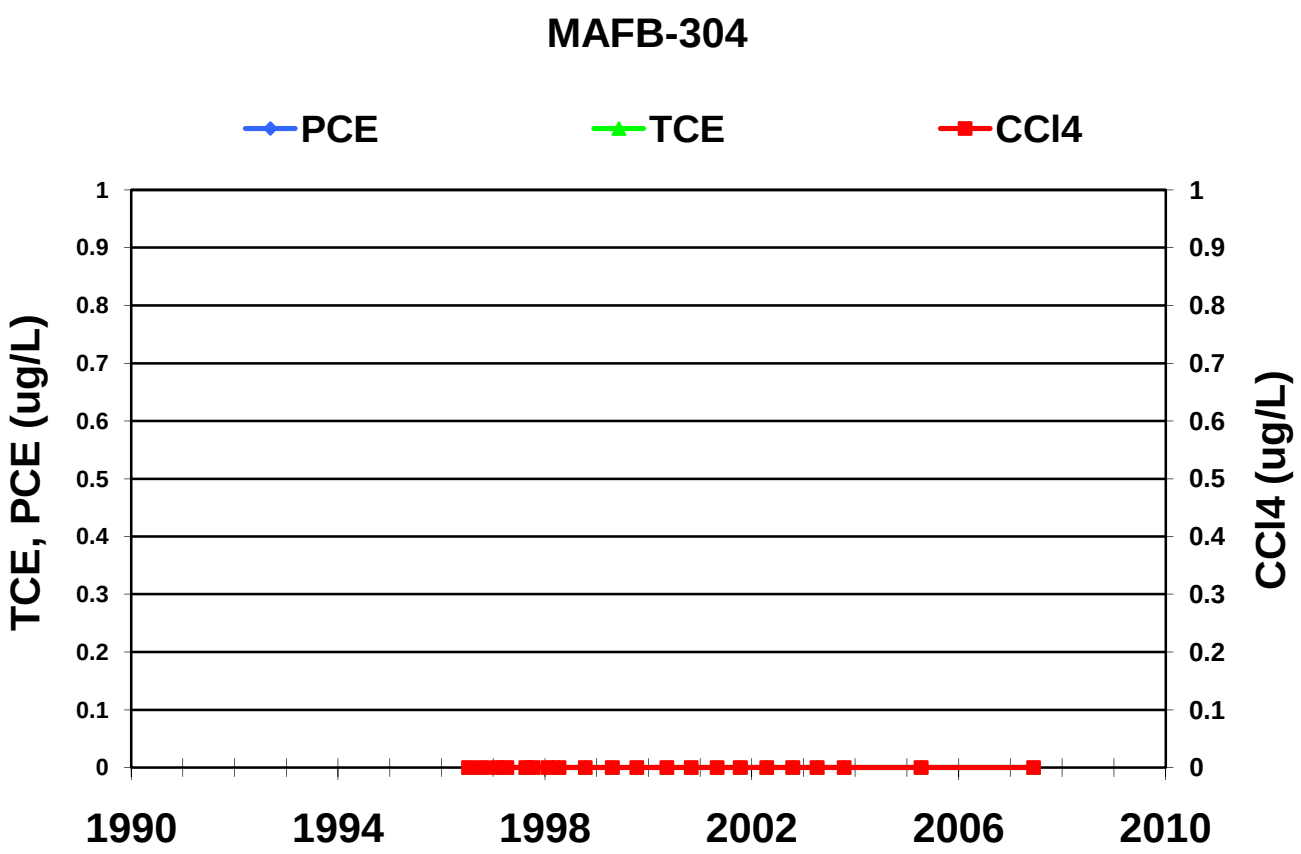

PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

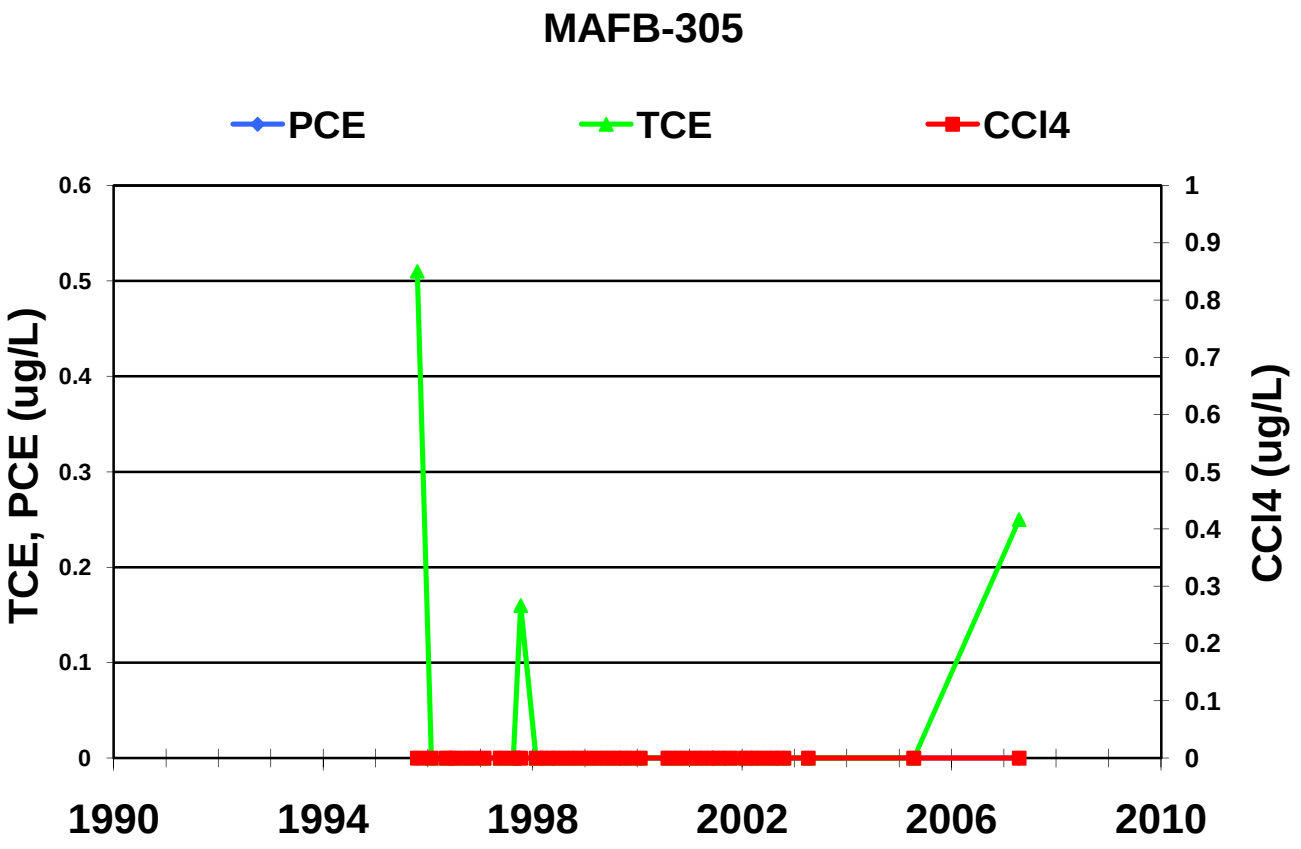

MAFB-300
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

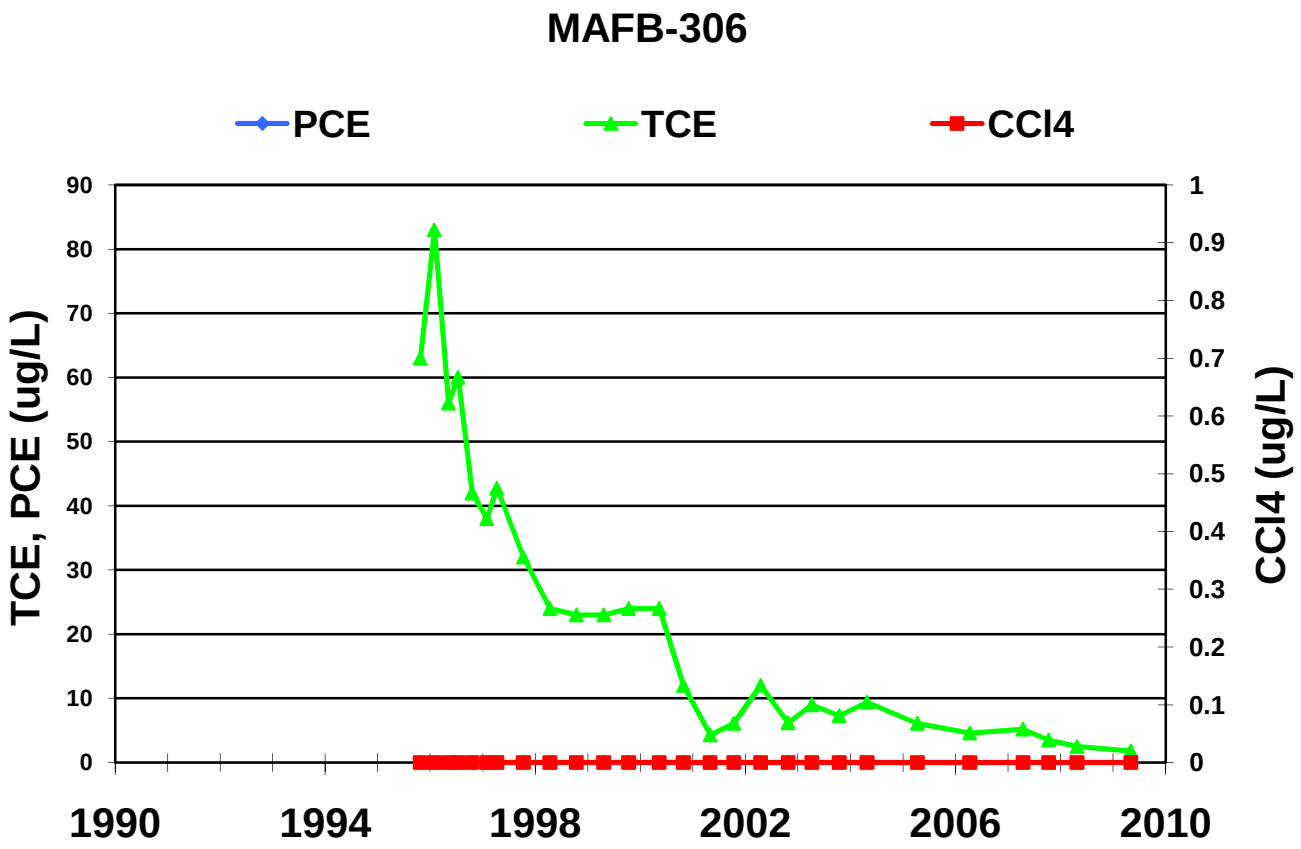

MAFB-301
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
250
200
150
100
50
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

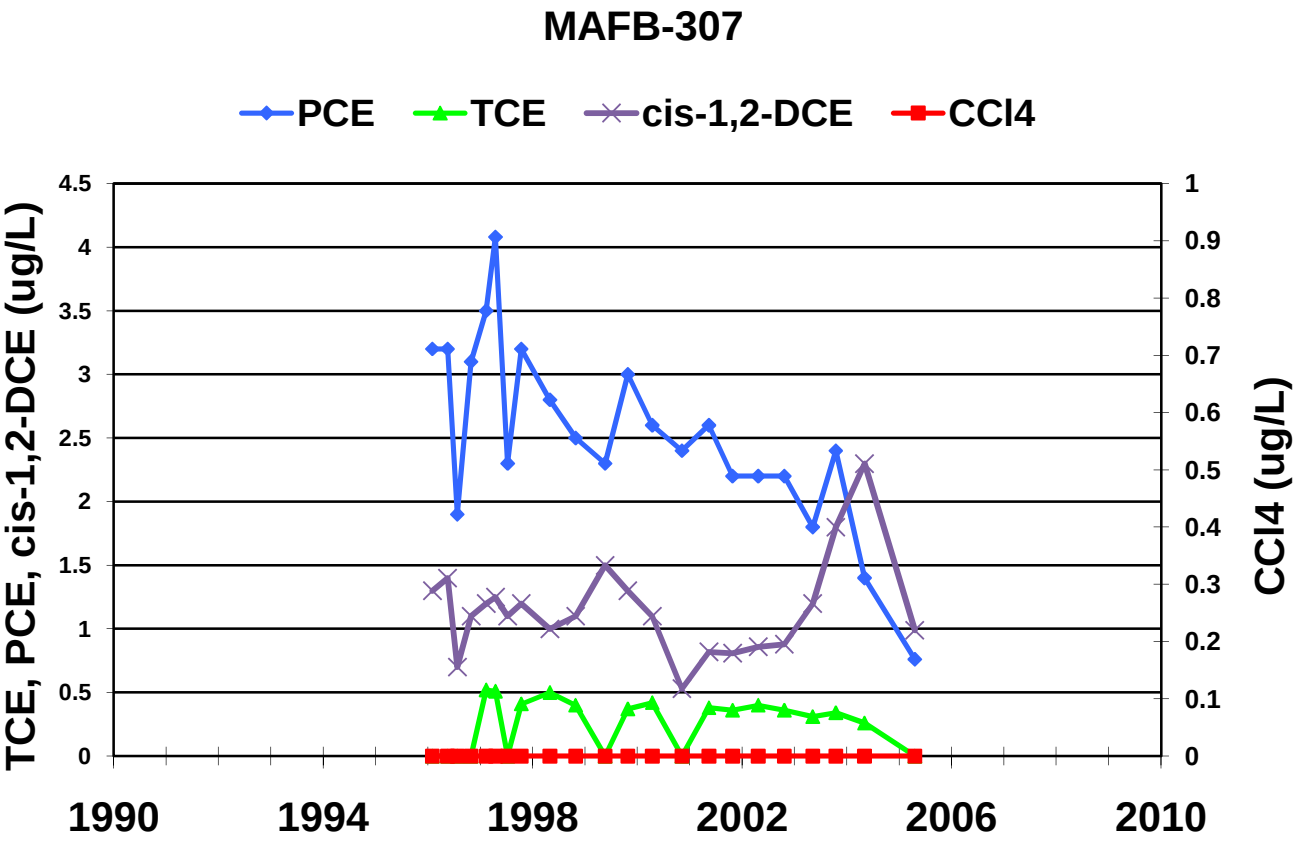

MAFB-302
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-303
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

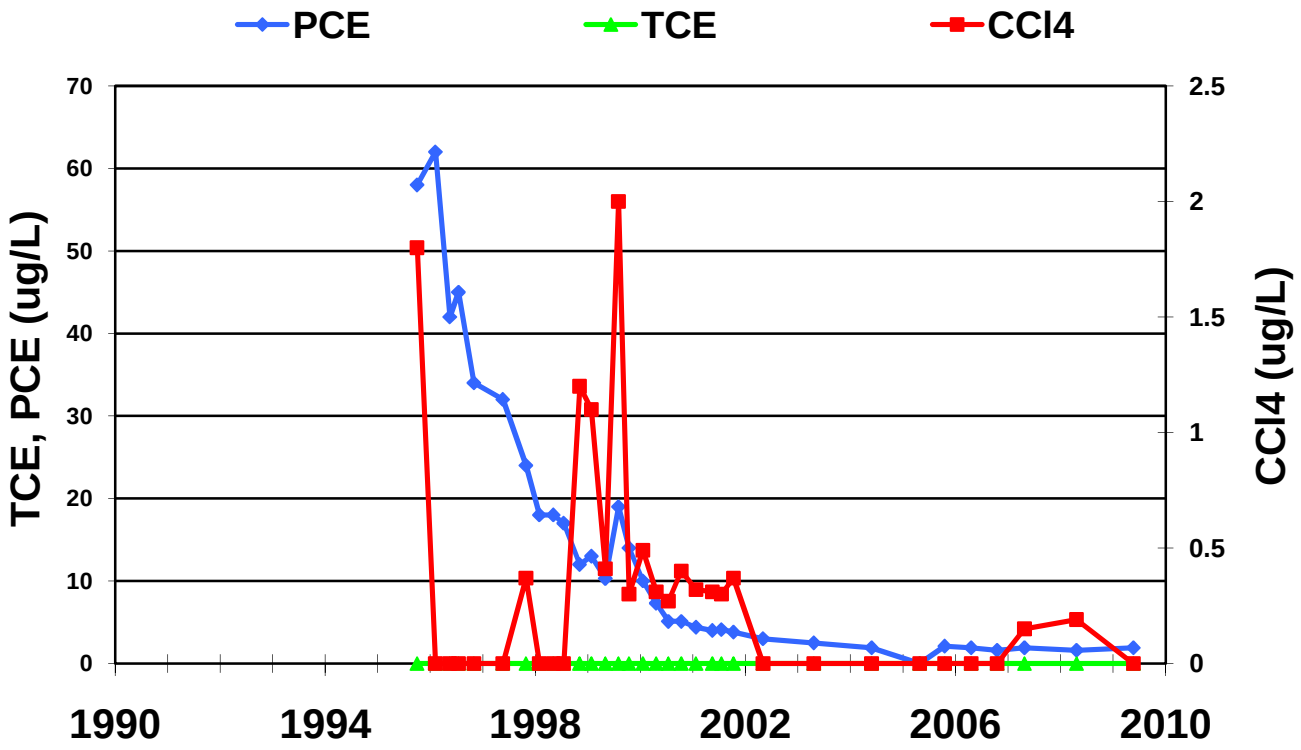

MAFB-304
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010


MAFB-305
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

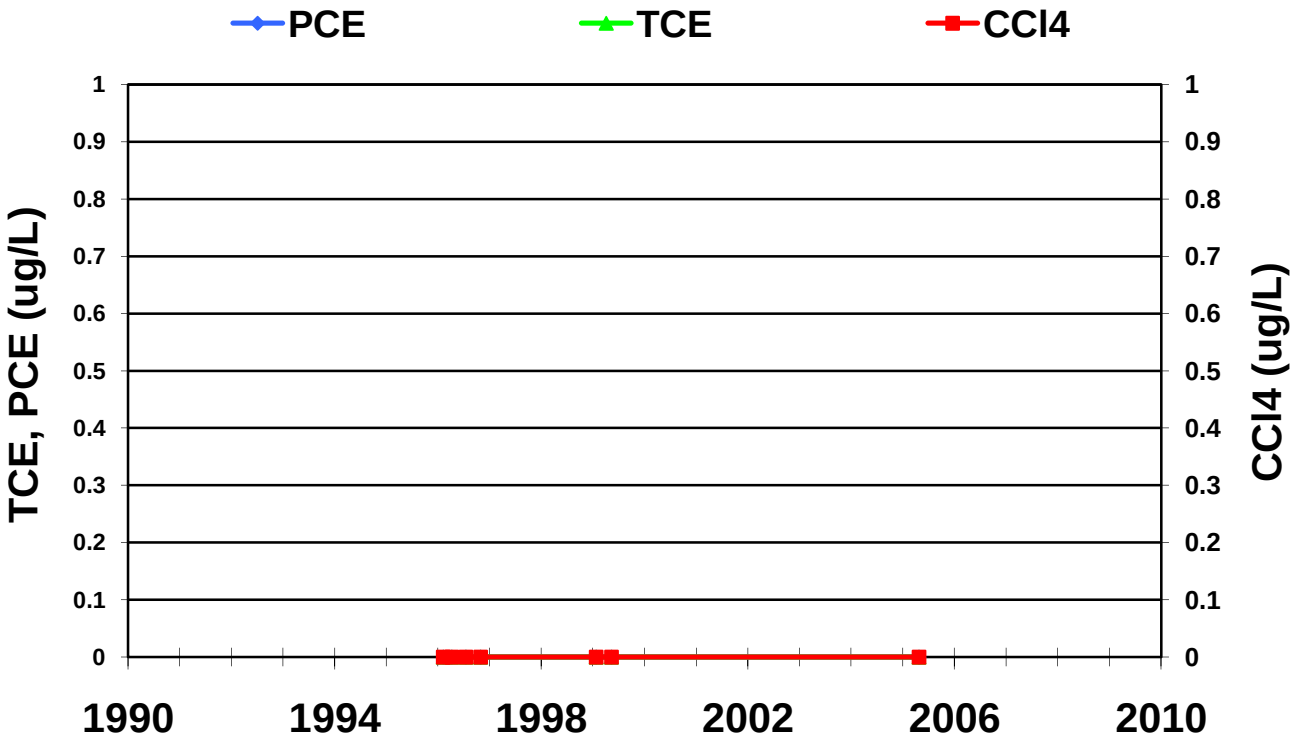

MAFB-306
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

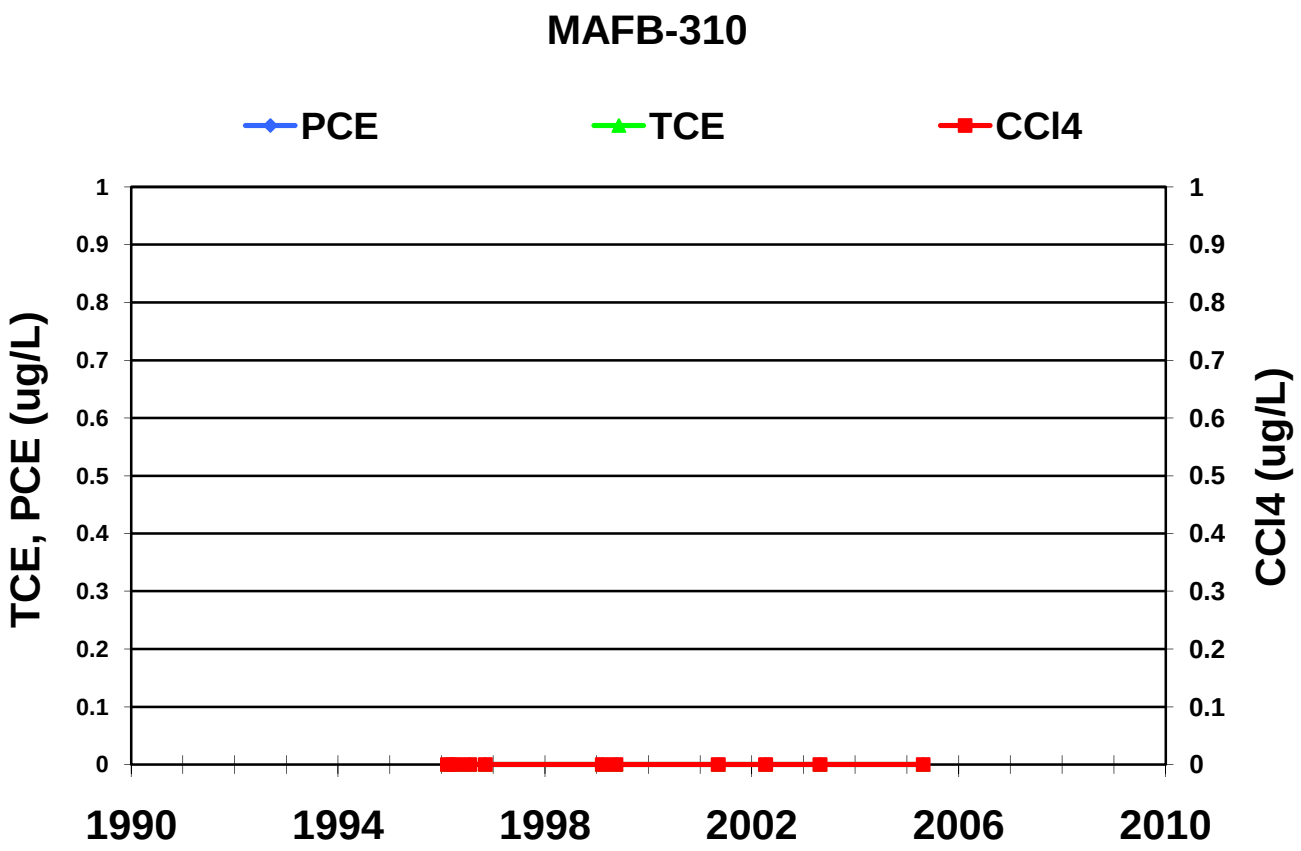

MAFB-307
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

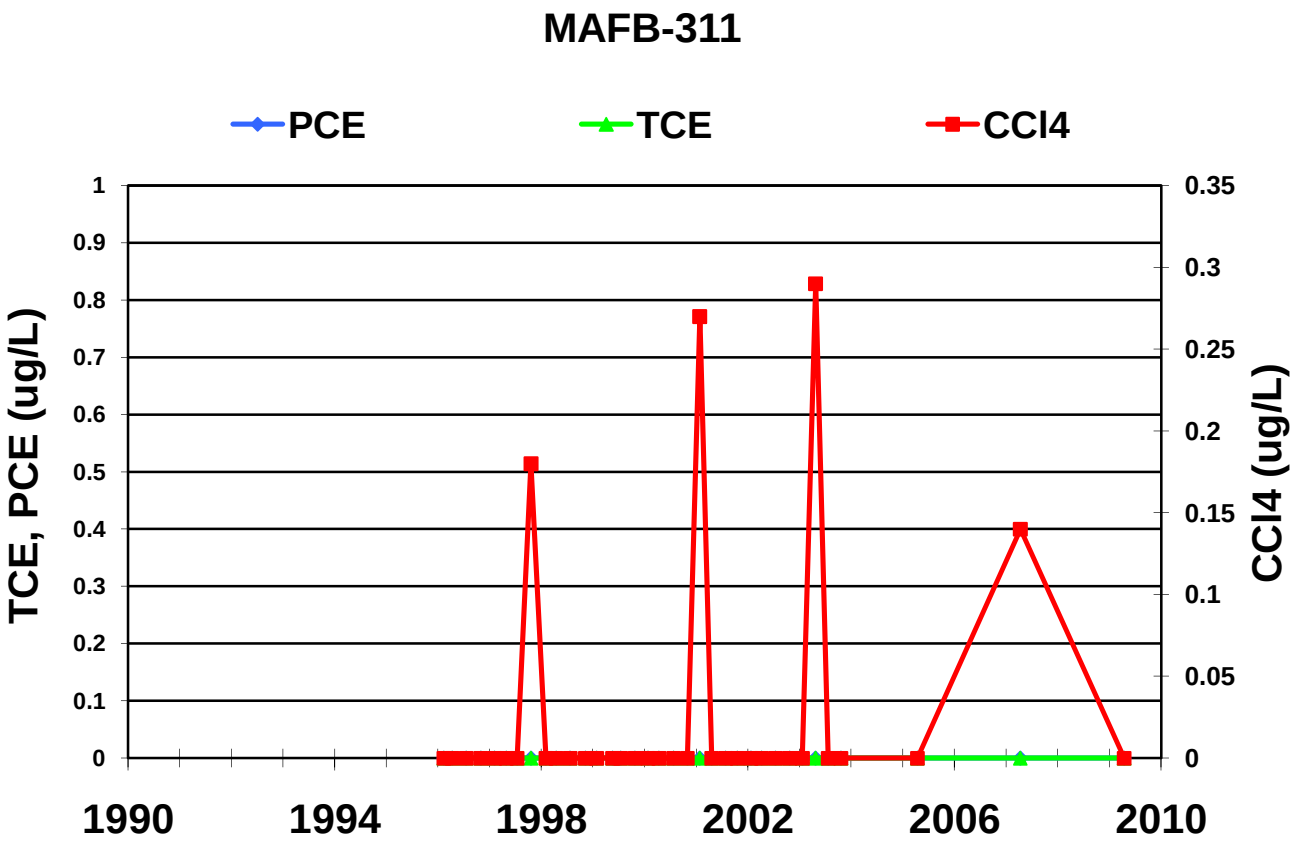
MAFB-308

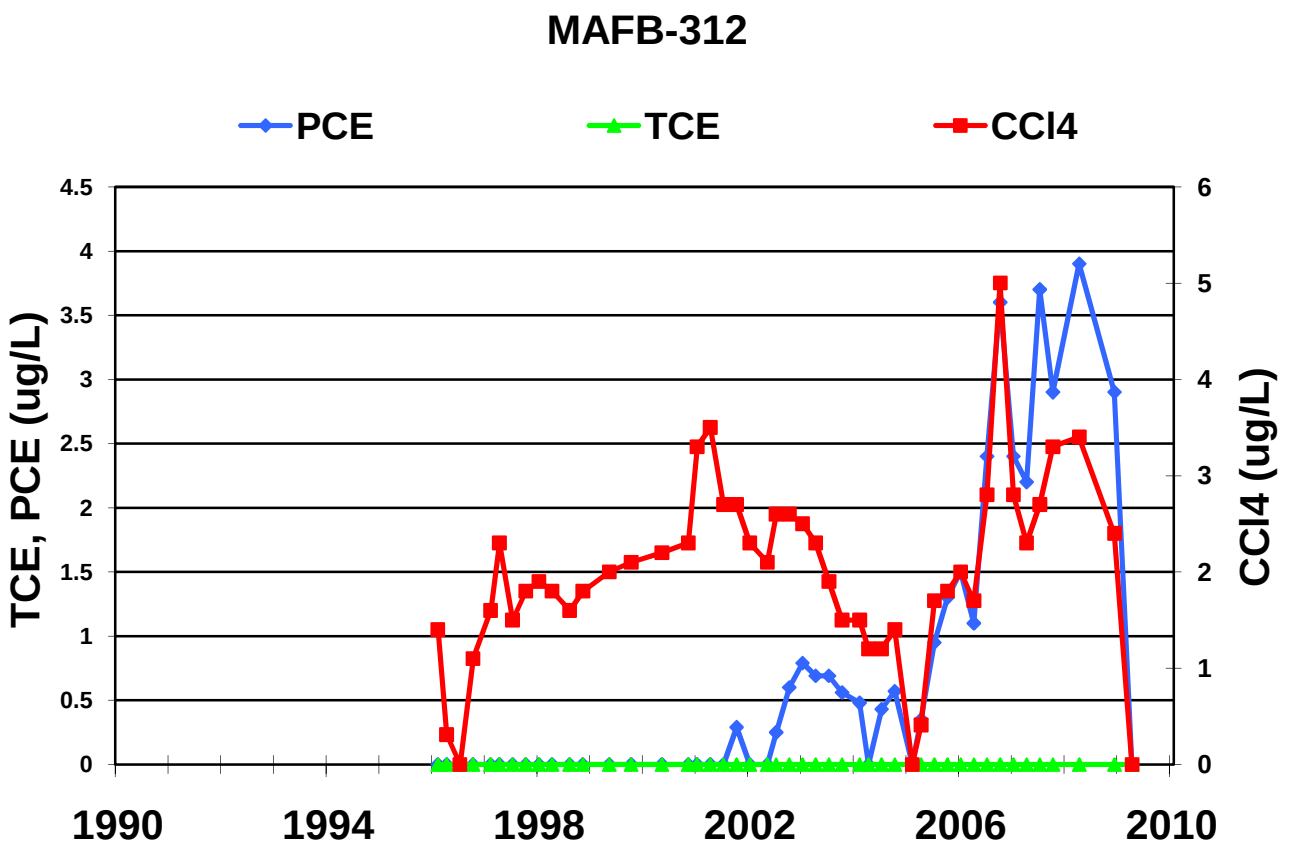


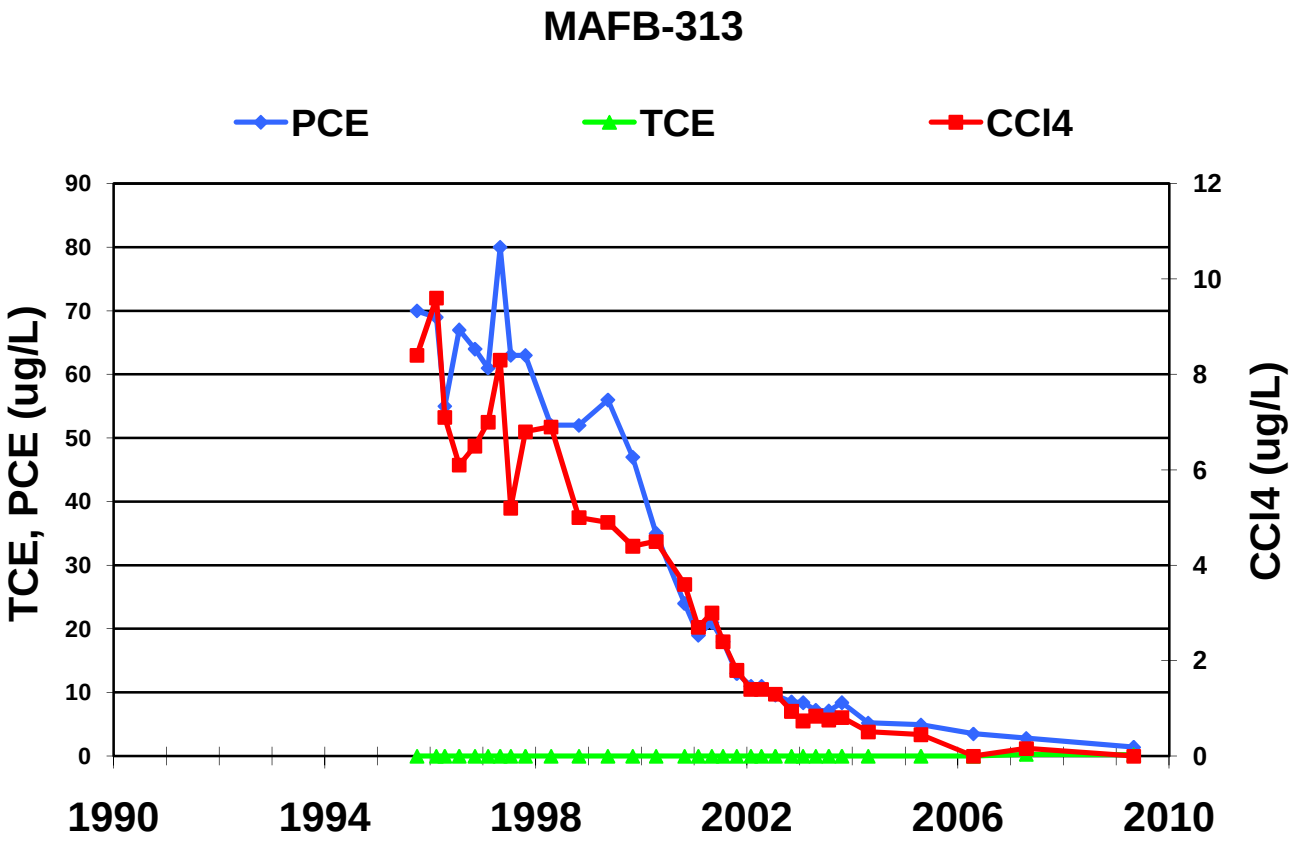
MAFB-309

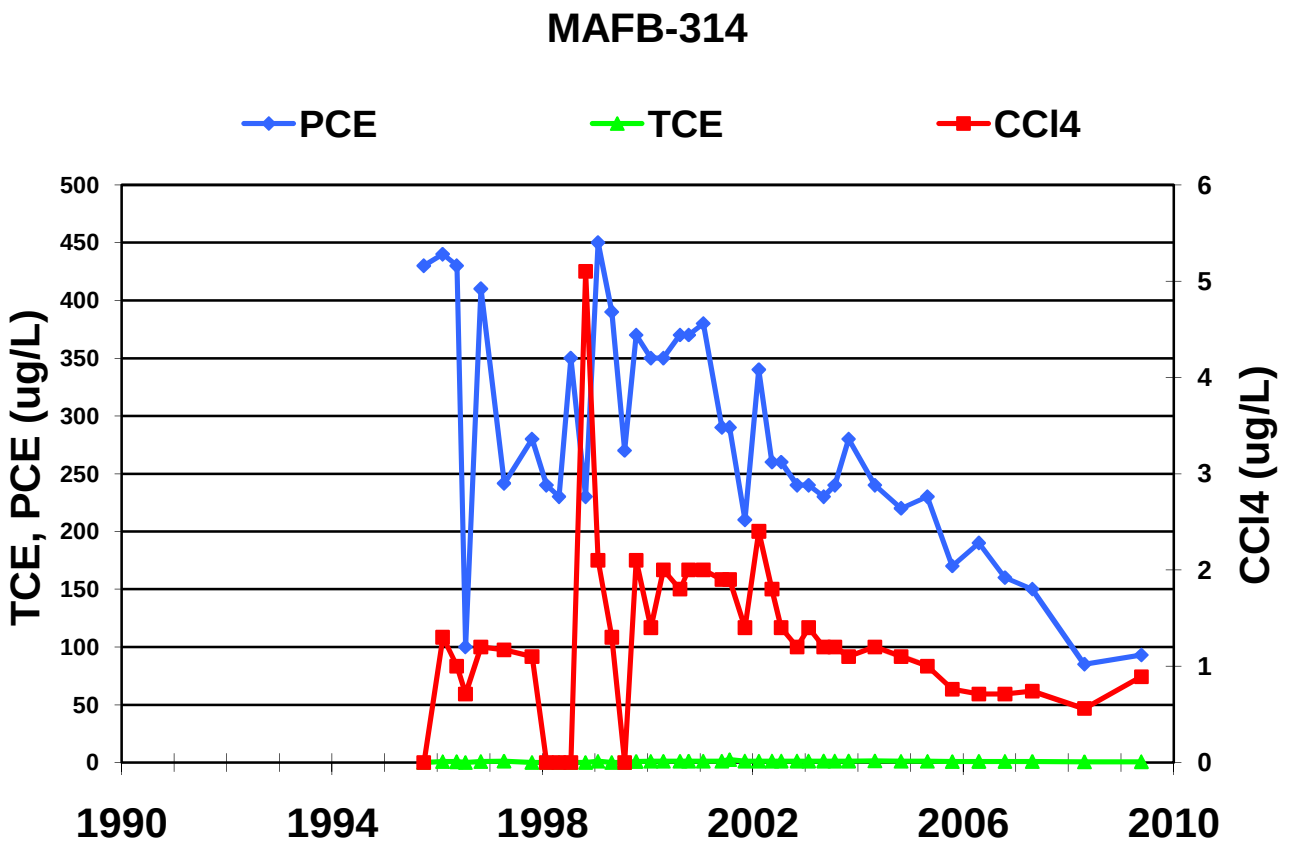


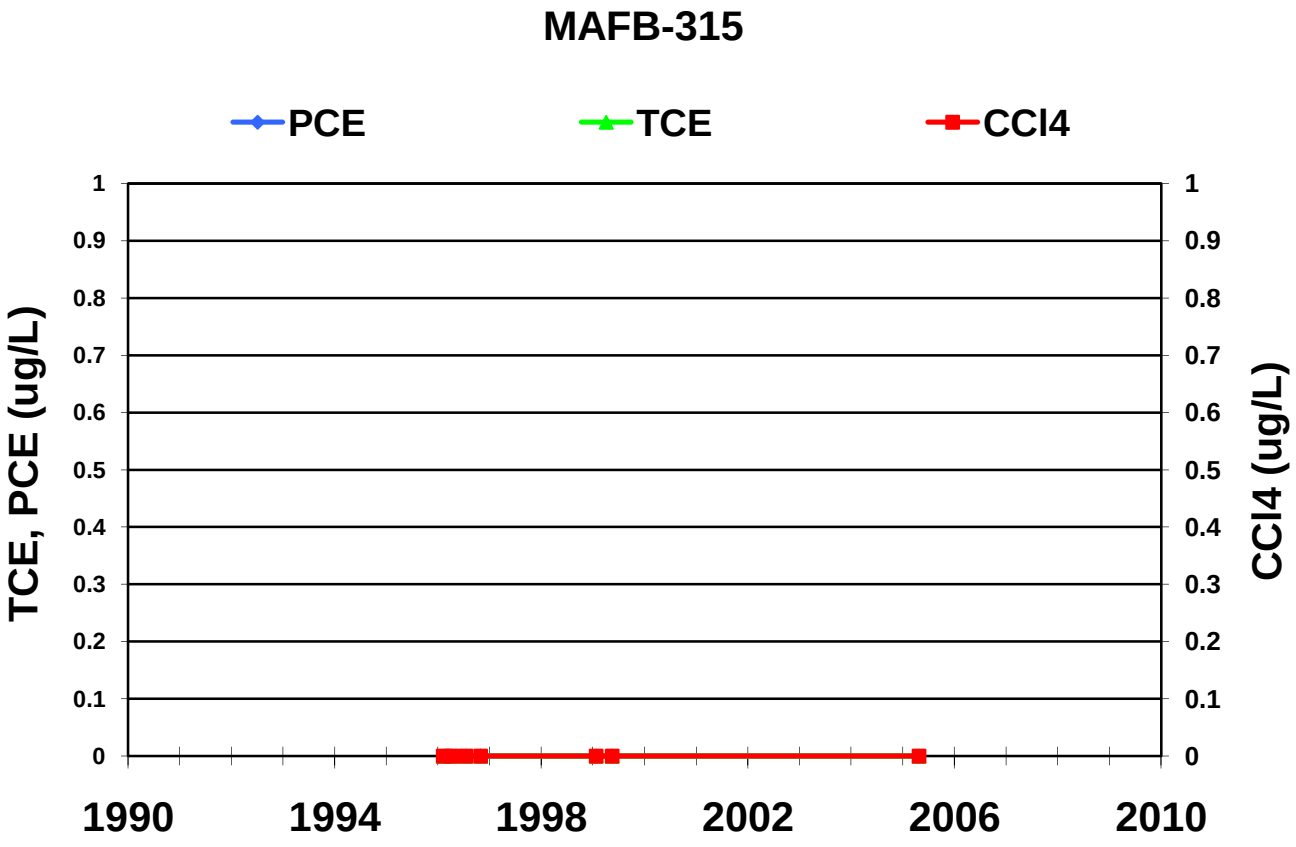

MAFB-310
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

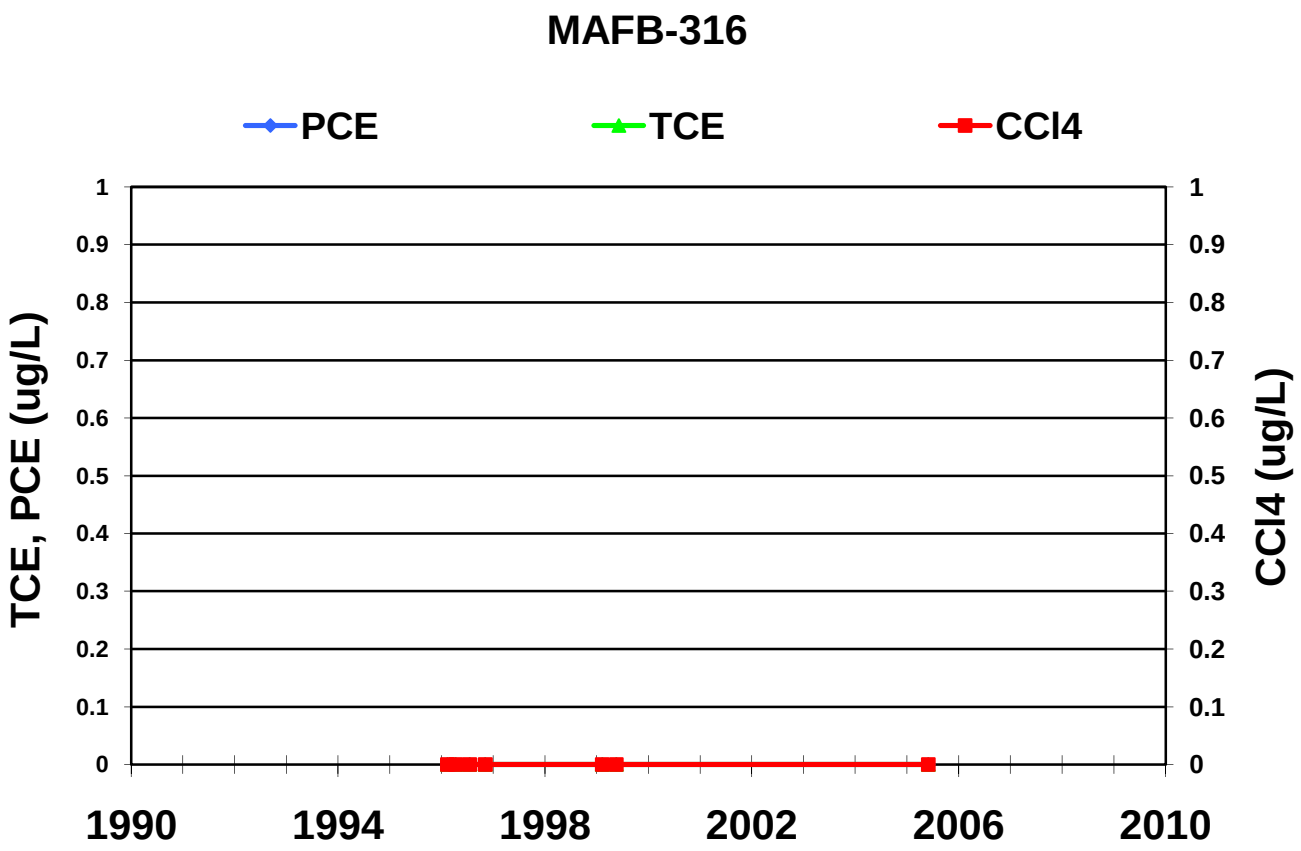

MAFB-311
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

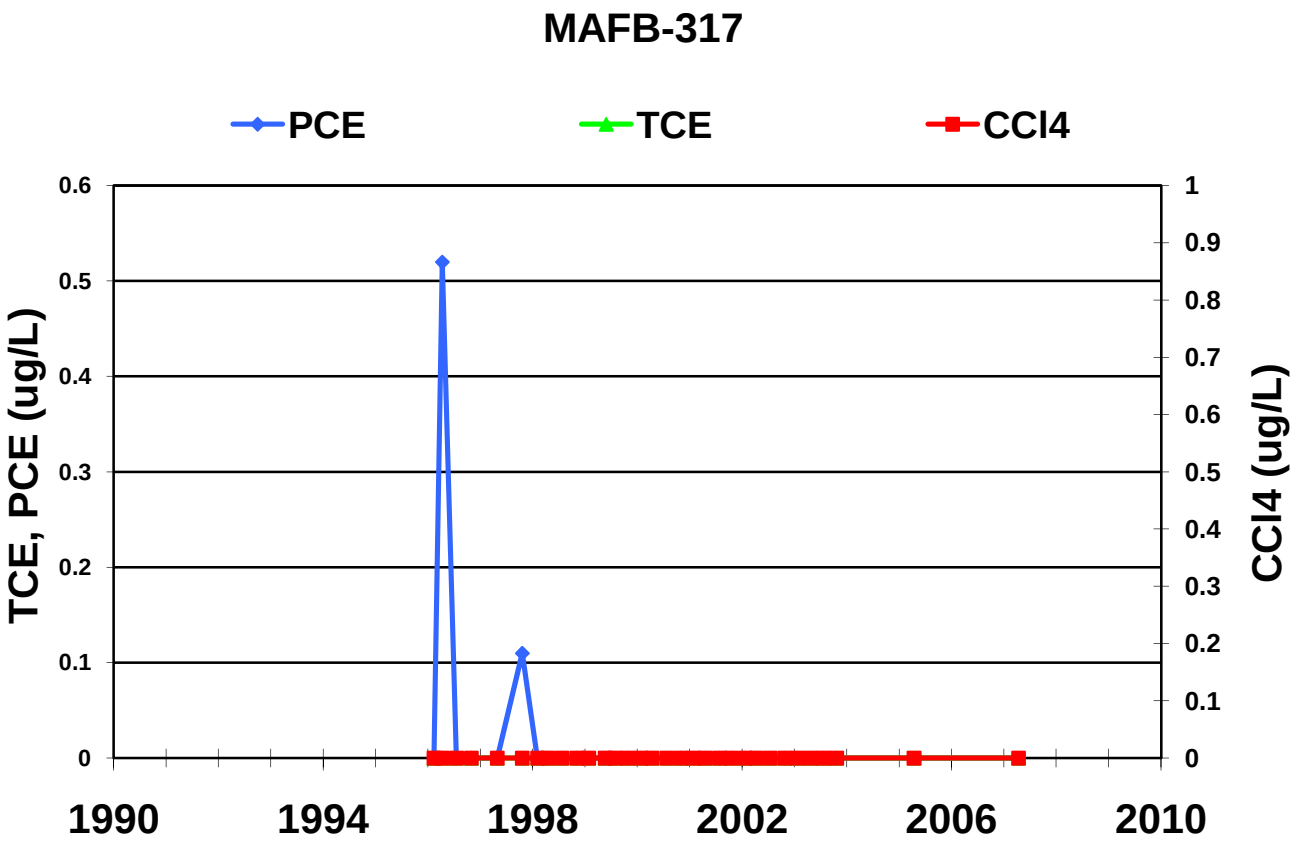

MAFB-312
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

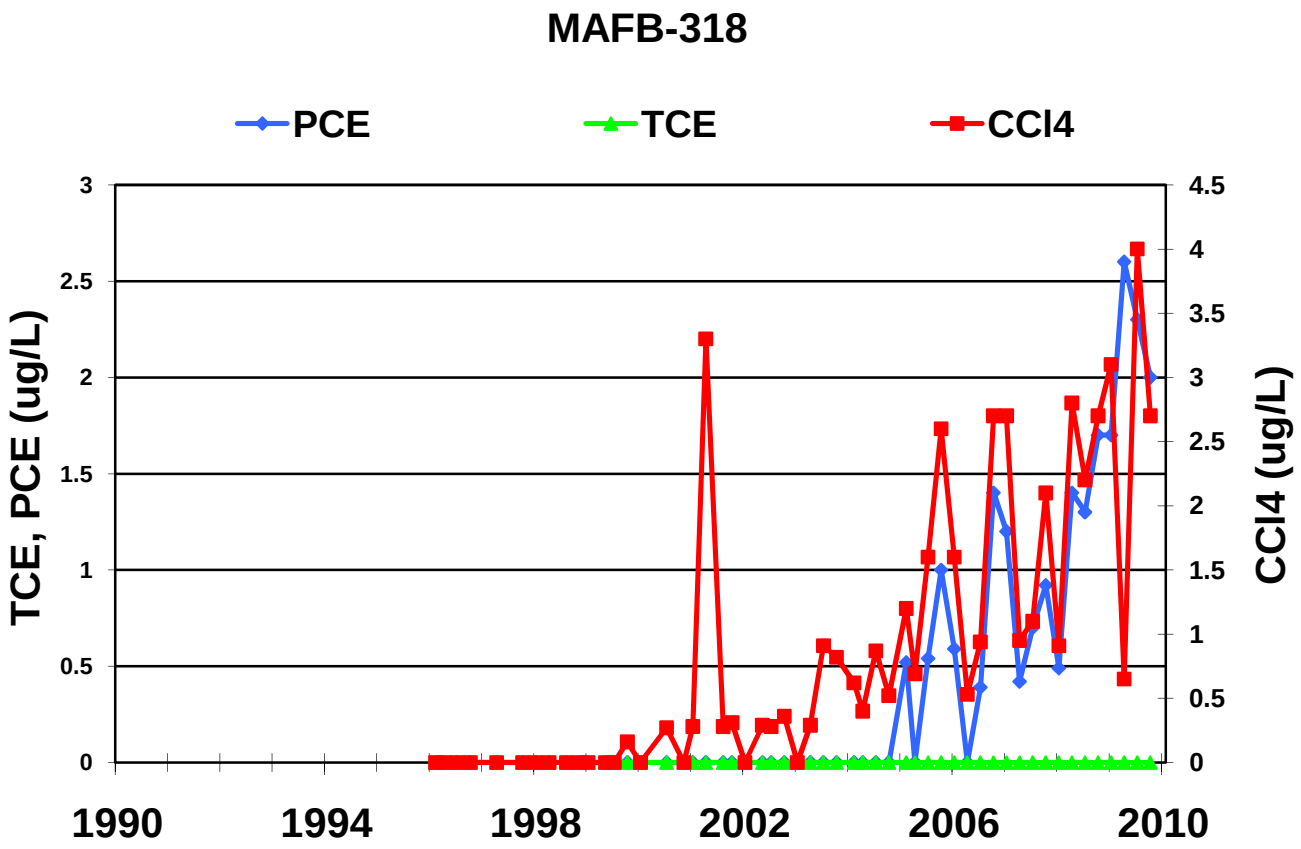

MAFB-313
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
90
80
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

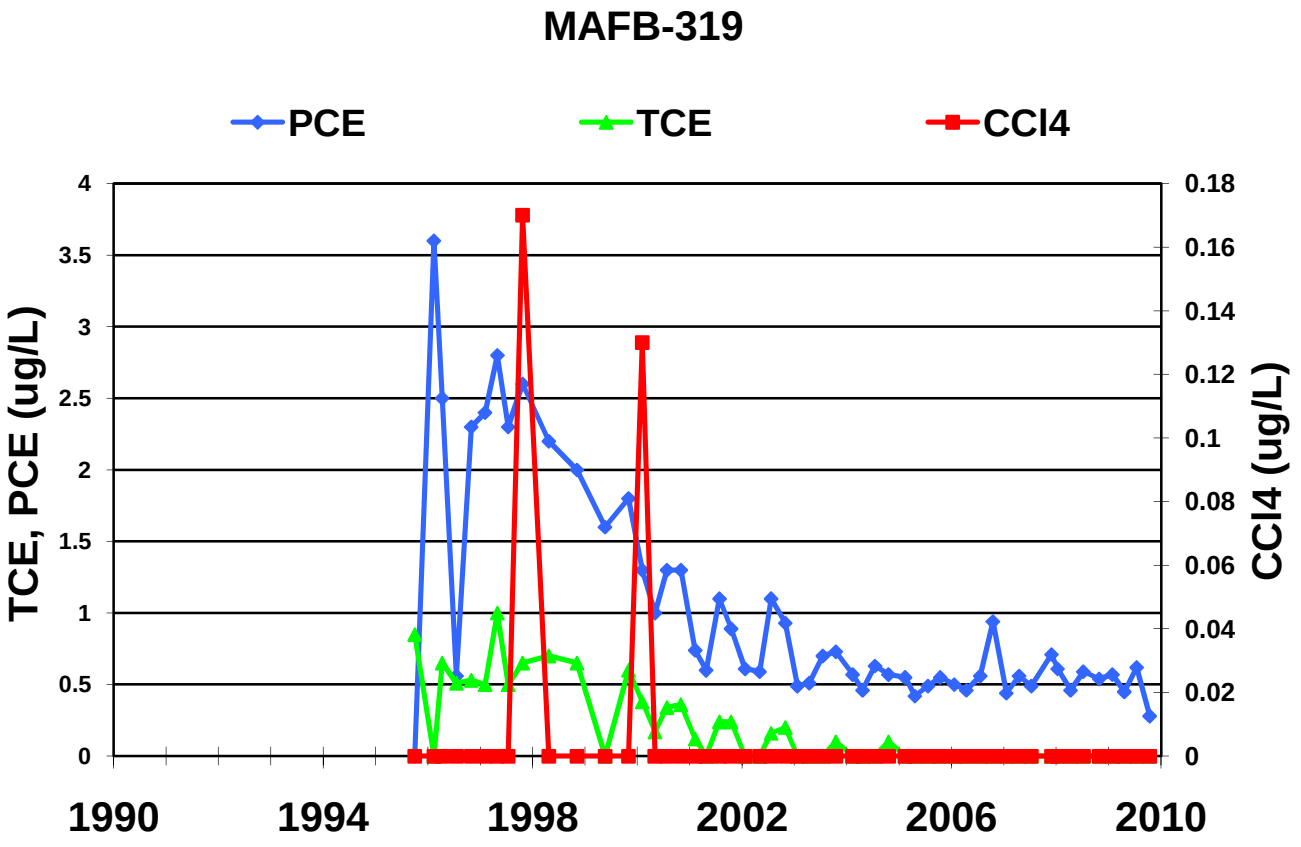

MAFB-314
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
500
450
400
350
300
250
200
150
100
50
0
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

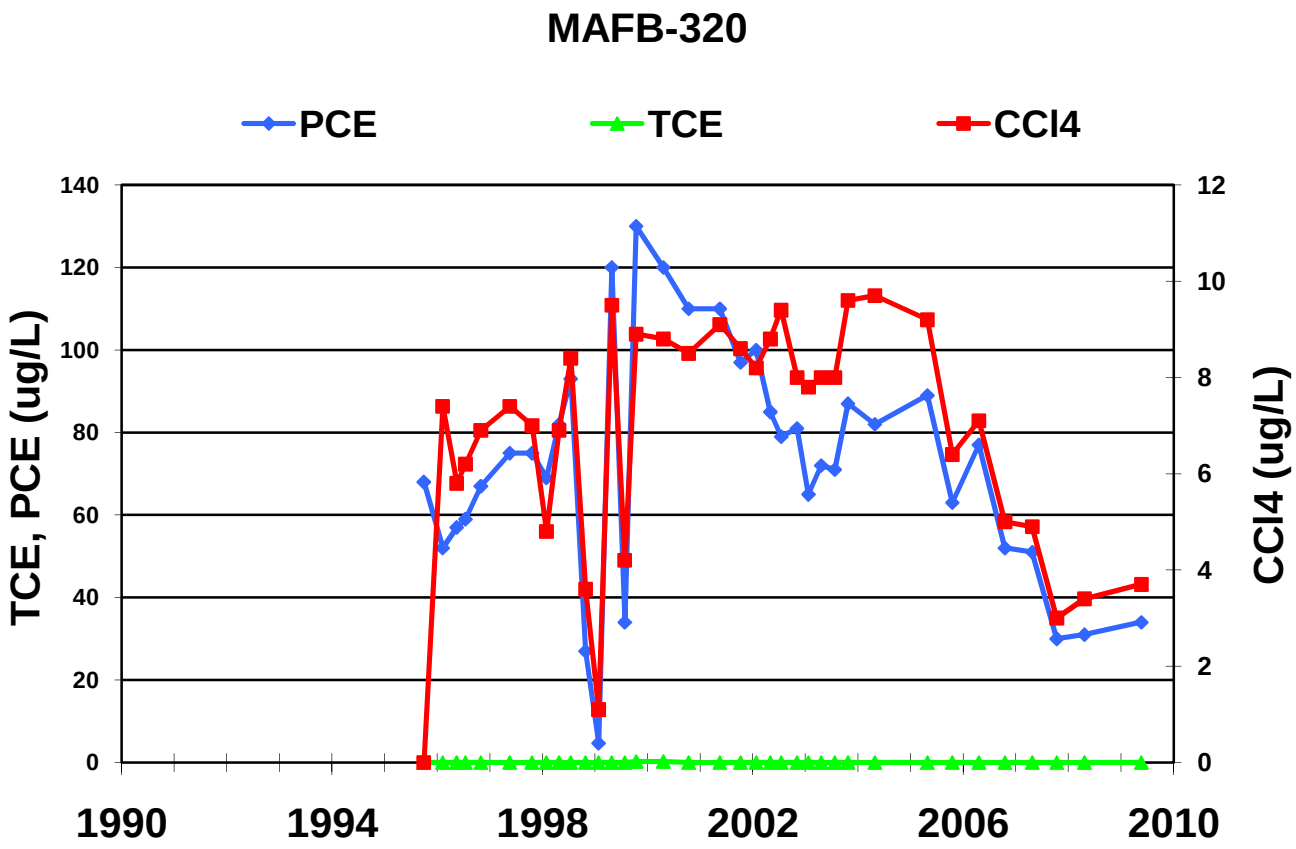

MAFB-315
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

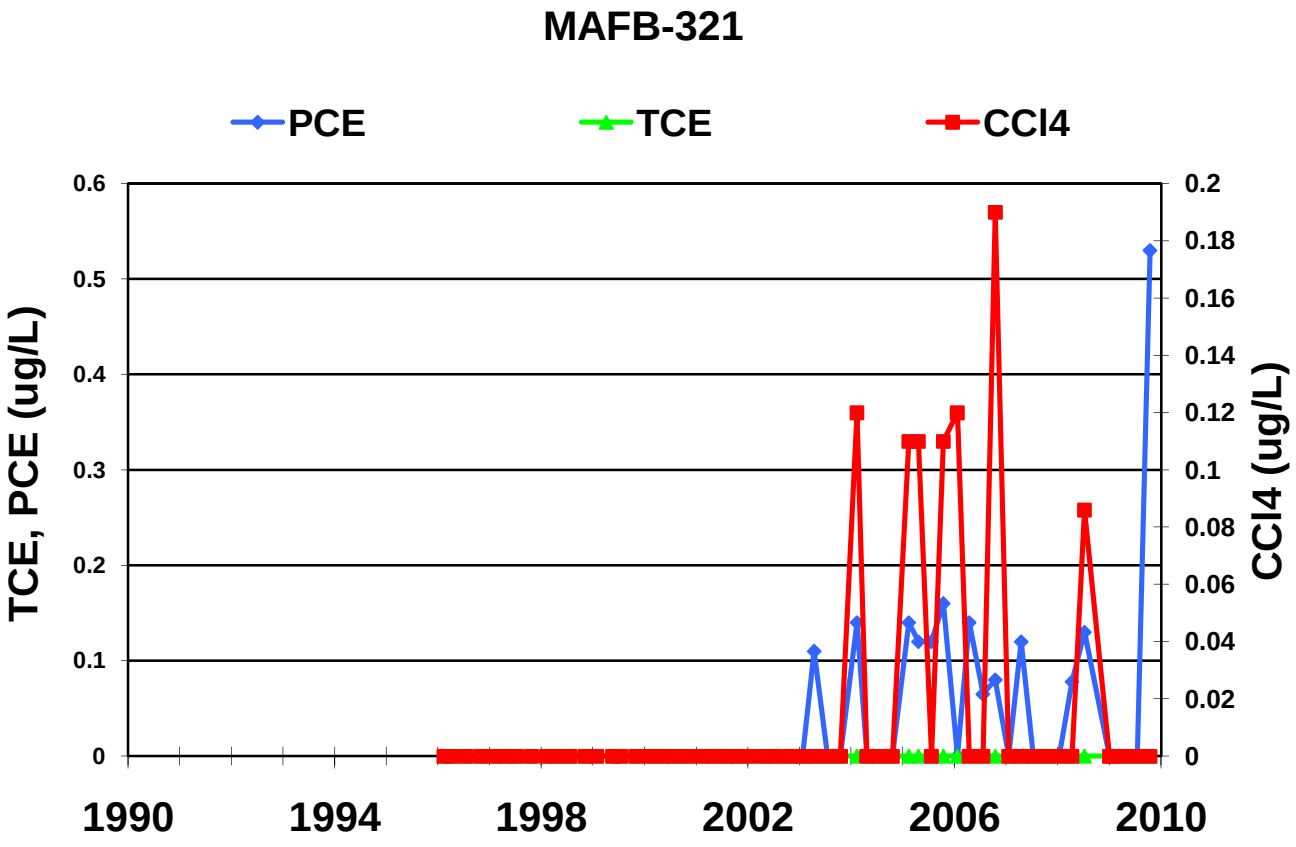

MAFB-316
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

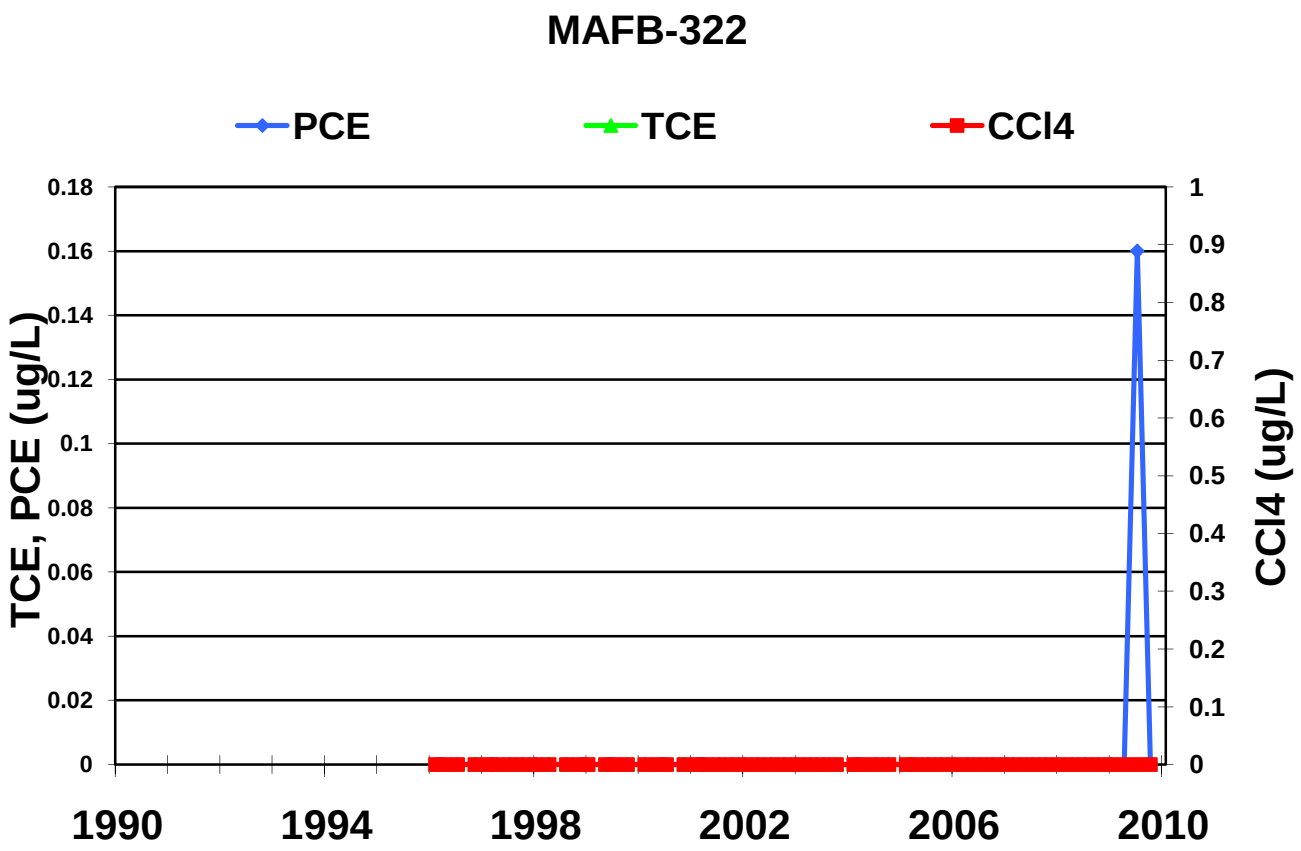

MAFB-317
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

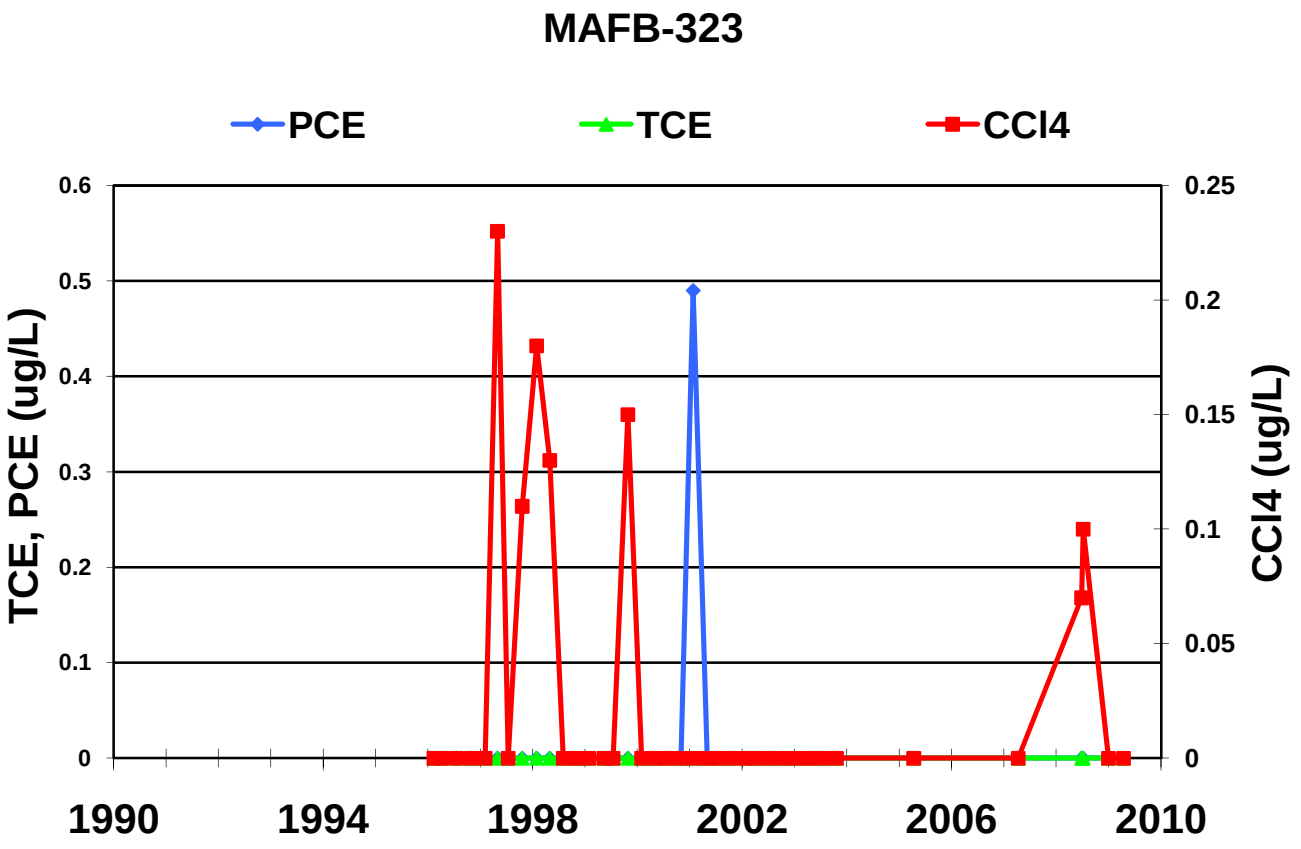

MAFB-318
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
1990
1994
1998
2002
2006
2010

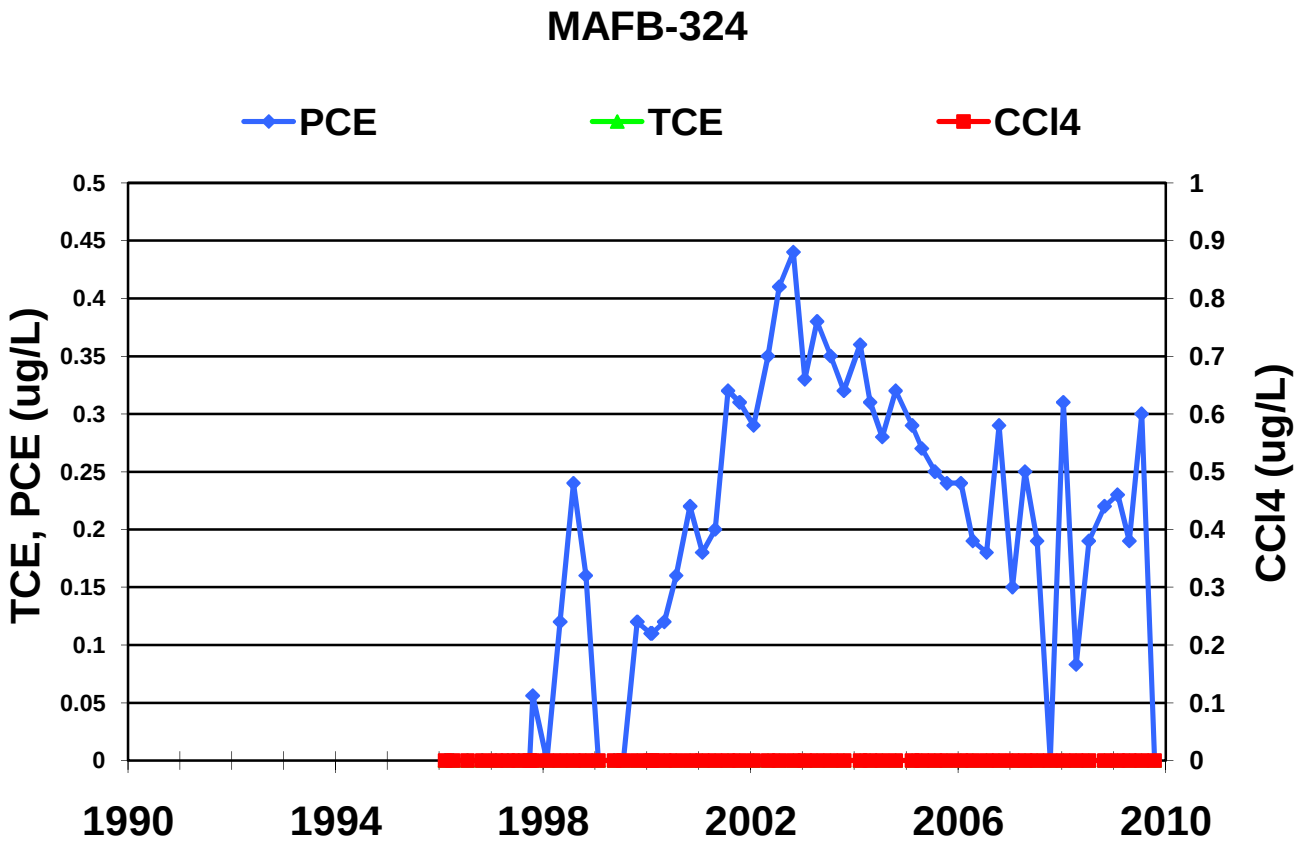

MAFB-319
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
3.5
4
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
1990
1994
1998
2002
2006
2010

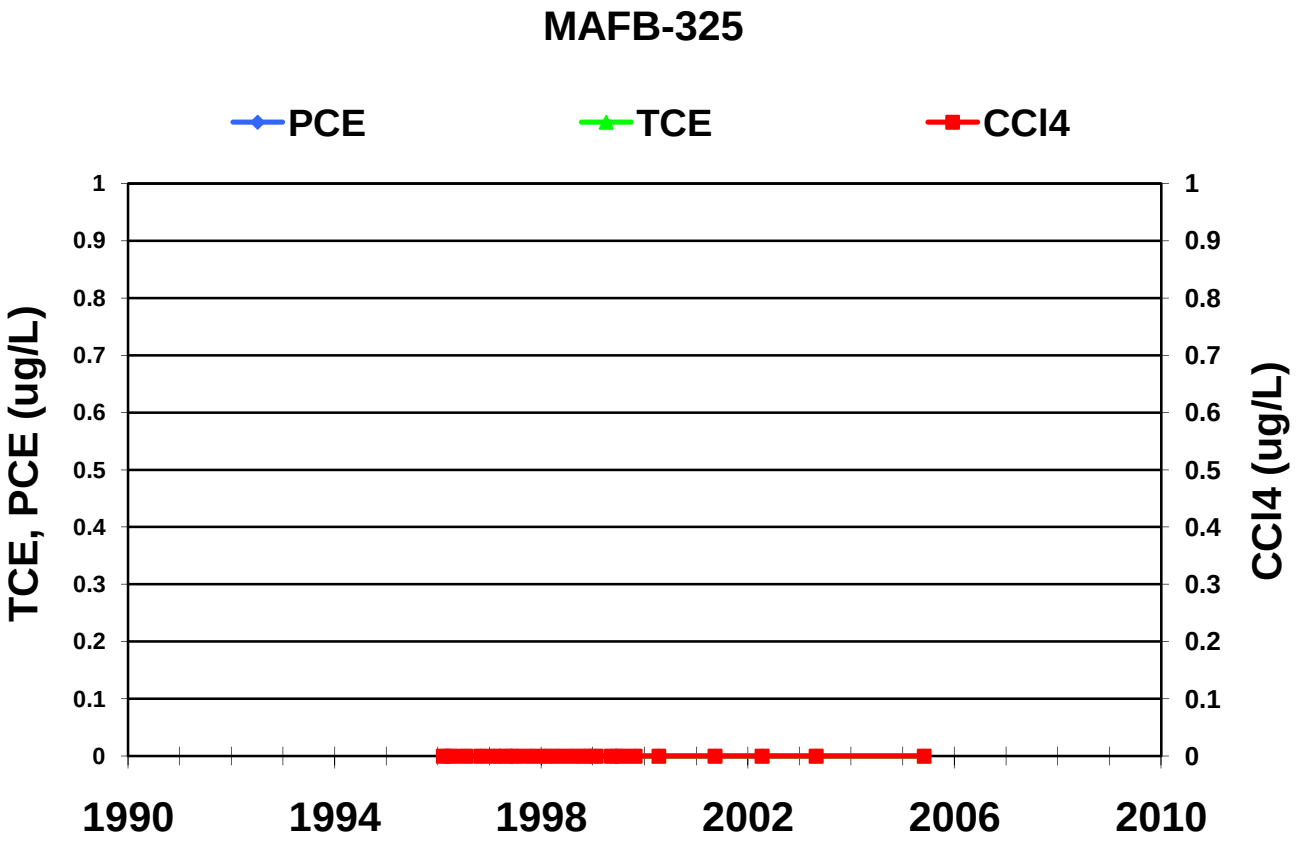

MAFB-320
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
140
120
100
80
60
40
20
0
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

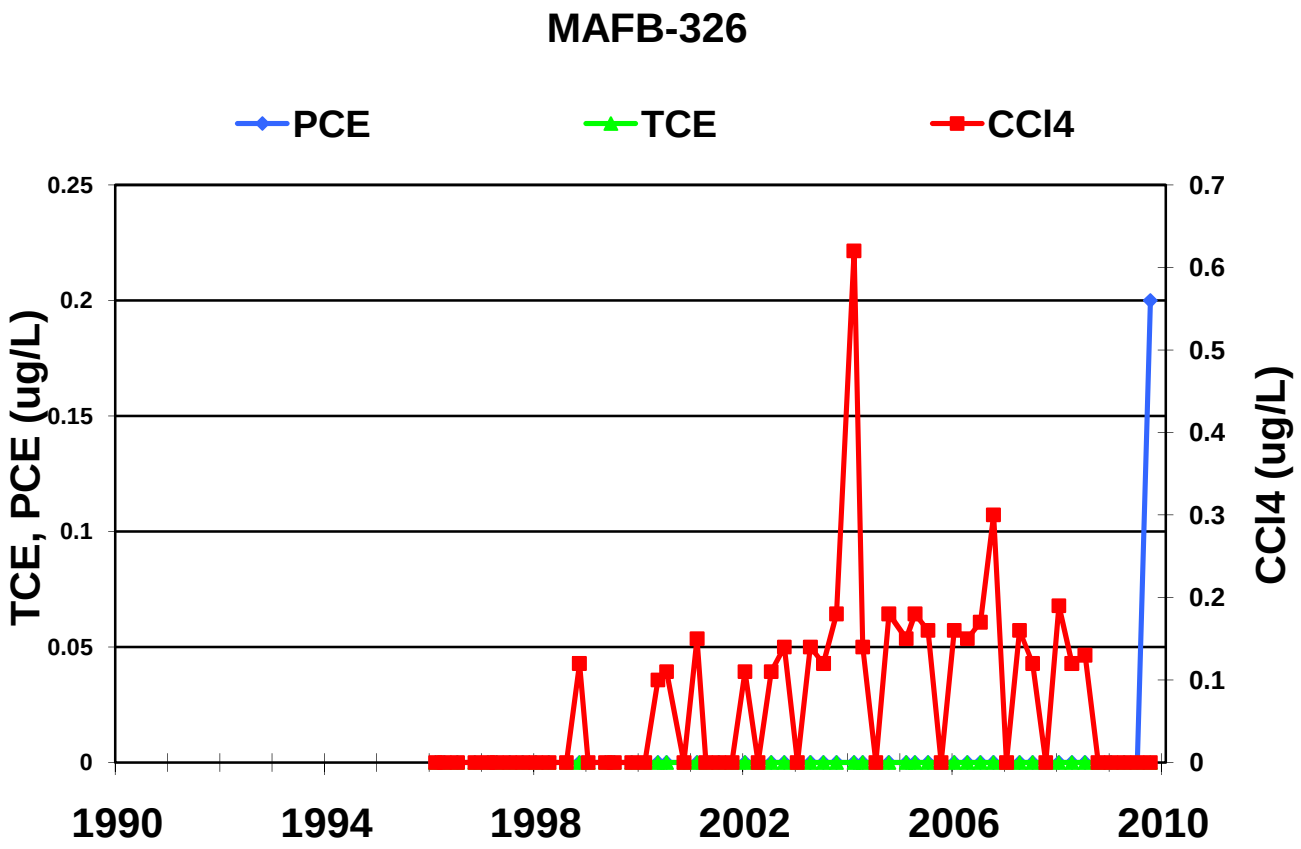

MAFB-321
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1990
1994
1998
2002
2006
2010

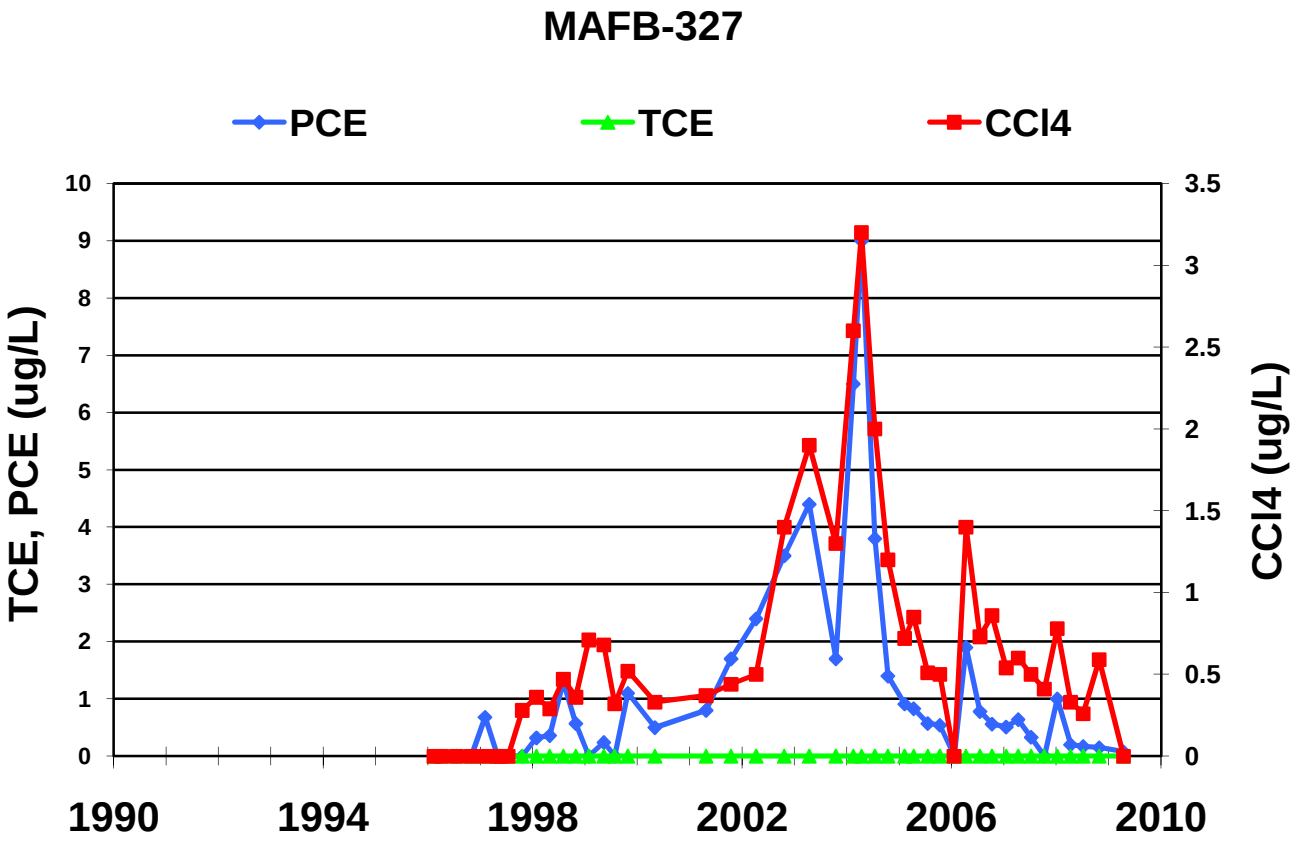

MAFB-322
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

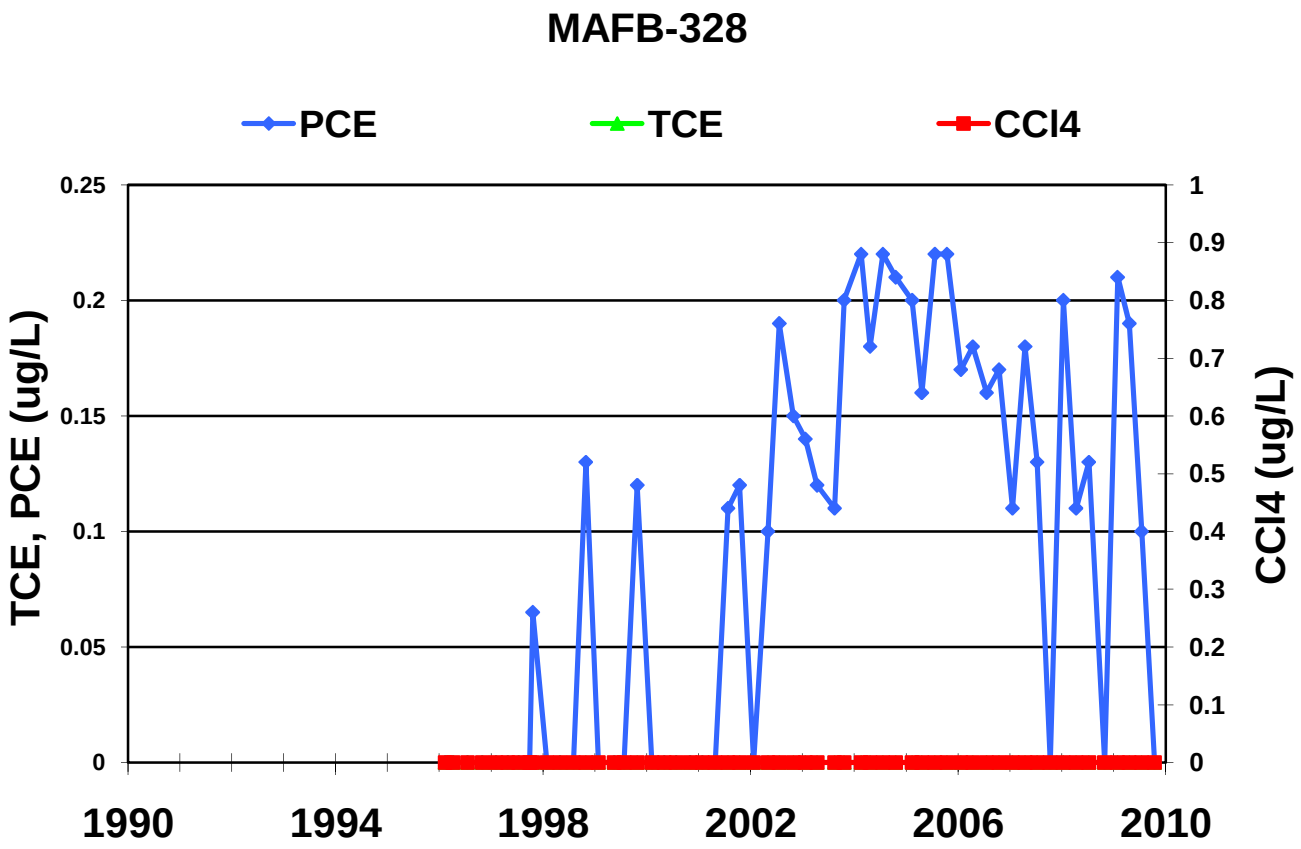

MAFB-323
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

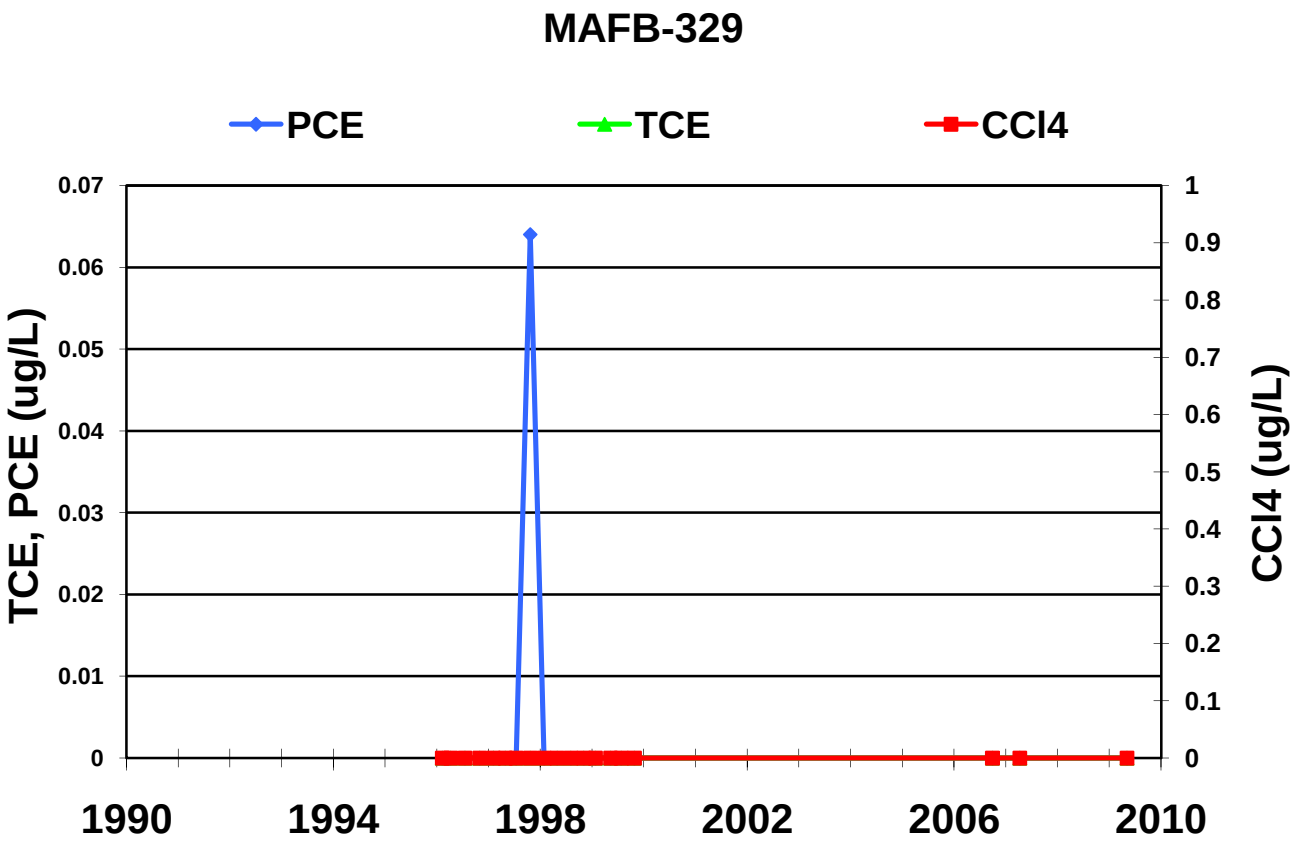

MAFB-324
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

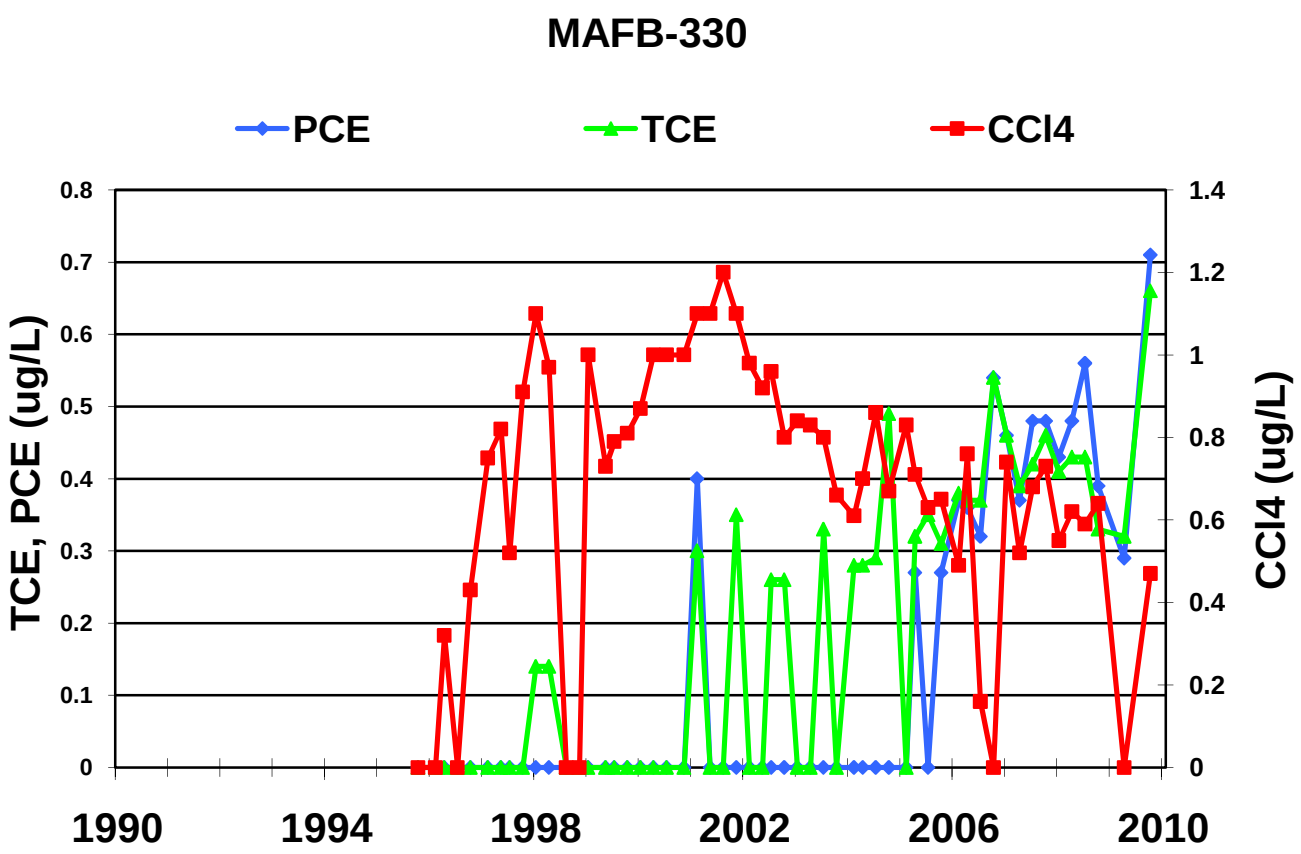

MAFB-325
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

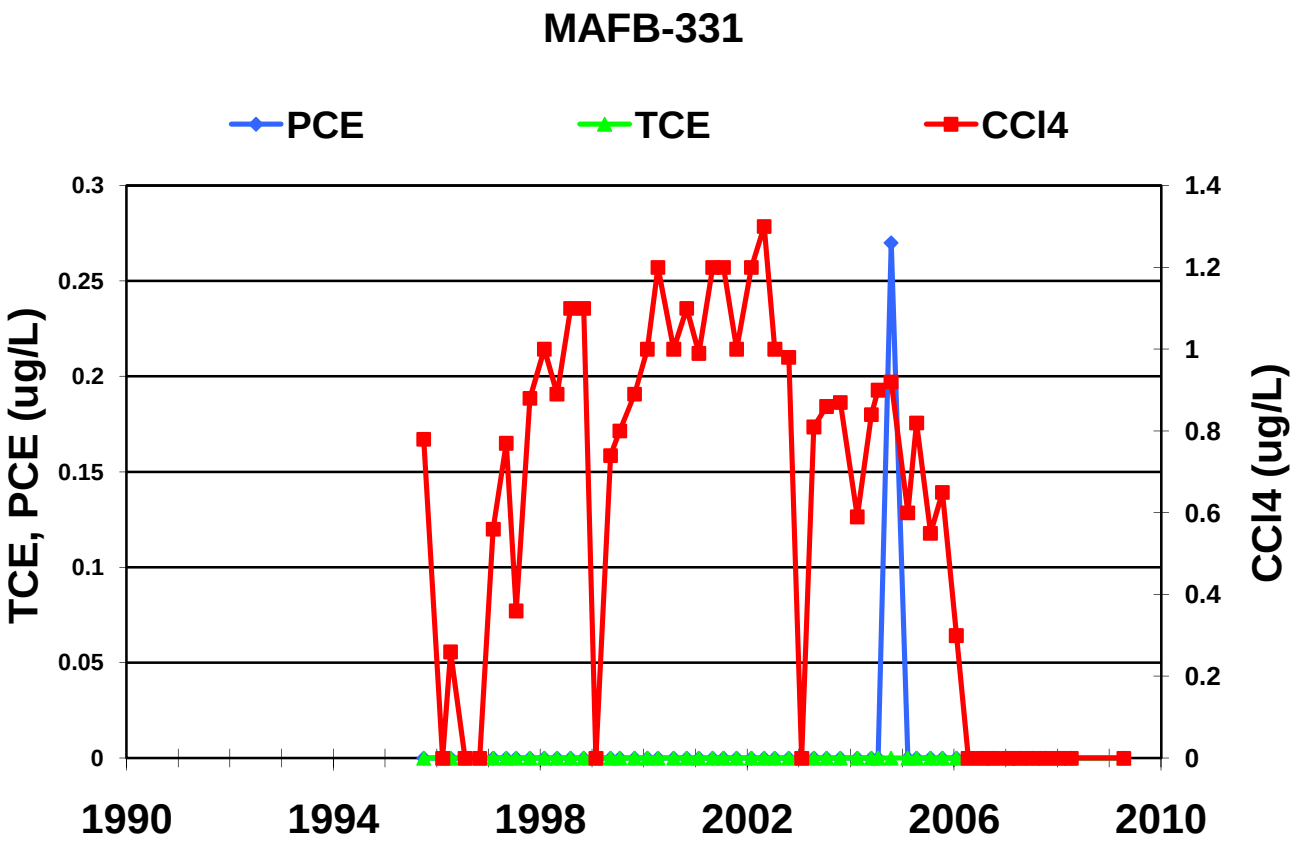

MAFB-326
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.25
0.2
0.15
0.1
0.05
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

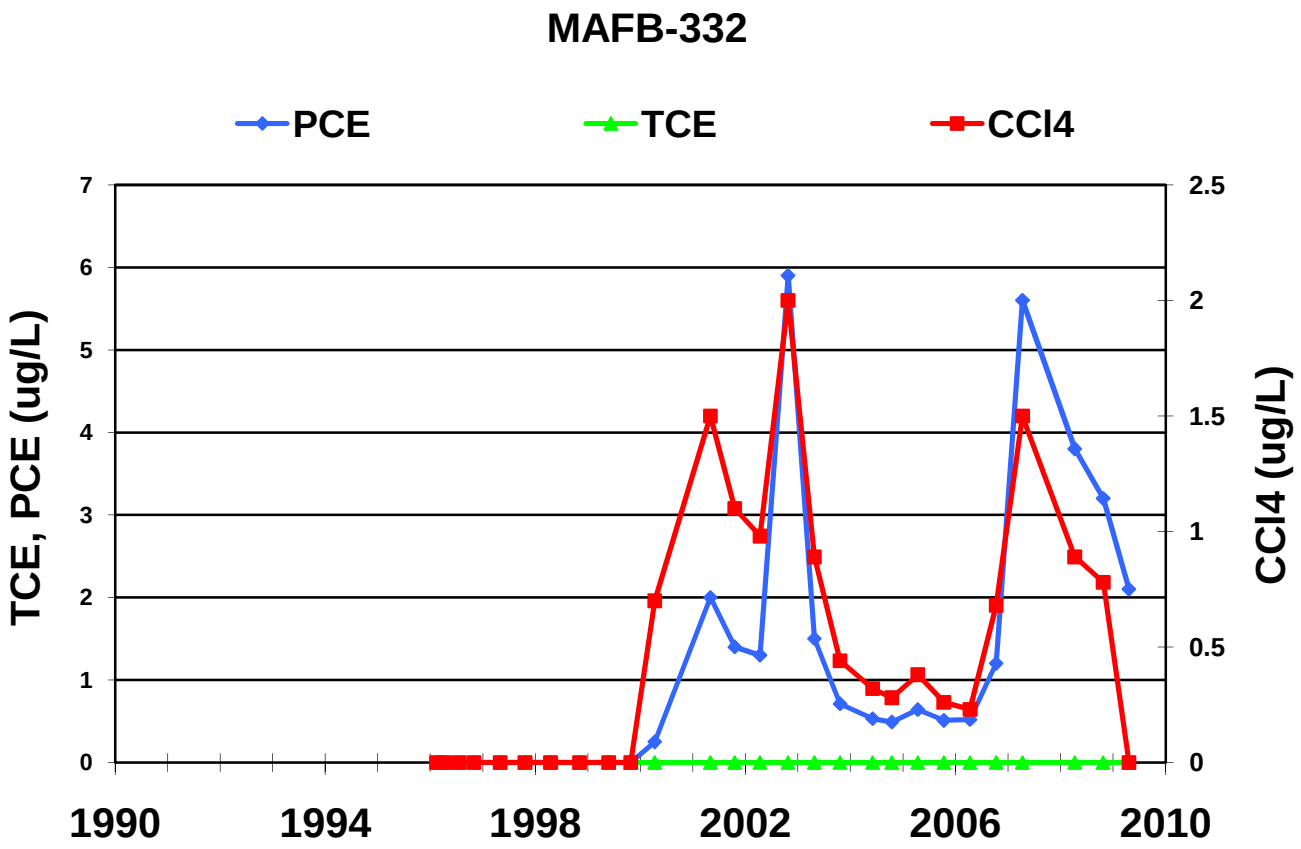

MAFB-327
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
10
9
8
7
6
5
4
3
2
1
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

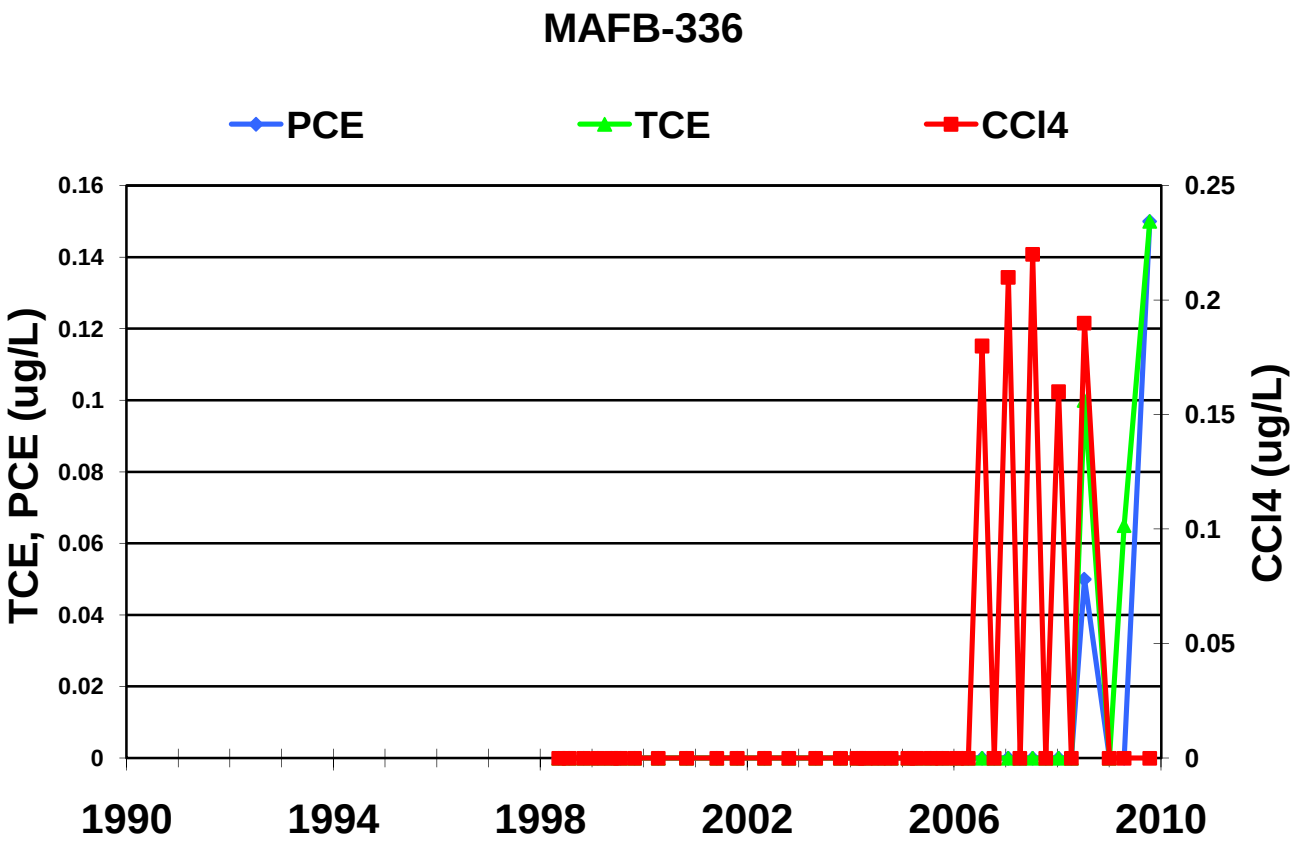

MAFB-328
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

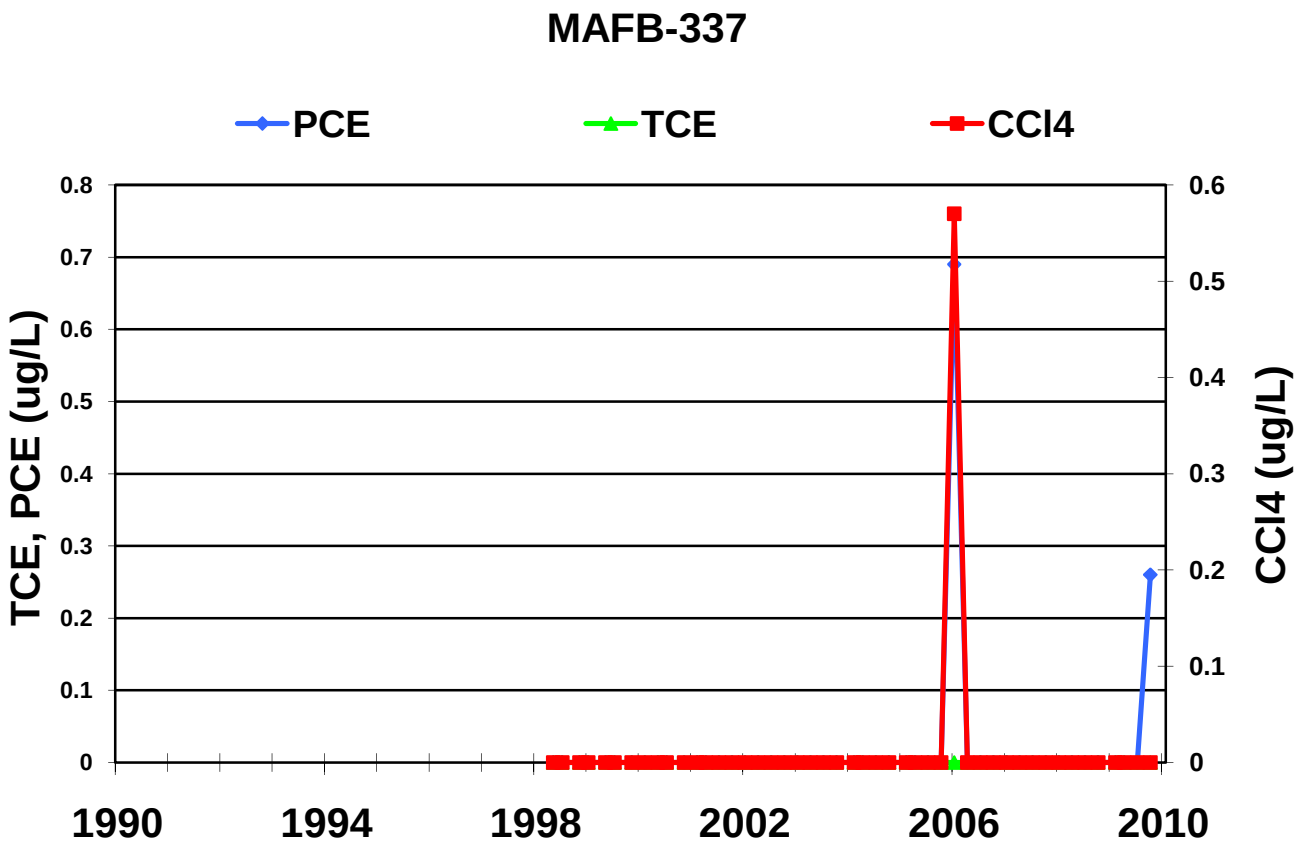

MAFB-329
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

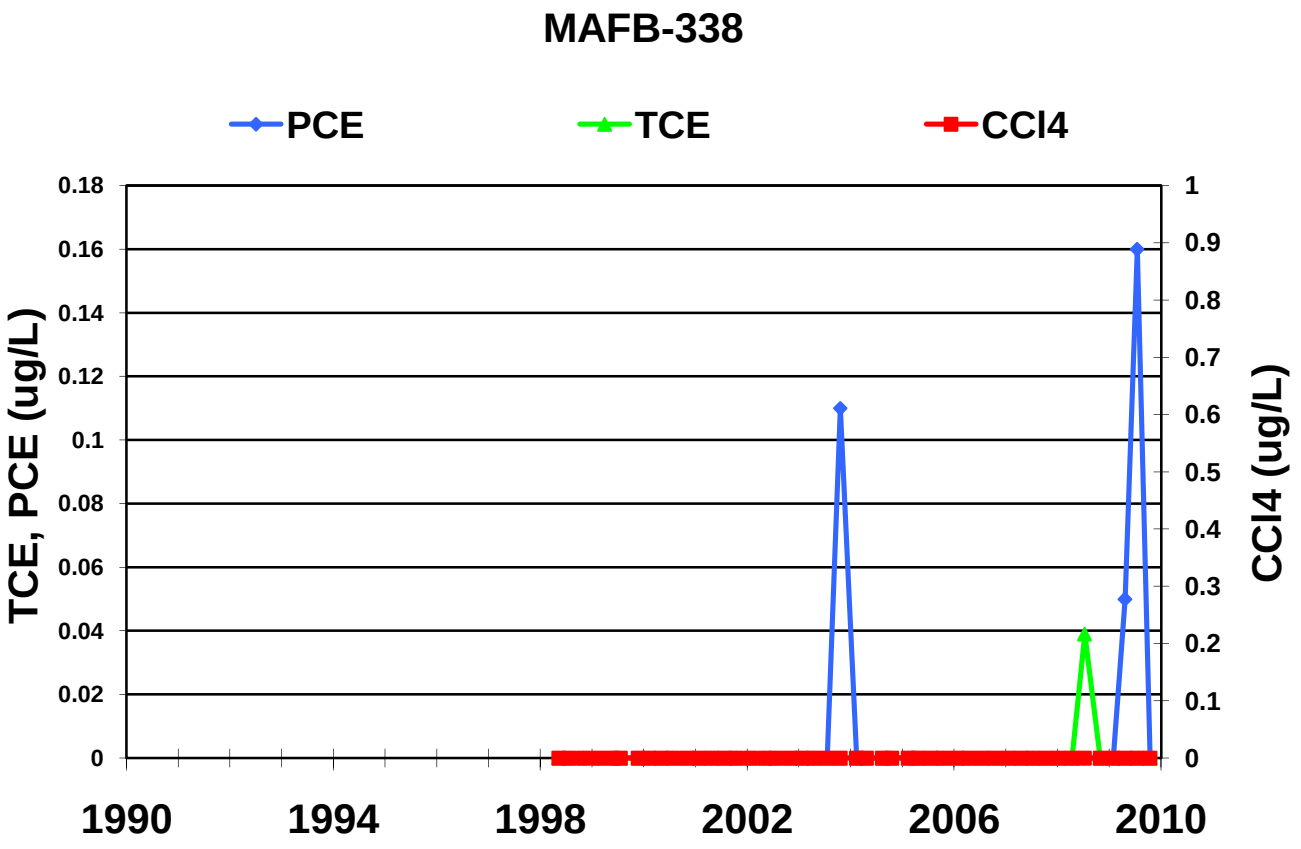

MAFB-330
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

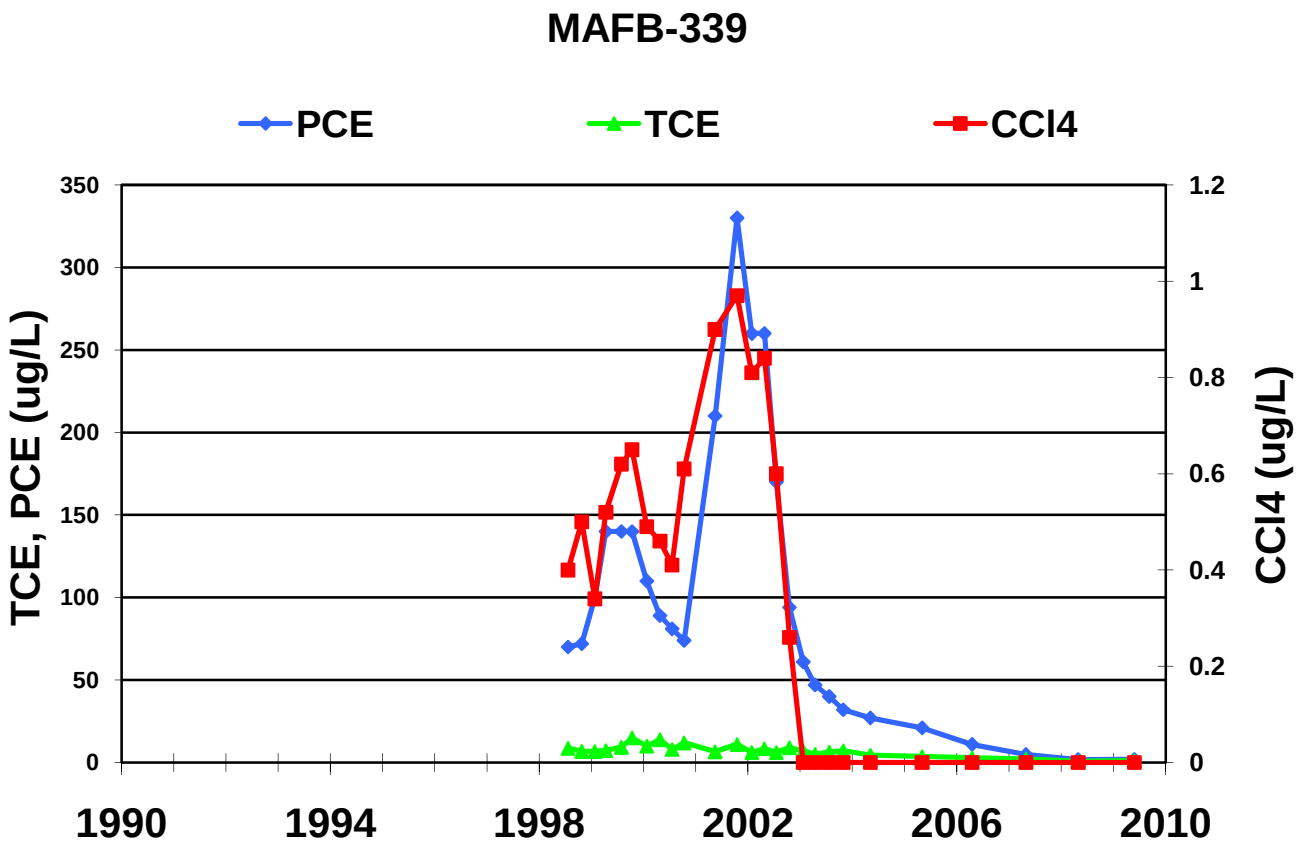

MAFB-331
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

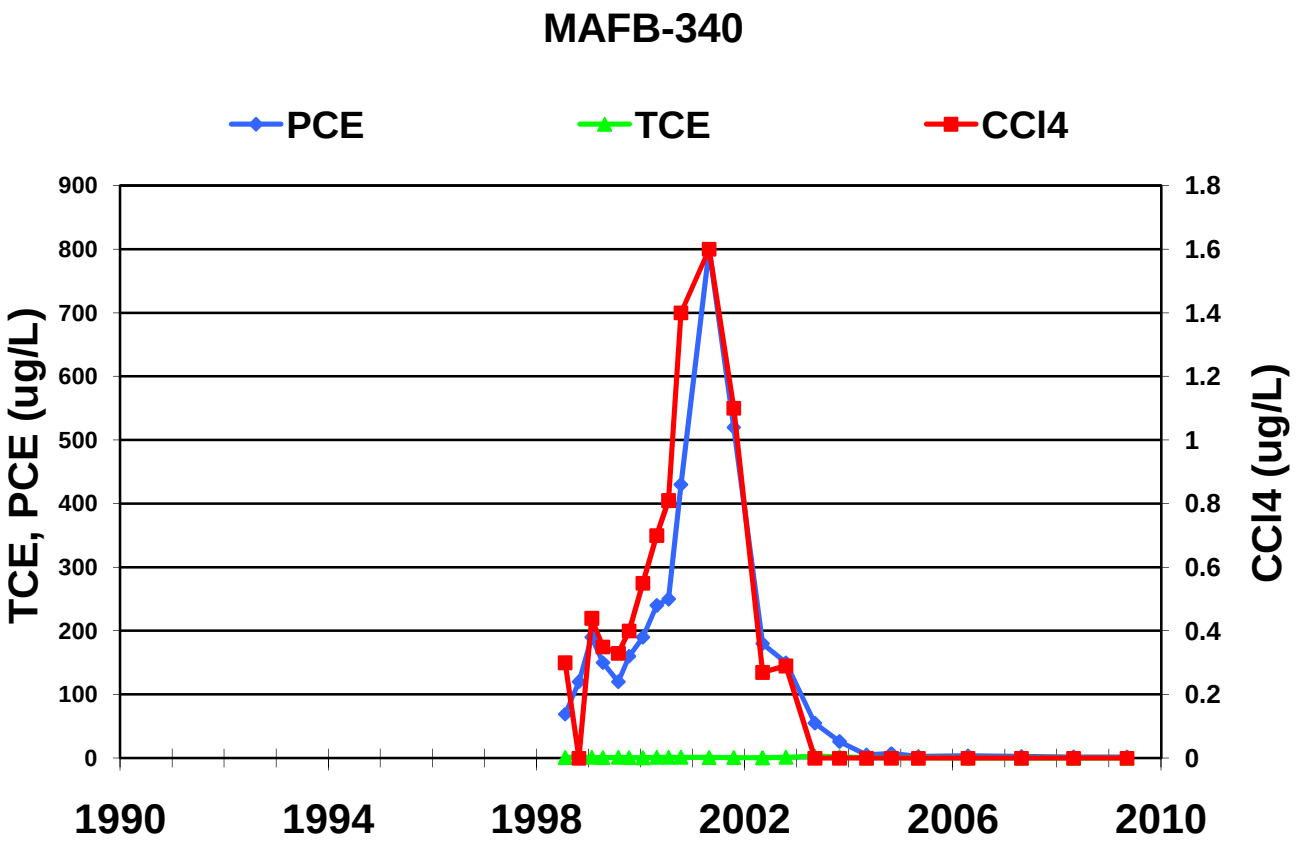

MAFB-332
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.5
1
1.5
2
2.5
1990
1994
1998
2002
2006
2010

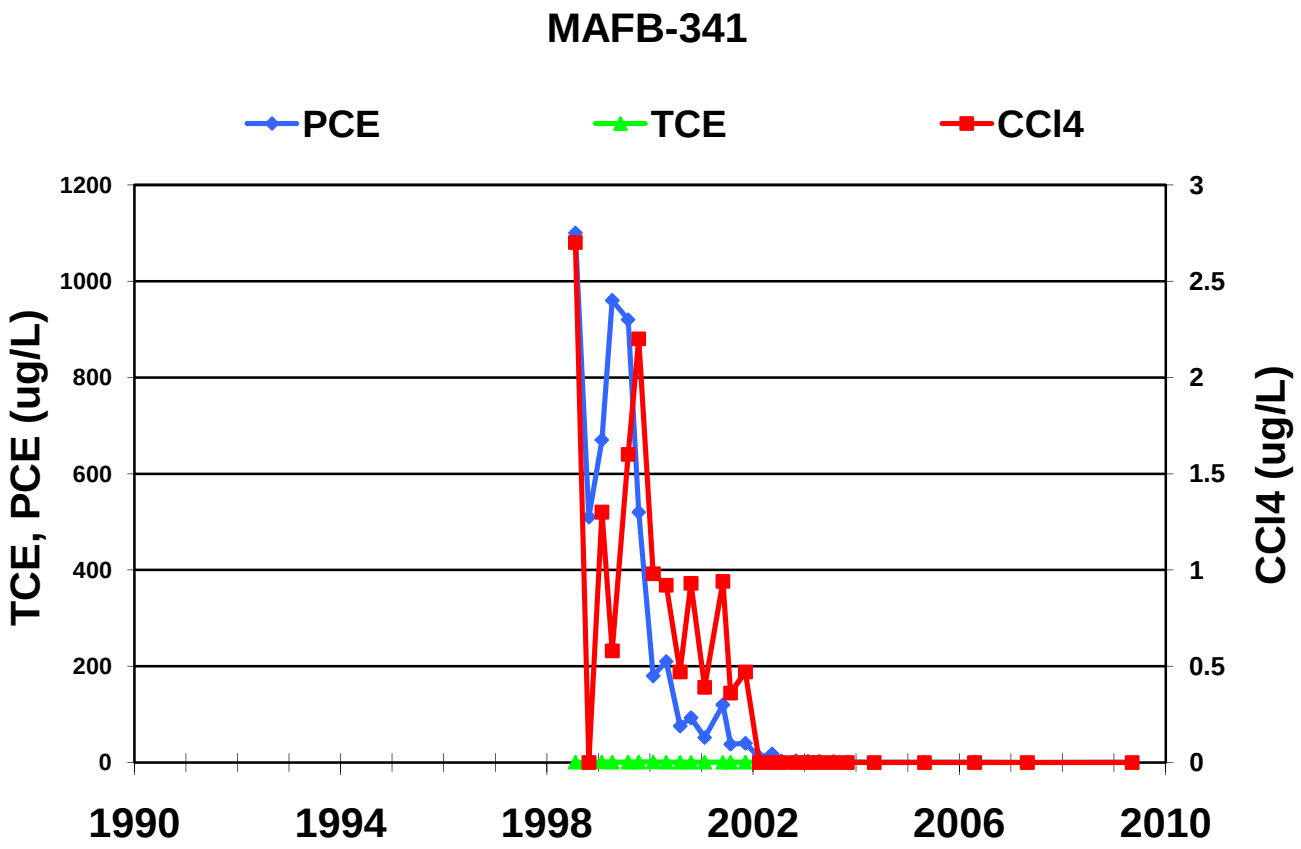

MAFB-336
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0
0.05
0.1
0.15
0.2
0.25
1990
1994
1998
2002
2006
2010

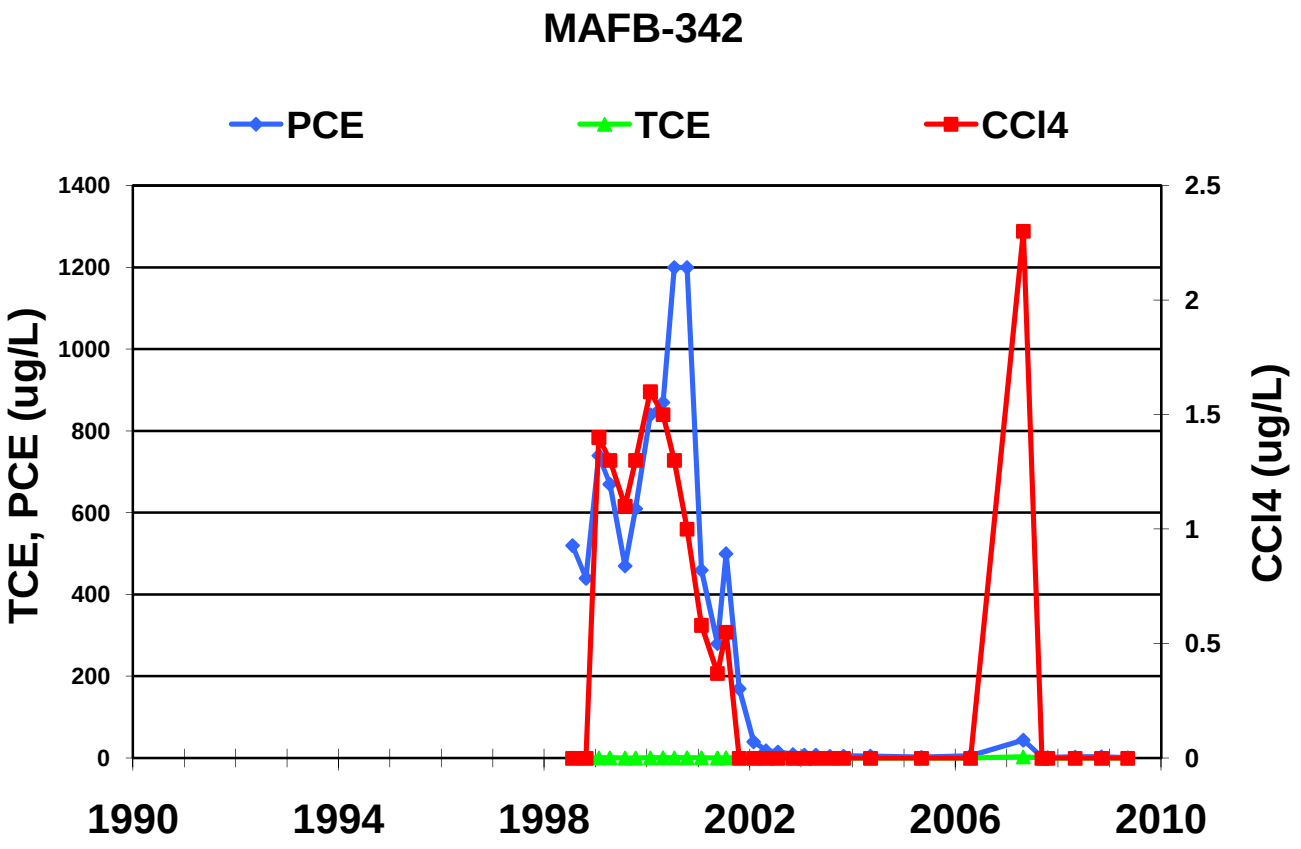

MAFB-337
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

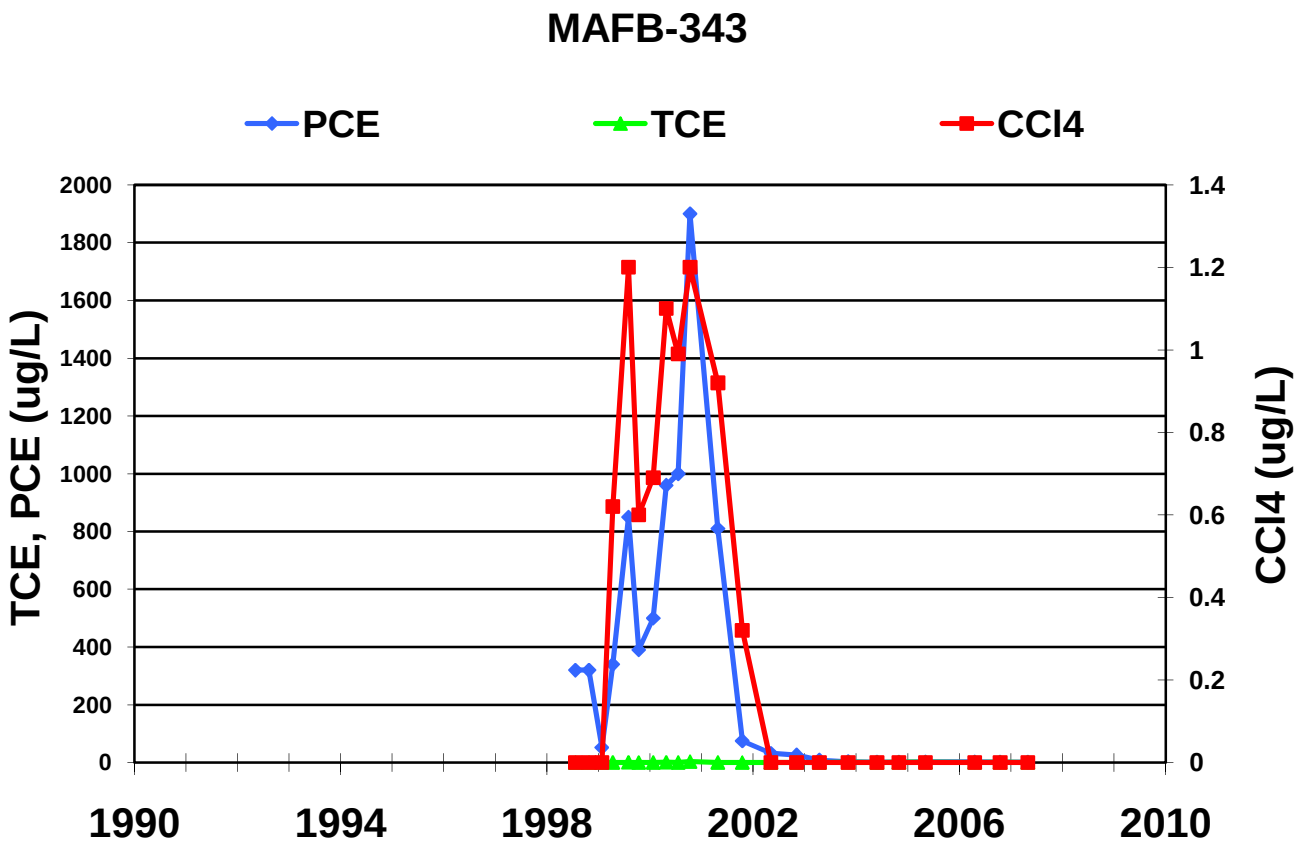

MAFB-338
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

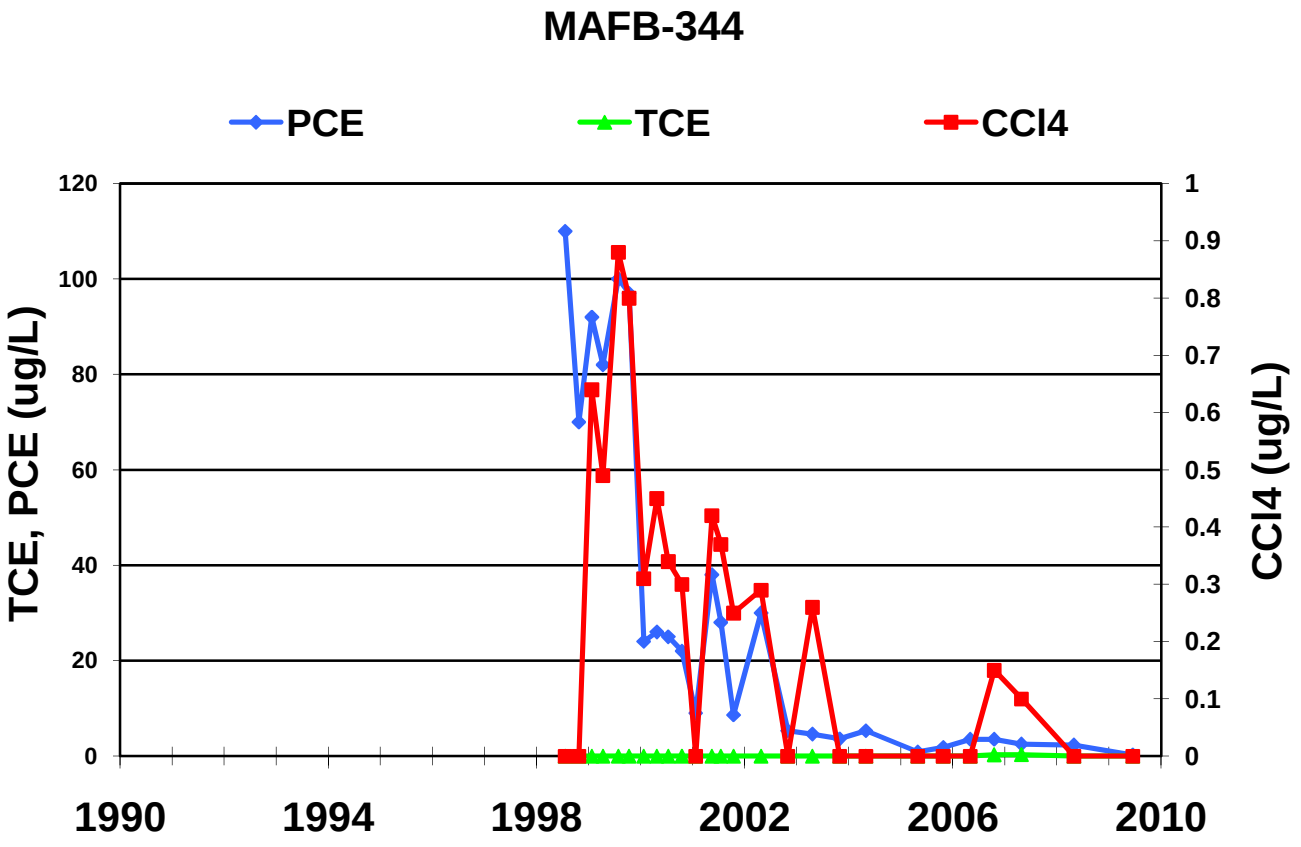

MAFB-339
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
350
300
250
200
150
100
50
0
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

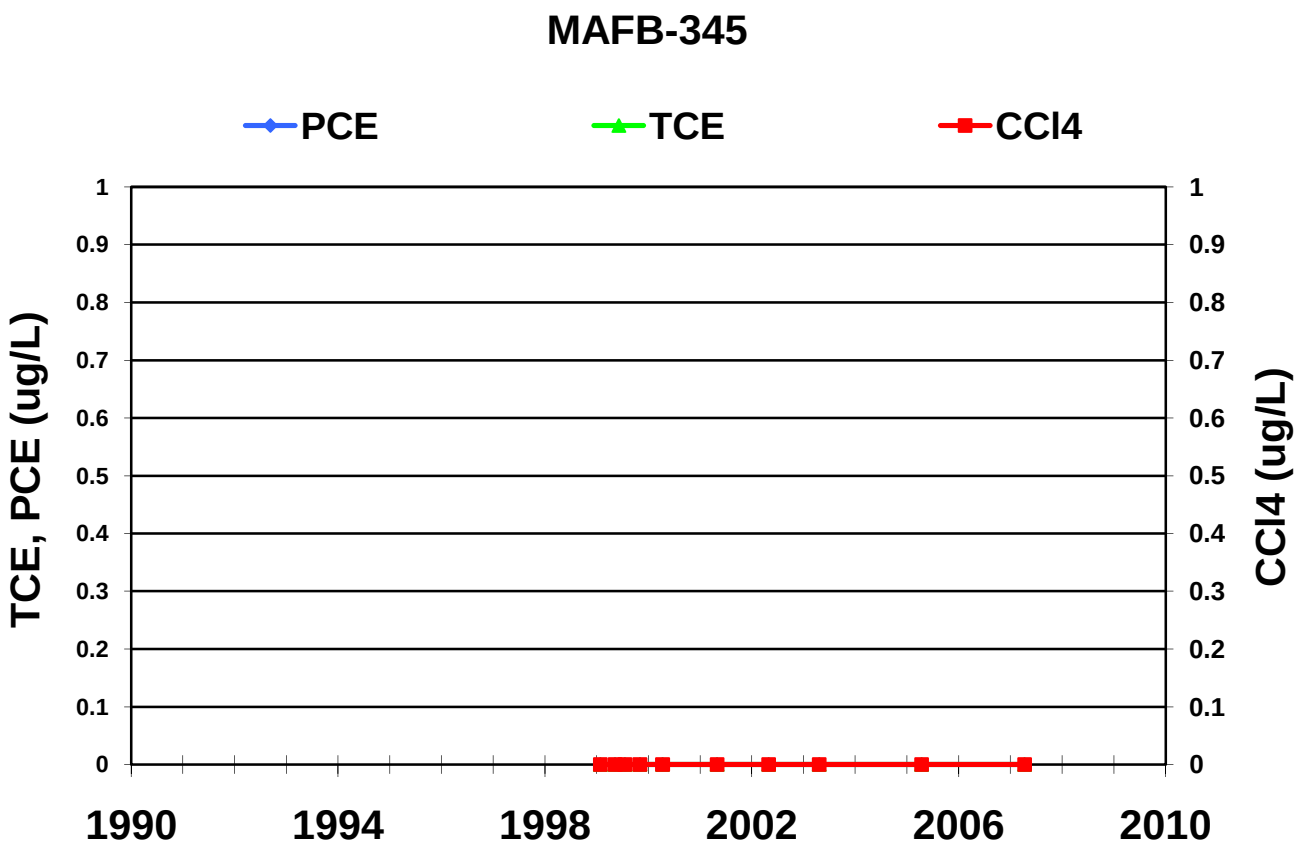

MAFB-340
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
900
800
700
600
500
400
300
200
100
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

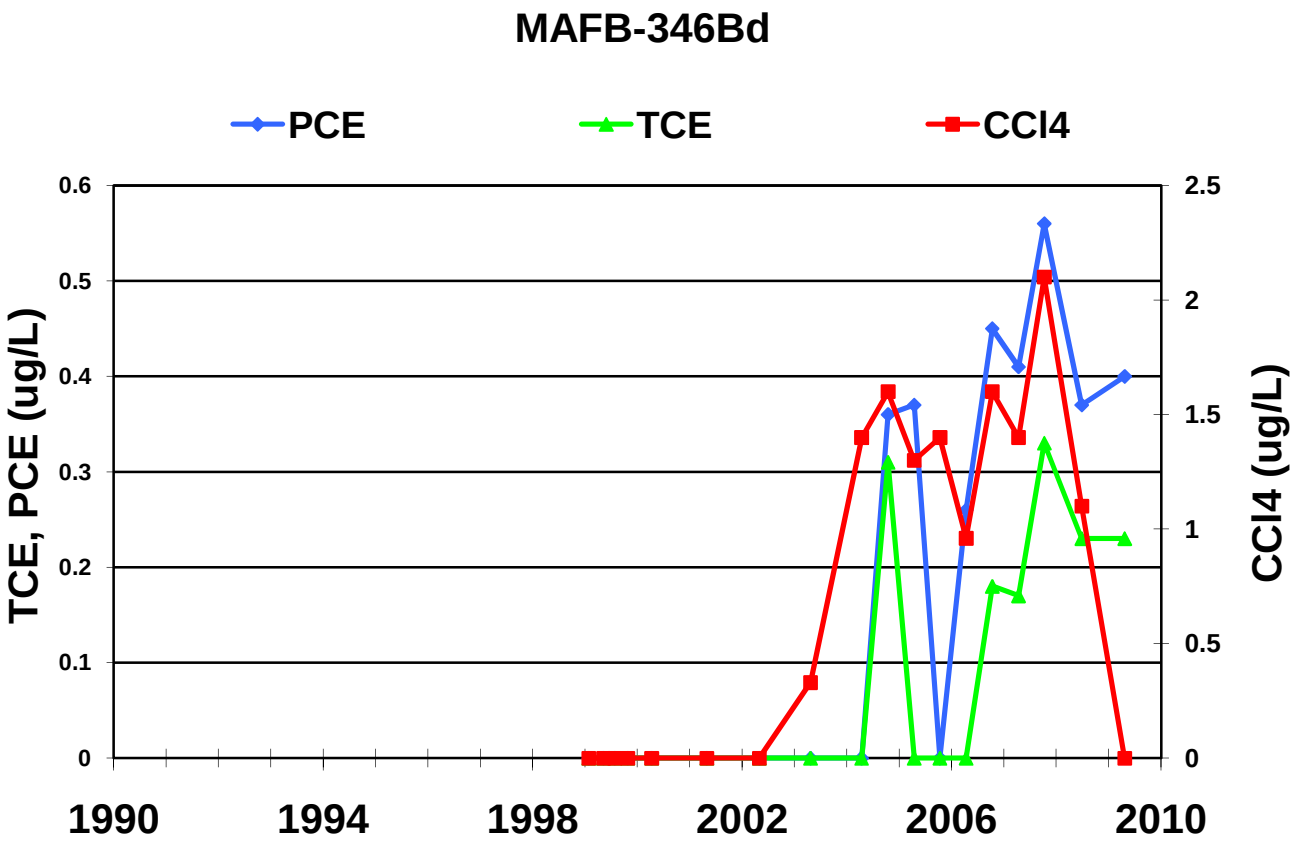

MAFB-341
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1200
1000
800
600
400
200
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

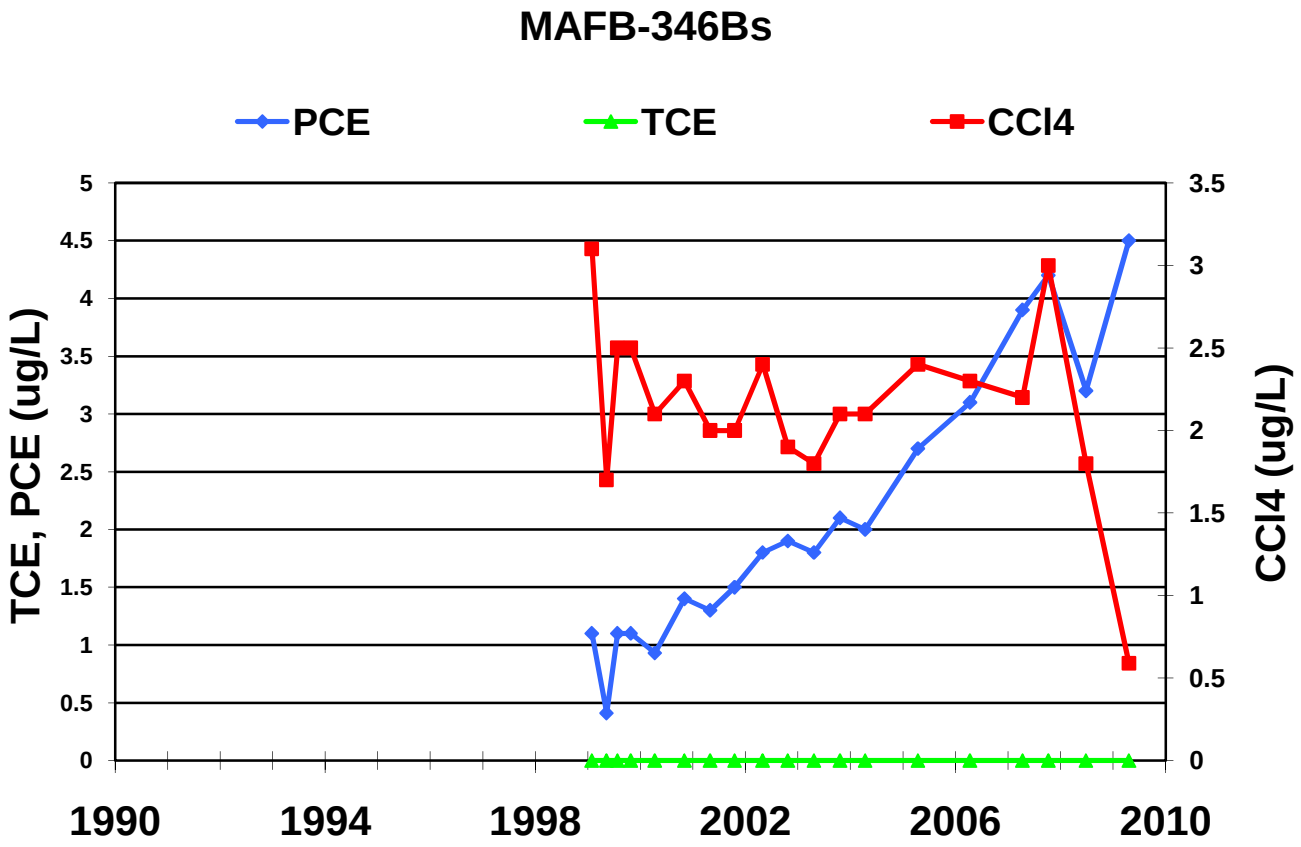

MAFB-342
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1400
1200
1000
800
600
400
200
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

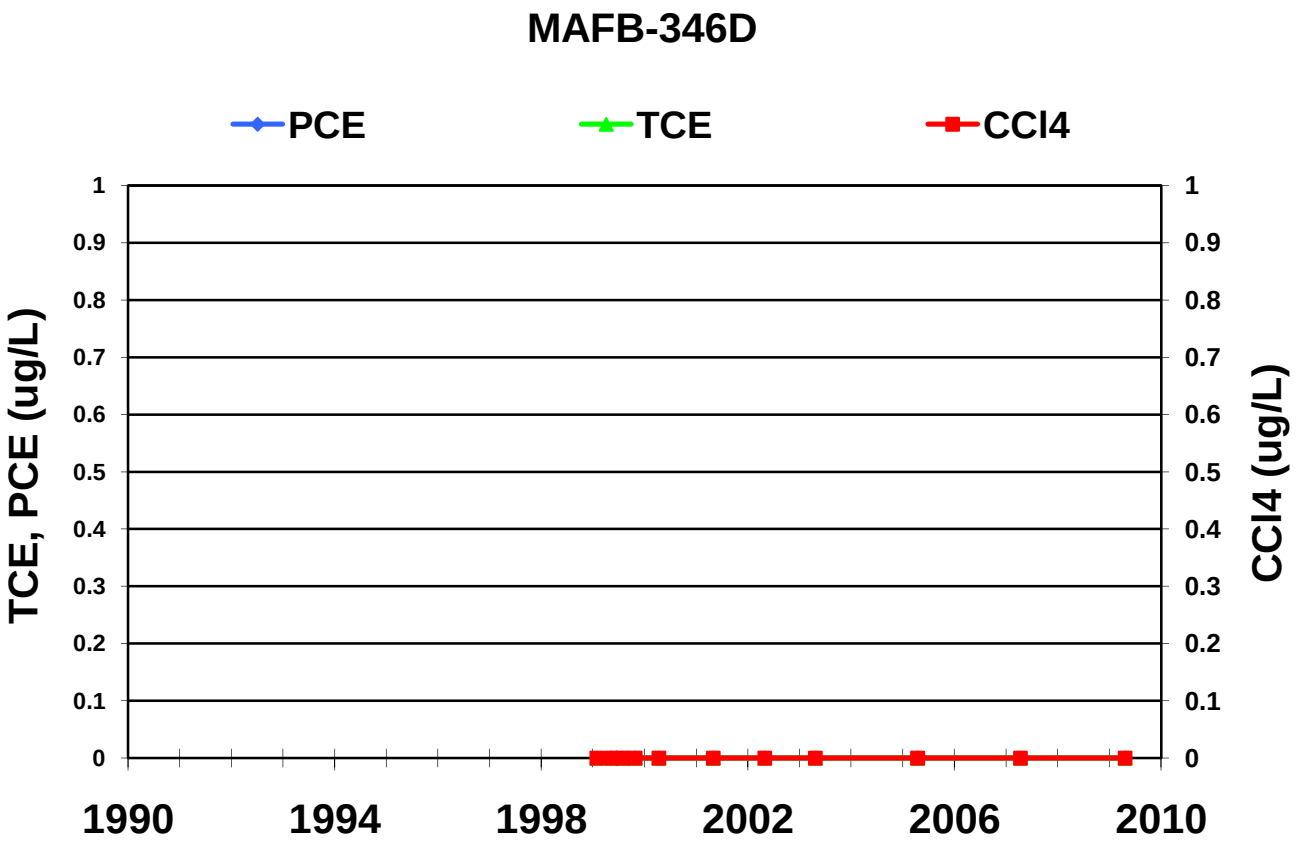

MAFB-343
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

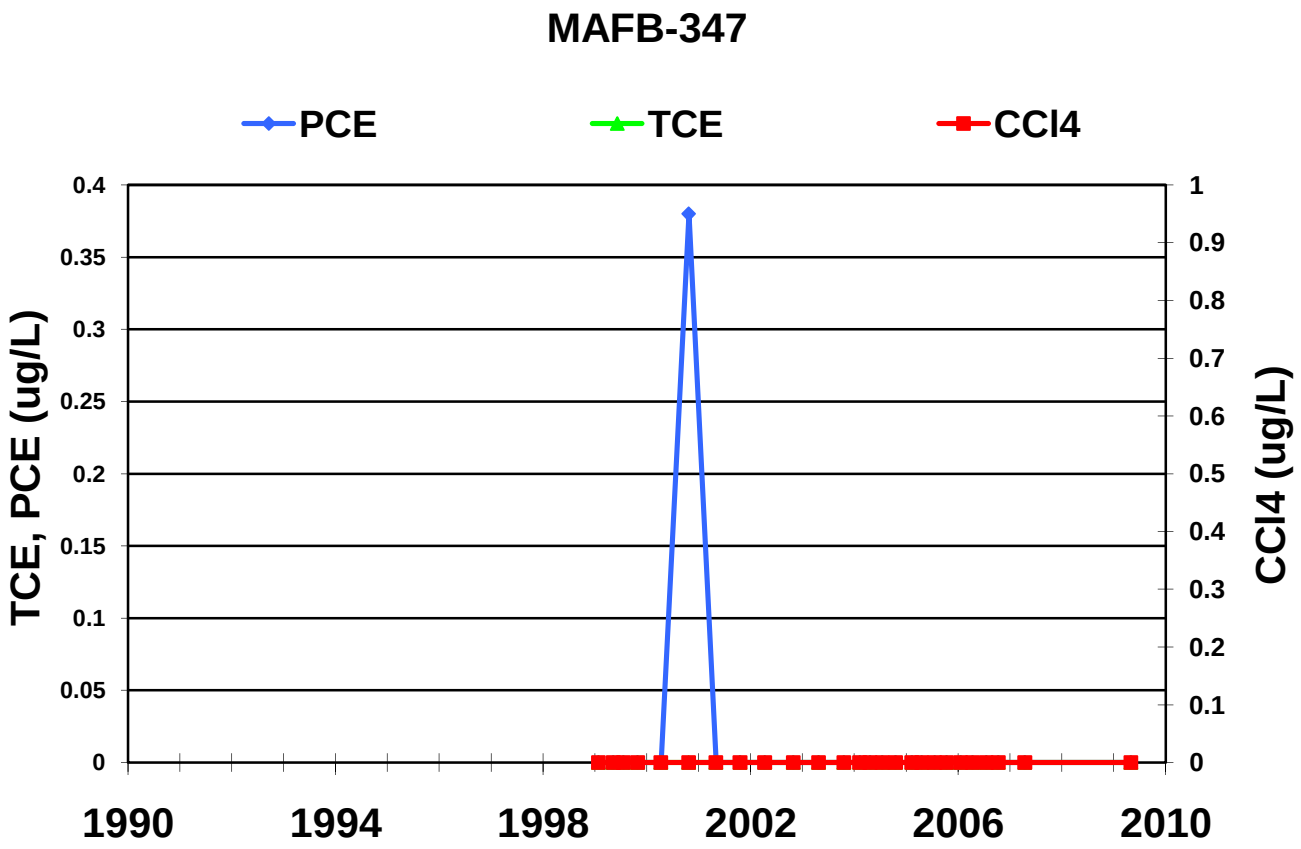

MAFB-344
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

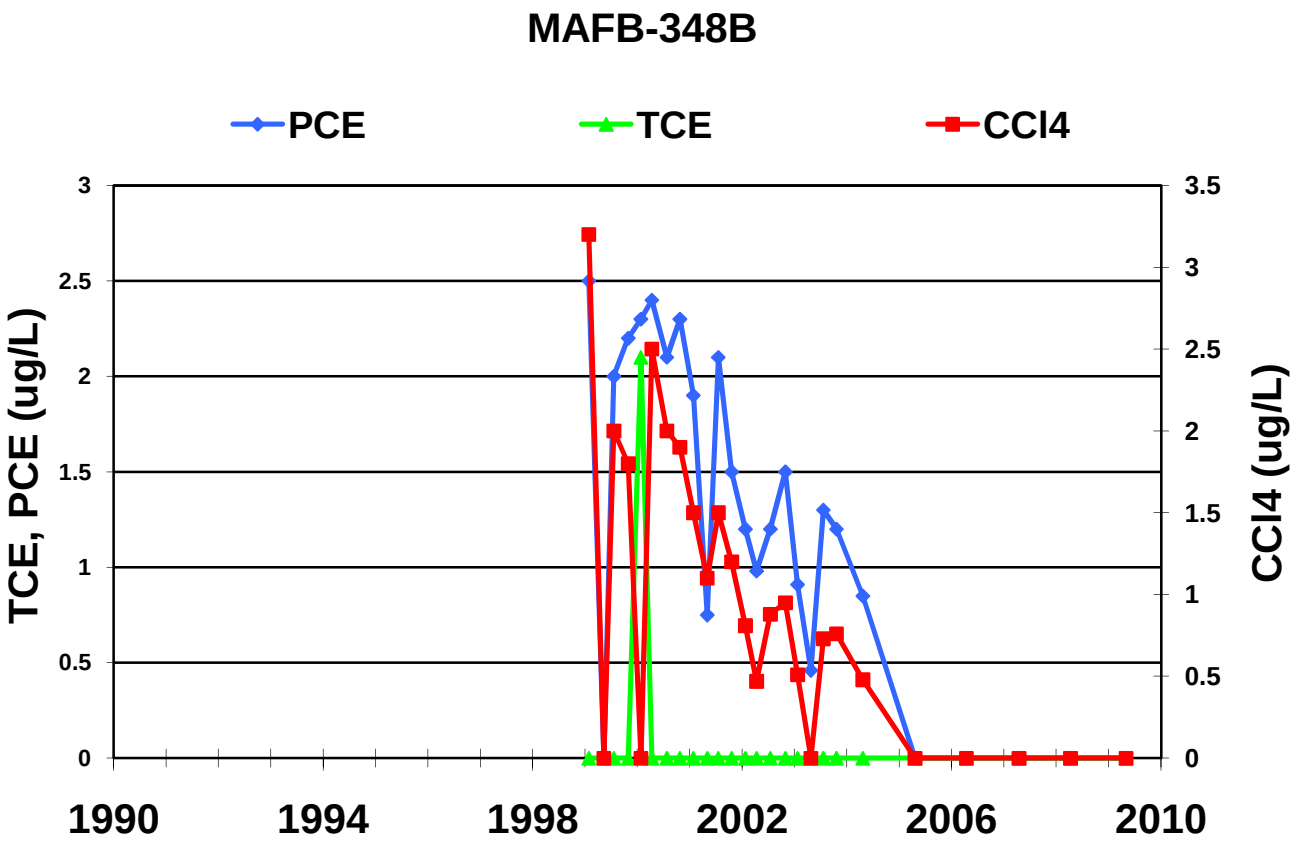

MAFB-345
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

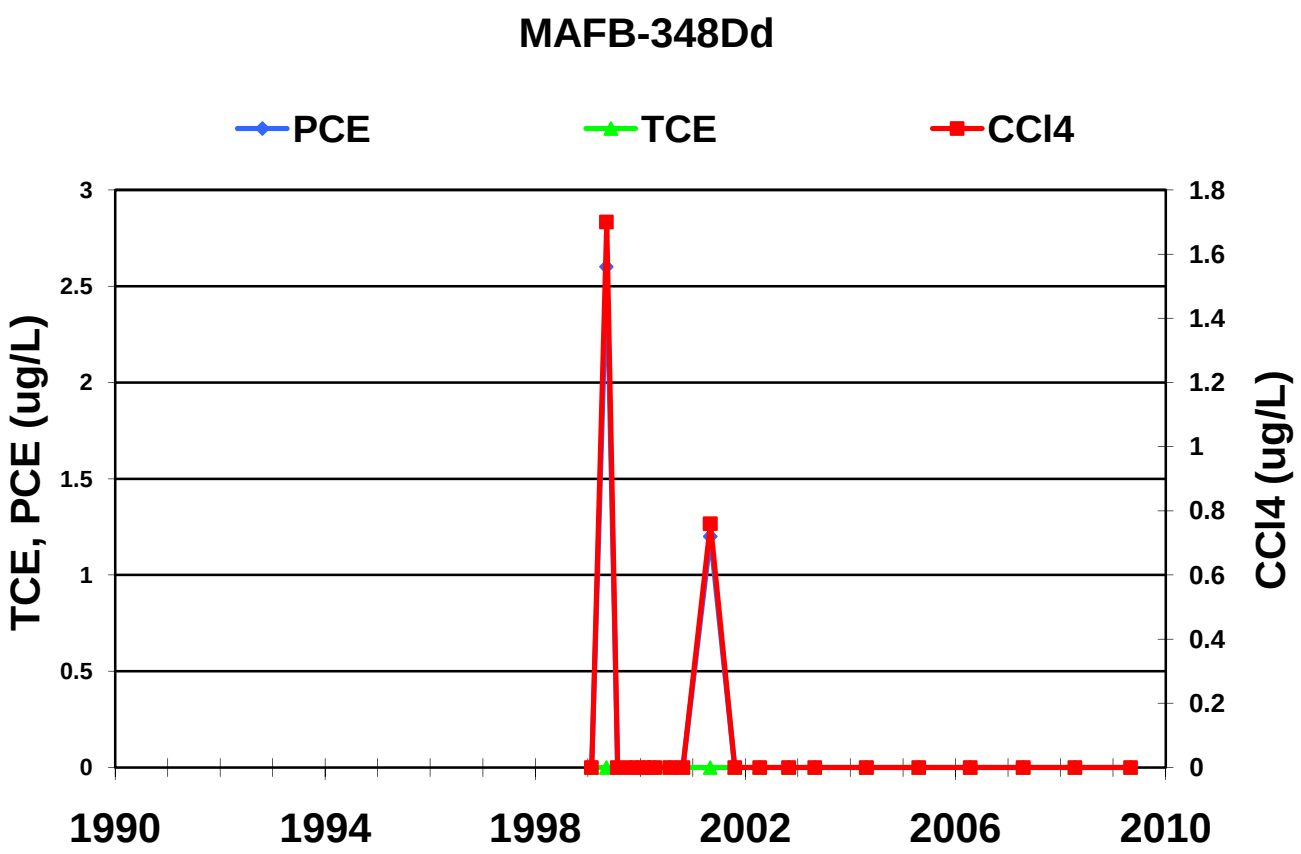

MAFB-346Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

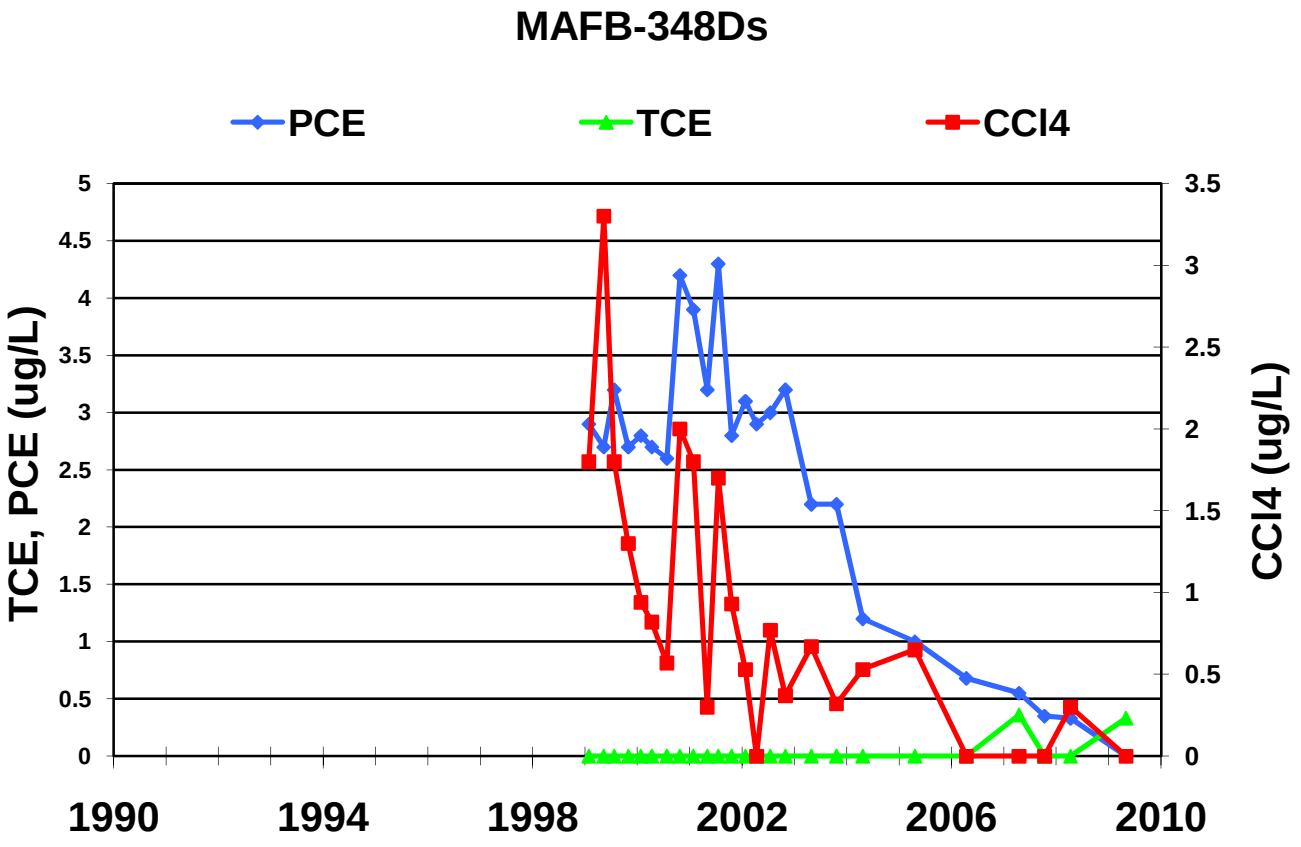

MAFB-346Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
1990
1994
1998
2002
2006
2010

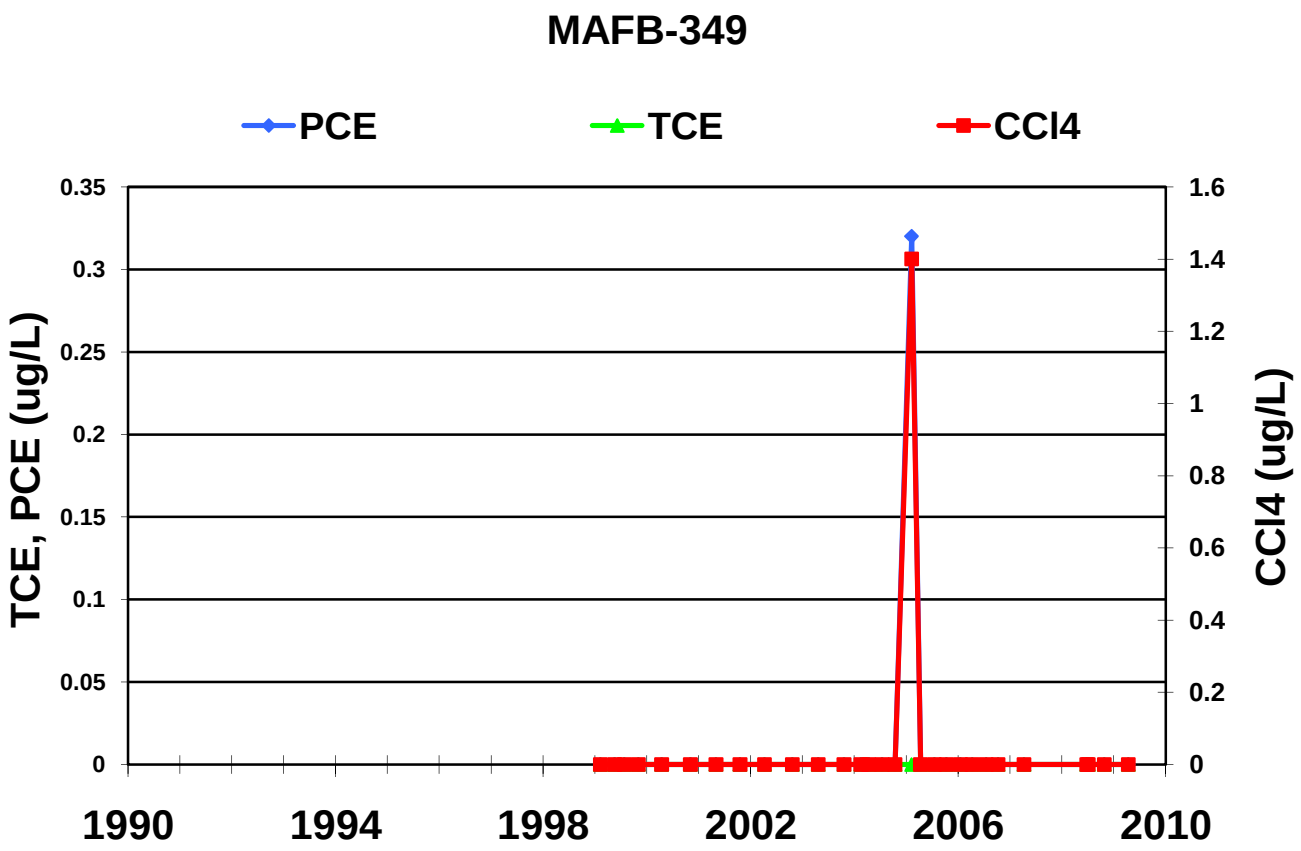

MAFB-346D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

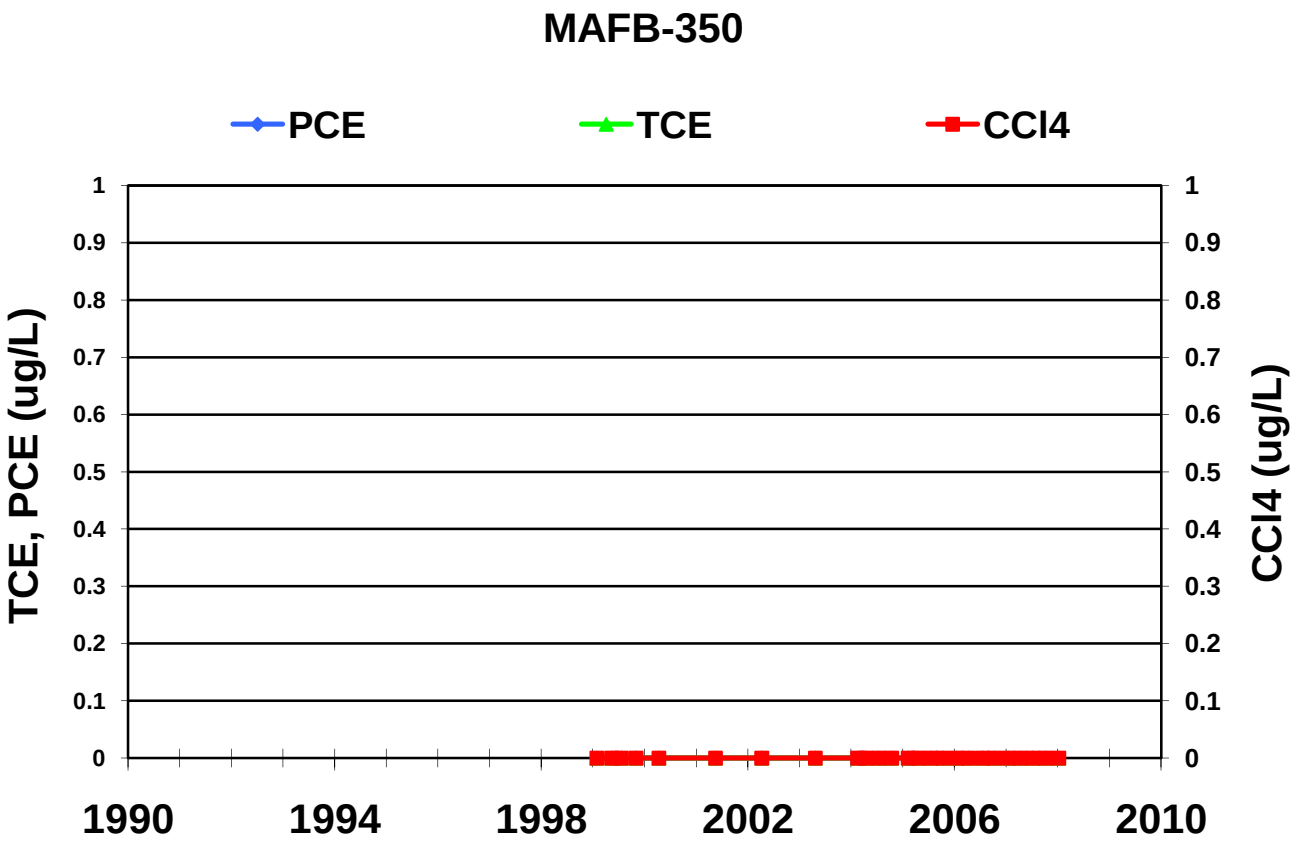

MAFB-347
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

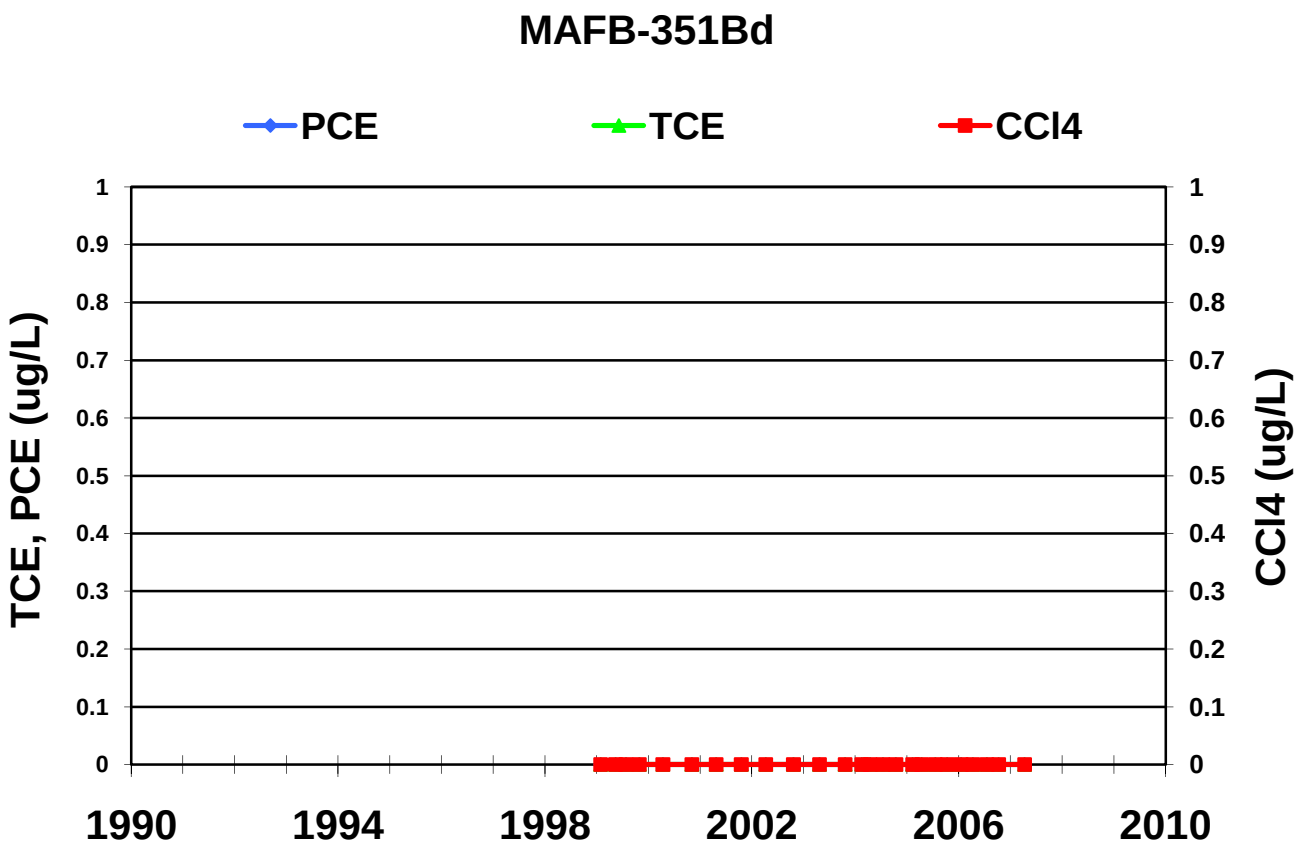

MAFB-348B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

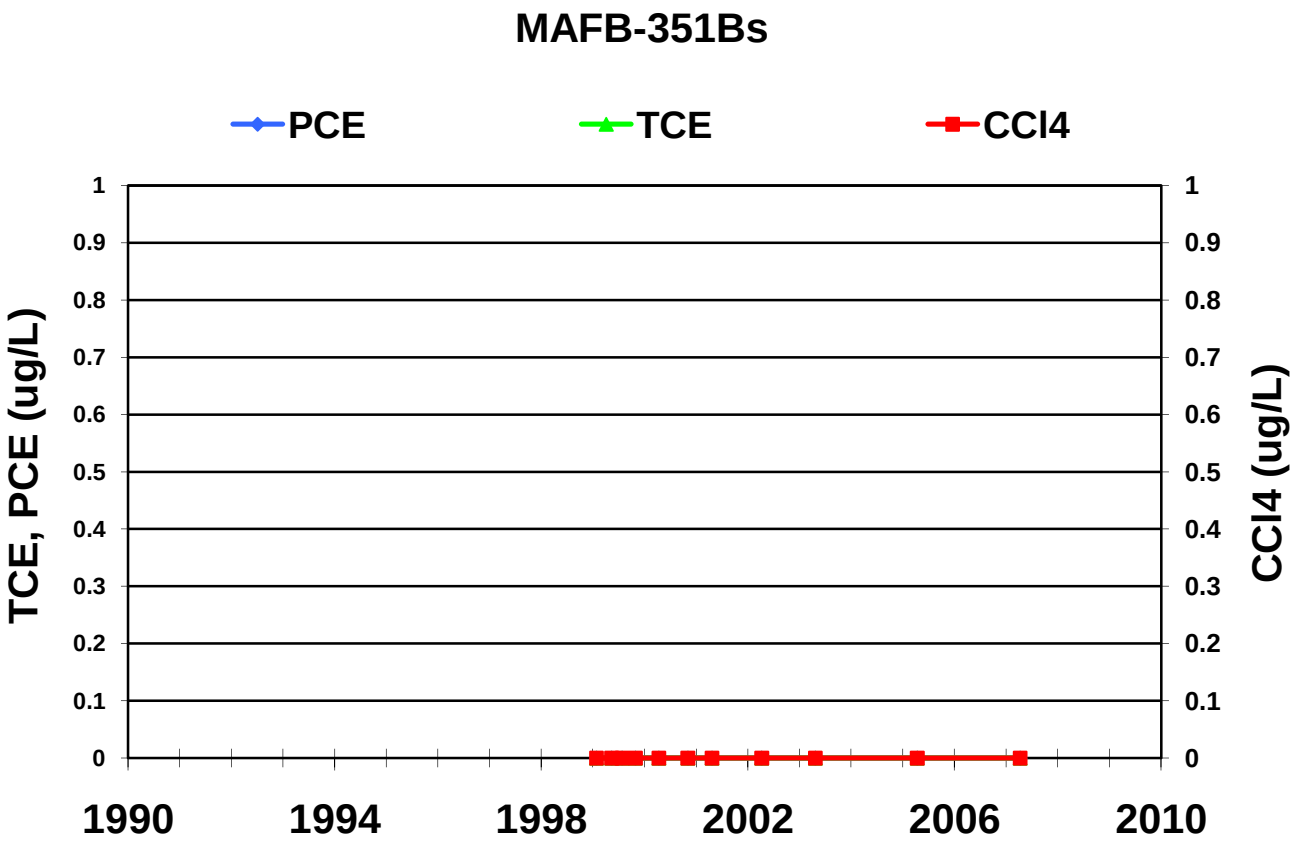

MAFB-348Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

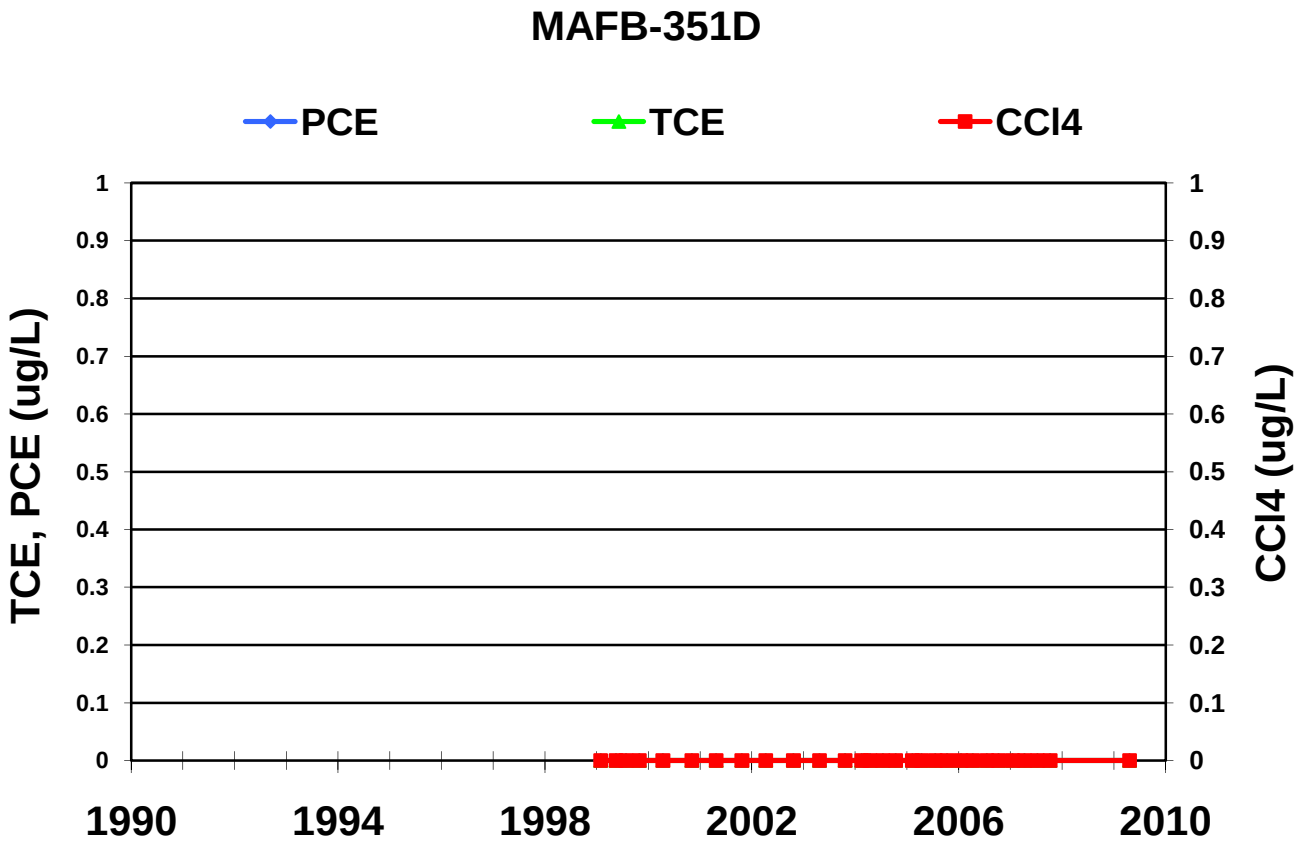

MAFB-348Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

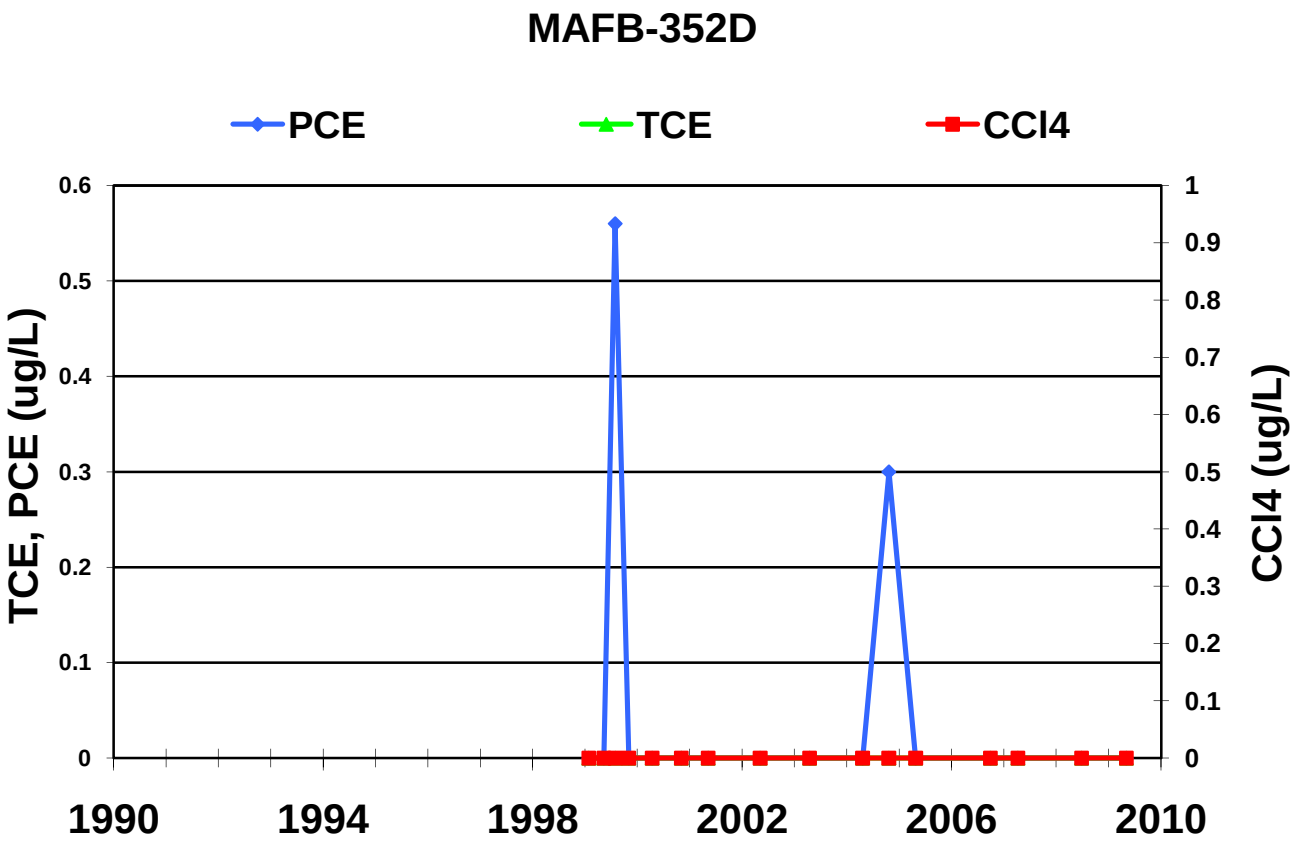

MAFB-349
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

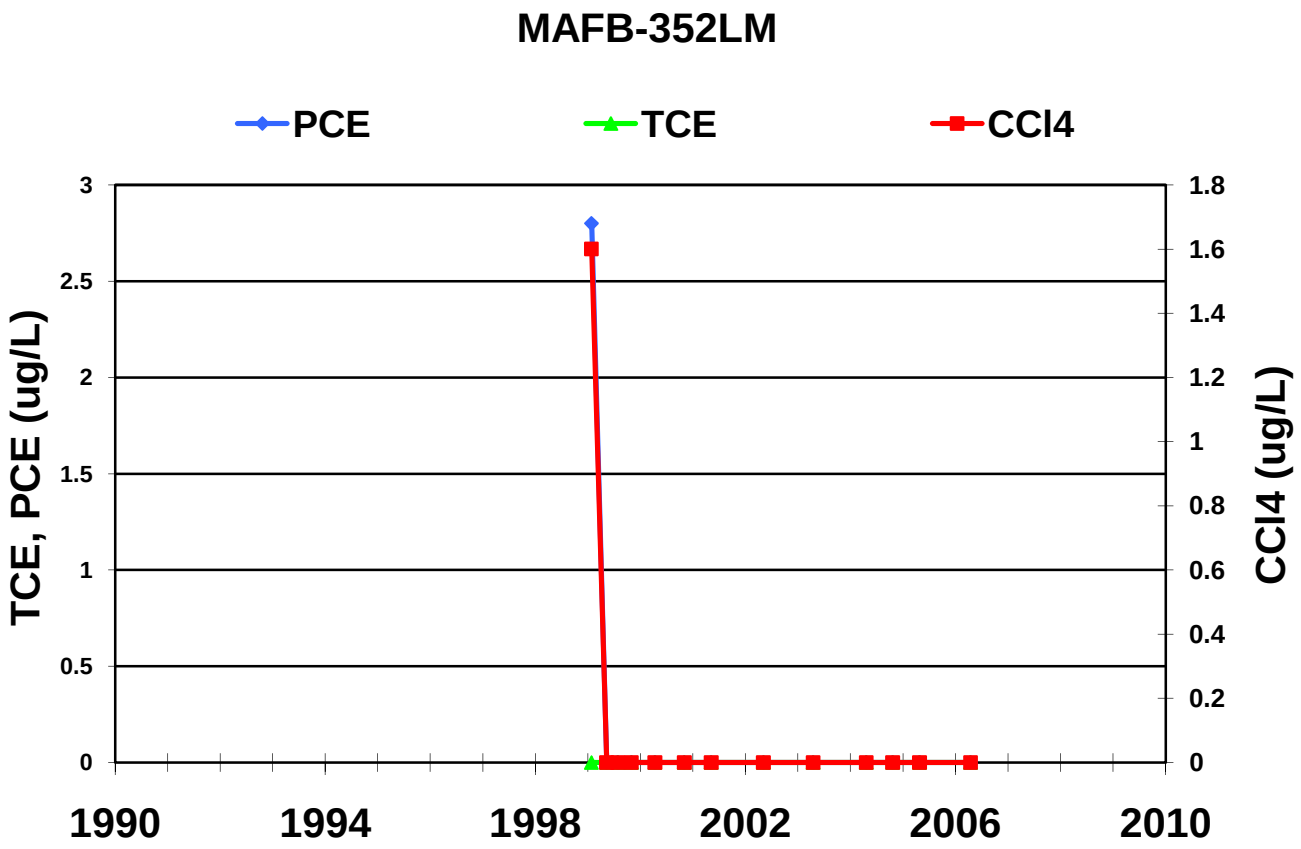

MAFB-350
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

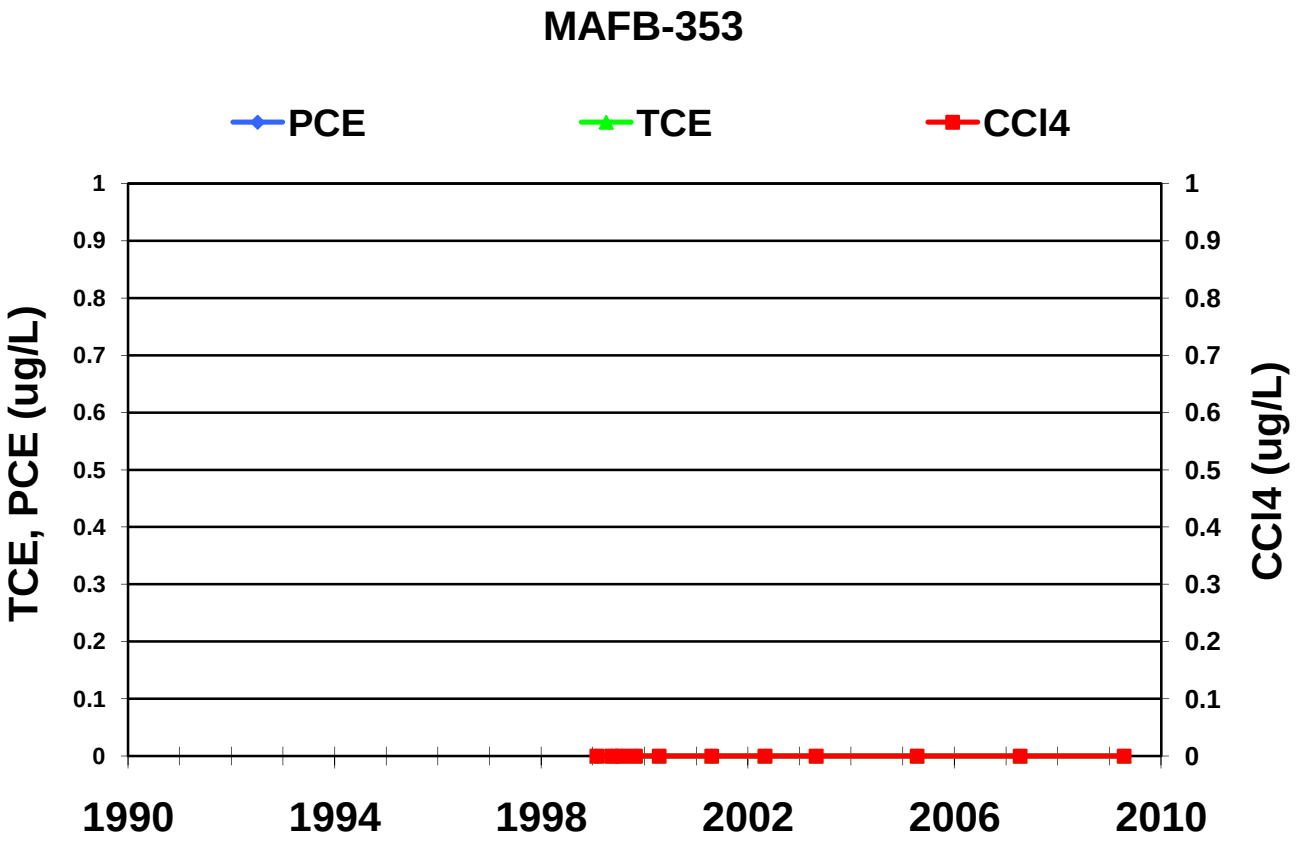

MAFB-351Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

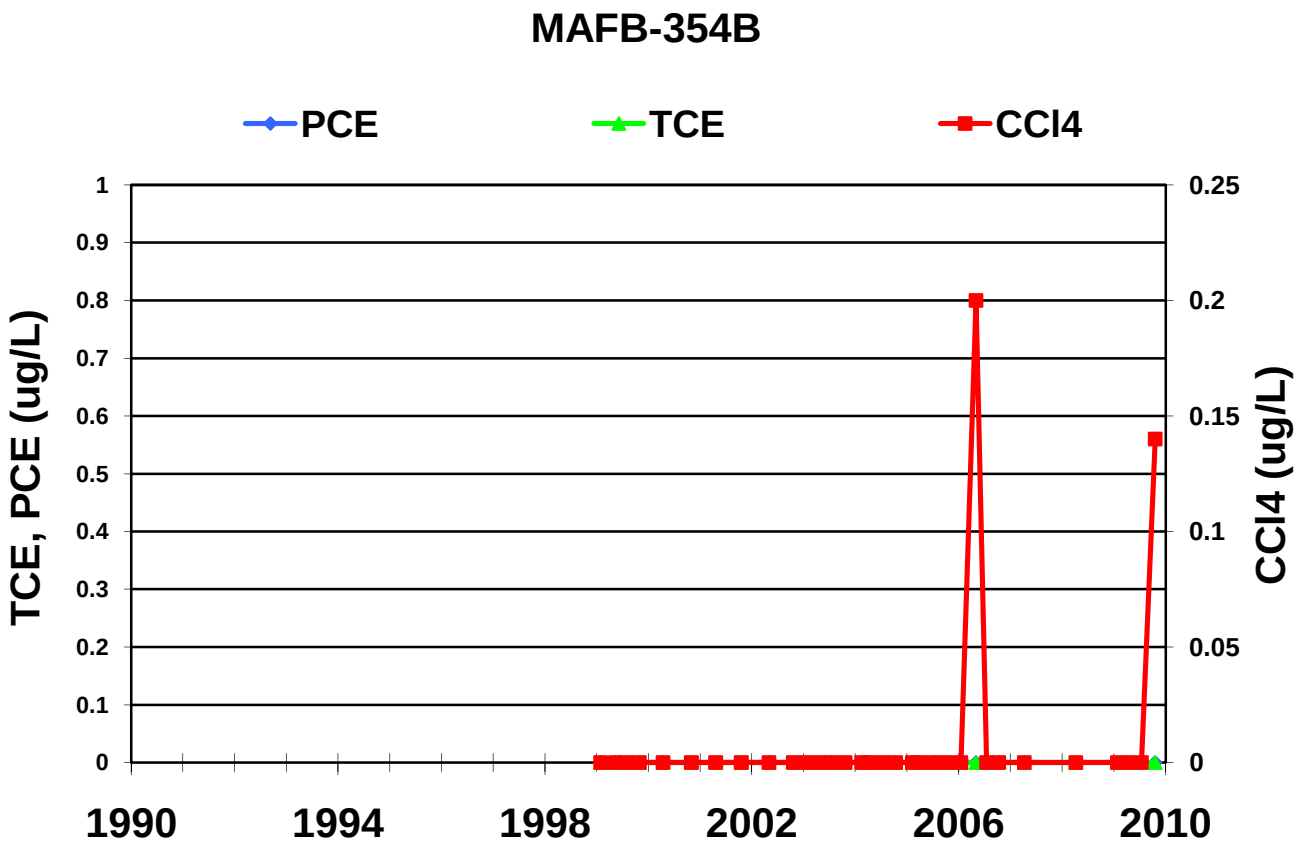

MAFB-351Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

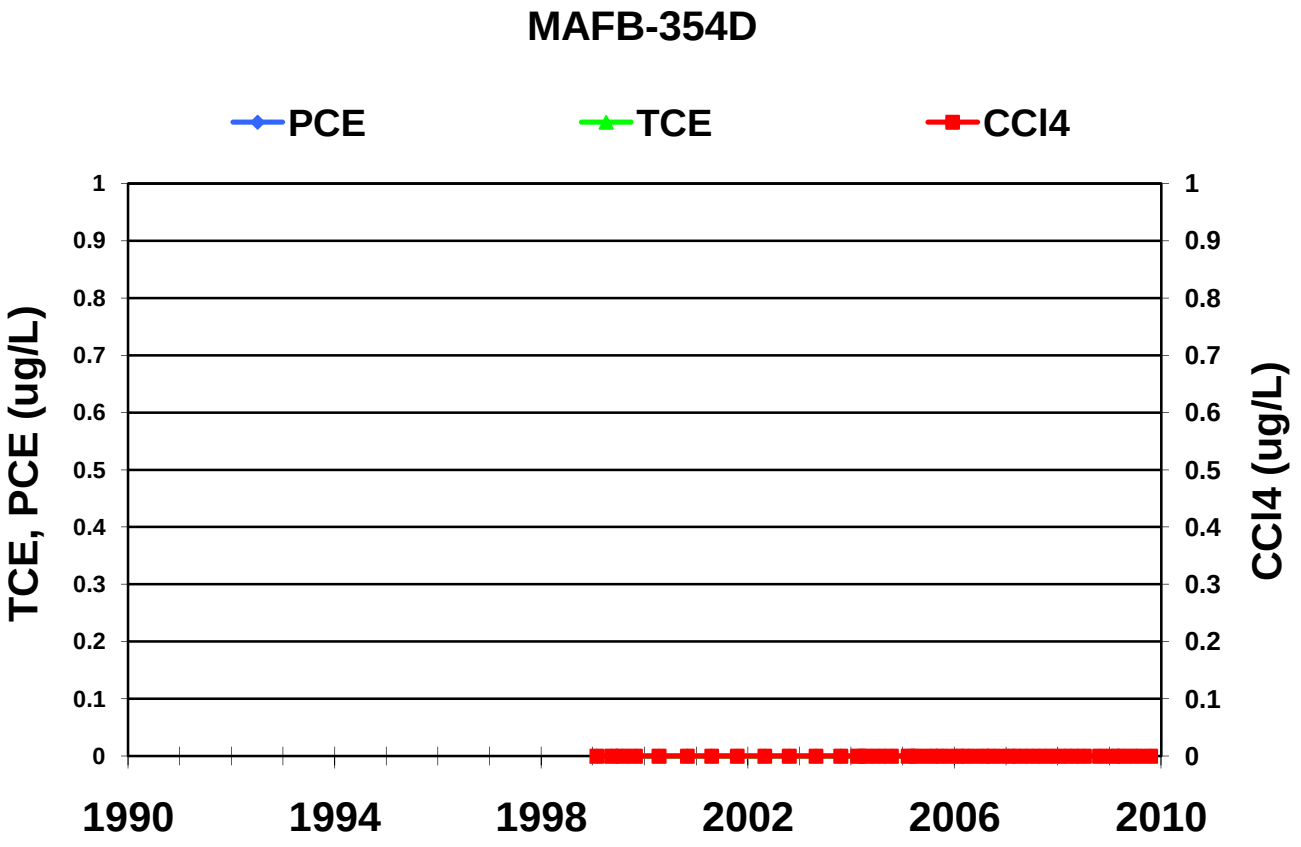

MAFB-351D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

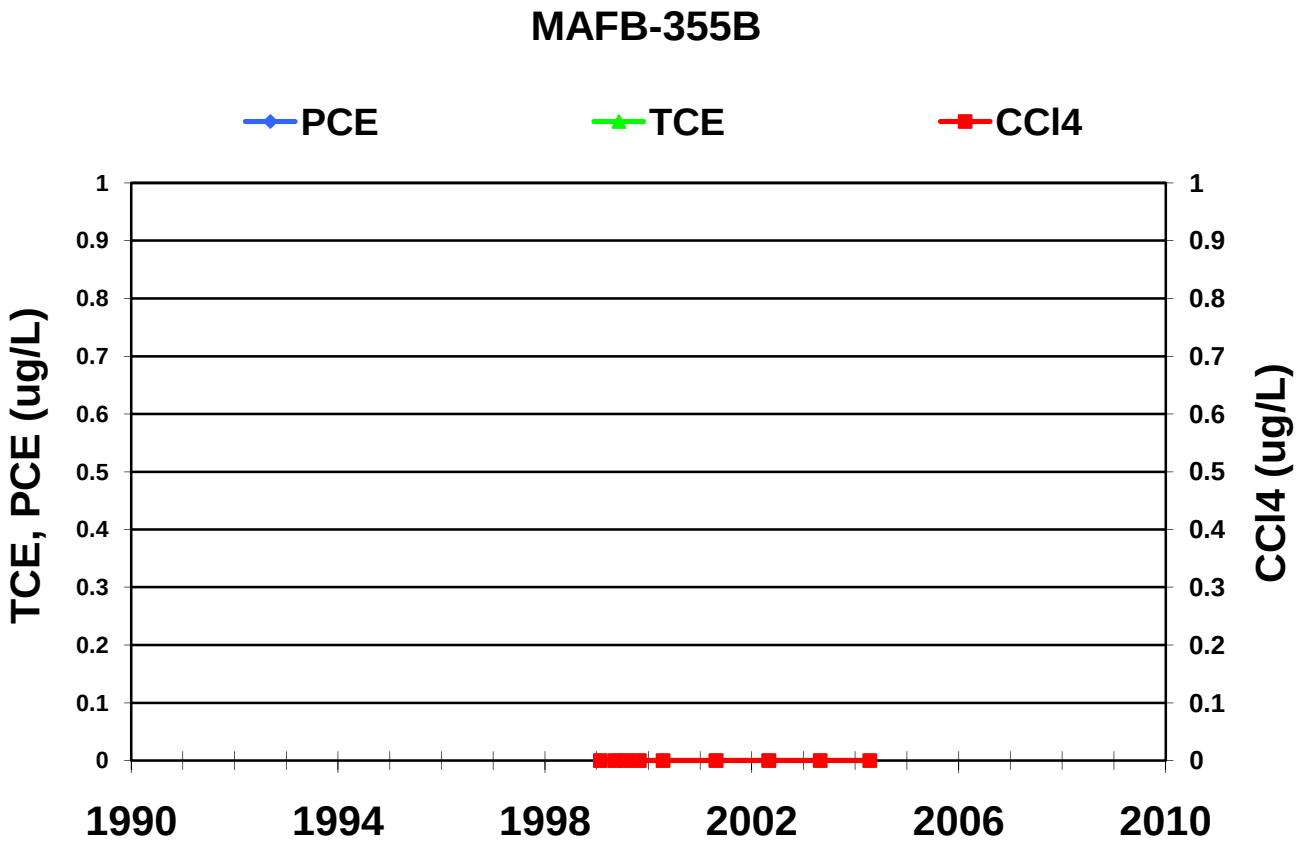

MAFB-352D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

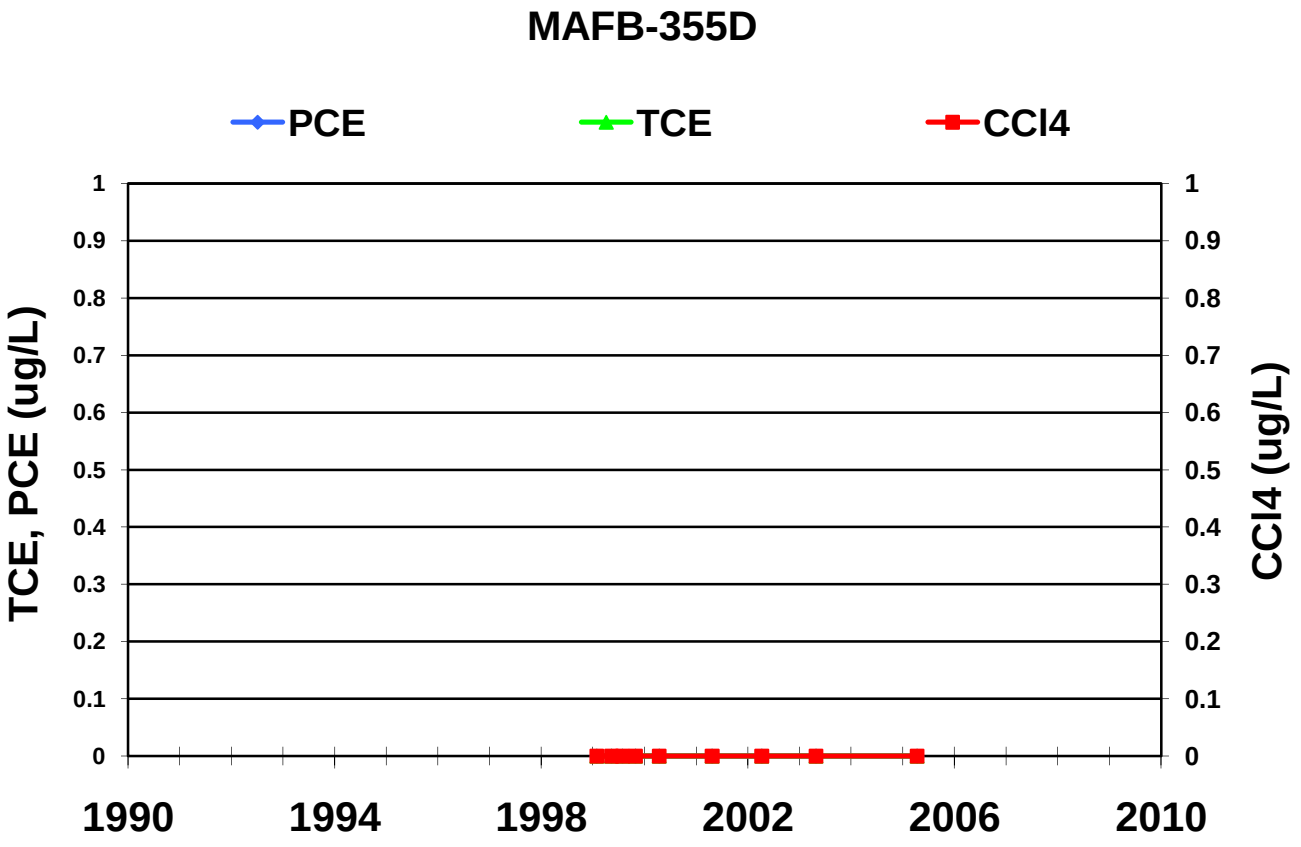

MAFB-352LM
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

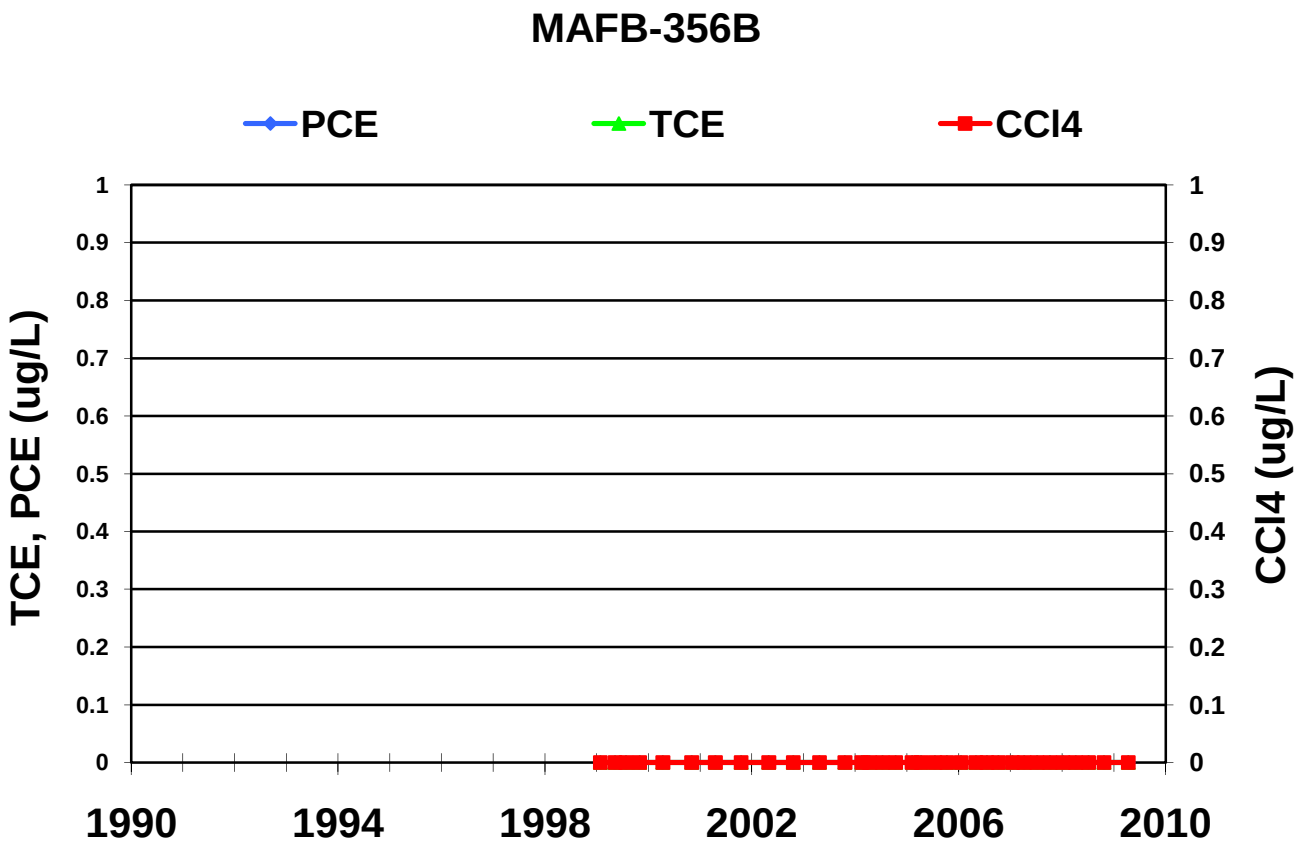

MAFB-353
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

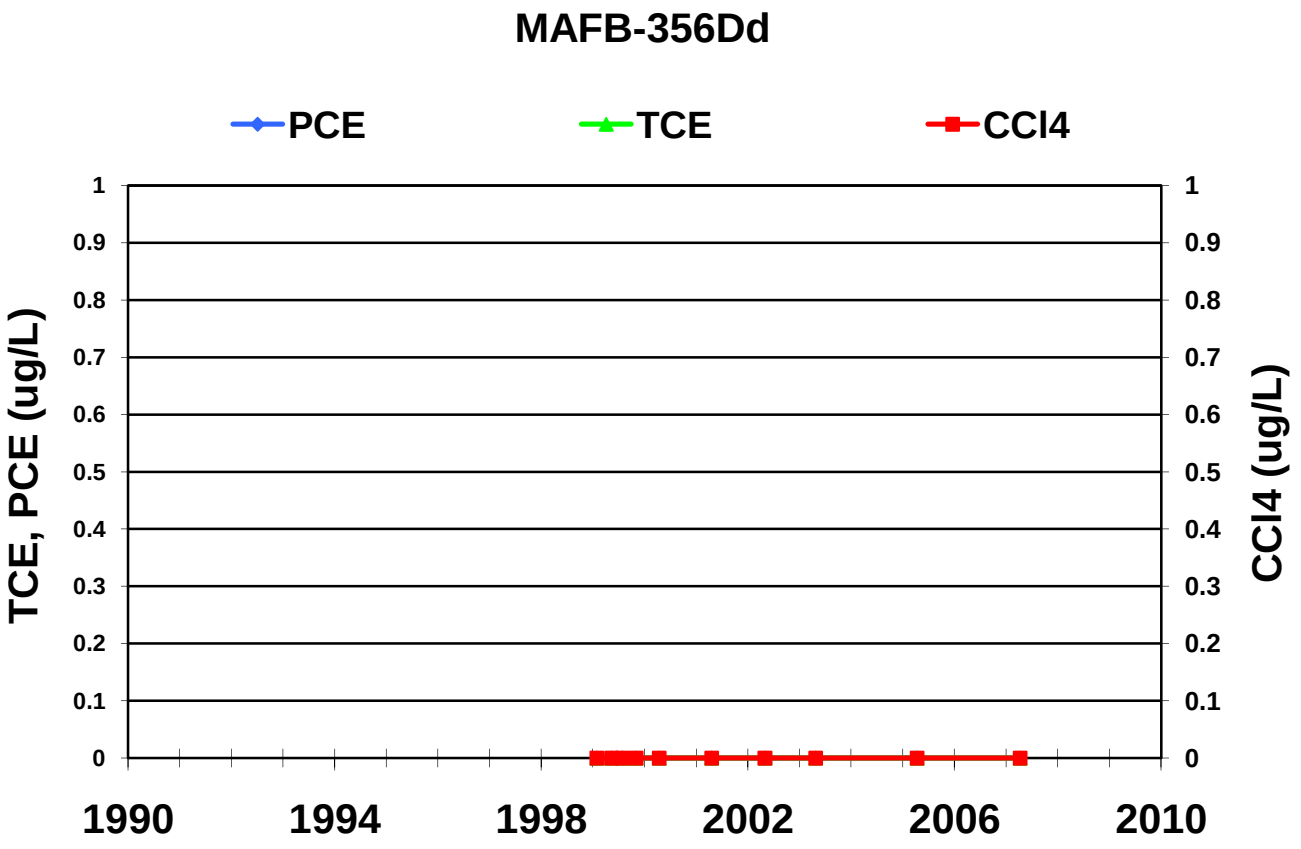

MAFB-354B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

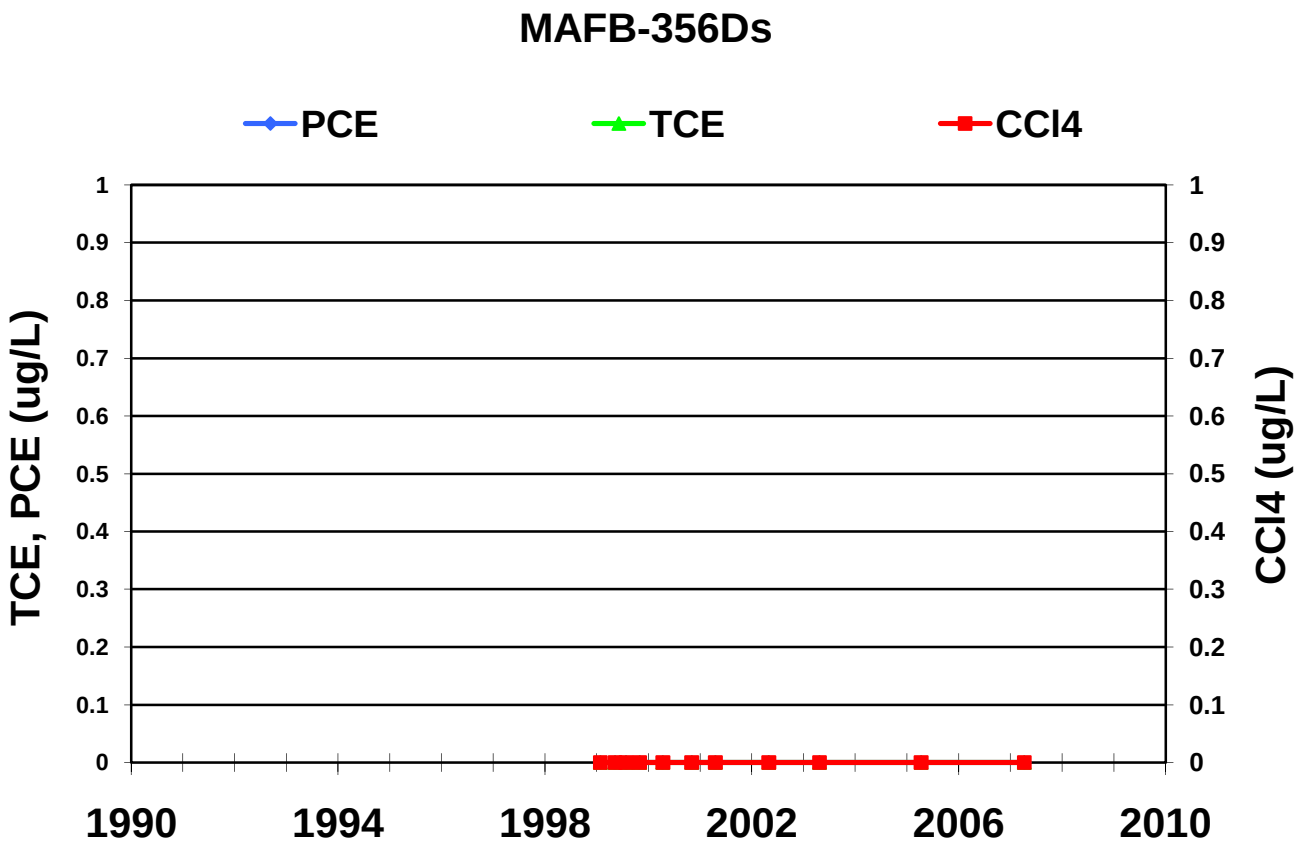

MAFB-354D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

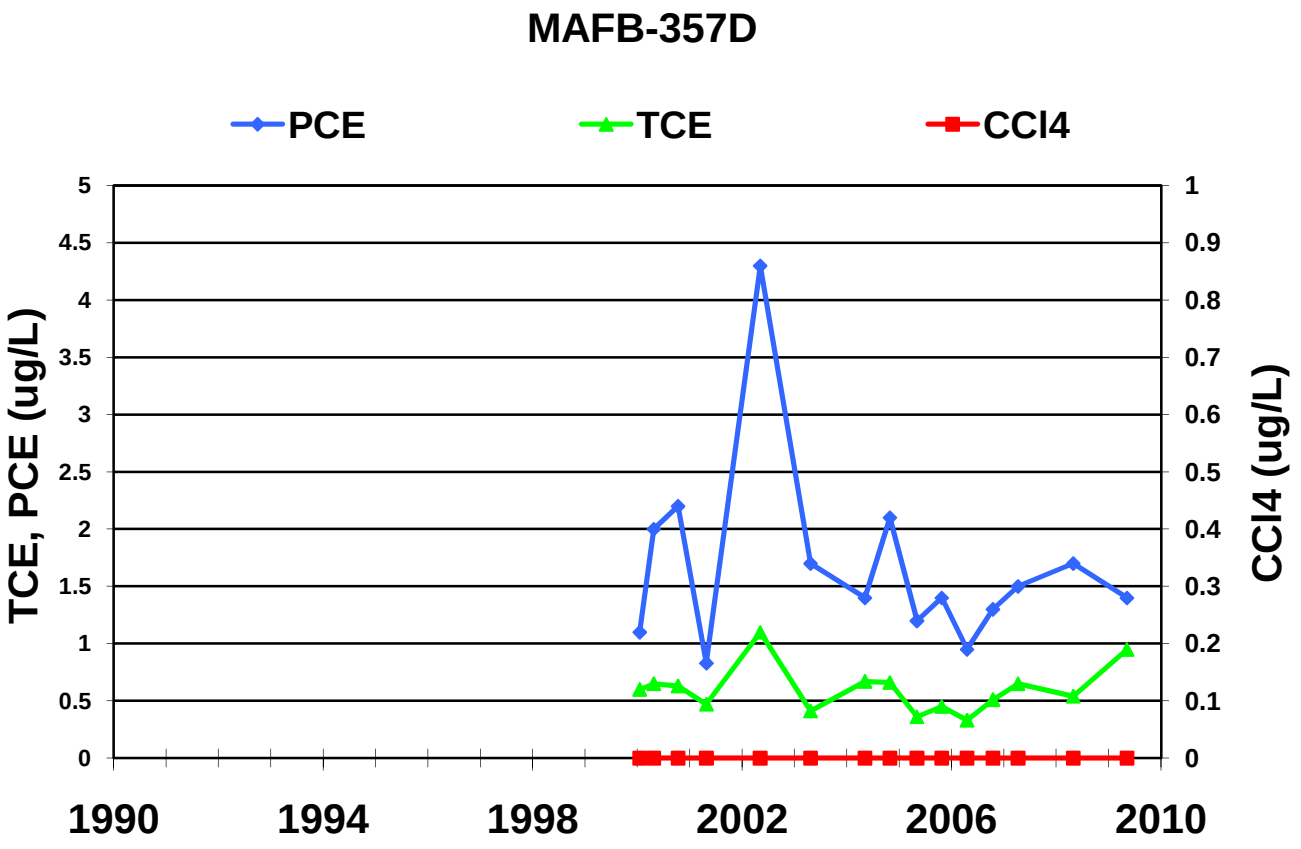

MAFB-355B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

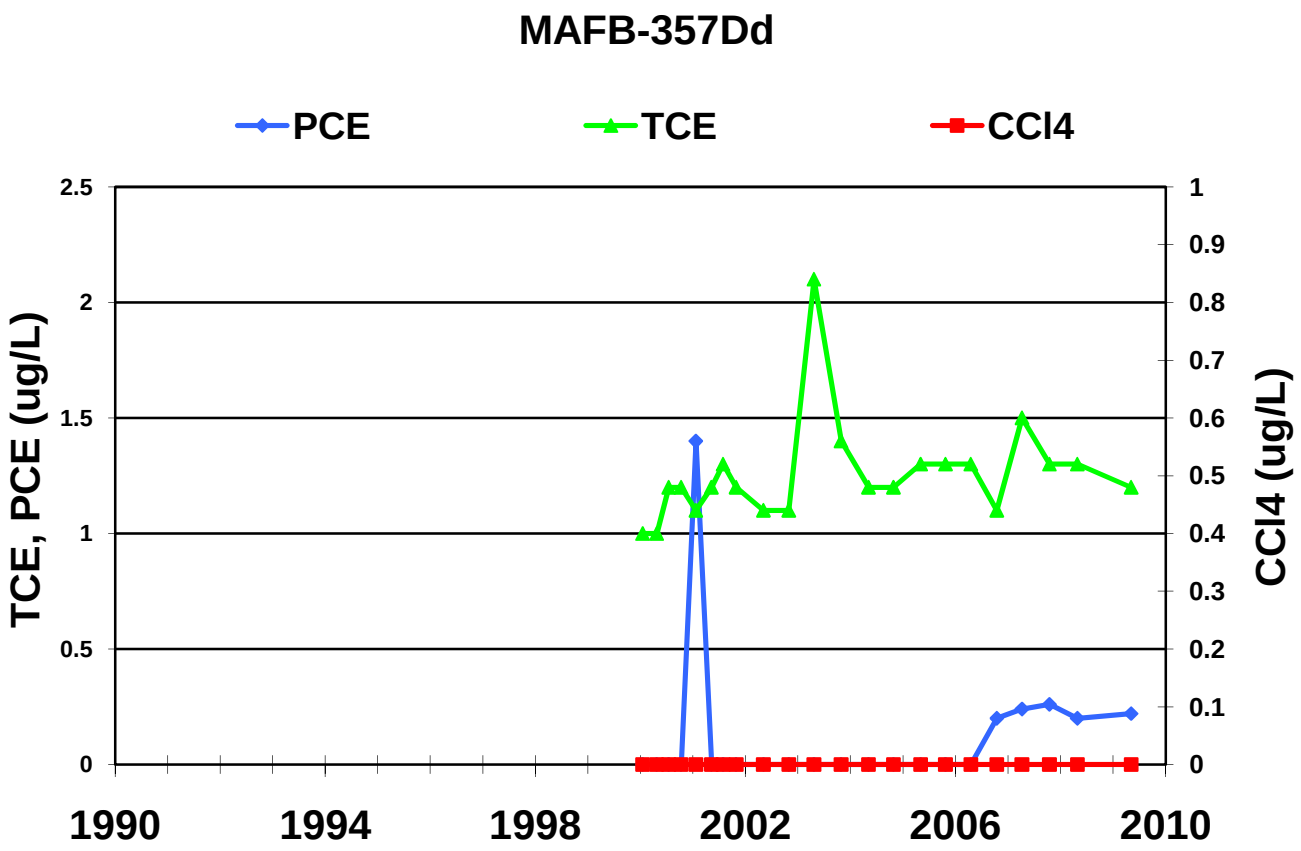

MAFB-355D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

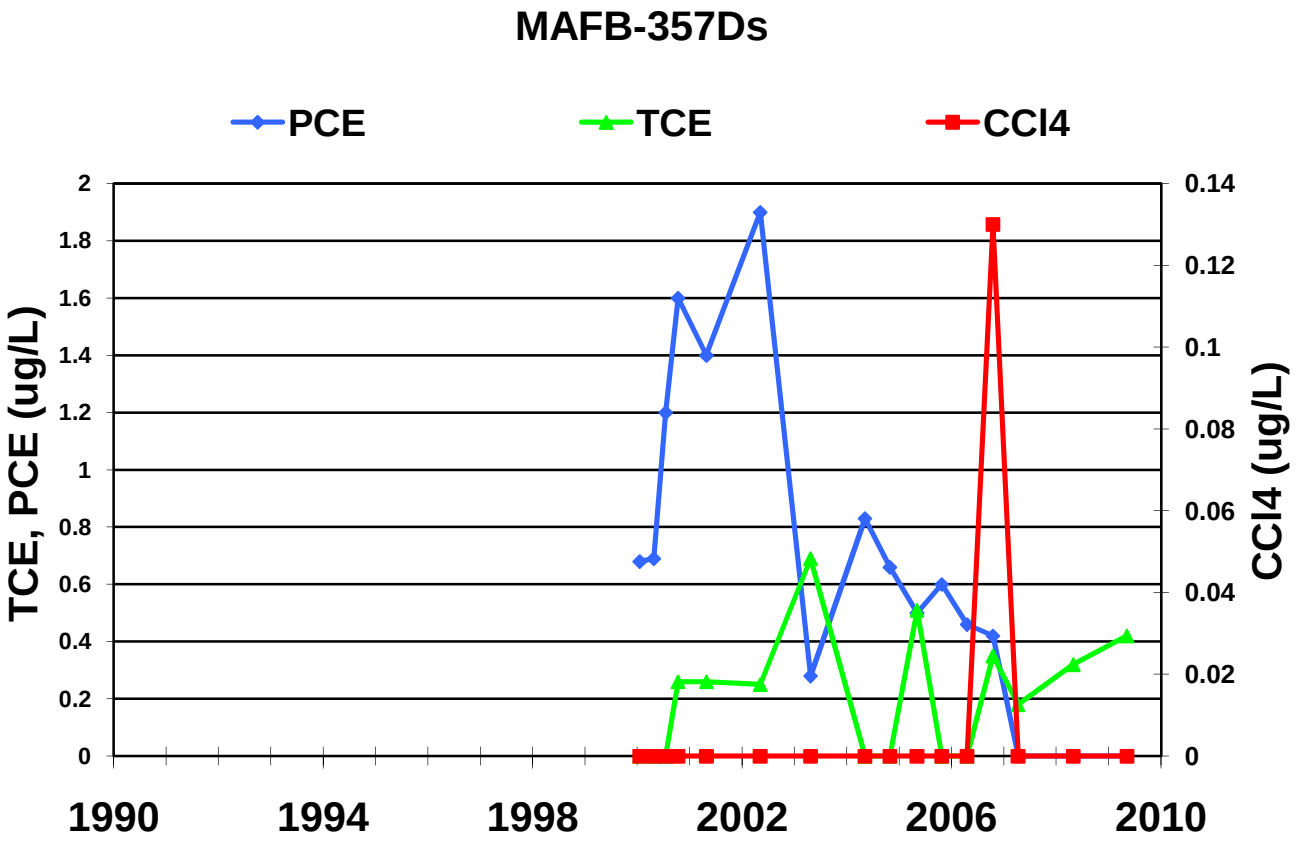

MAFB-356B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

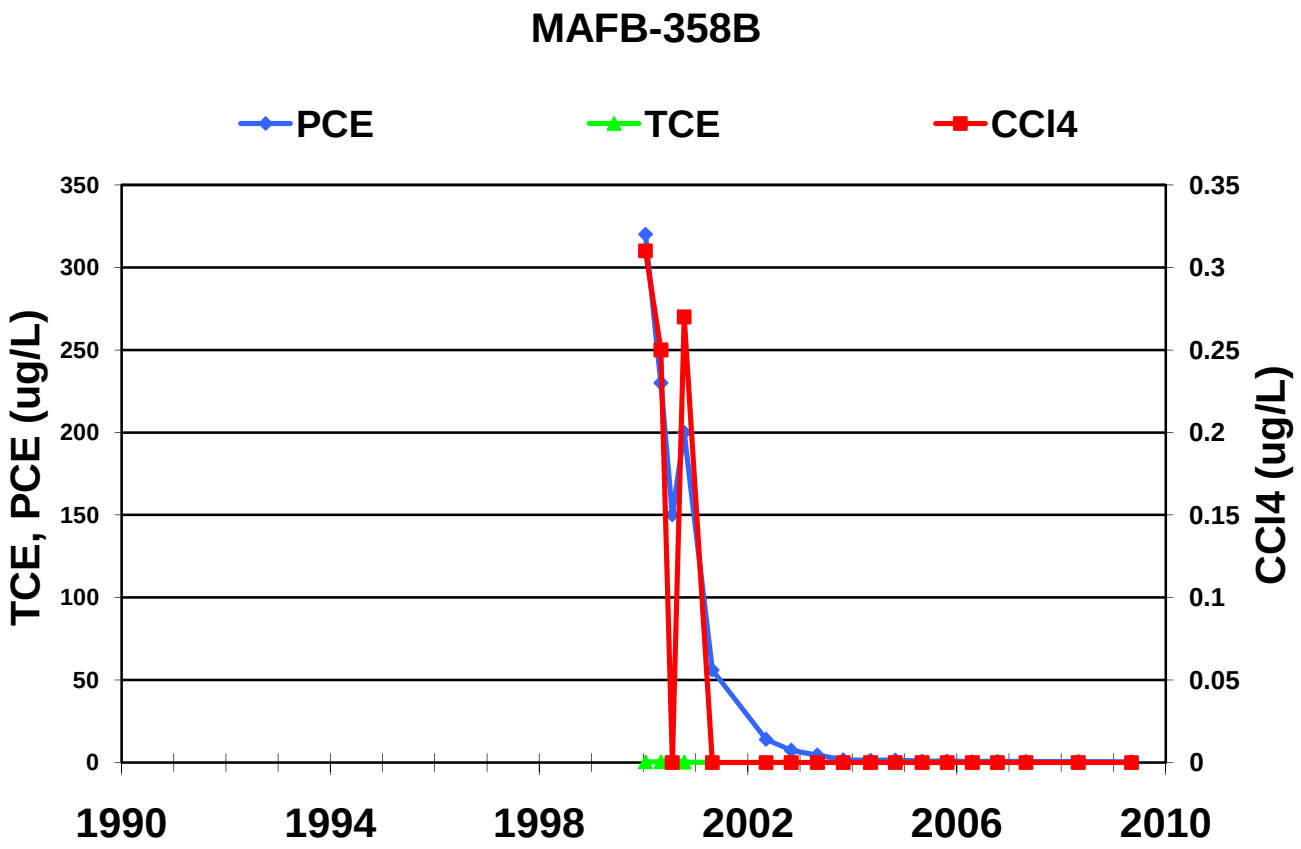

MAFB-356Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

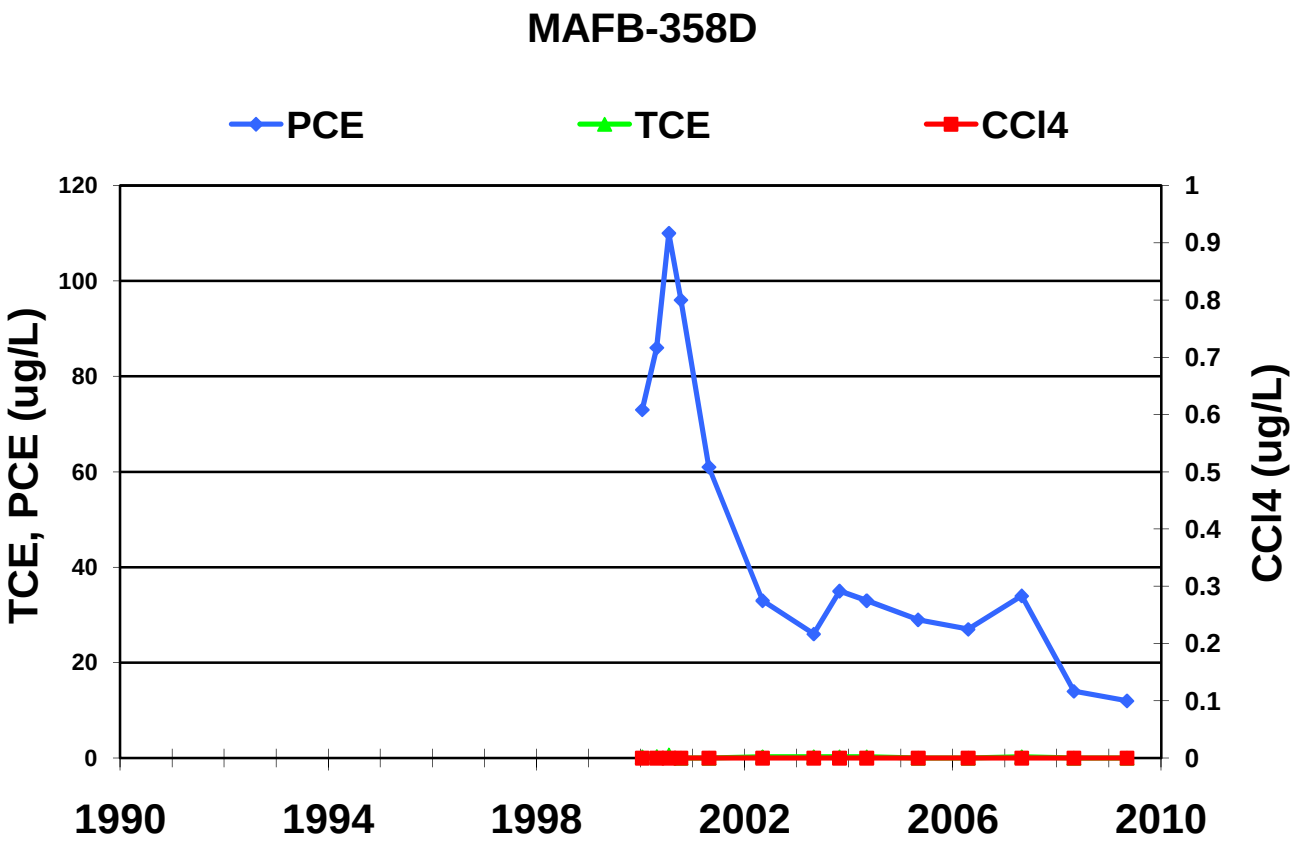

MAFB-356Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

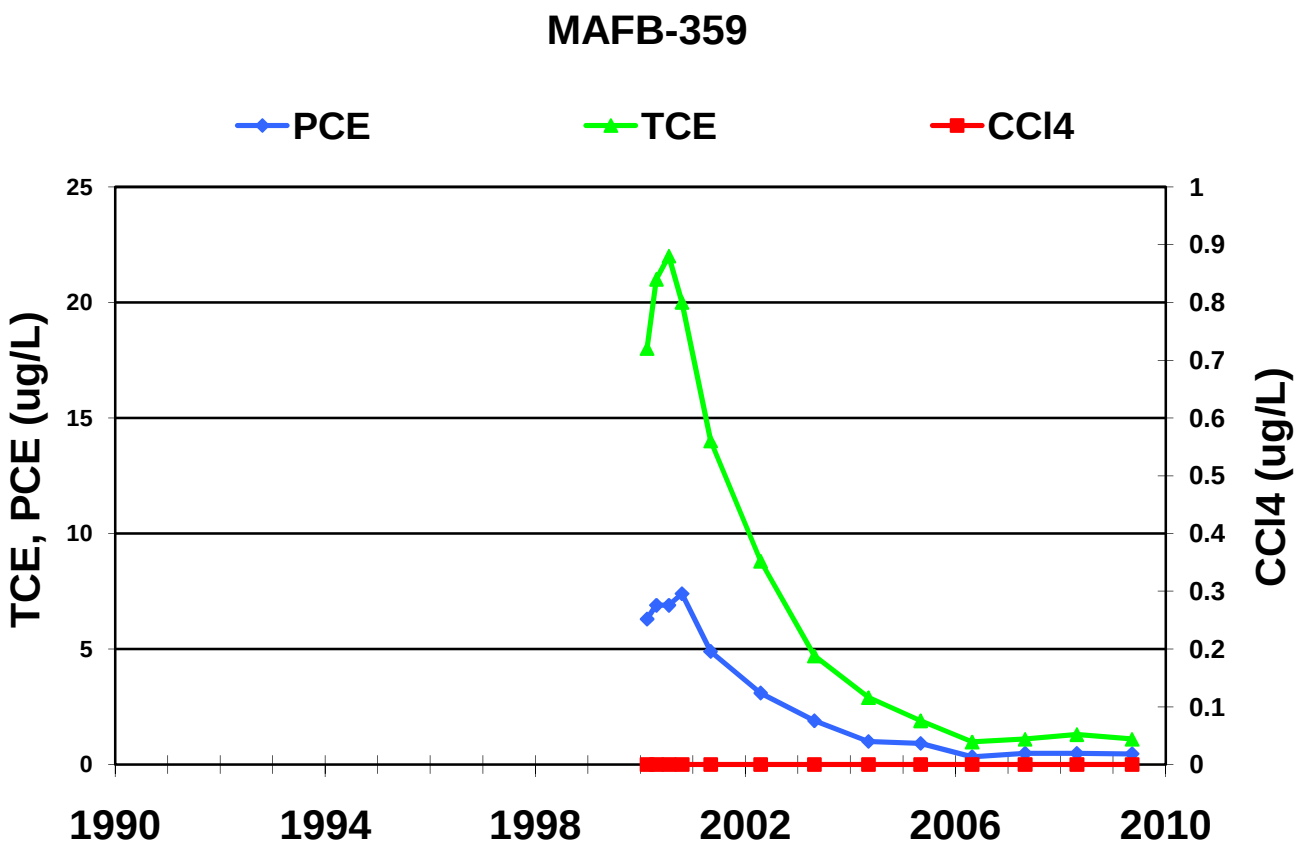

MAFB-357D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

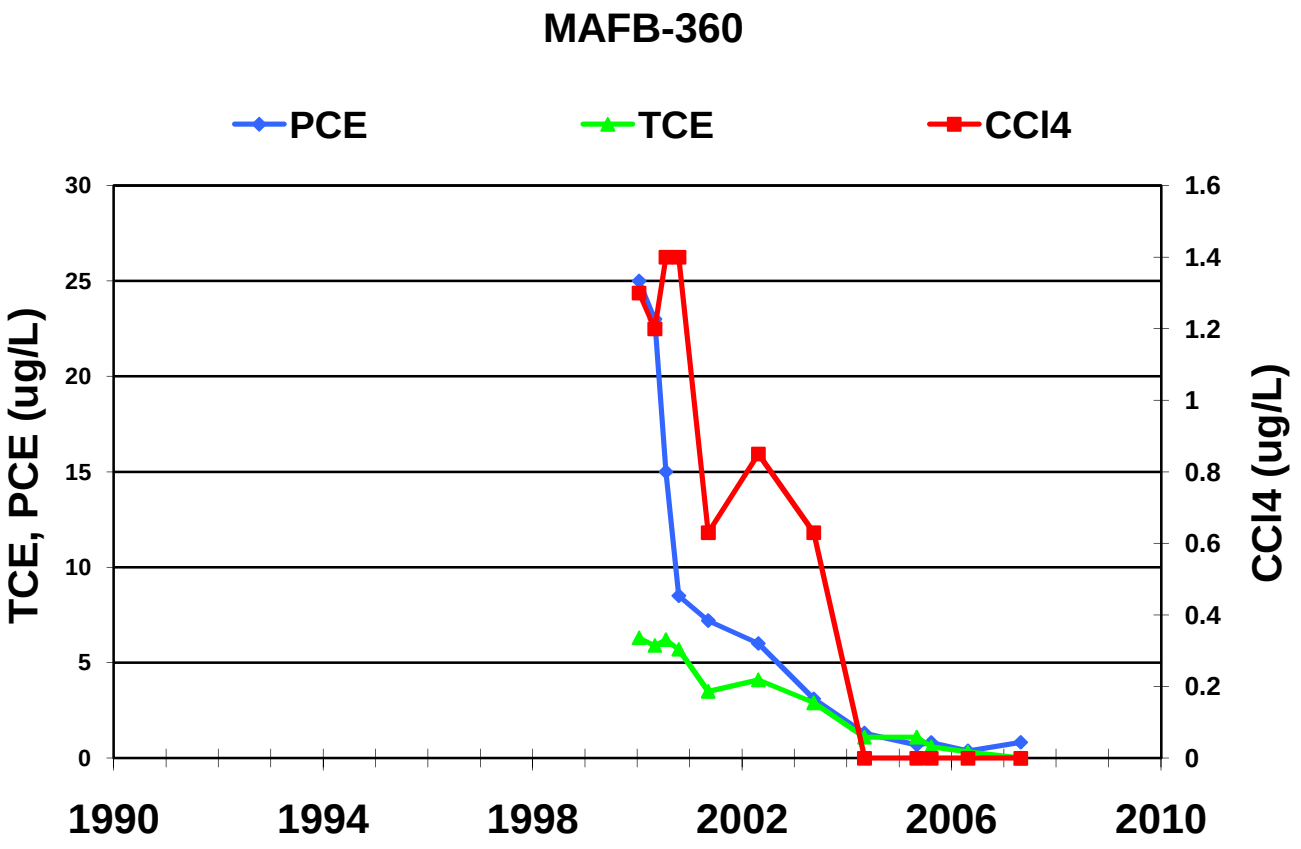

MAFB-357Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

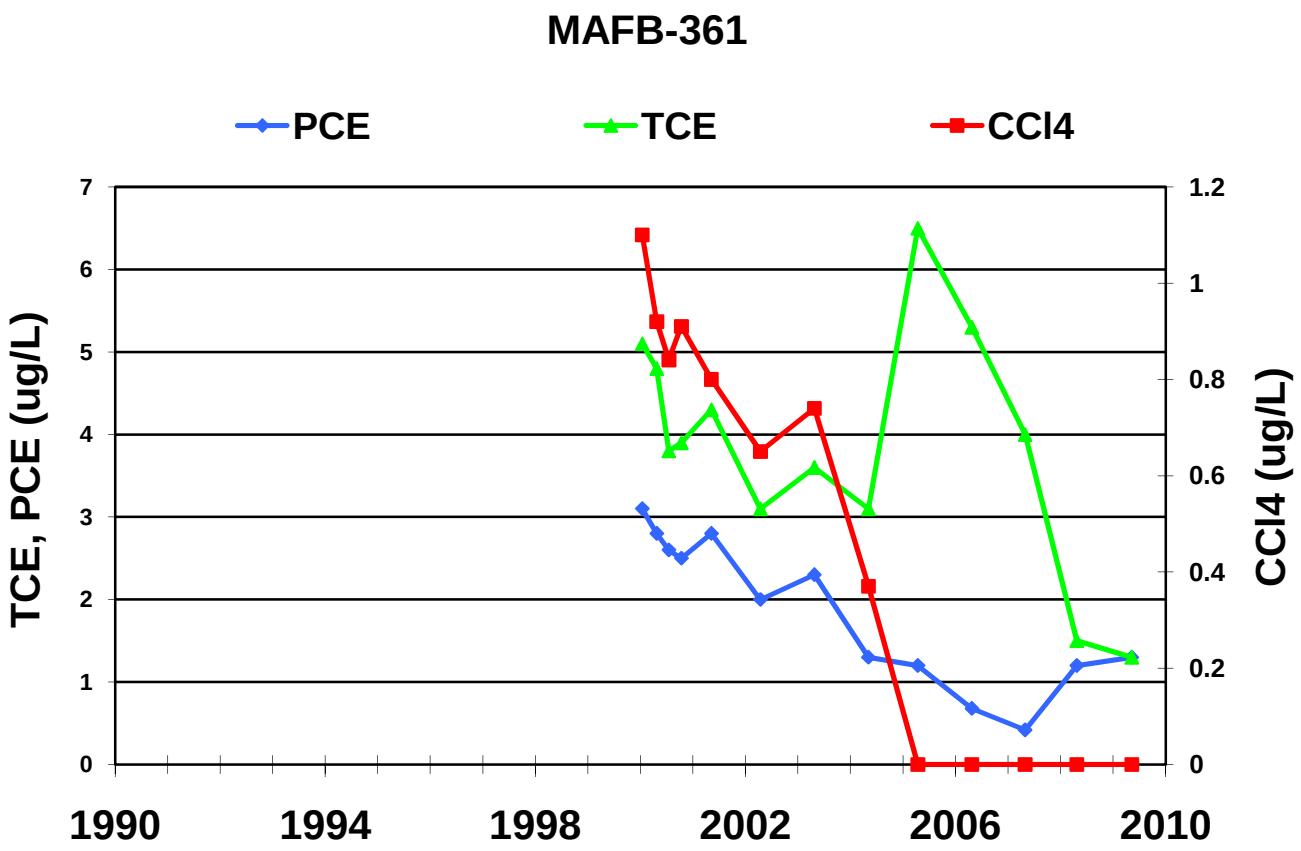

MAFB-357Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1990
1994
1998
2002
2006
2010

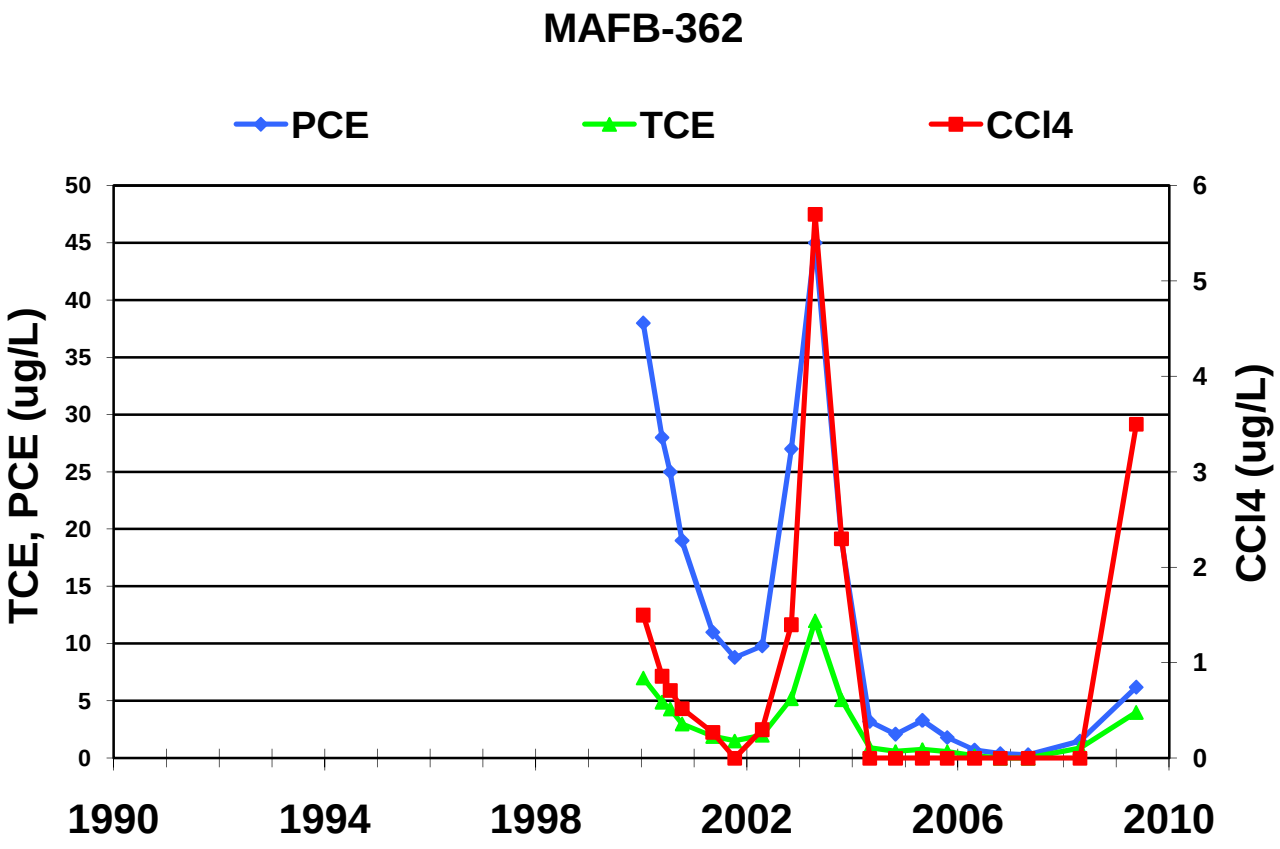

MAFB-358B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
350
300
250
200
150
100
50
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

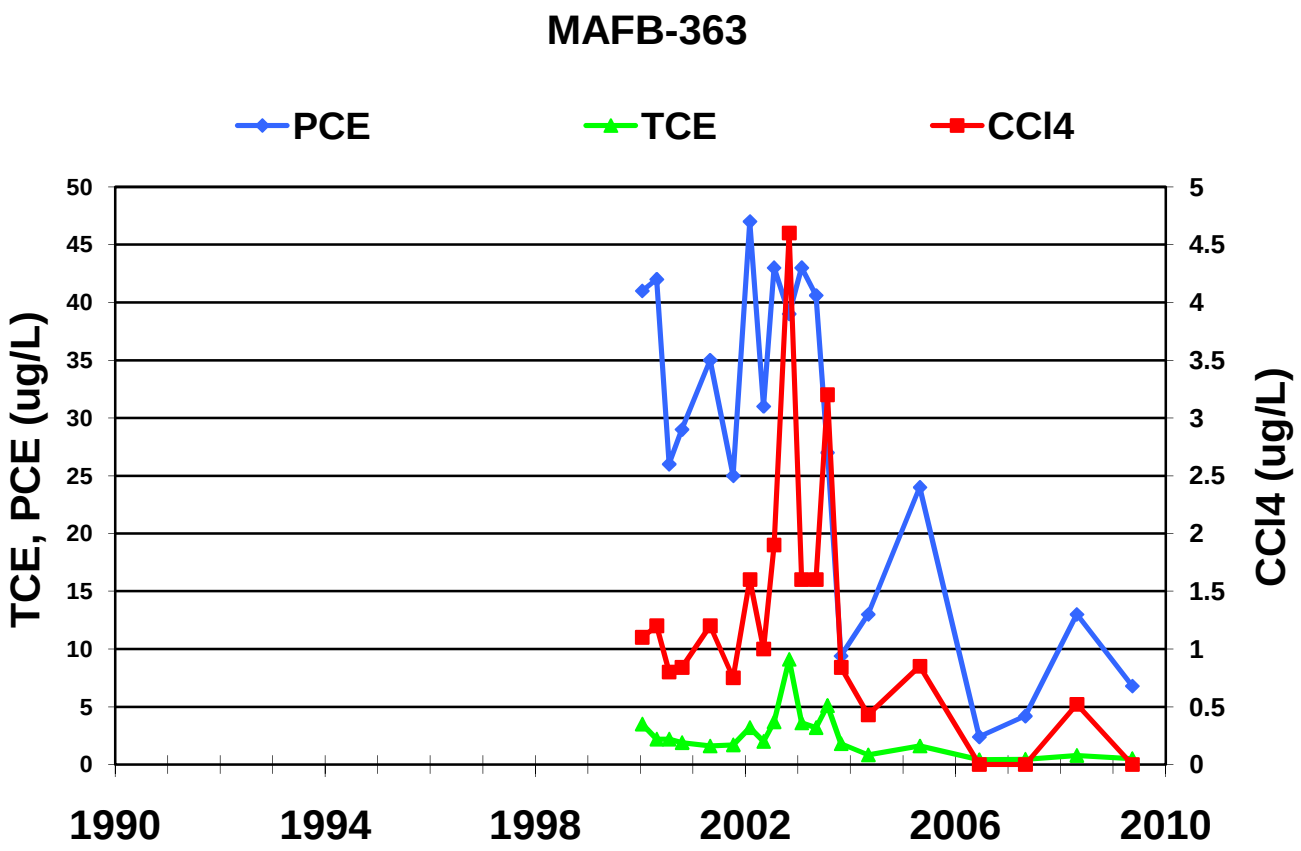

MAFB-358D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

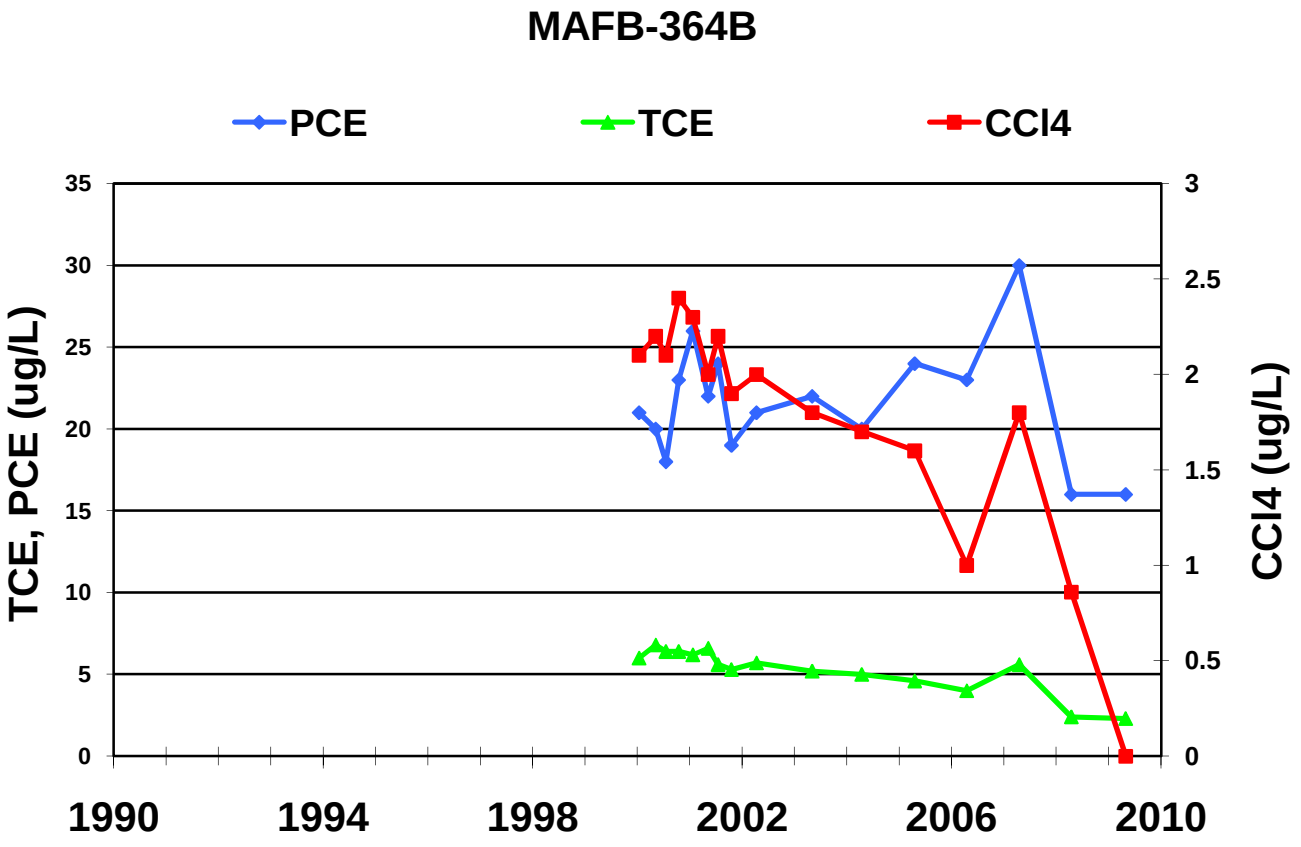

MAFB-359
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

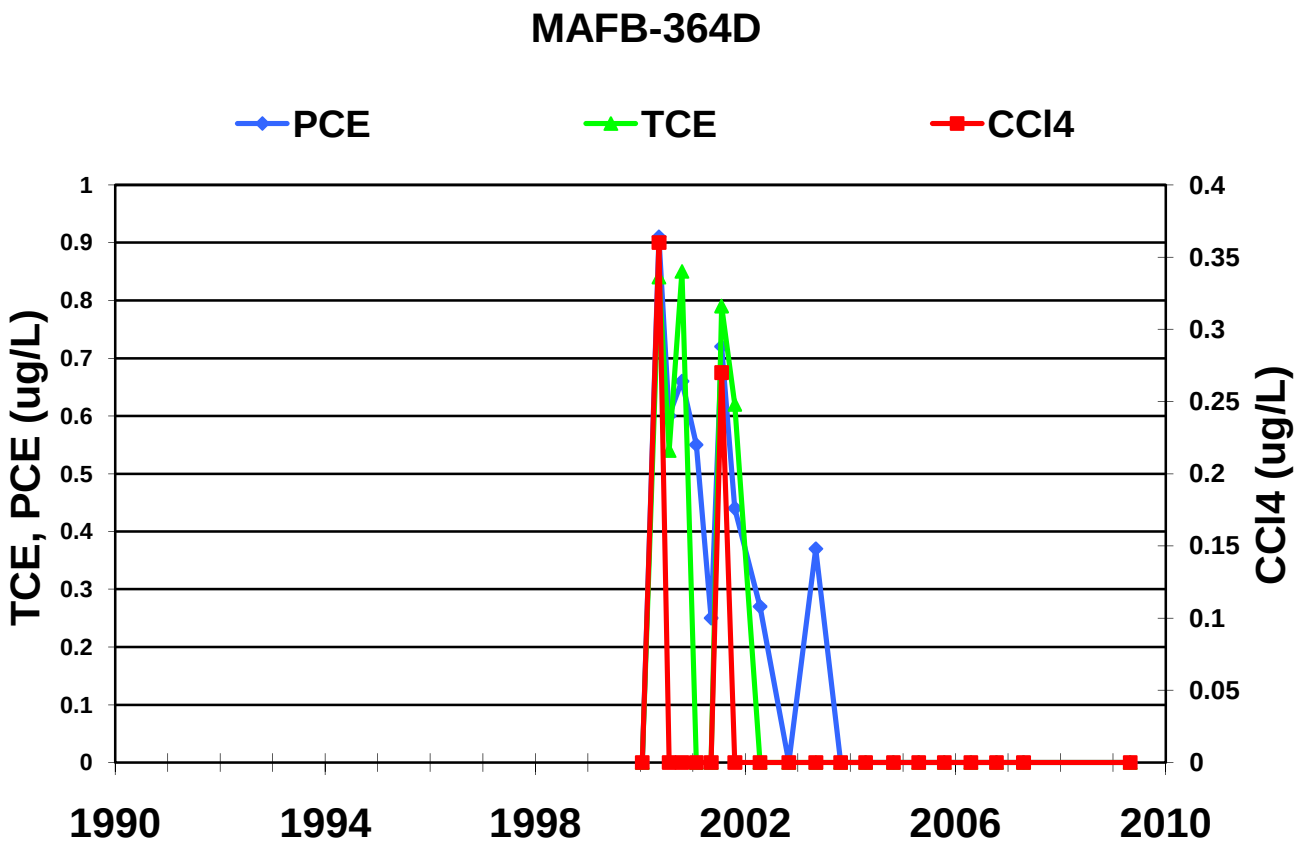

MAFB-360
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

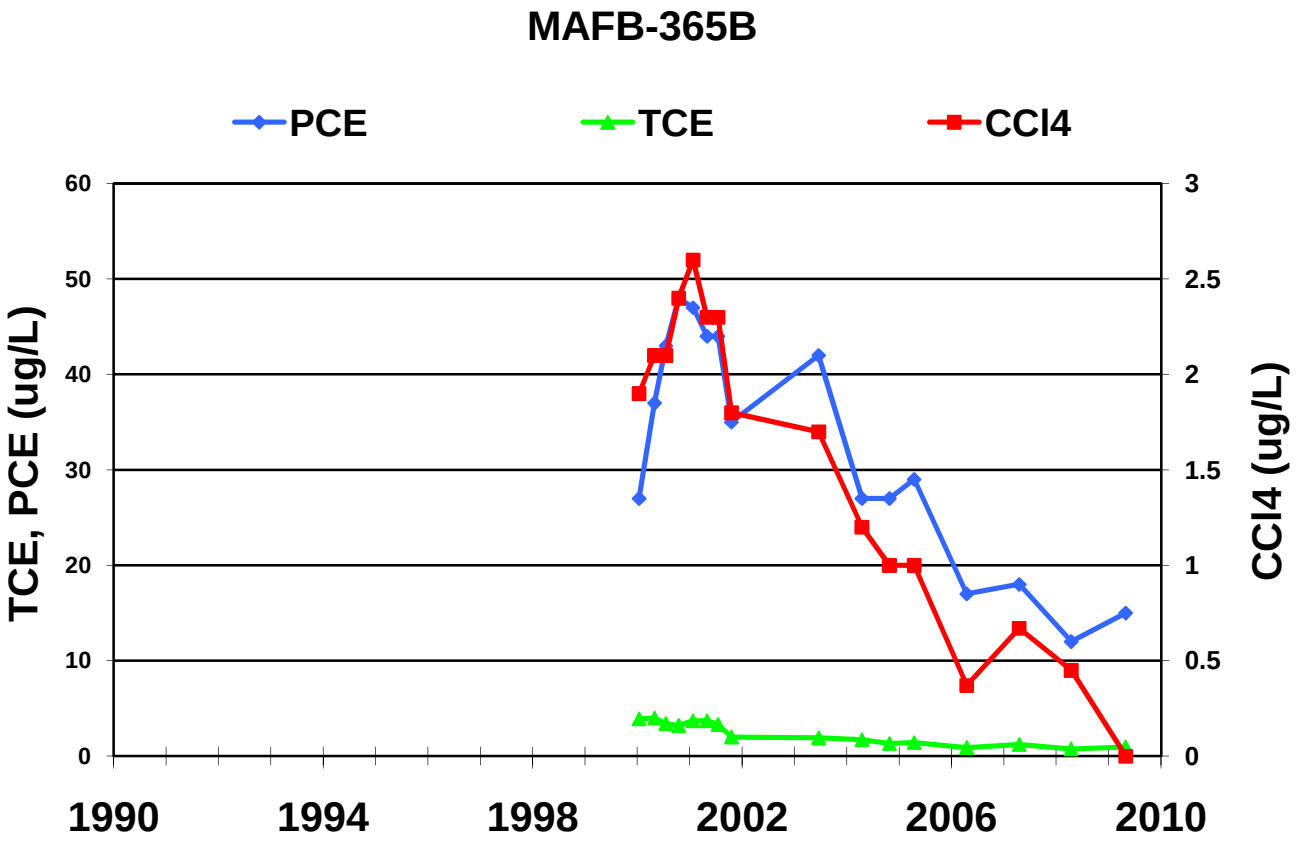

MAFB-361
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.2
0.4
0.6
0.8
1
1.2
1990
1994
1998
2002
2006
2010

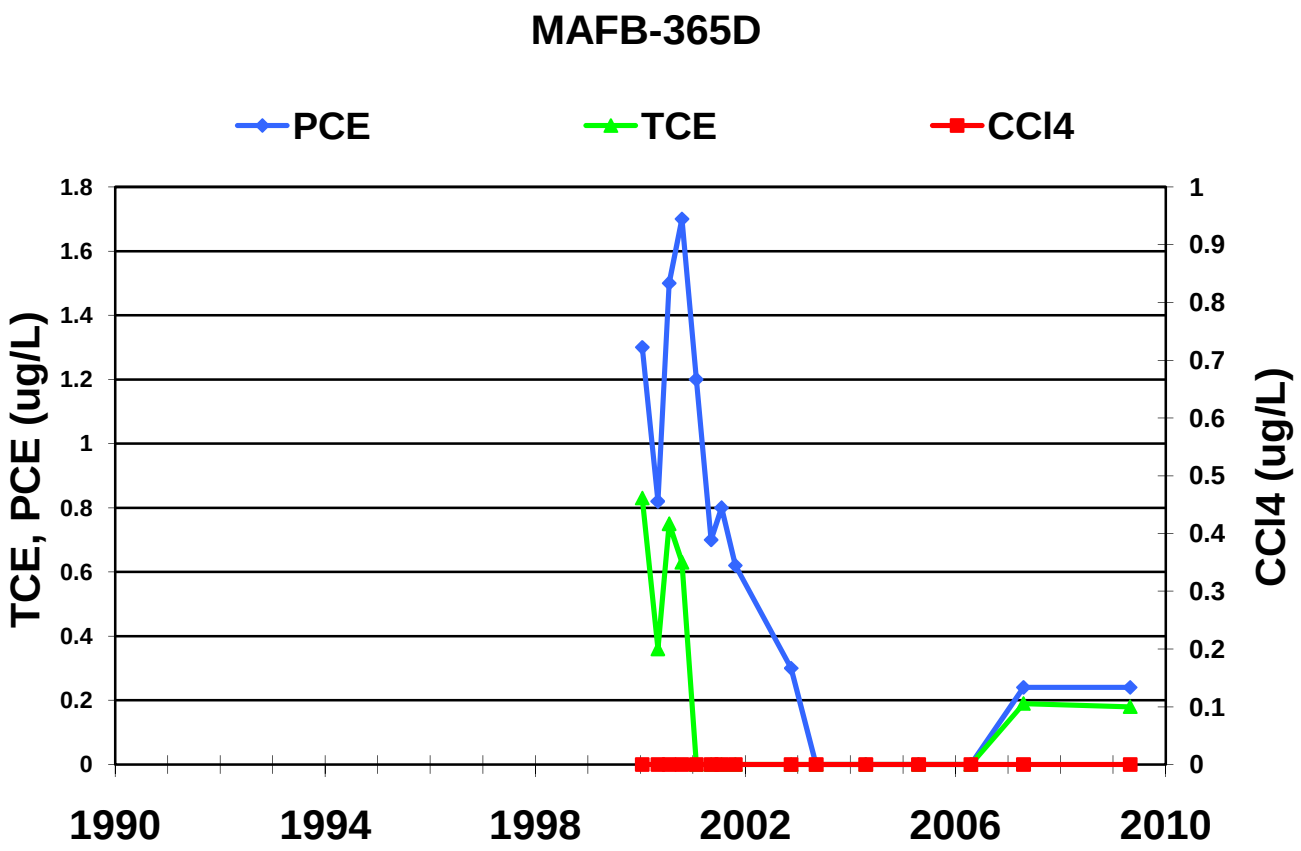

MAFB-362
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
45
50
0
1
2
3
4
5
6
1990
1994
1998
2002
2006
2010

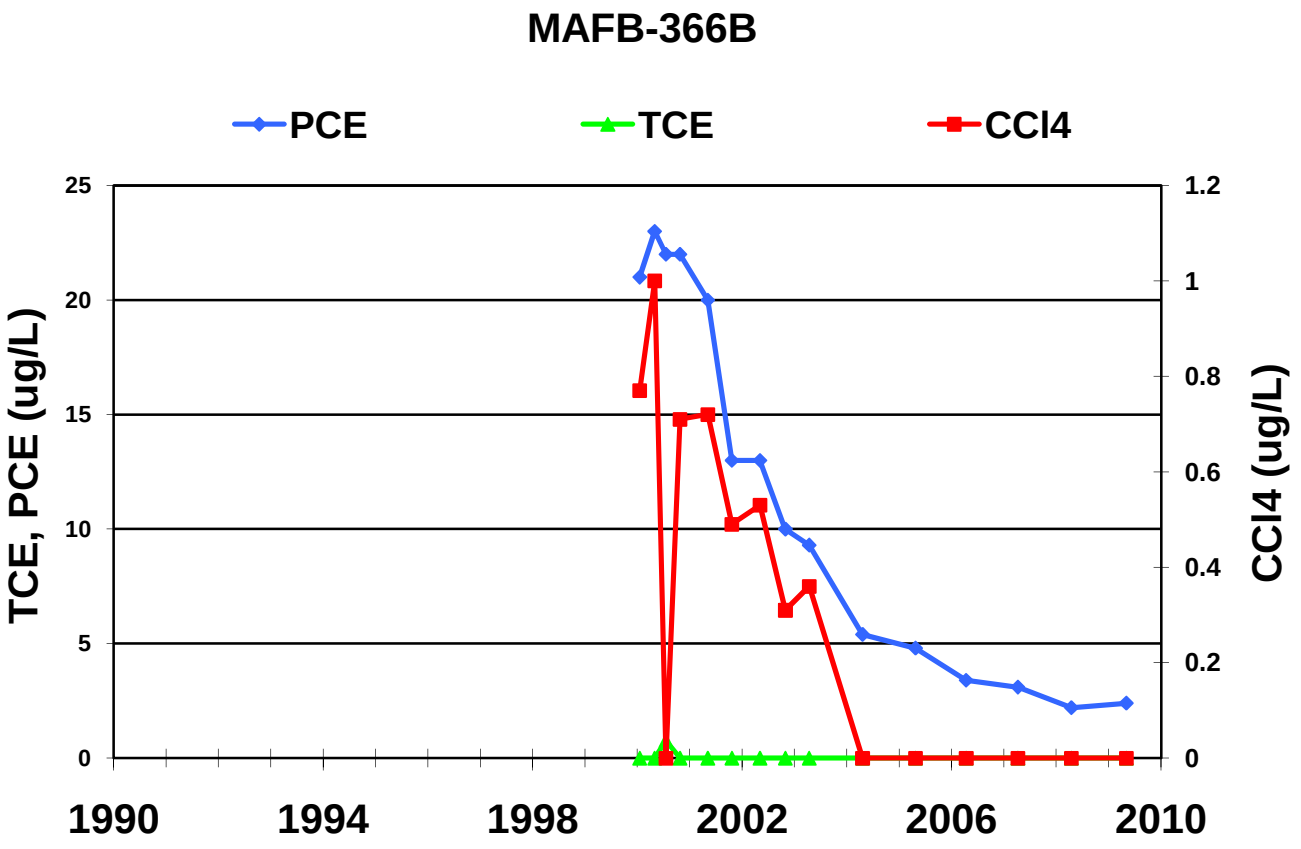

MAFB-363
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
50
45
40
35
30
25
20
15
10
5
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

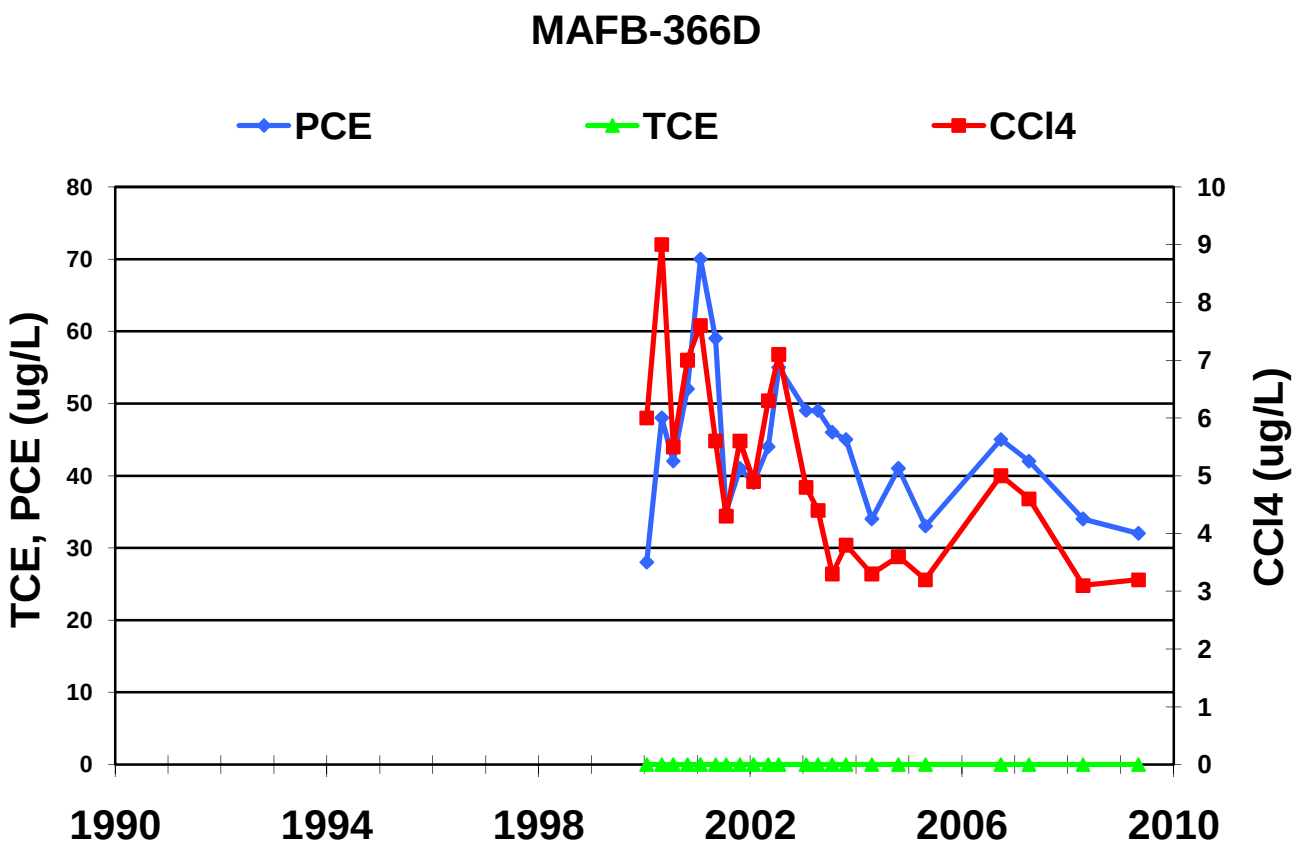

MAFB-364B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

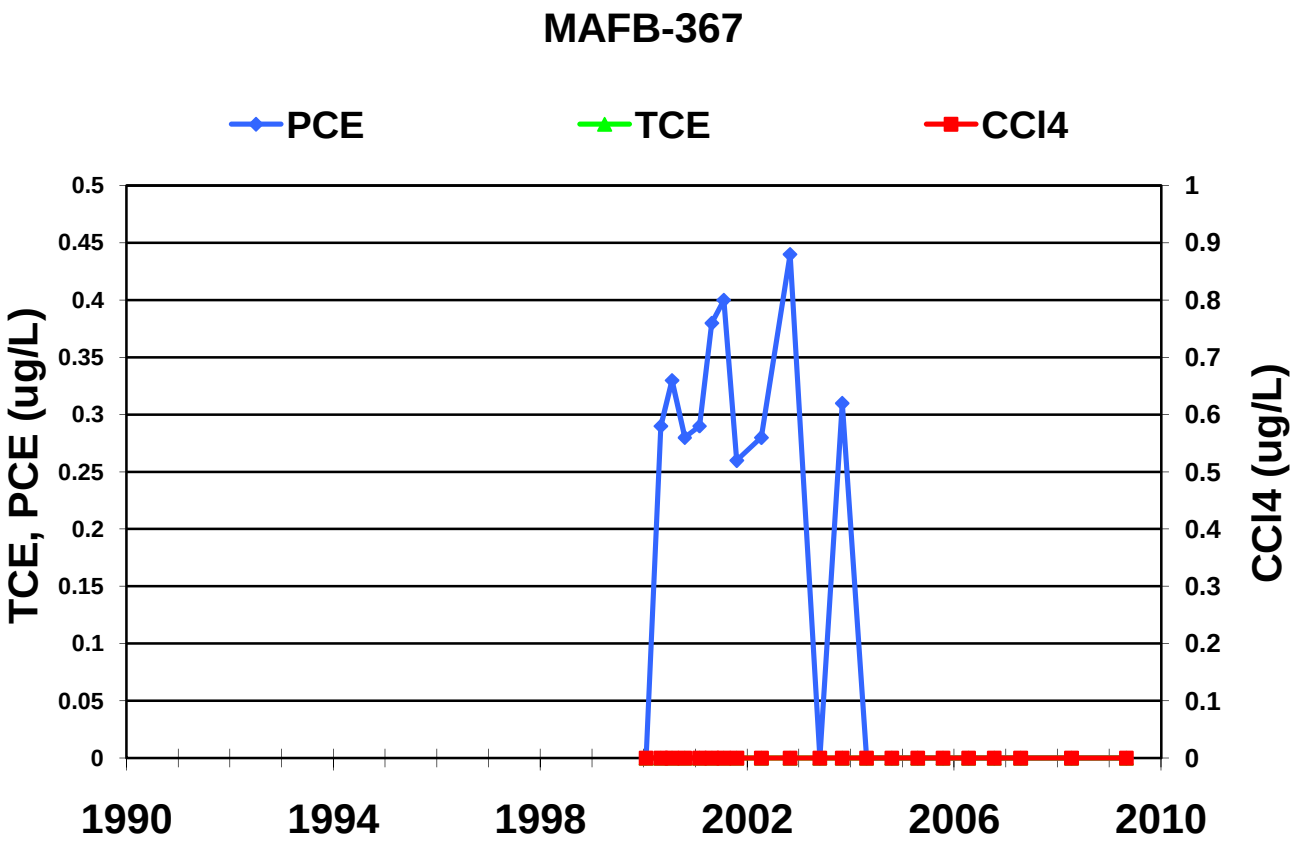

MAFB-364D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

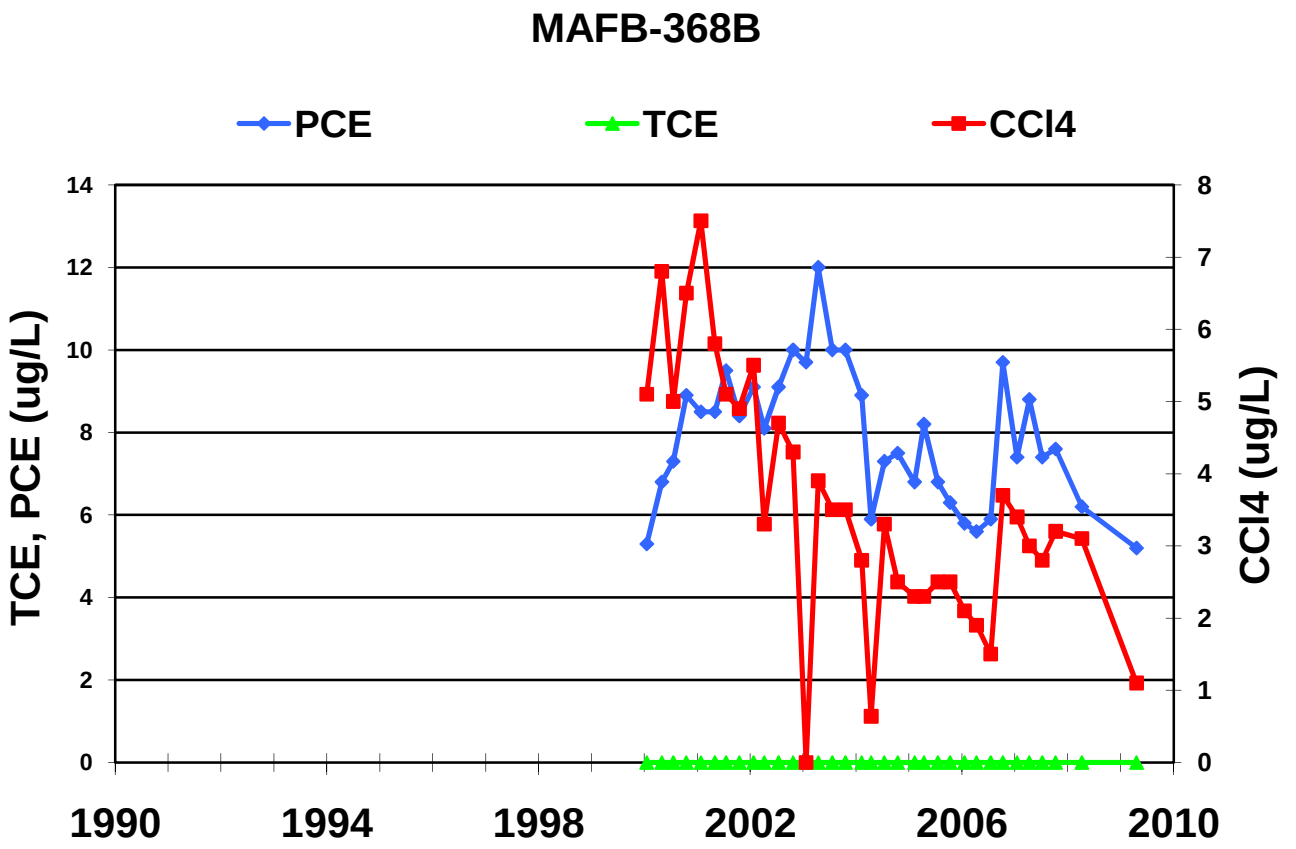

MAFB-365B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

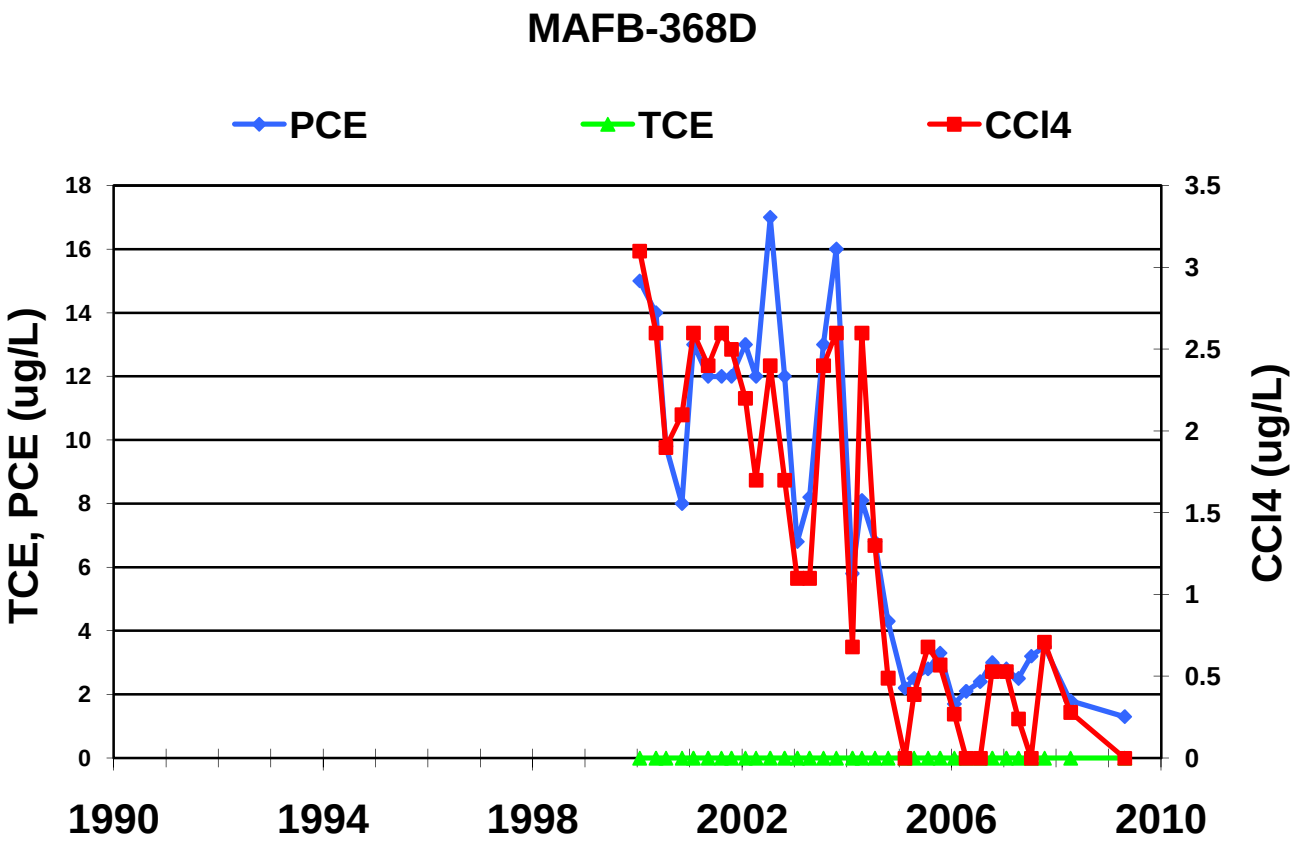

MAFB-365D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

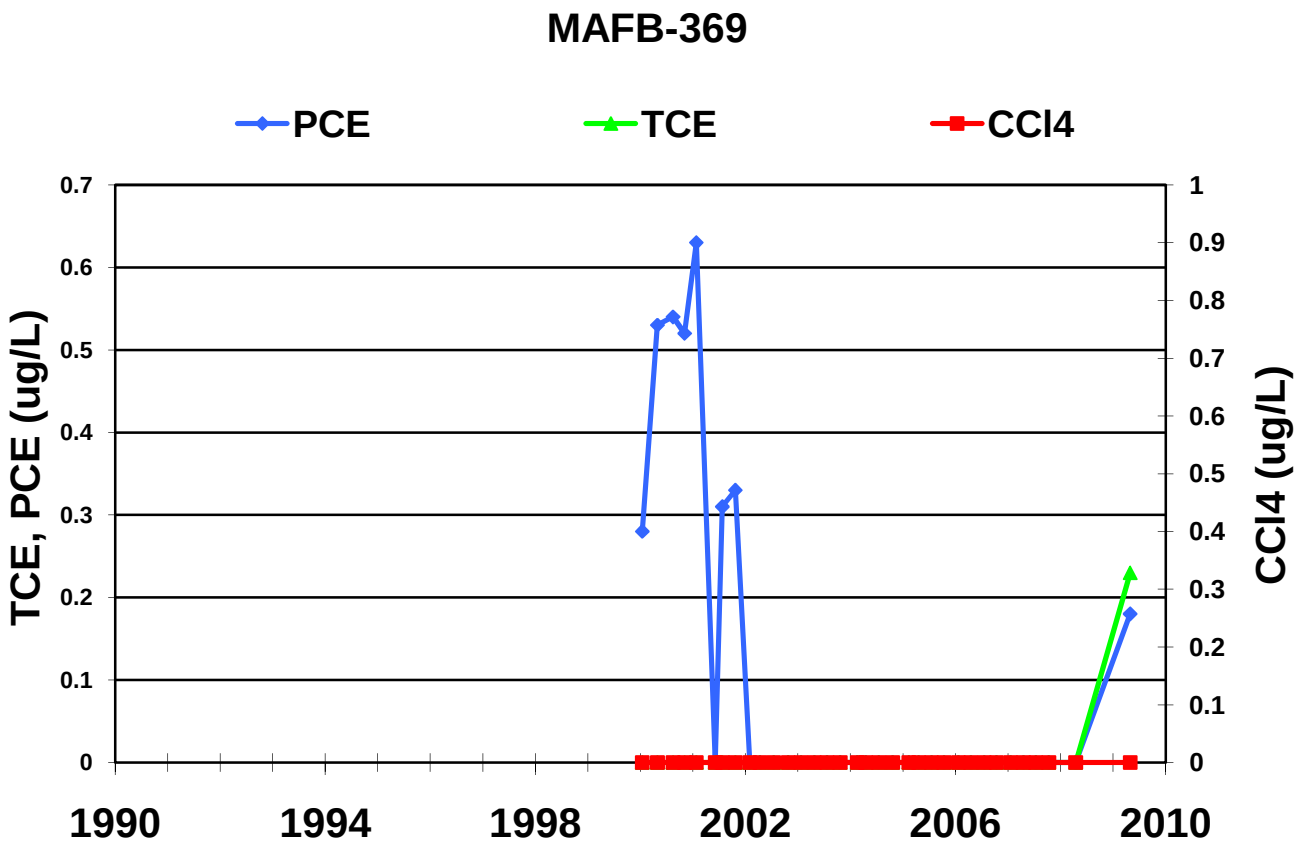

MAFB-366B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

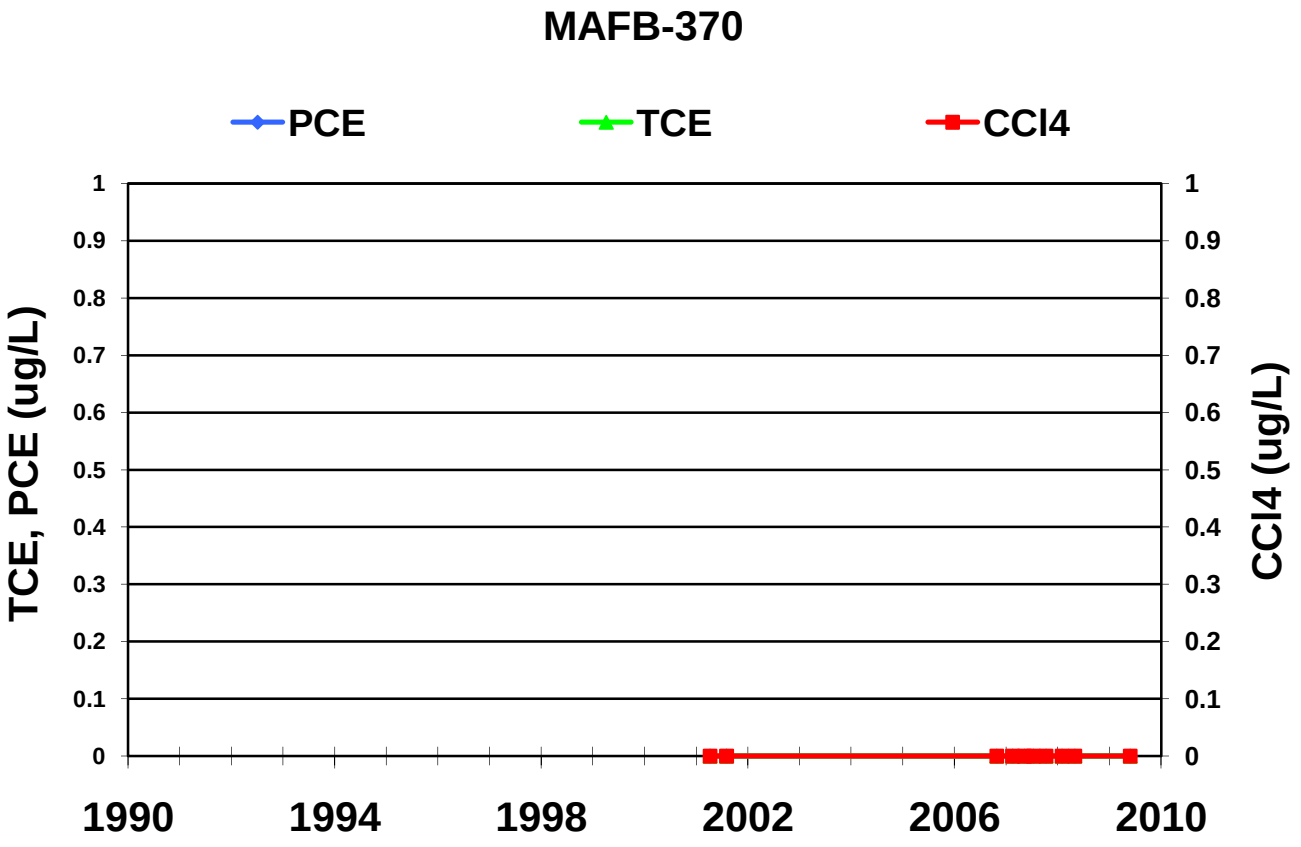

MAFB-366D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
10
9
8
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

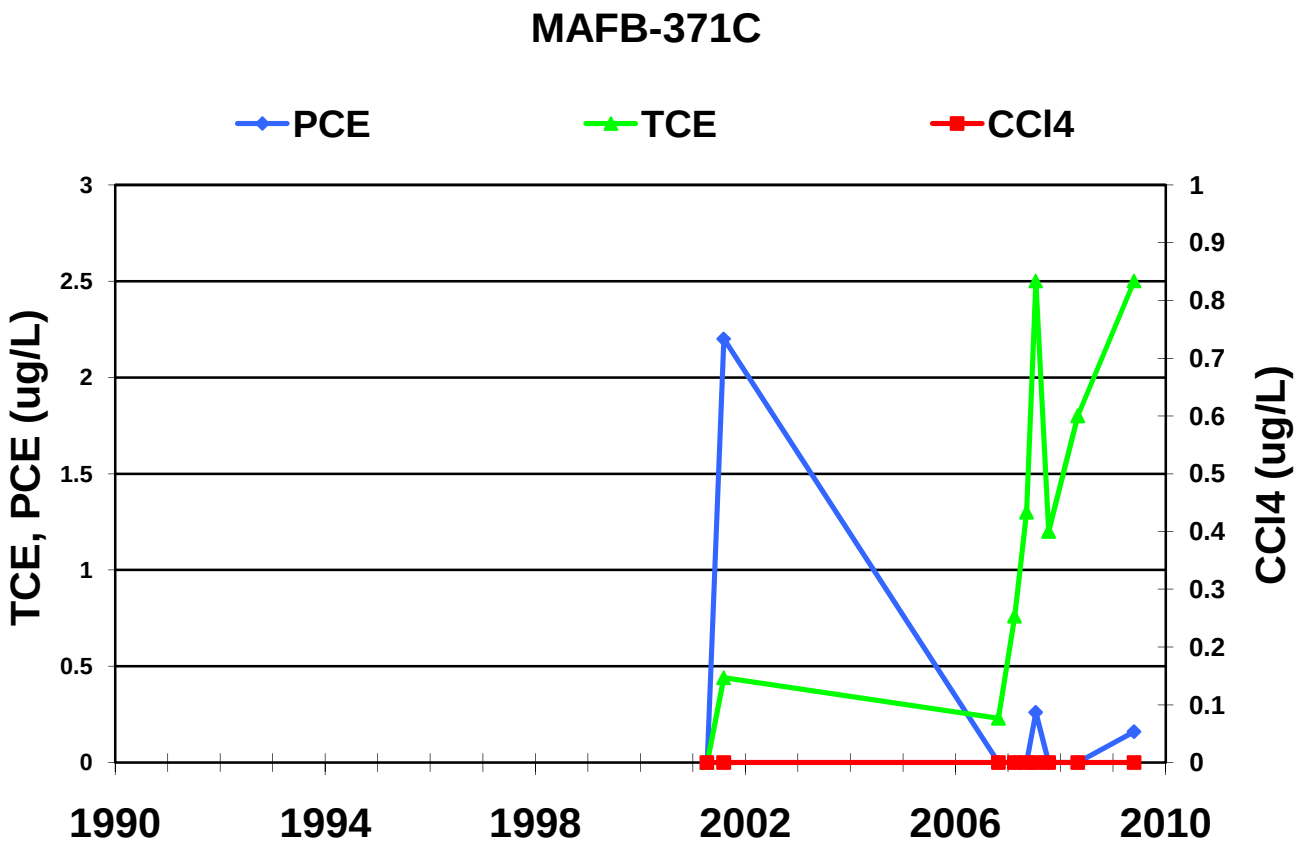

MAFB-367
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

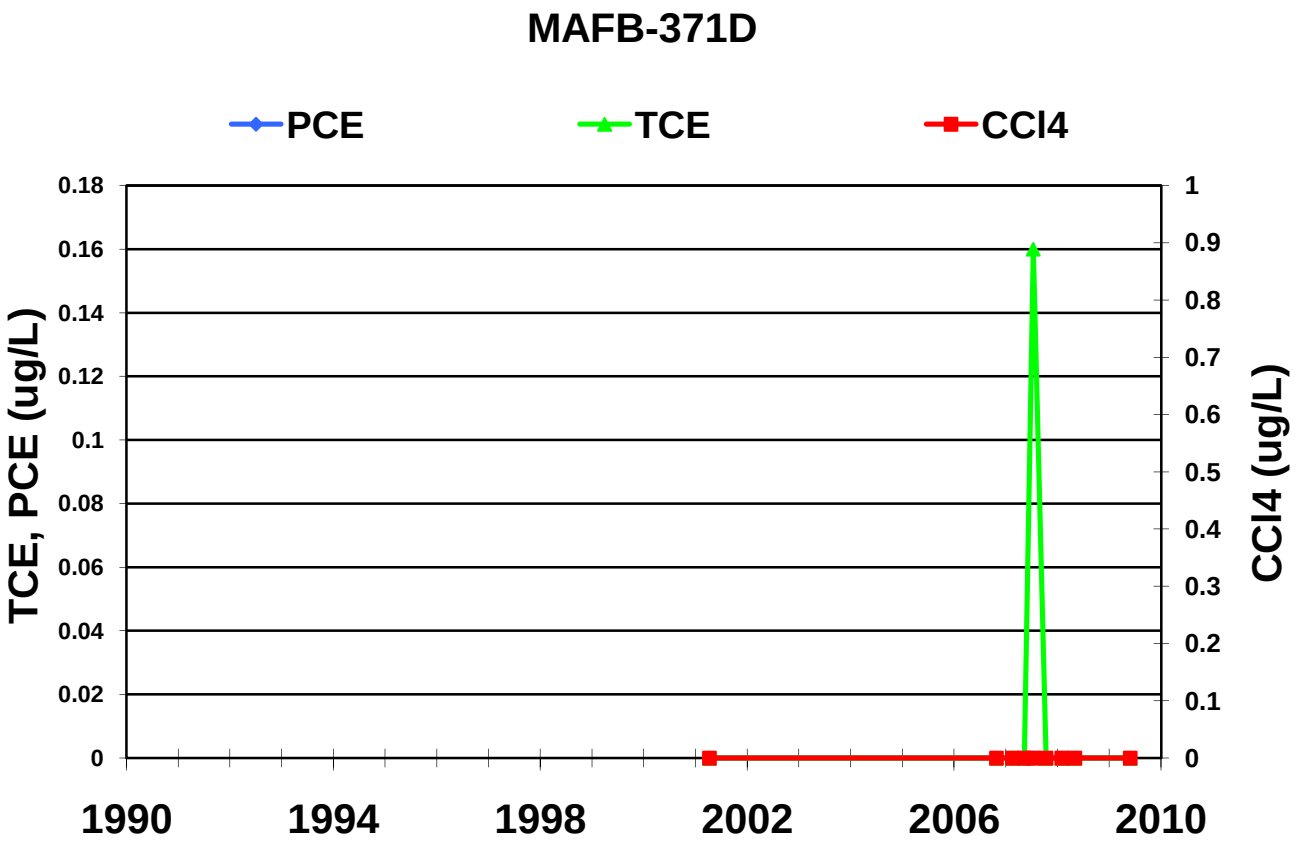

MAFB-368B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
1
2
3
4
5
6
7
8
1990
1994
1998
2002
2006
2010

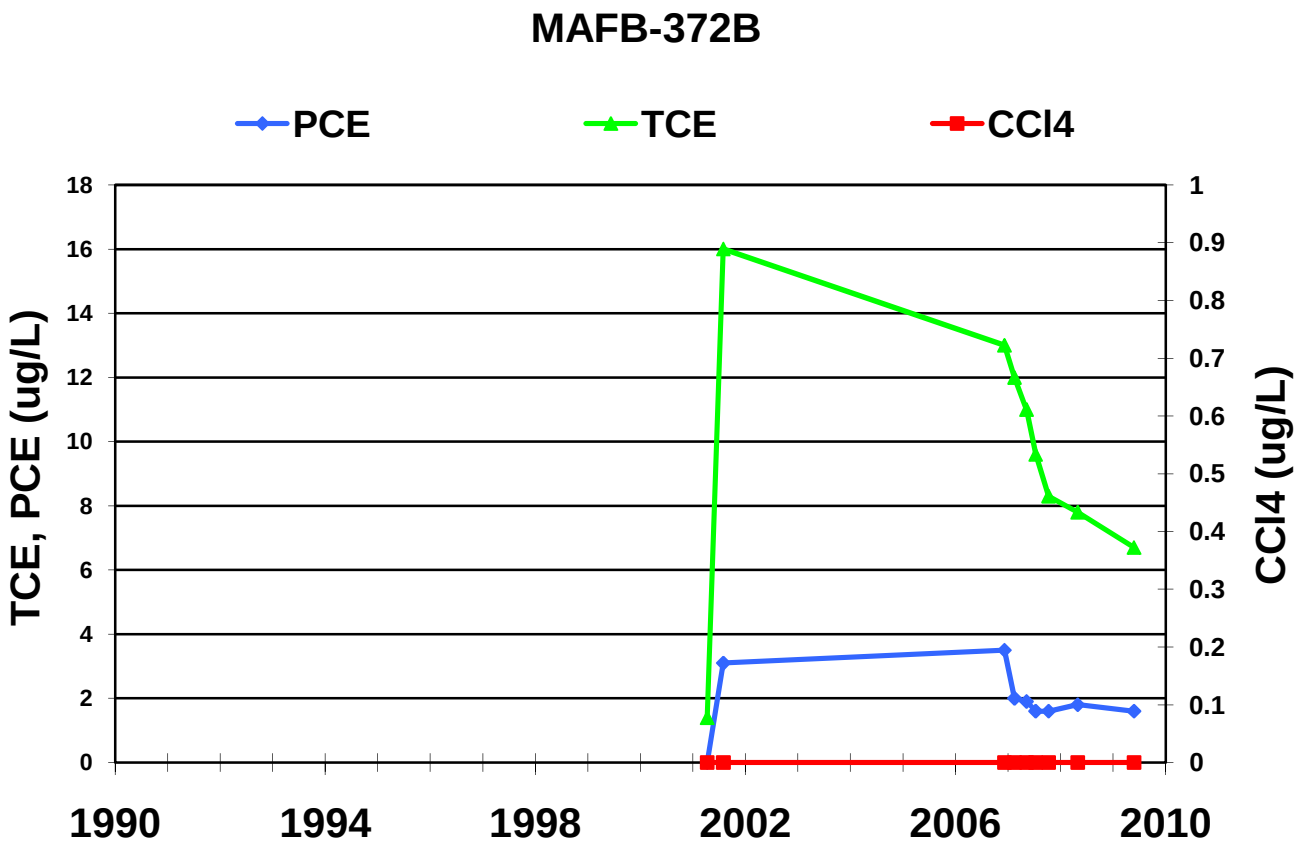

MAFB-368D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
18
0
0.5
1
1.5
2
2.5
3
3.5
1990
1994
1998
2002
2006
2010

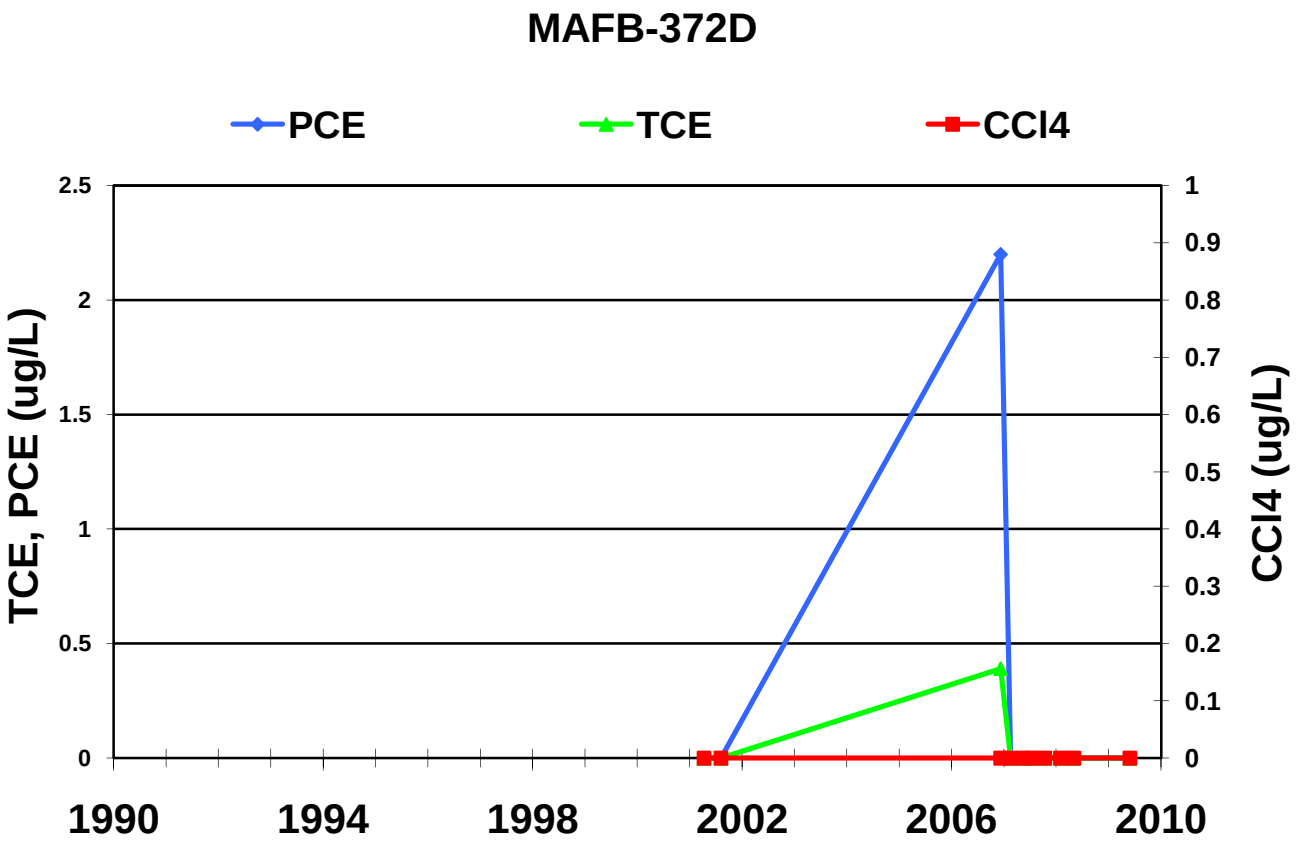

MAFB-369
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

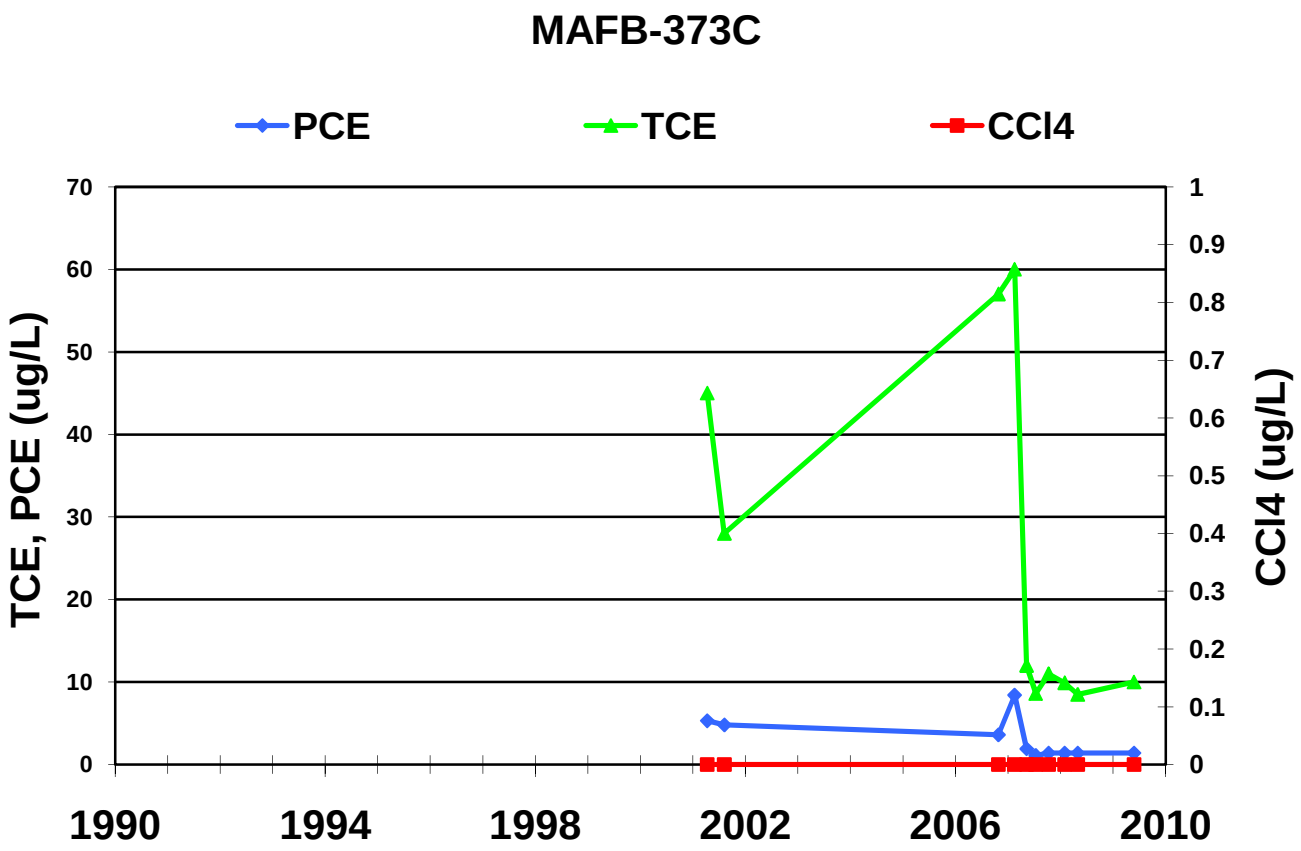

MAFB-370
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

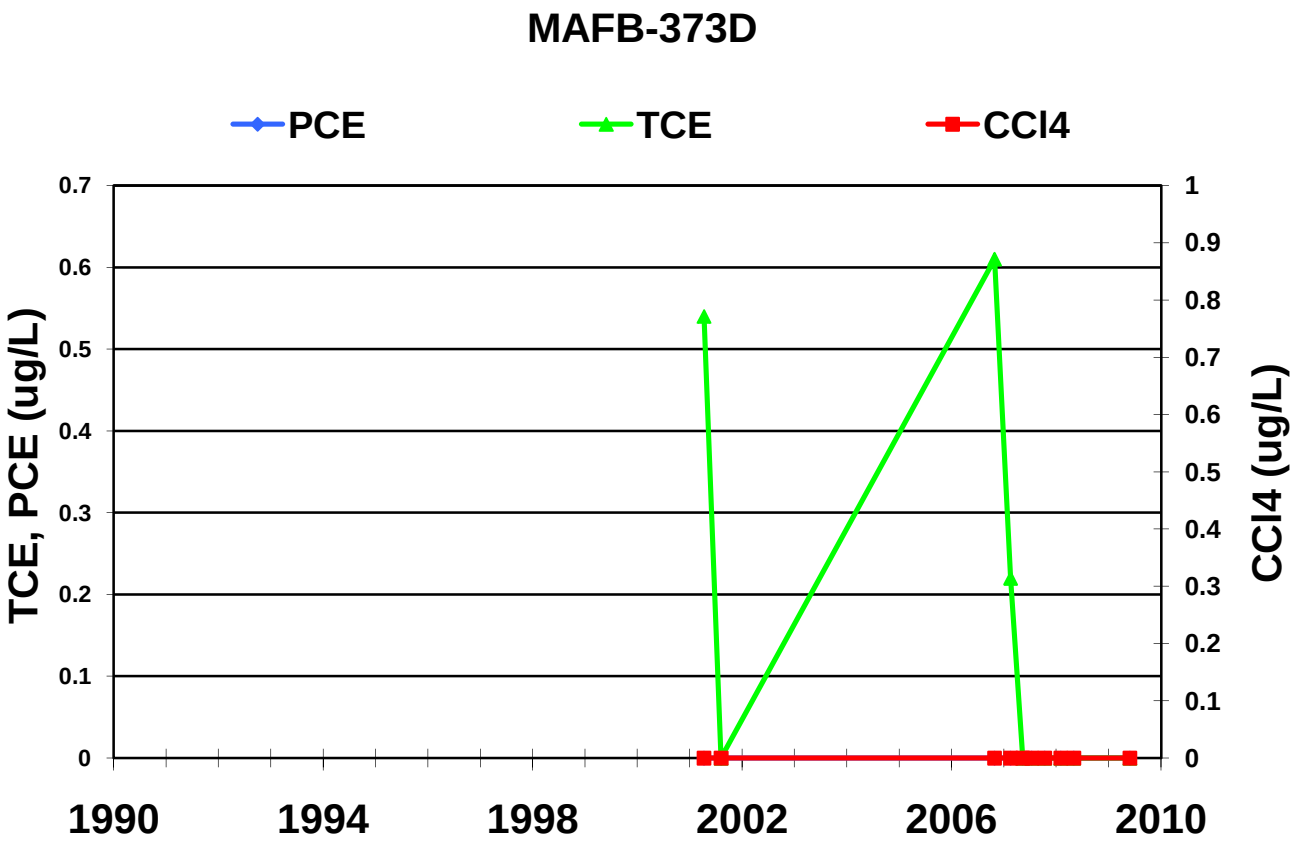

MAFB-371C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

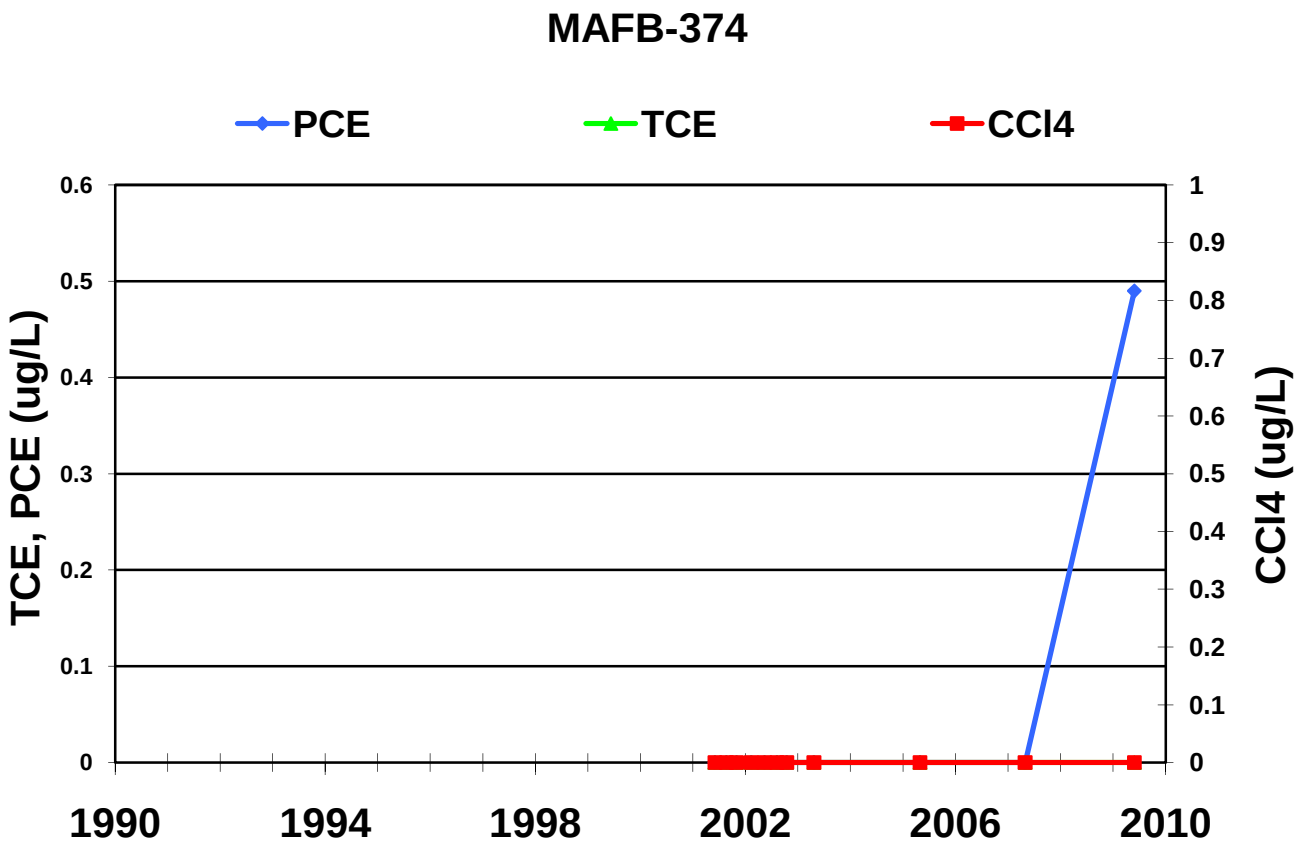

MAFB-371D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

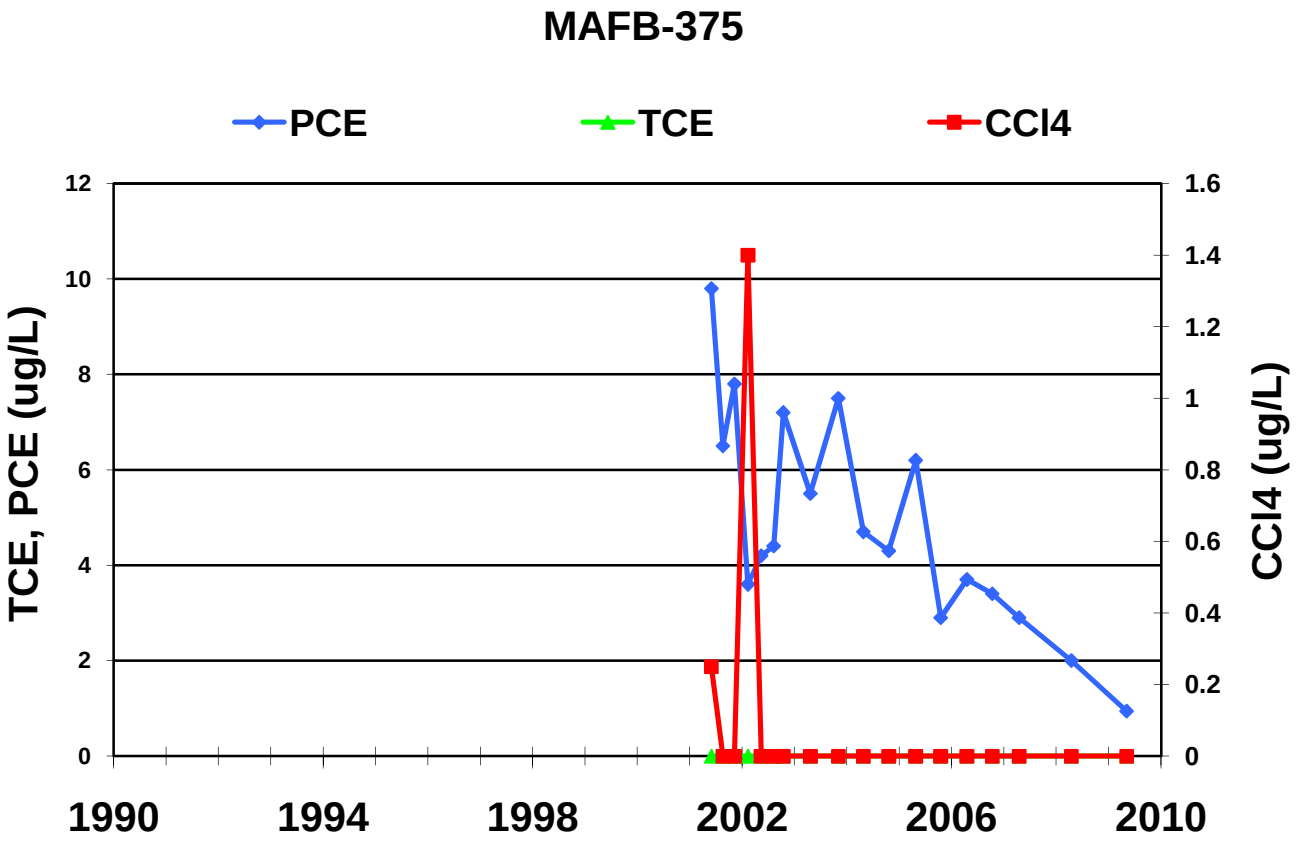

MAFB-372B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

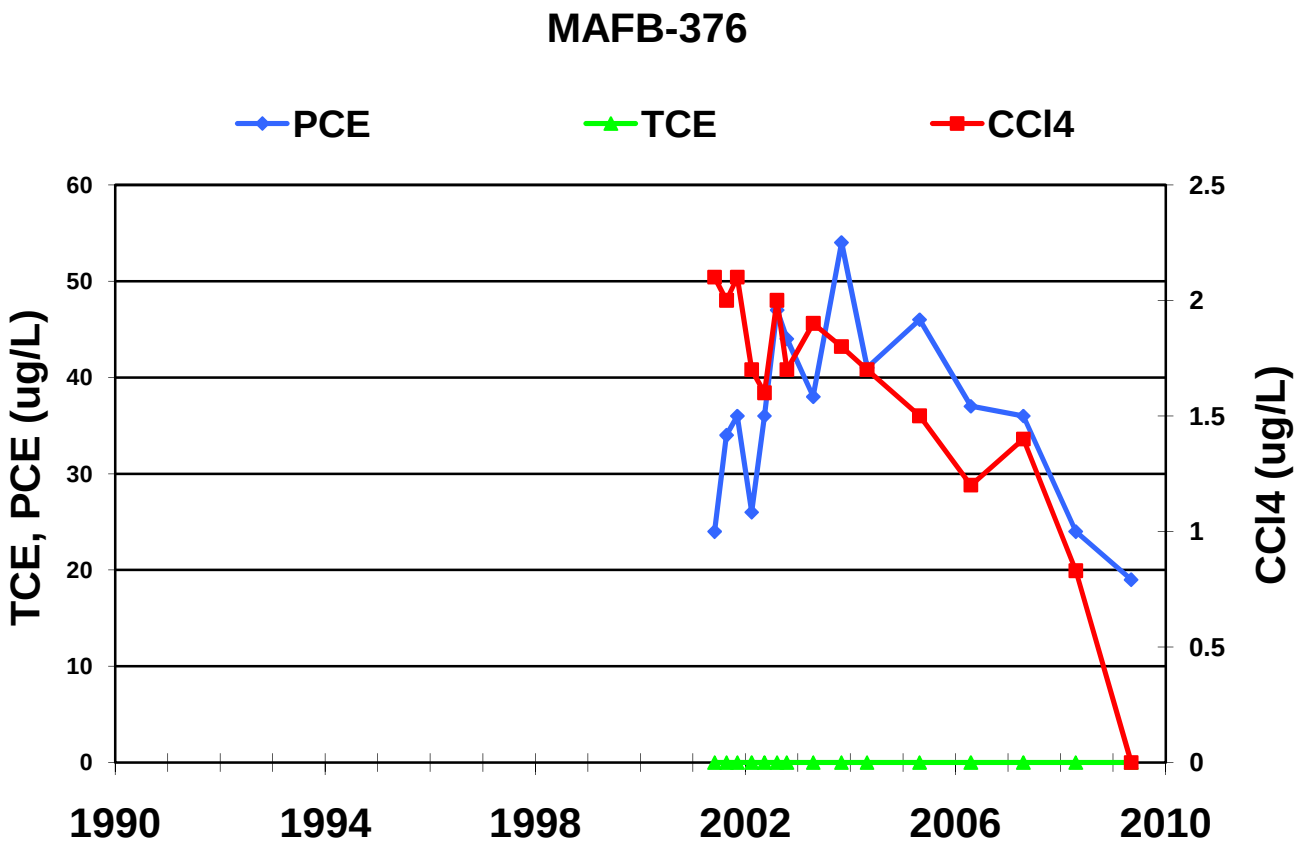

MAFB-372D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

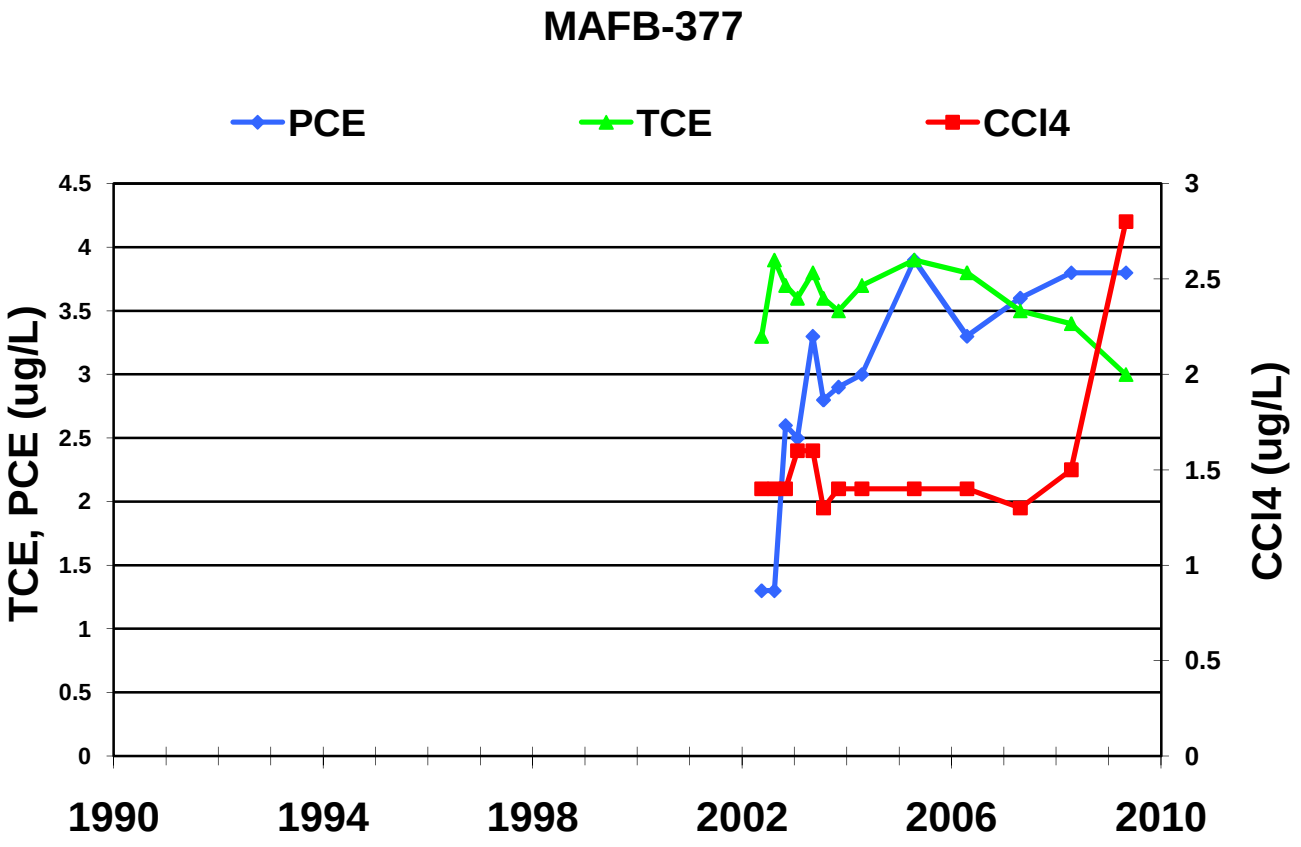

MAFB-373C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

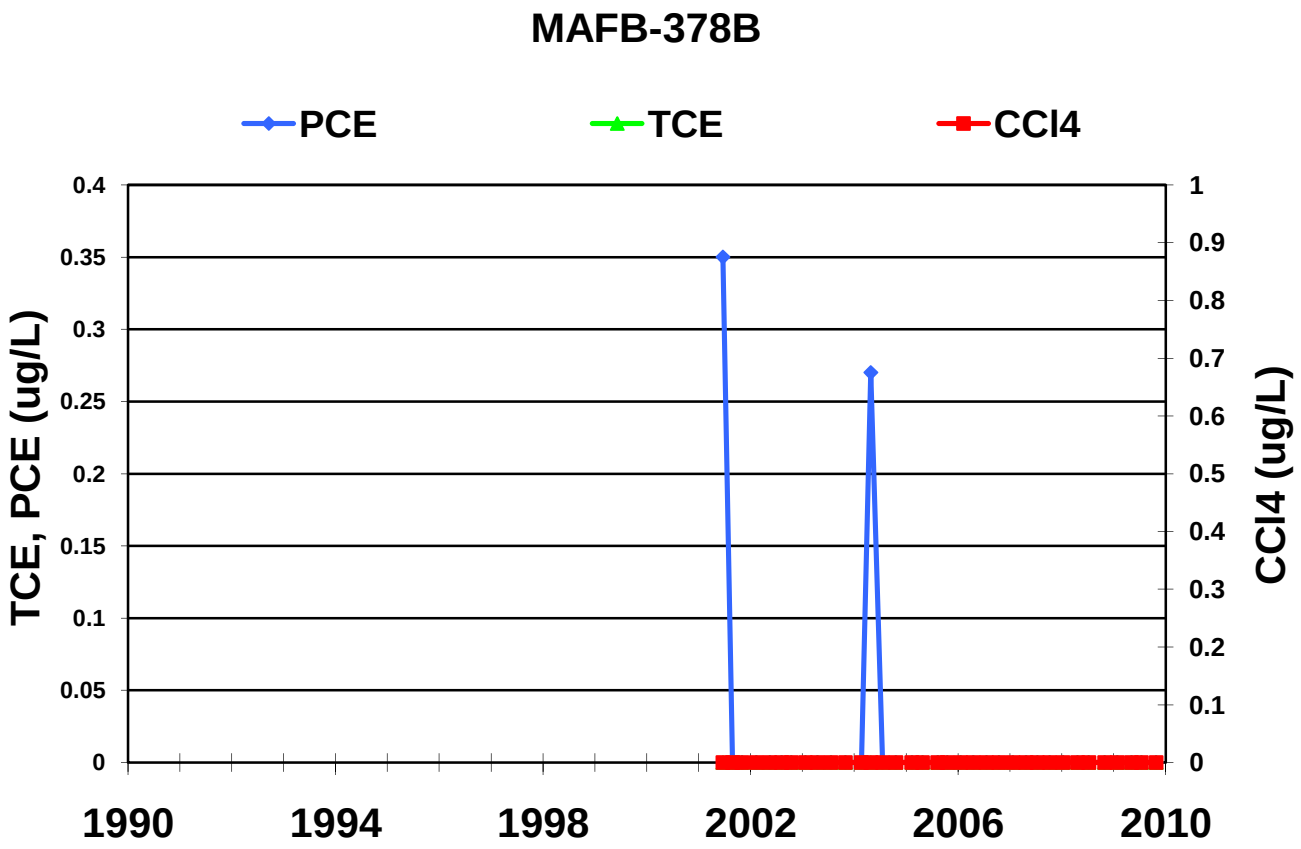

MAFB-373D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

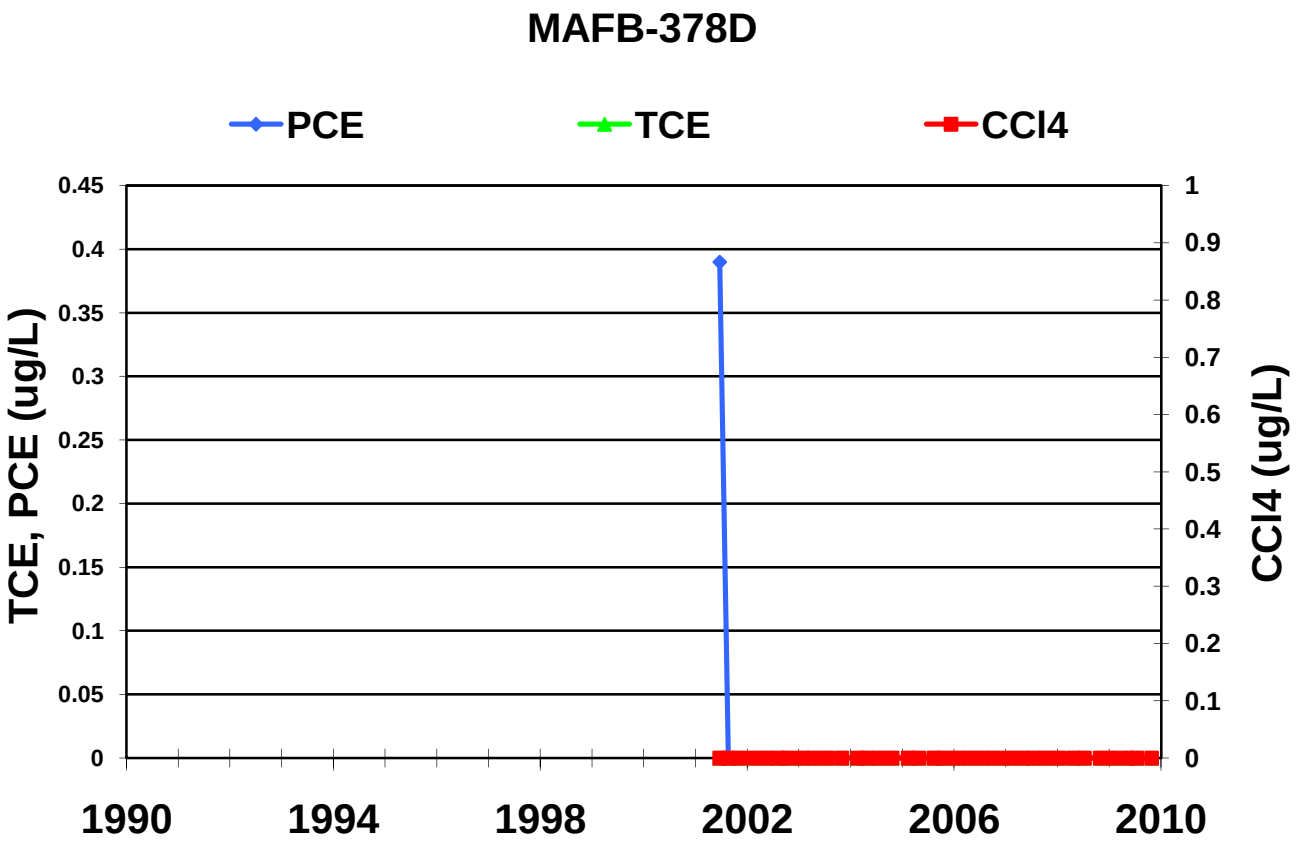

MAFB-374
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

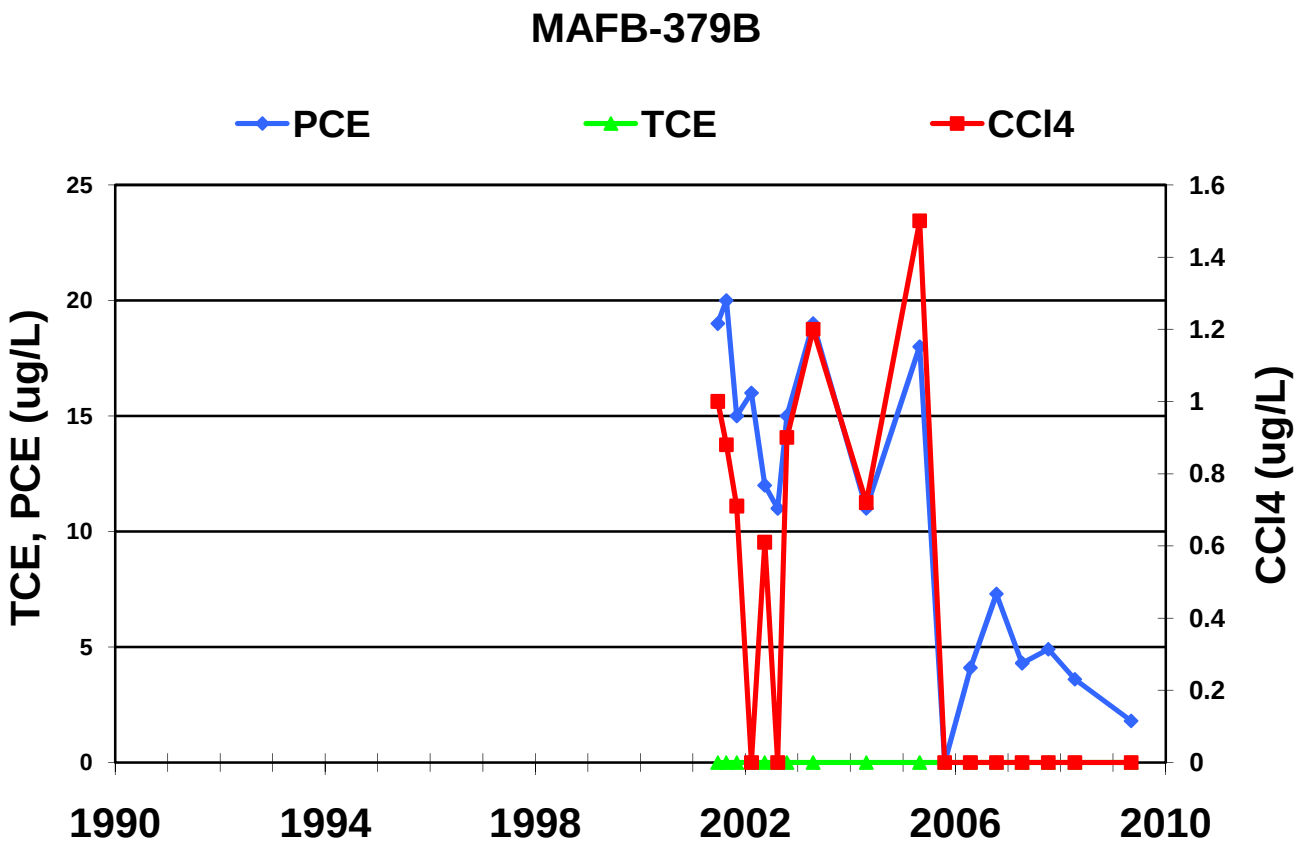

MAFB-375
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
12
10
8
6
4
2
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

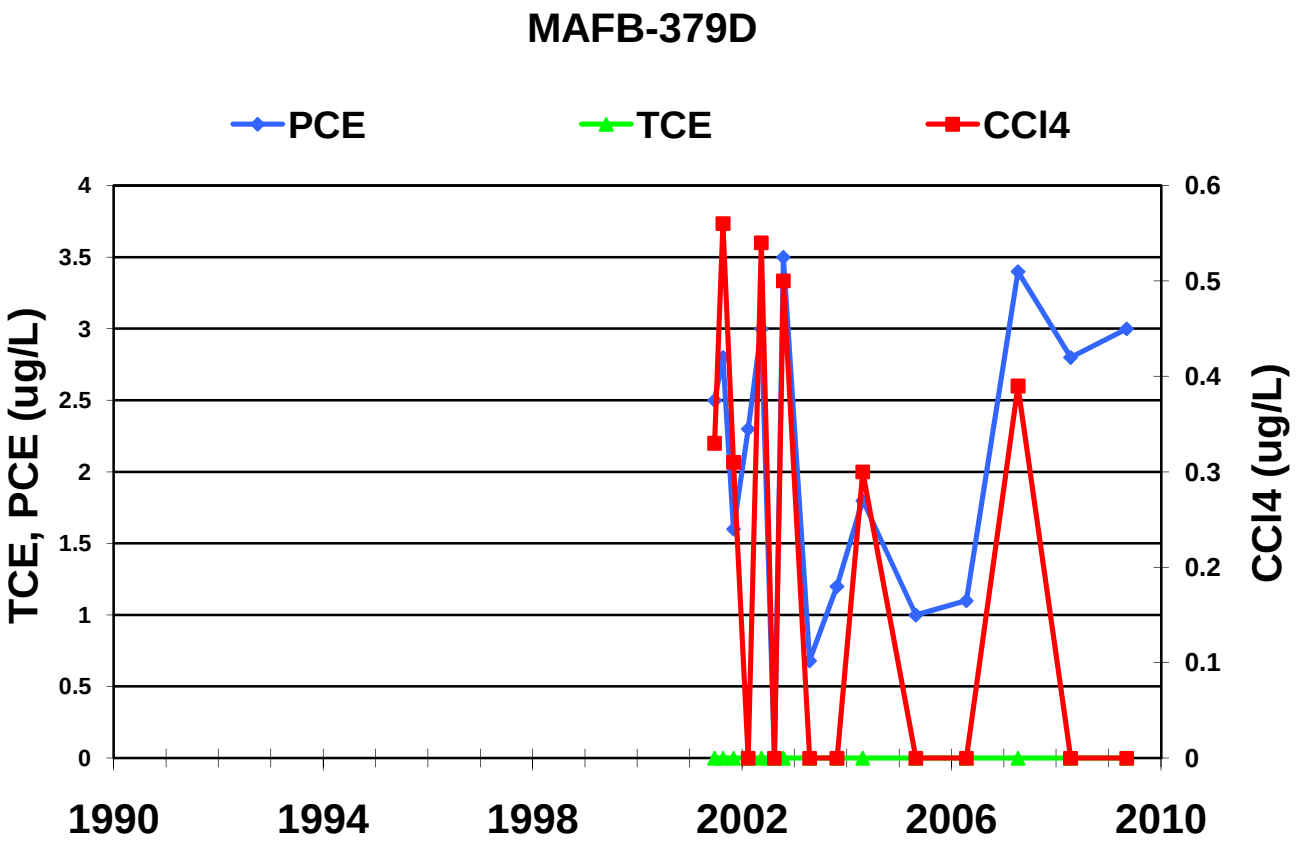

MAFB-376
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

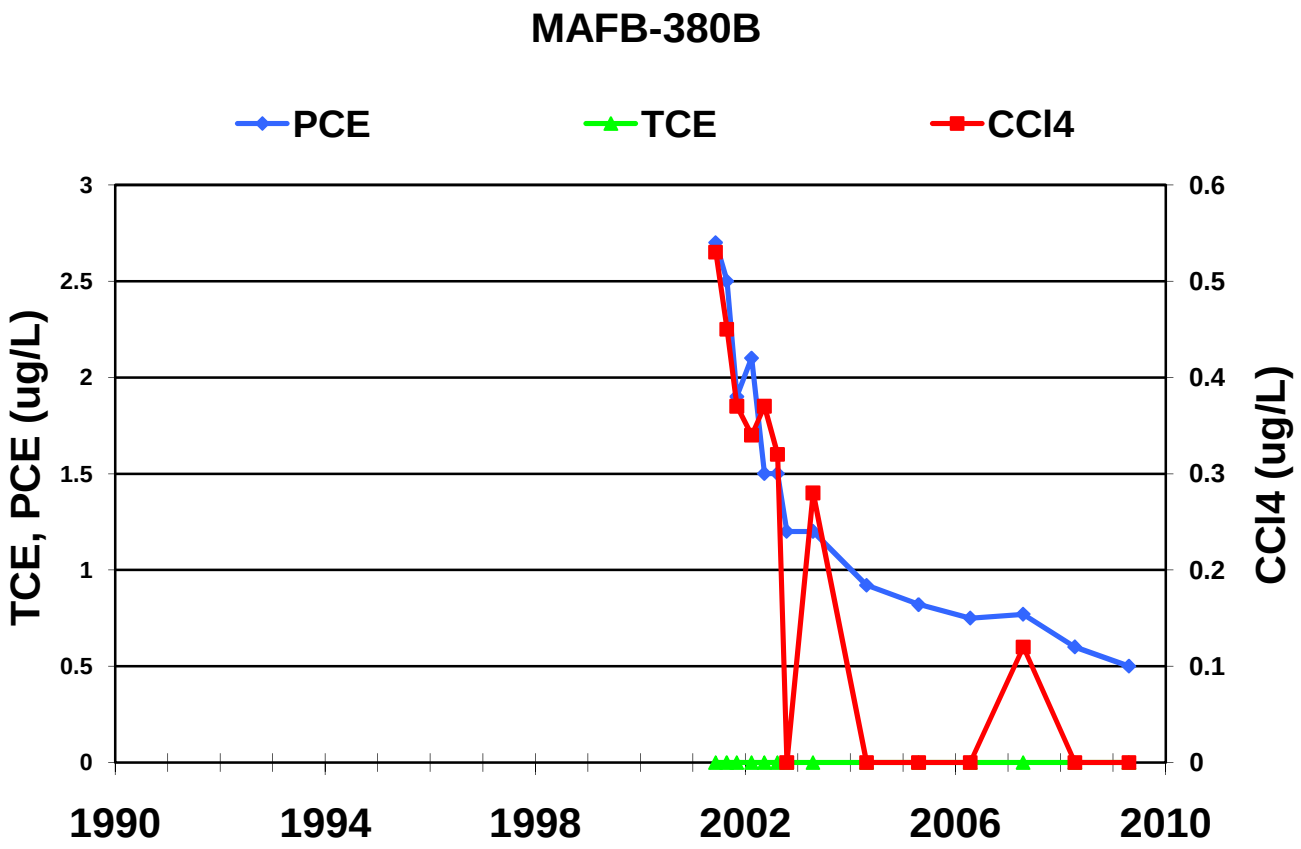

MAFB-377
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

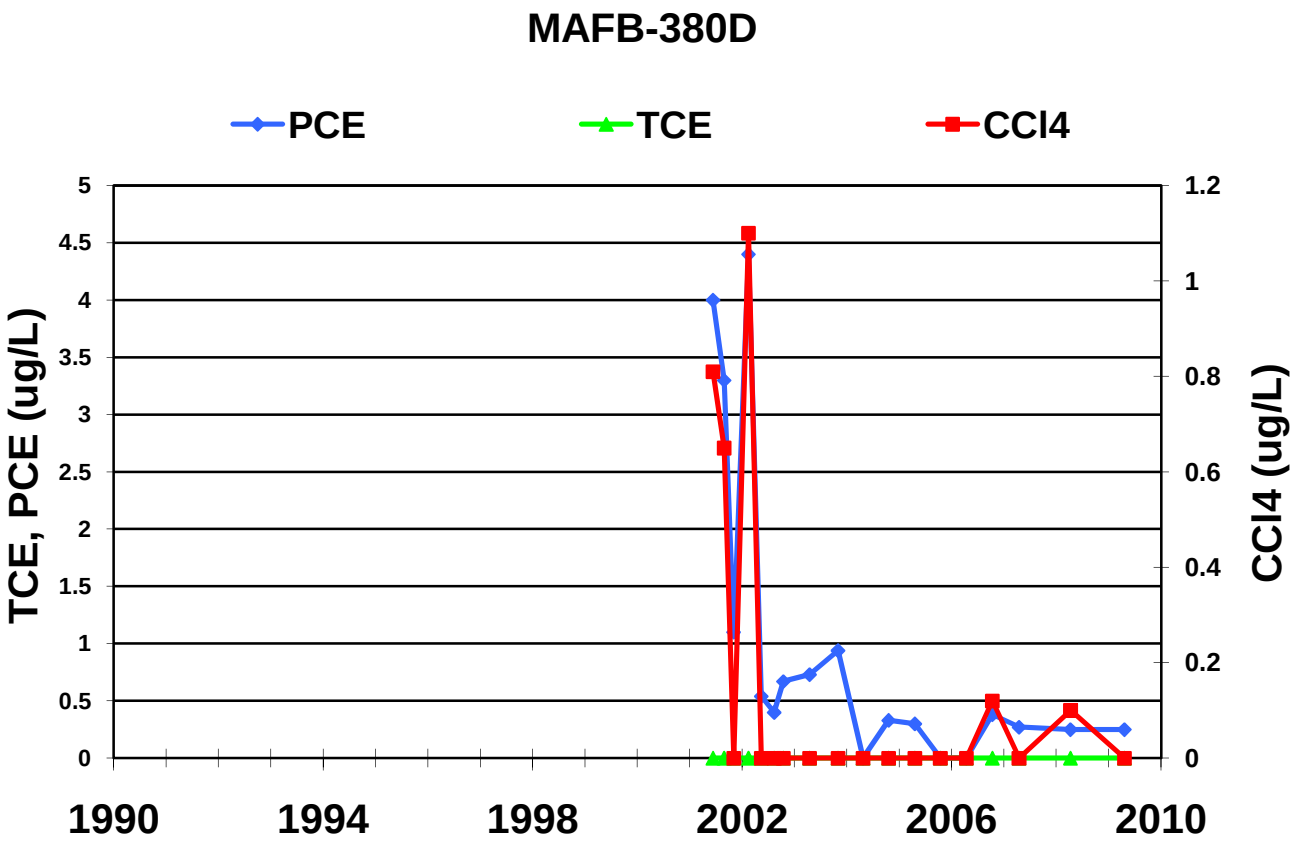

MAFB-378B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

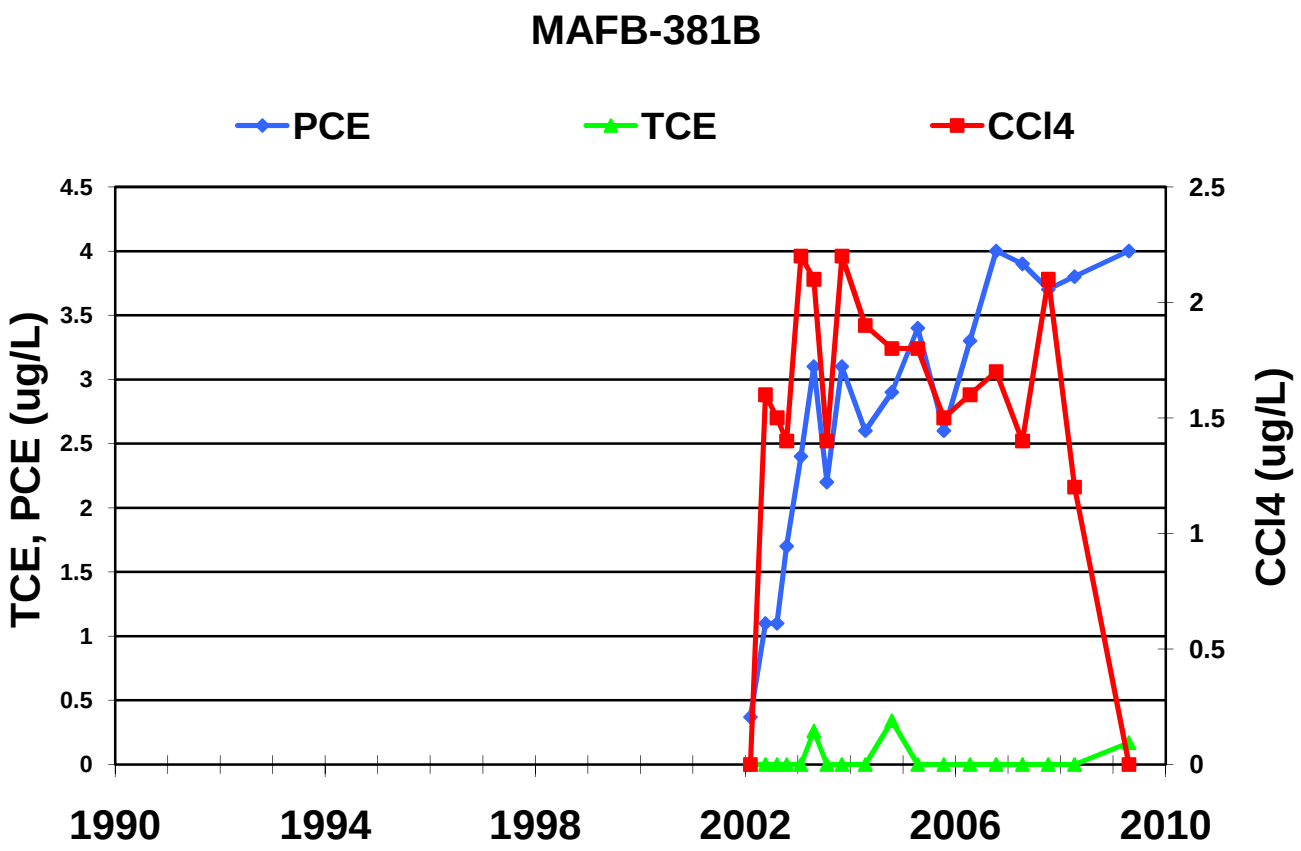

MAFB-378D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

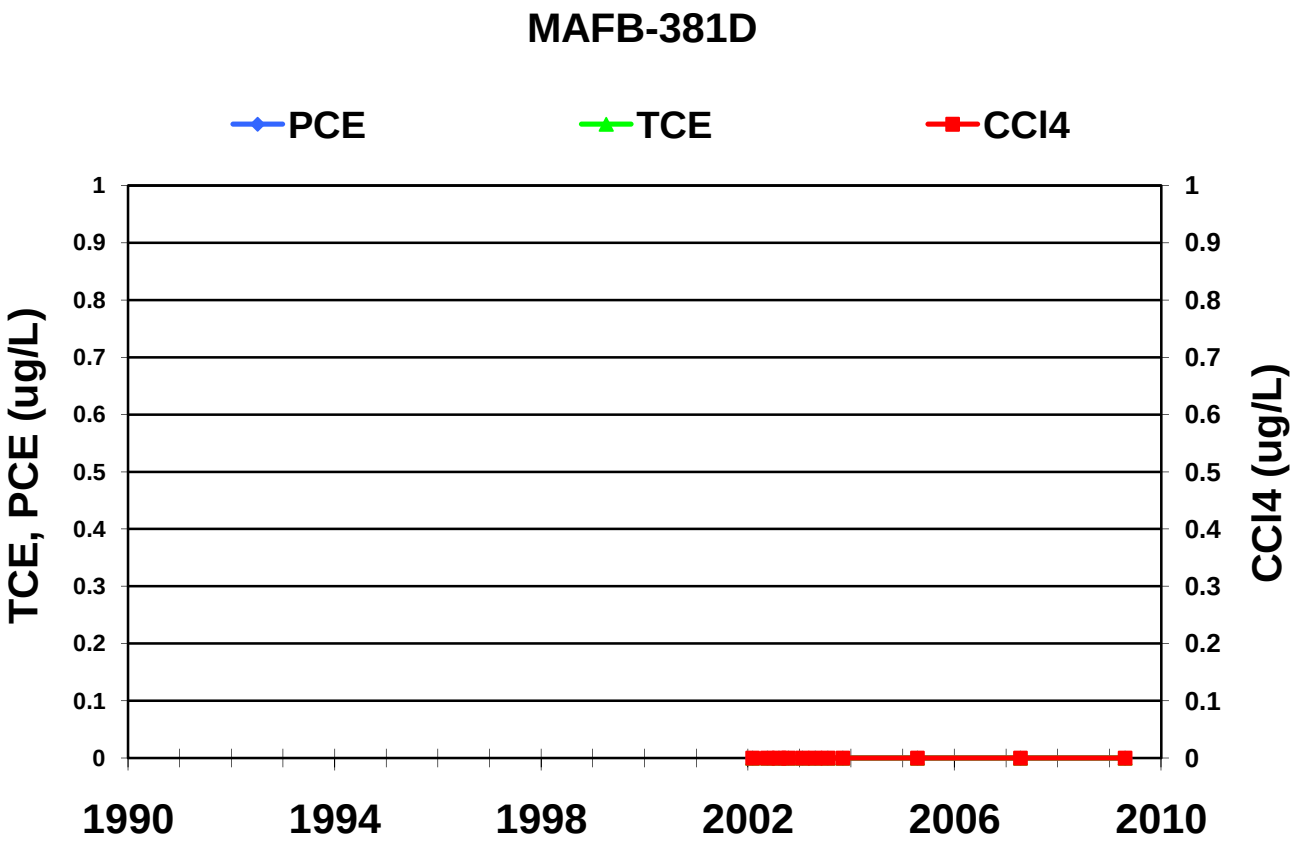

MAFB-379B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

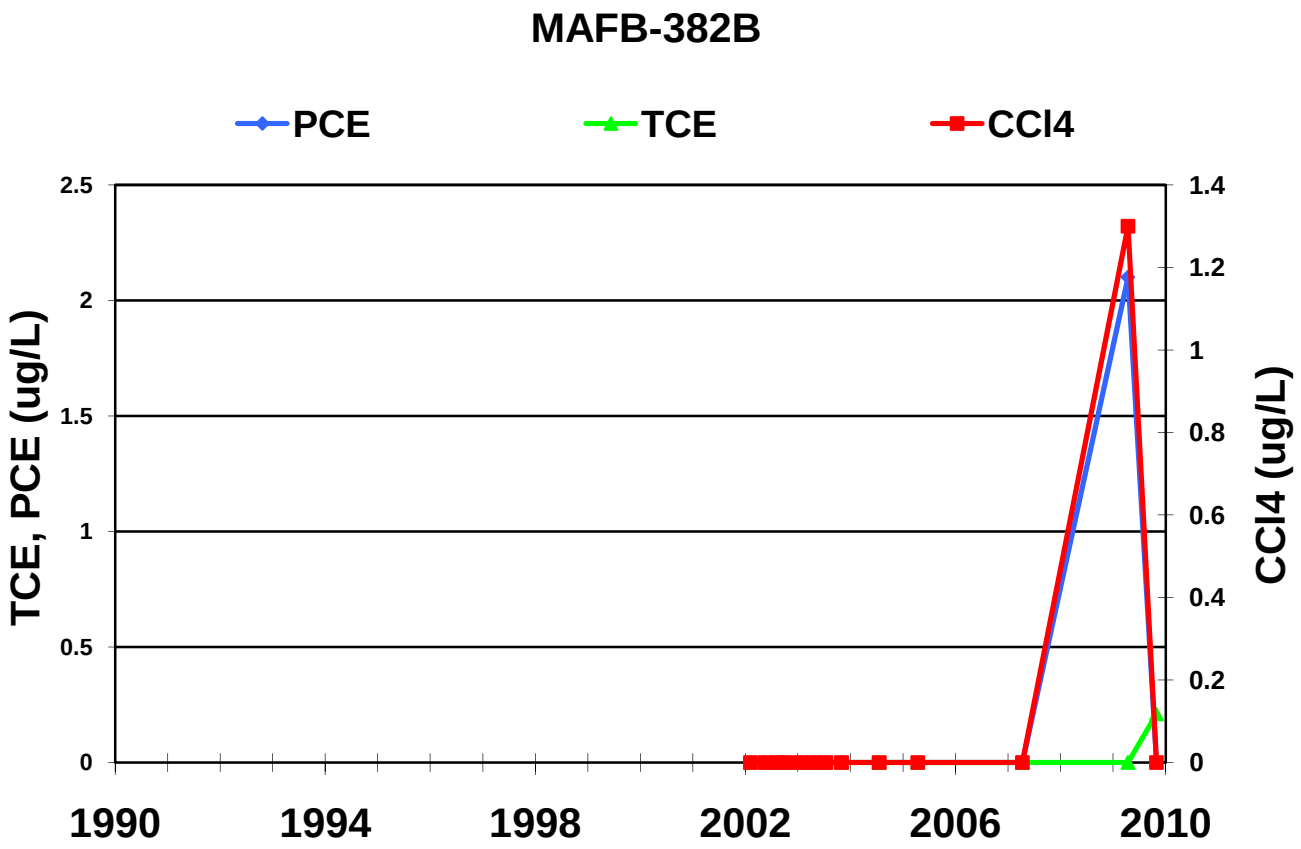

MAFB-379D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

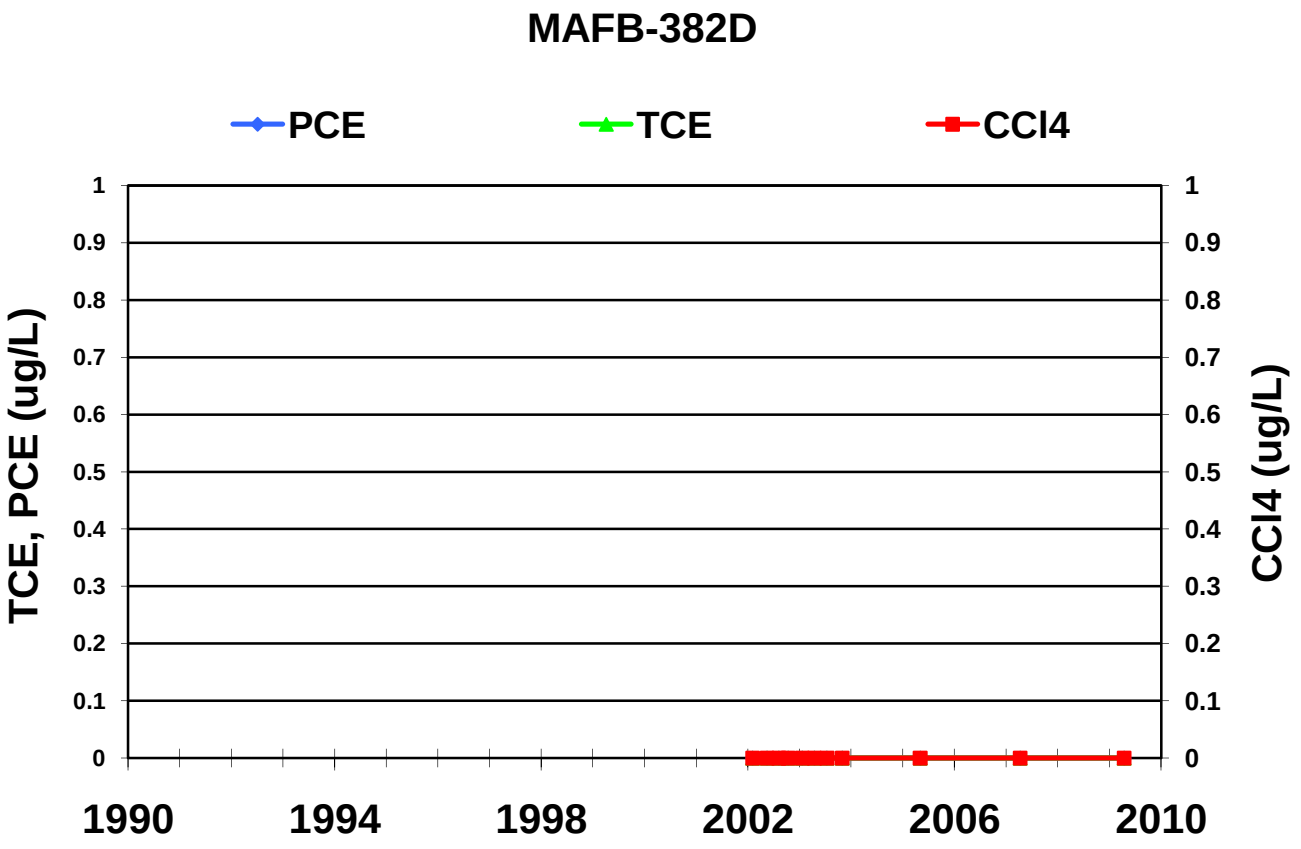

MAFB-380B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

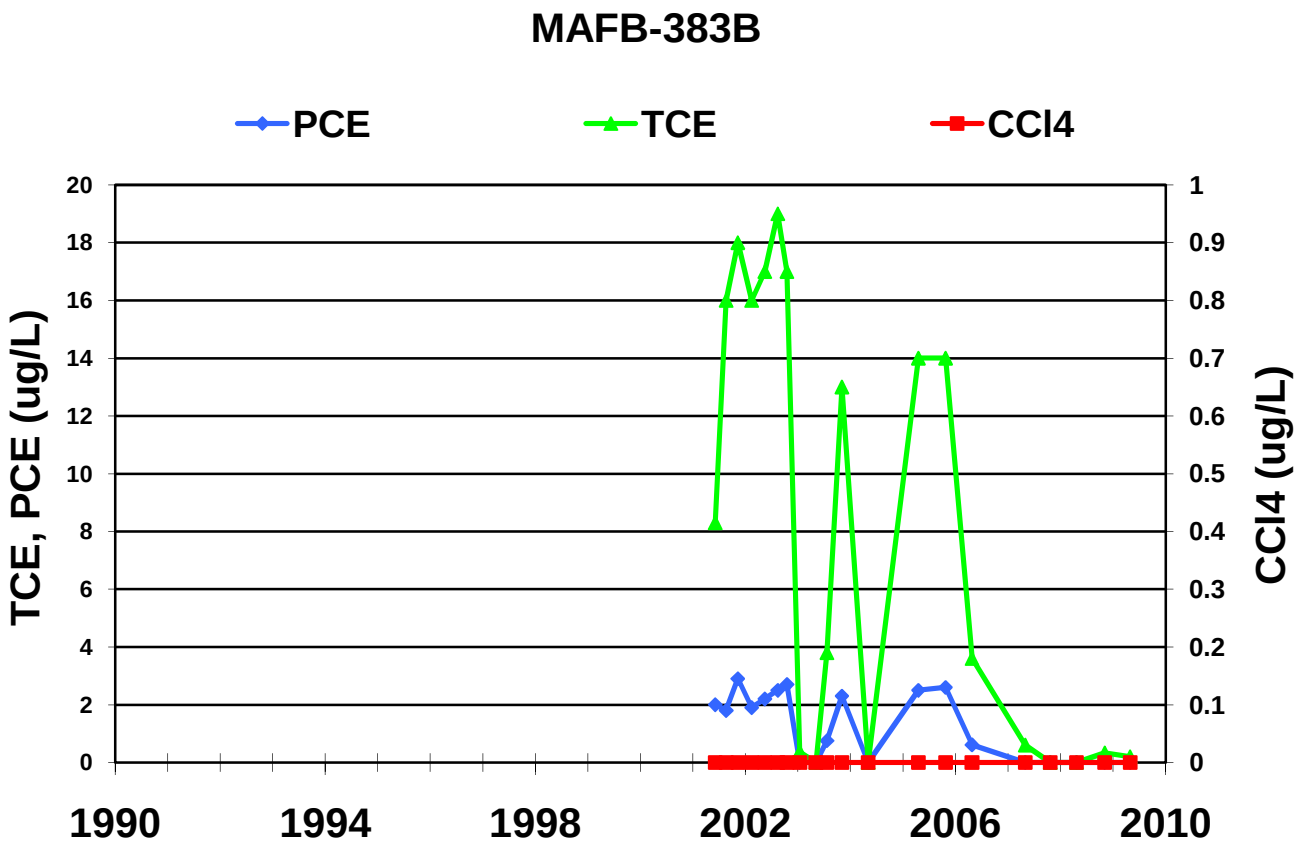

MAFB-380D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

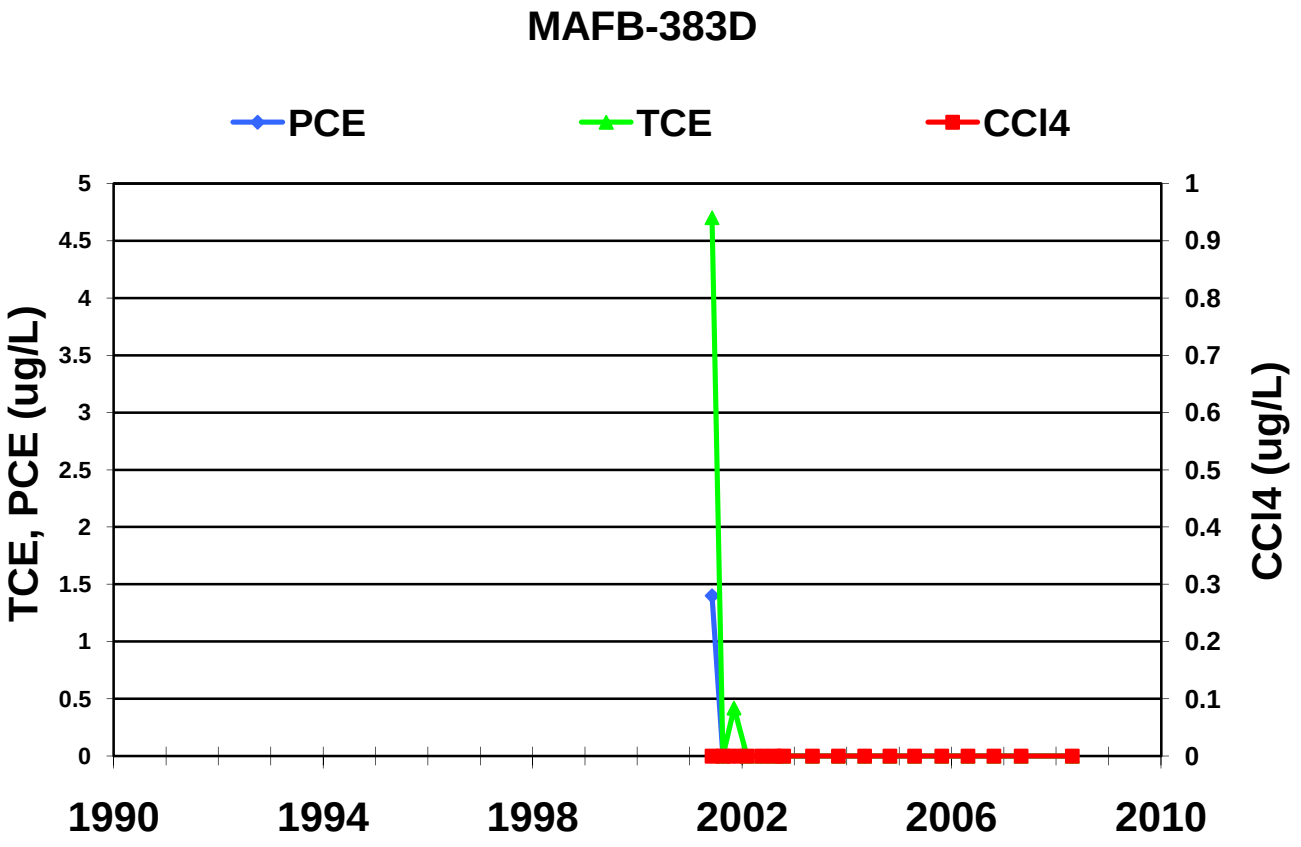

MAFB-381B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

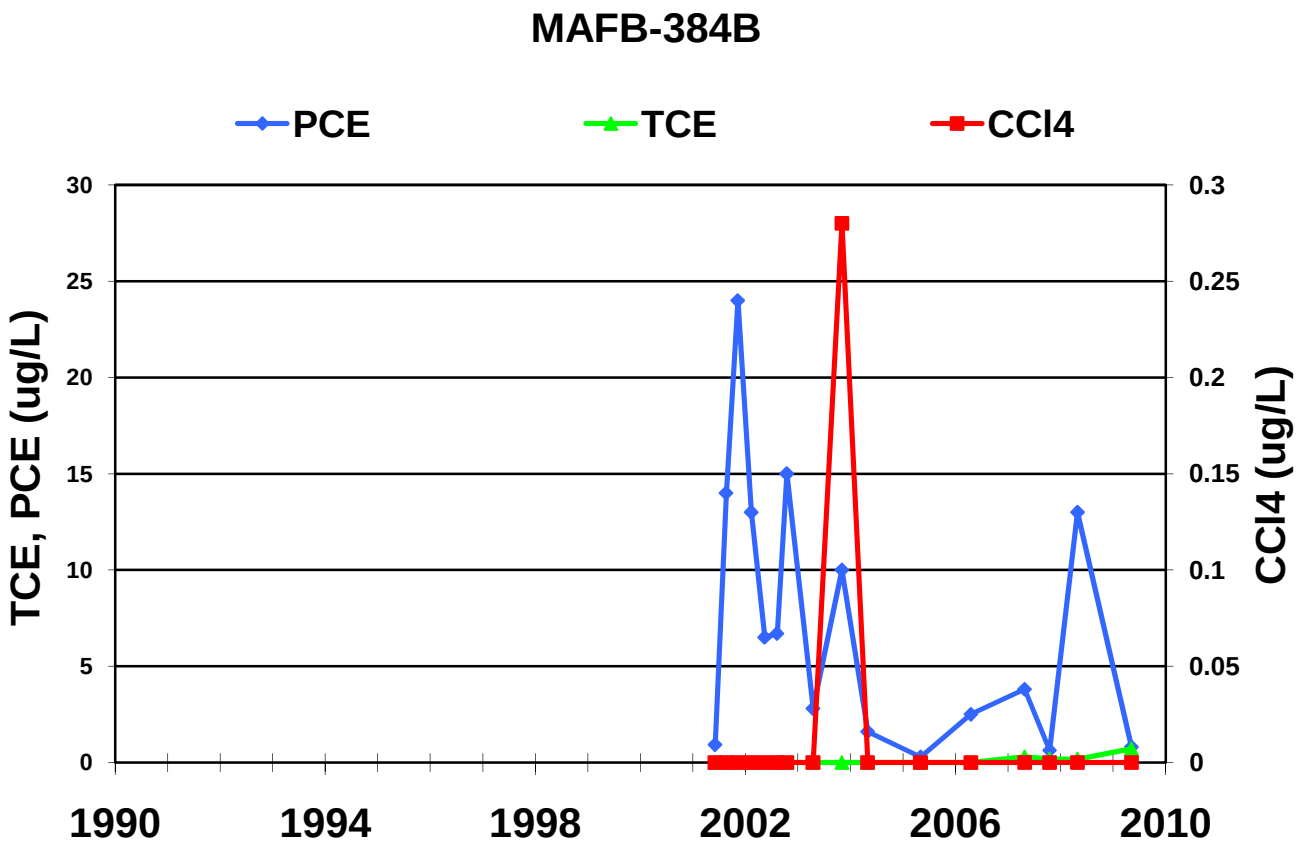

MAFB-381D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

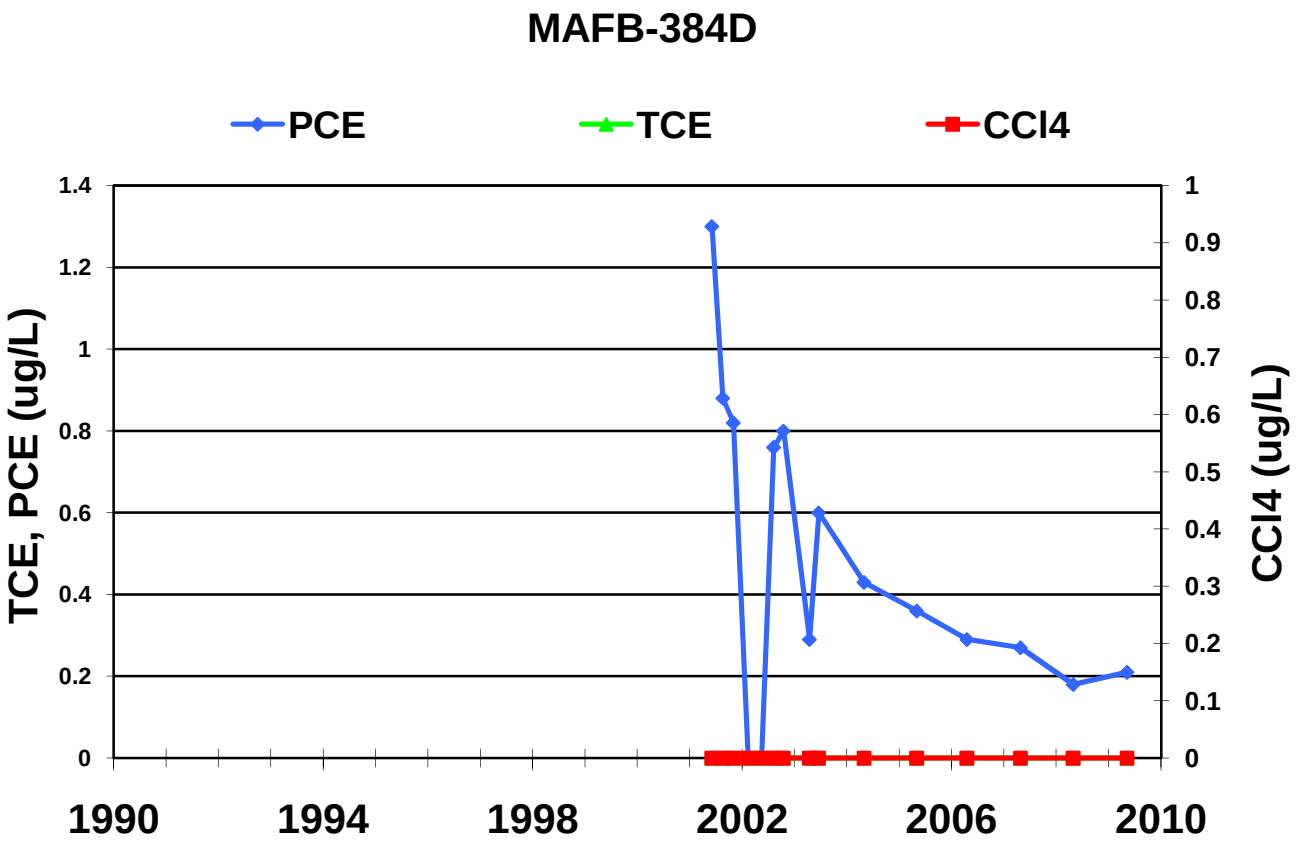

MAFB-382B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

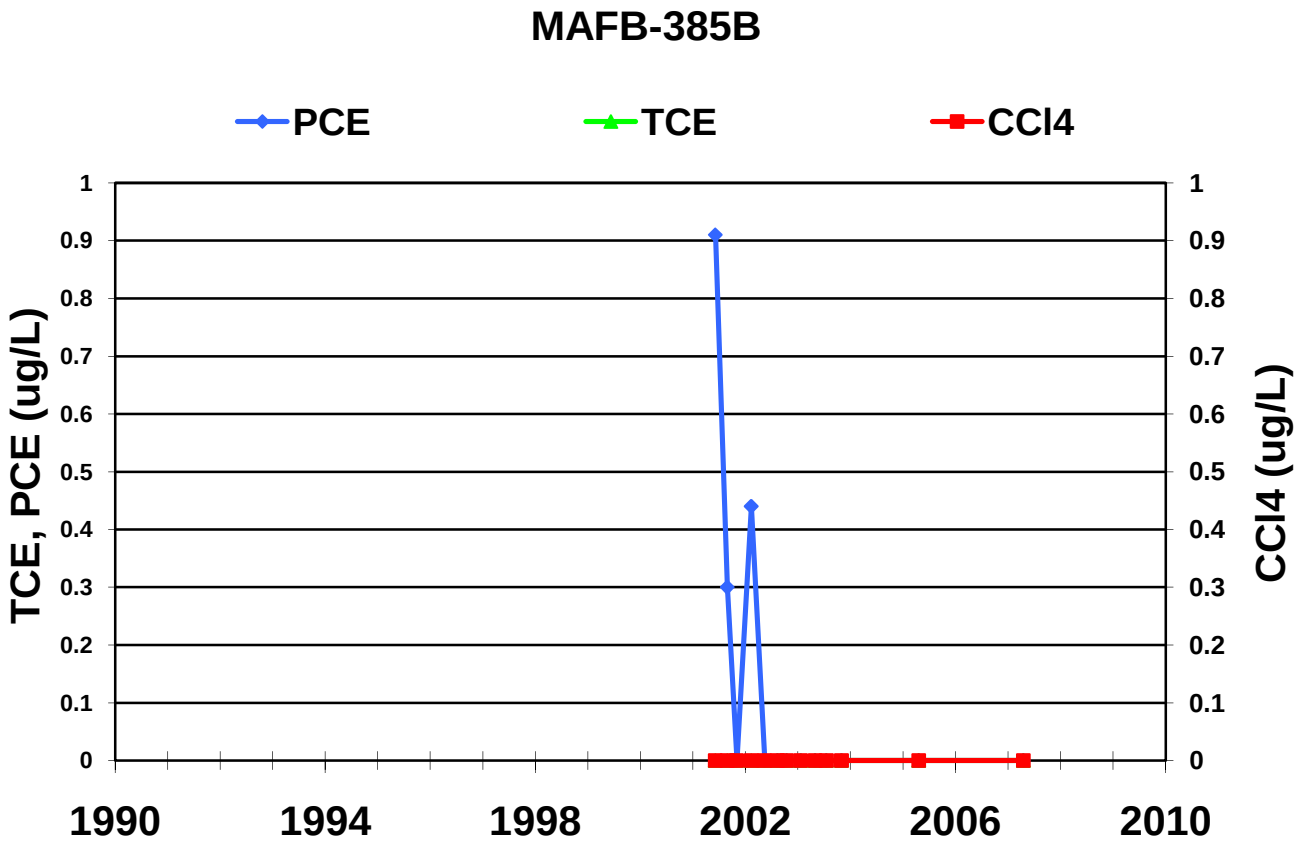

MAFB-382D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

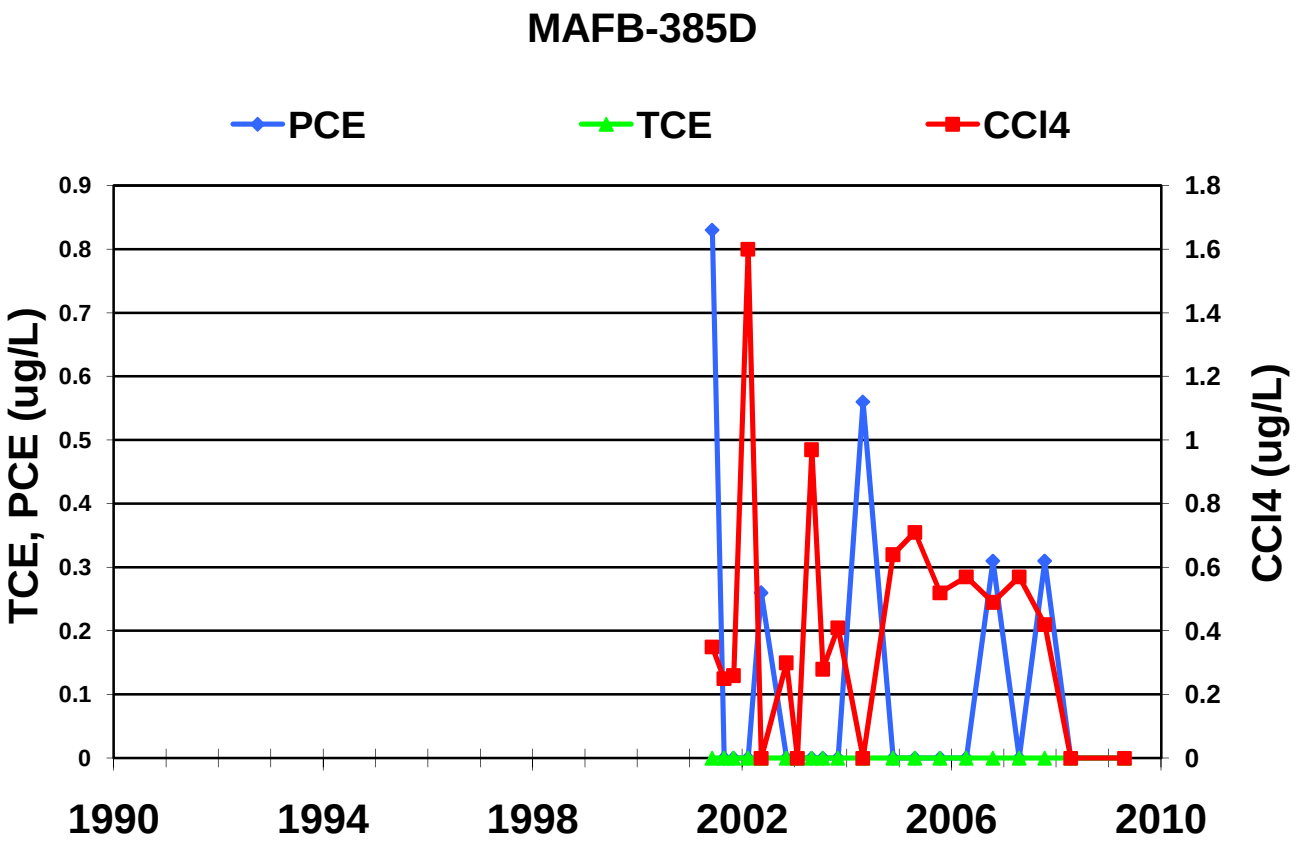

MAFB-383B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

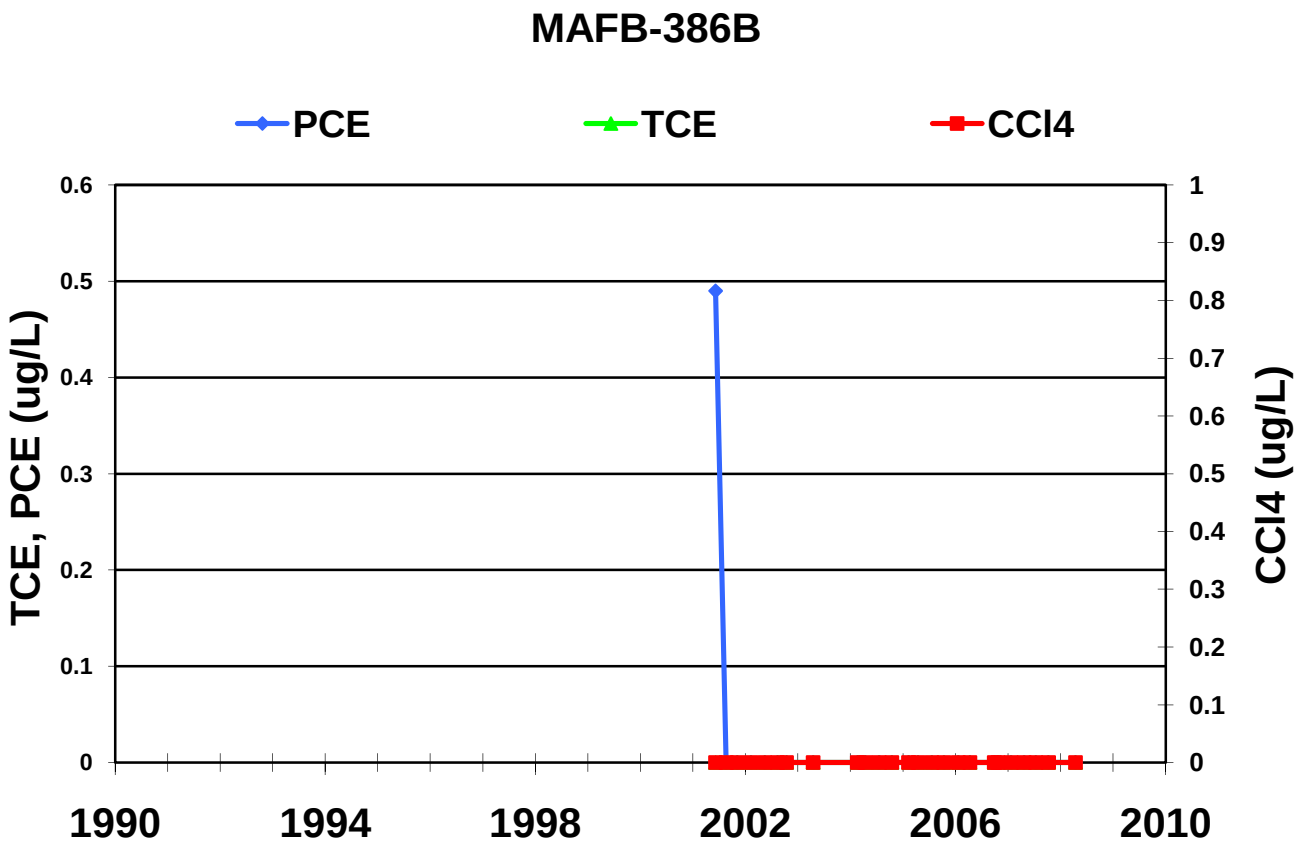

MAFB-383D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

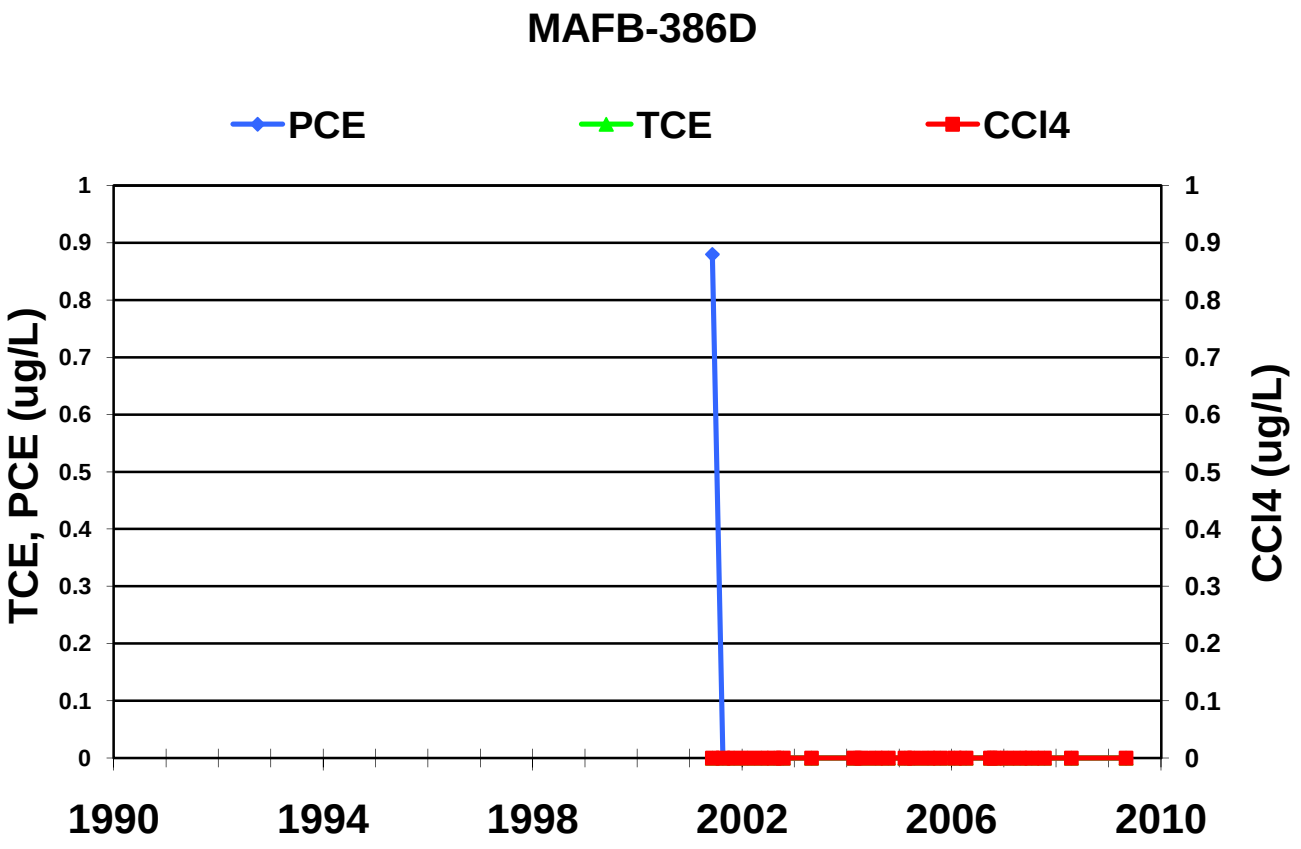

MAFB-384B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

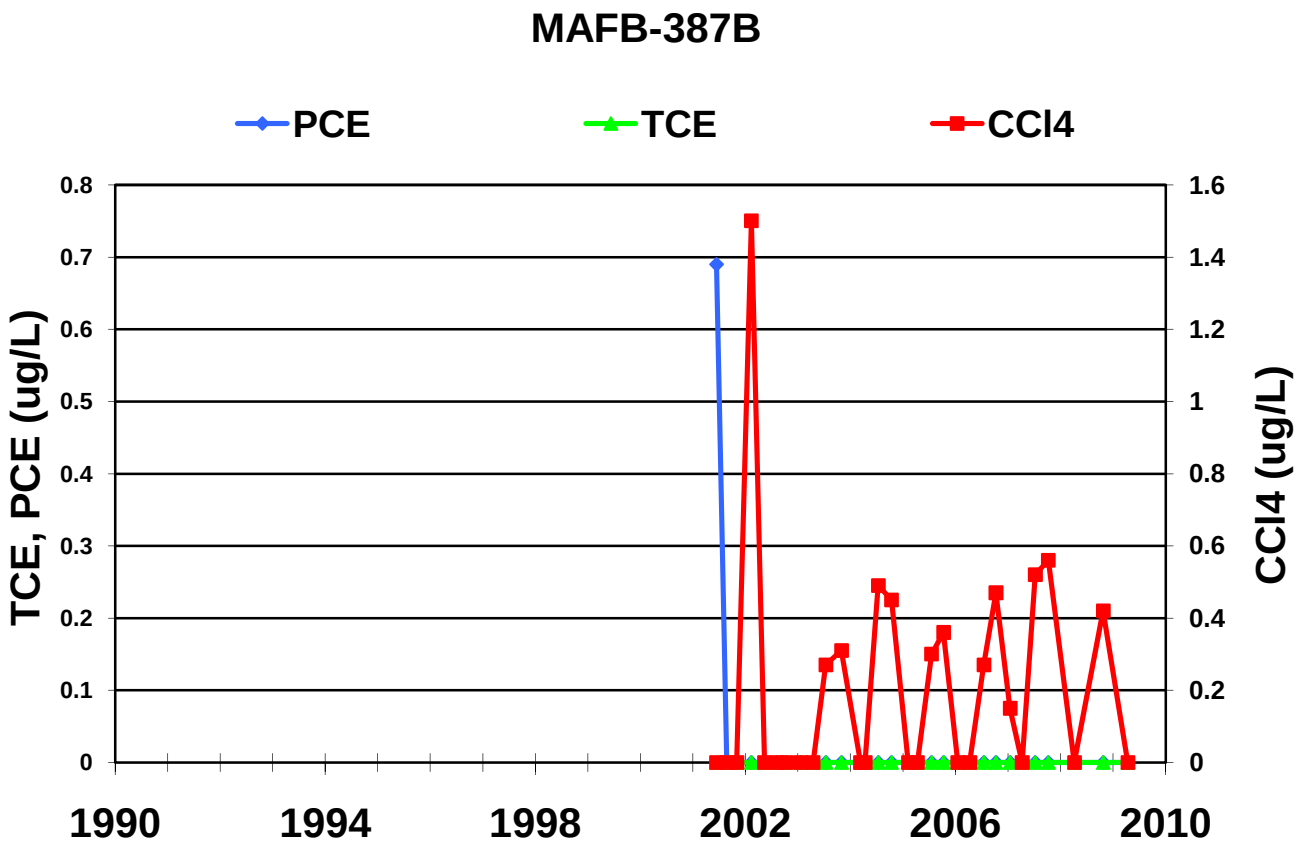

MAFB-384D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

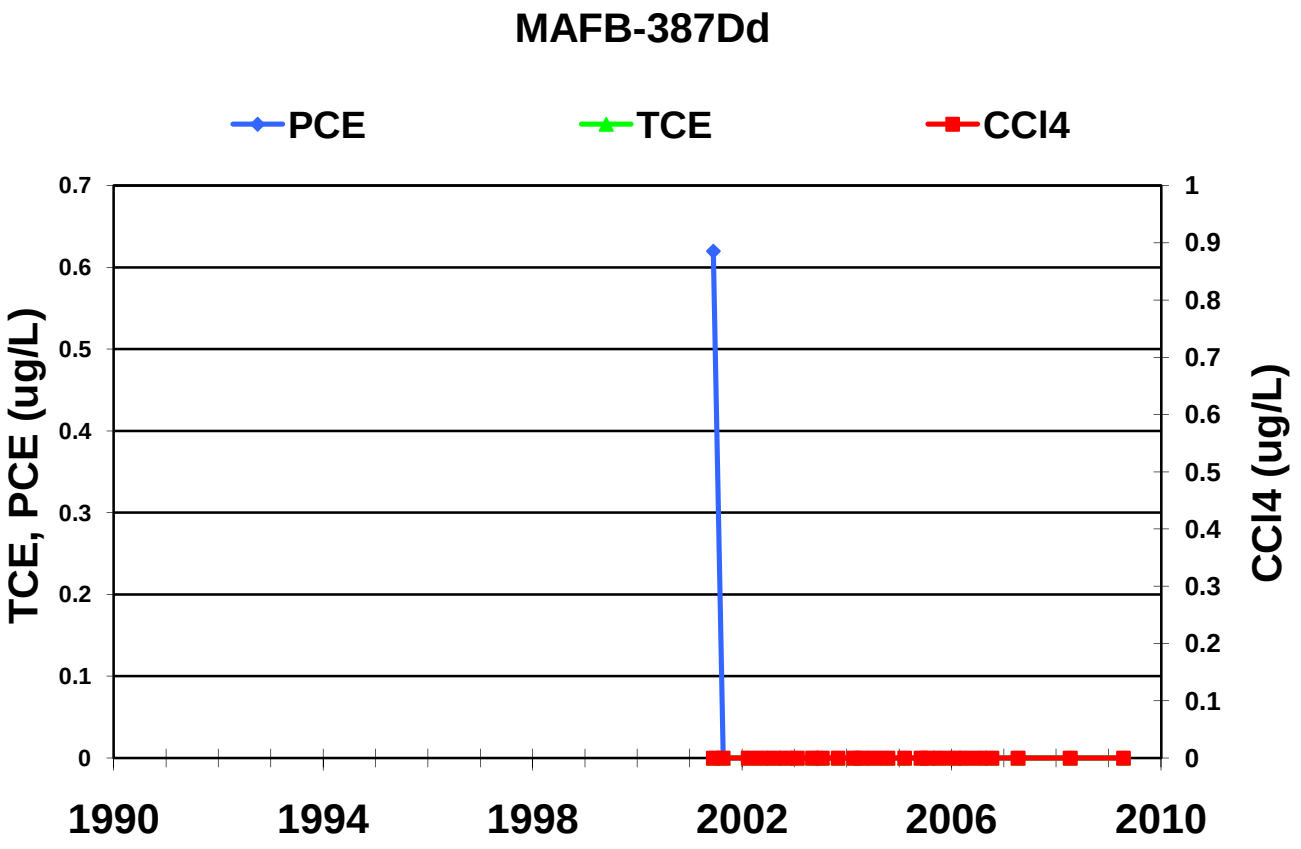

MAFB-385B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

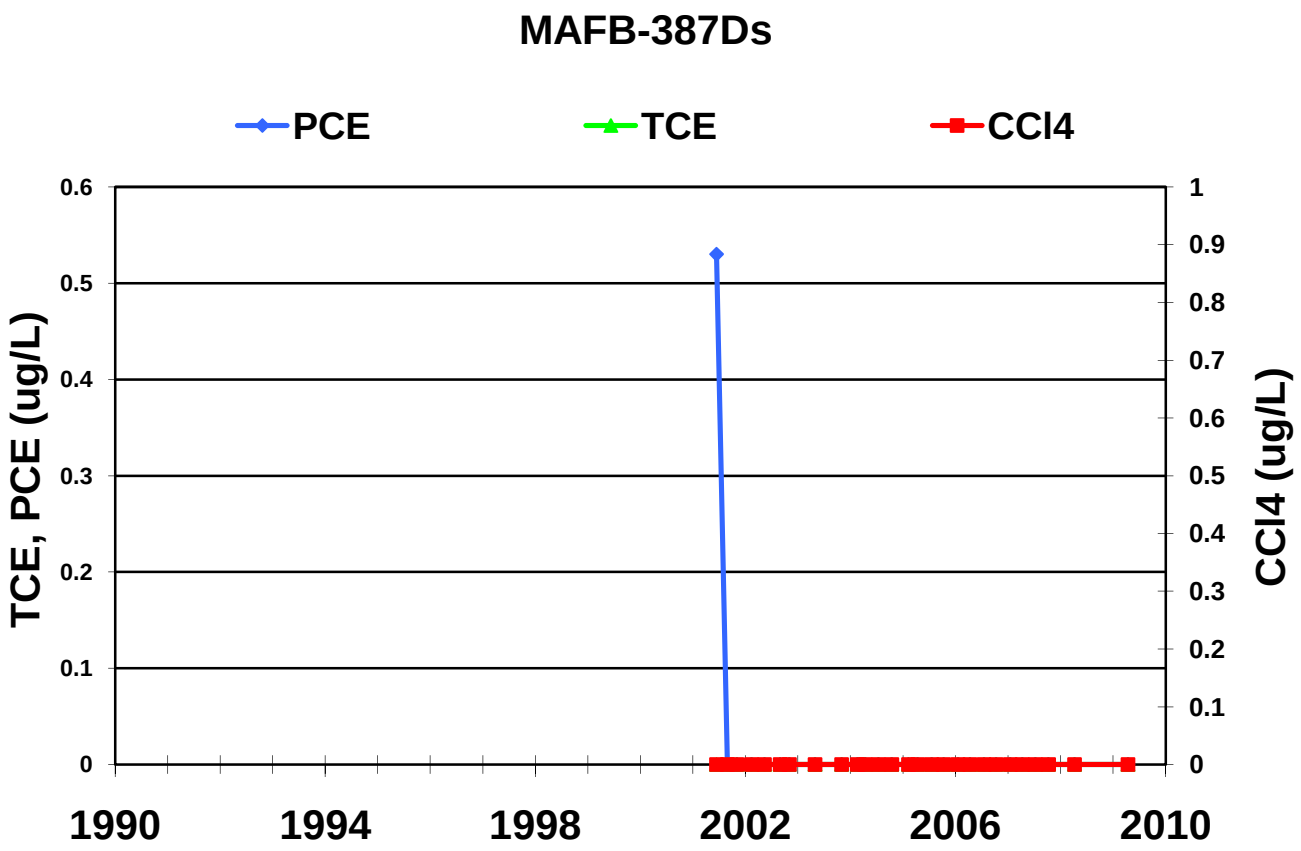

MAFB-385D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
1990
1994
1998
2002
2006
2010

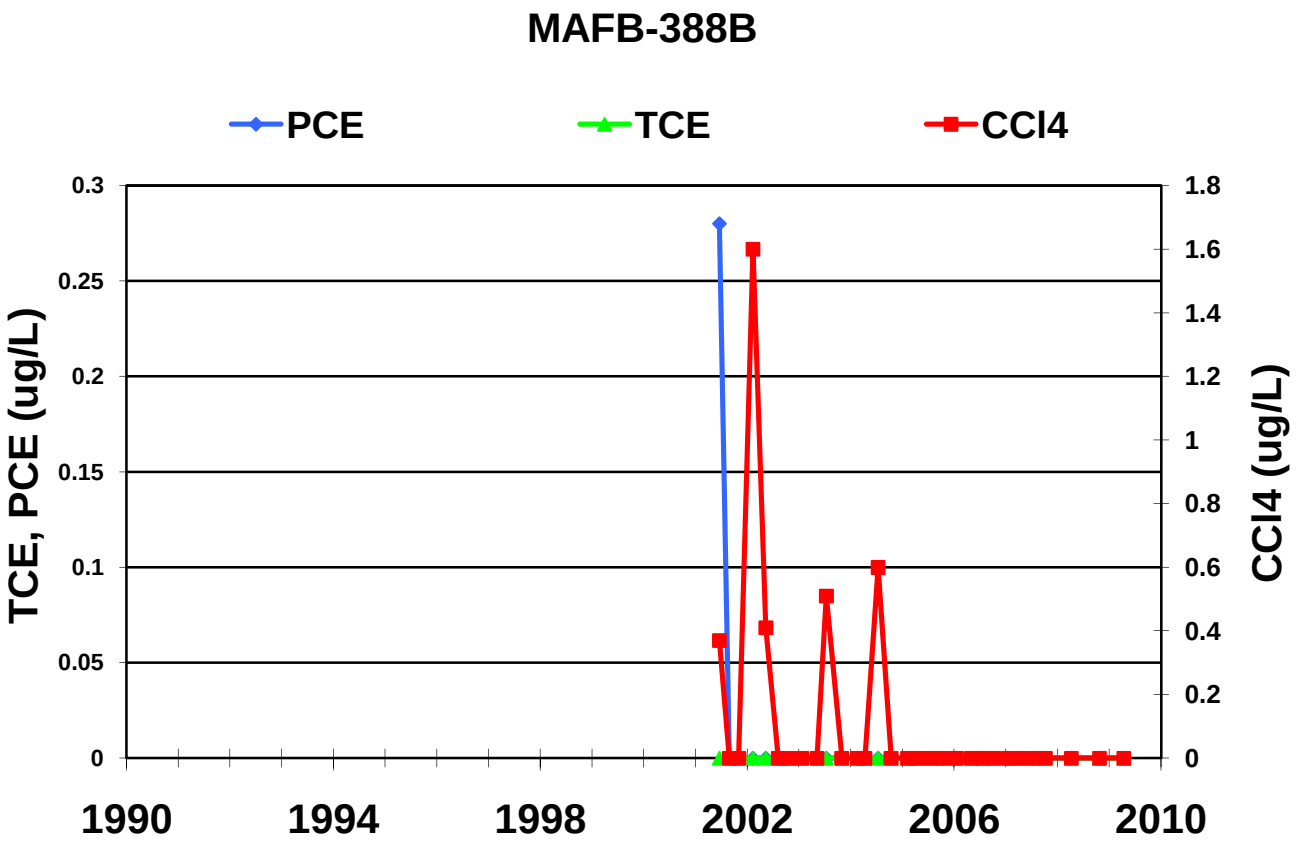

MAFB-386B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

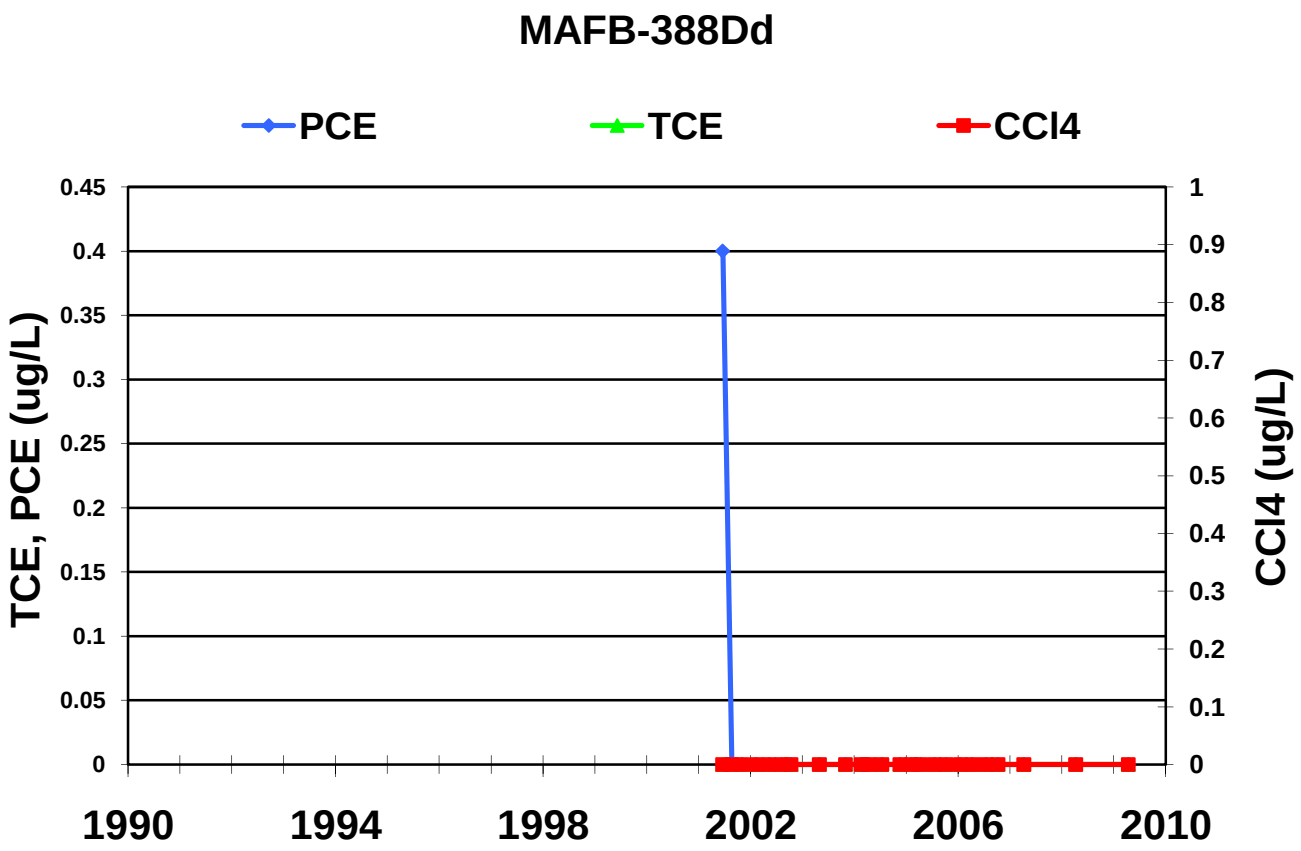

MAFB-386D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

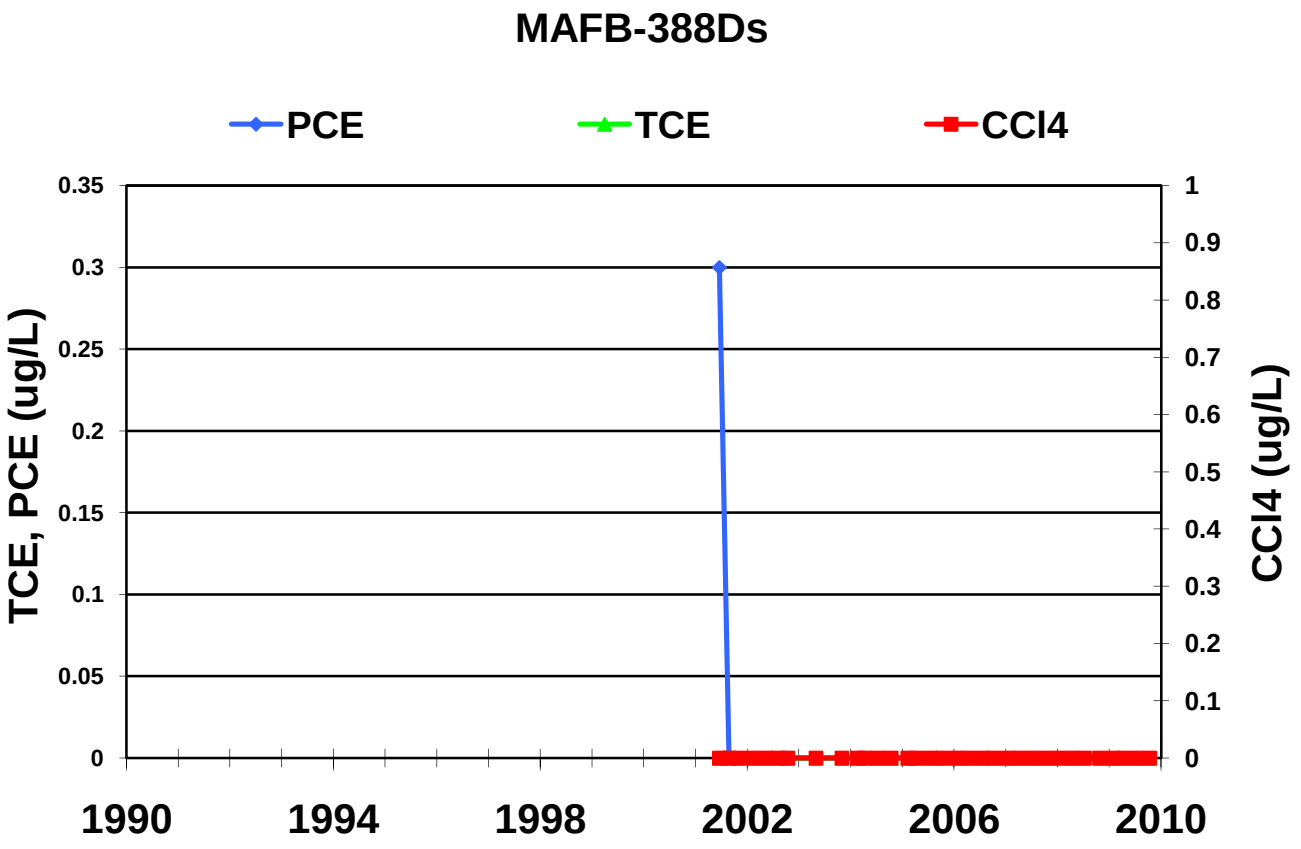

MAFB-387B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

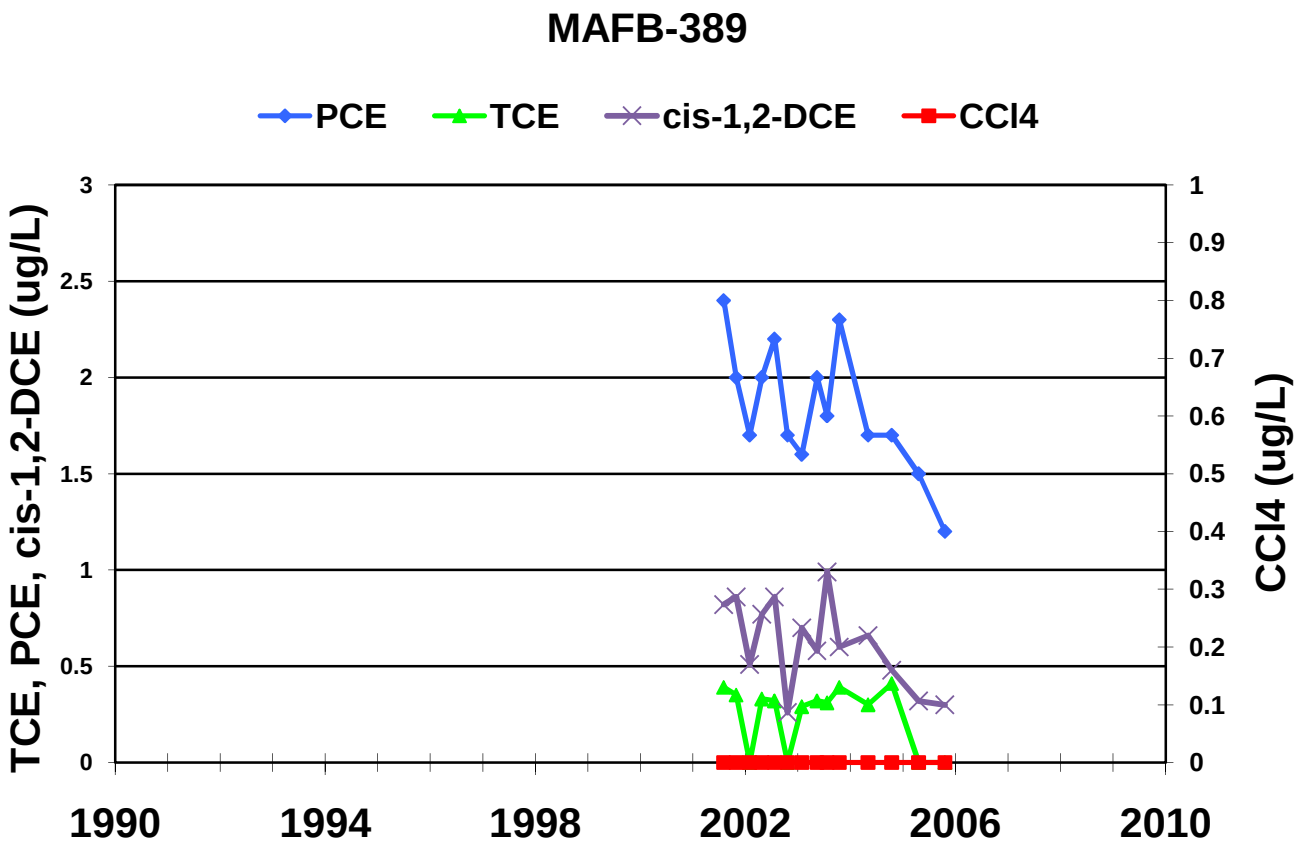

MAFB-387Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

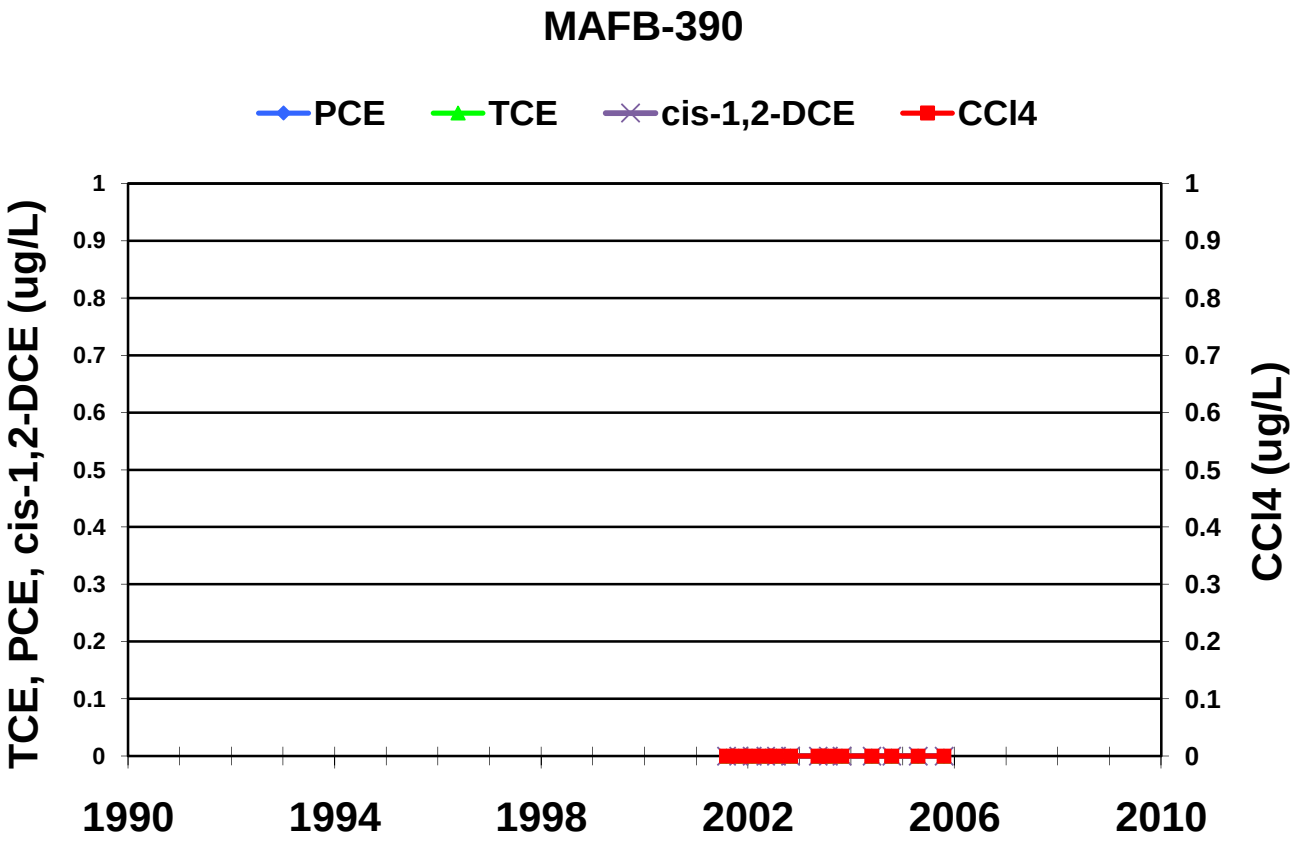

MAFB-387Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

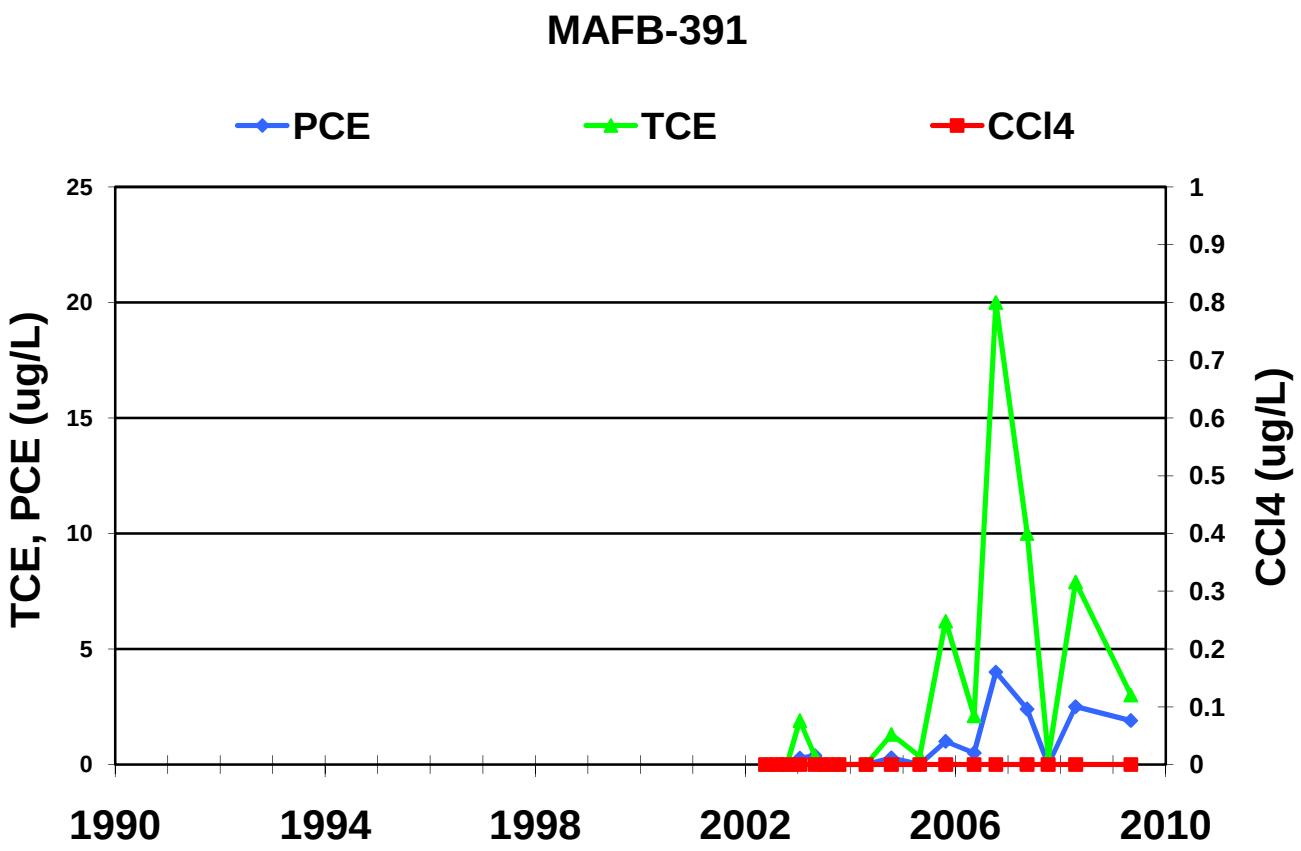

MAFB-388B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

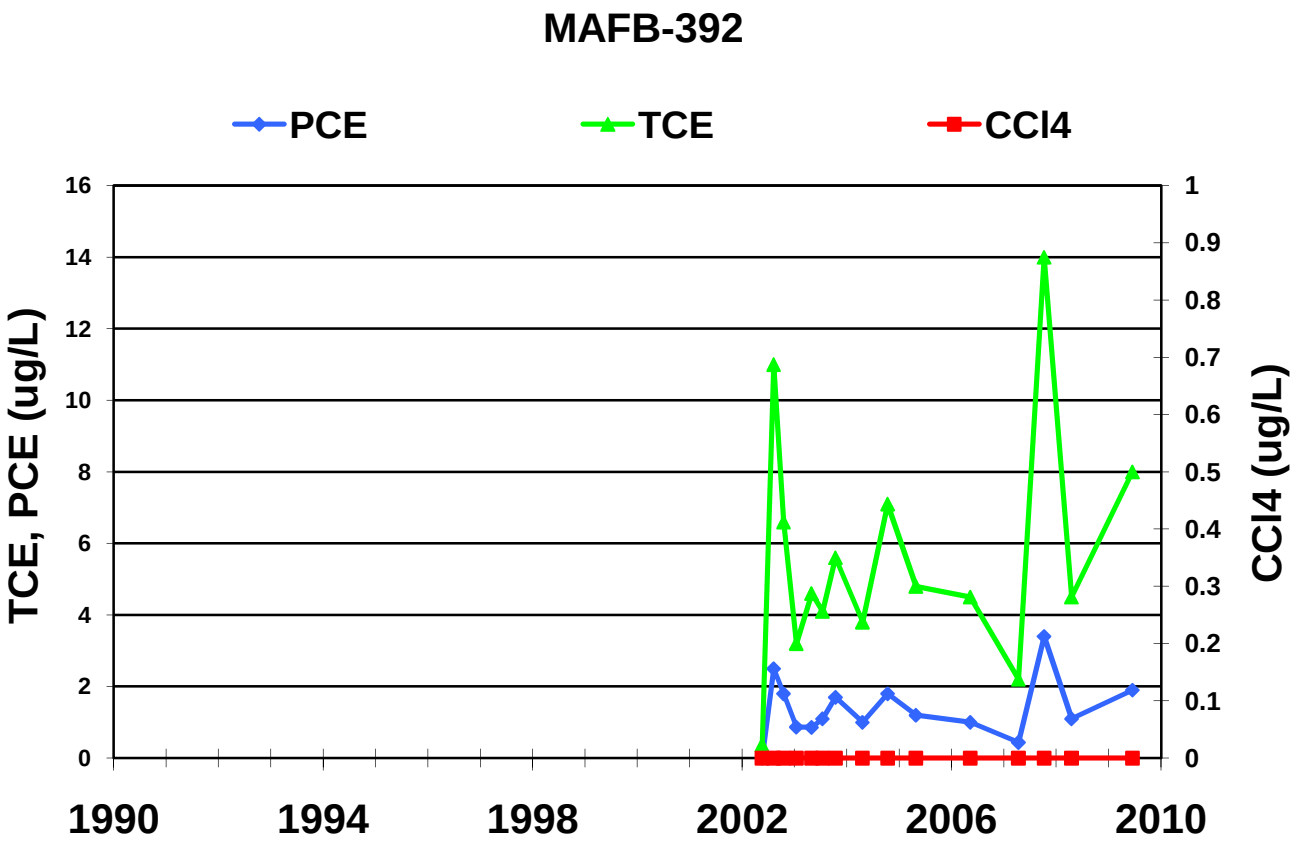

MAFB-388Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

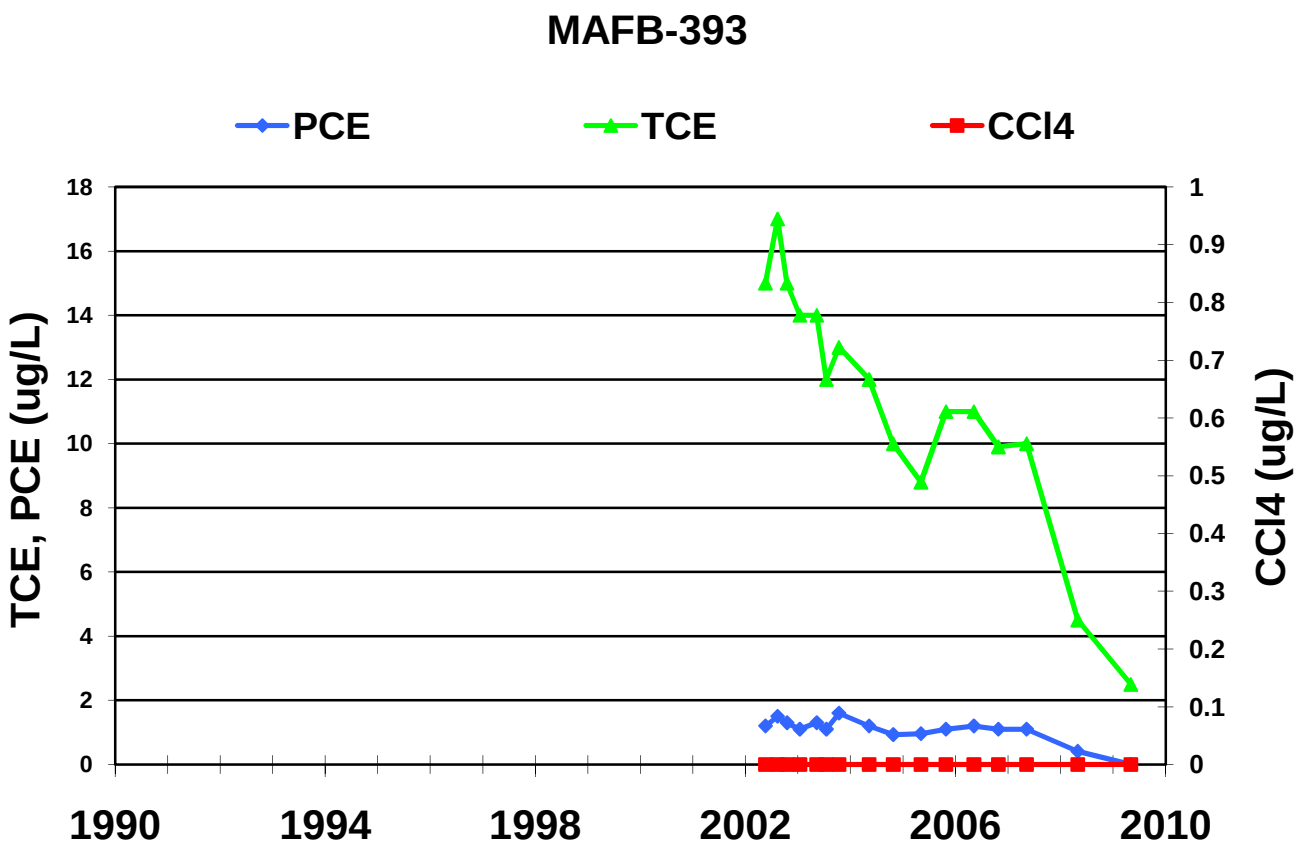

MAFB-388Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

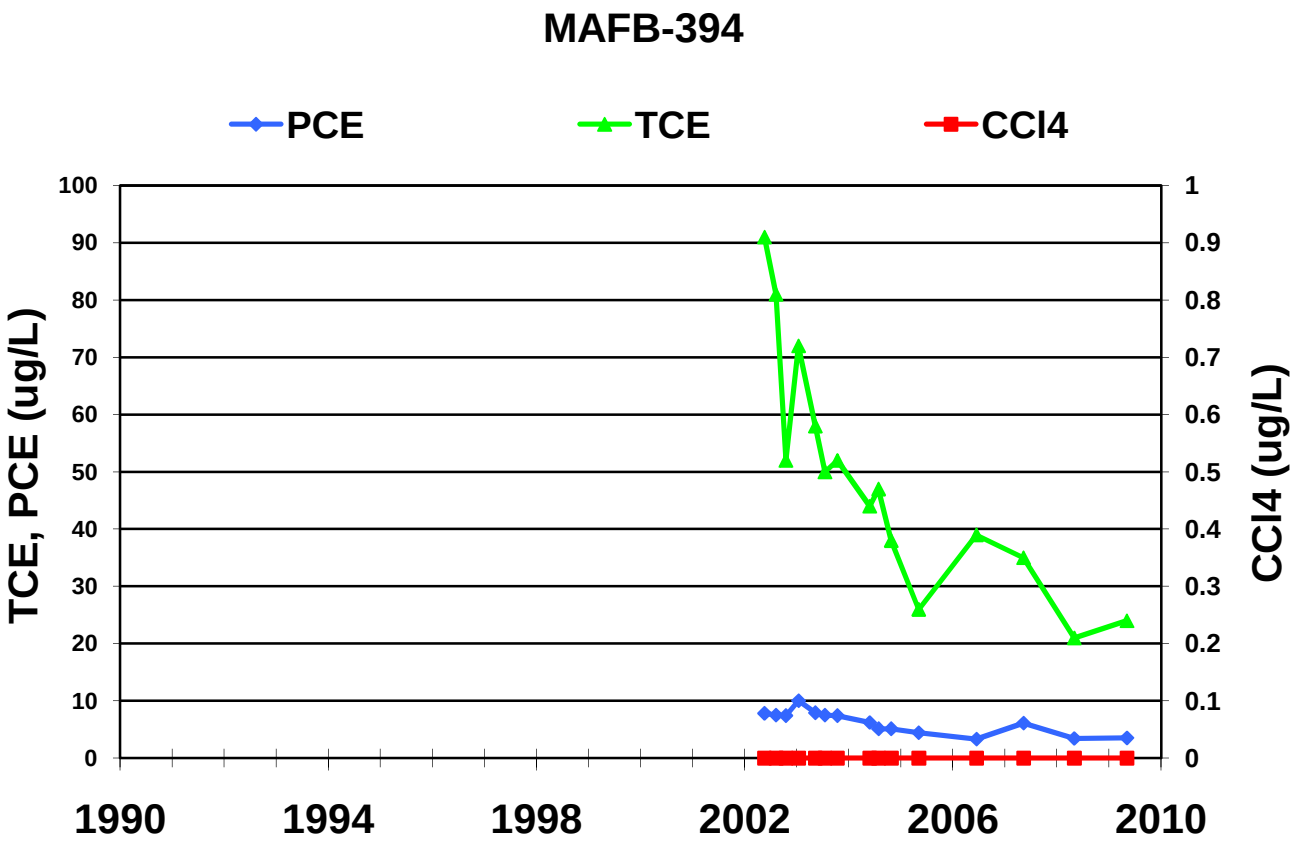

MAFB-389
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

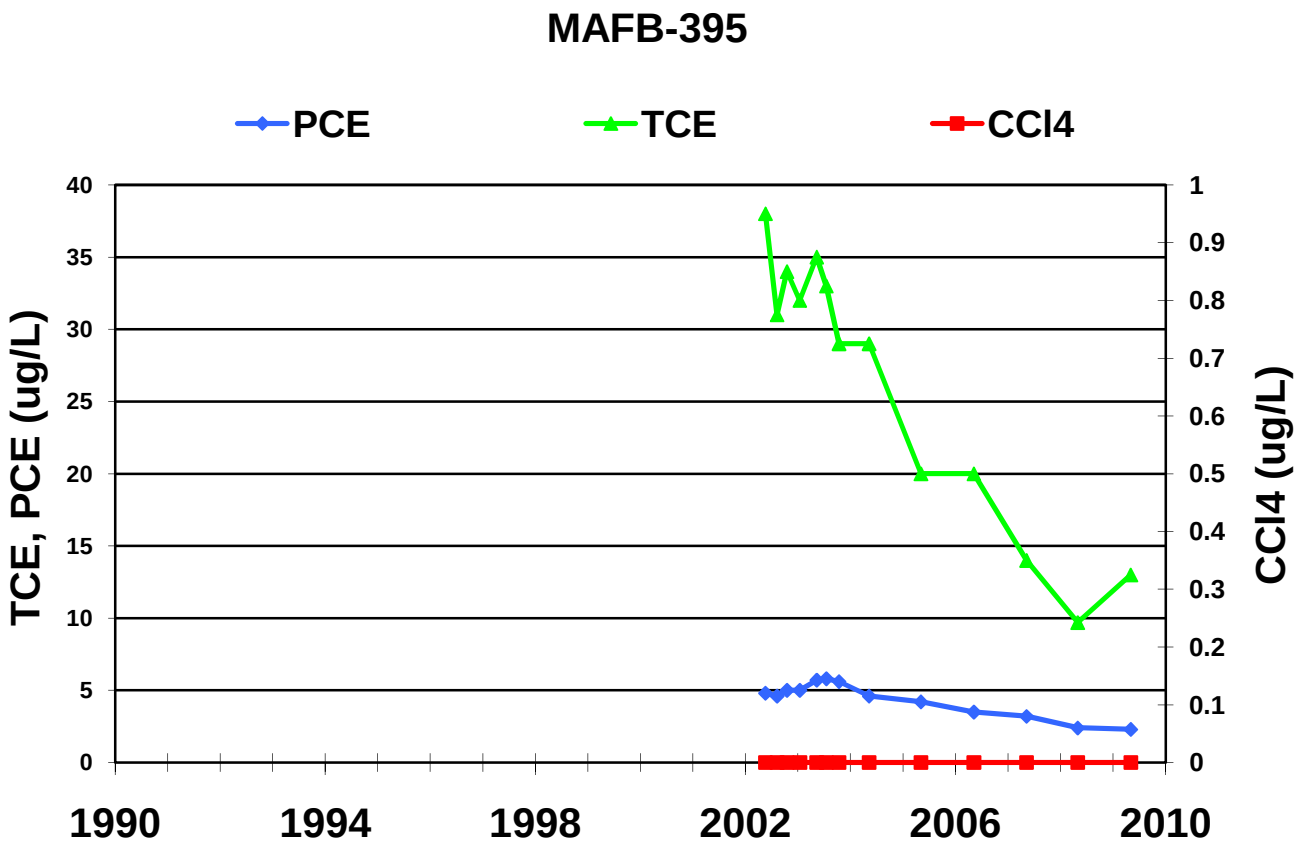

MAFB-390
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

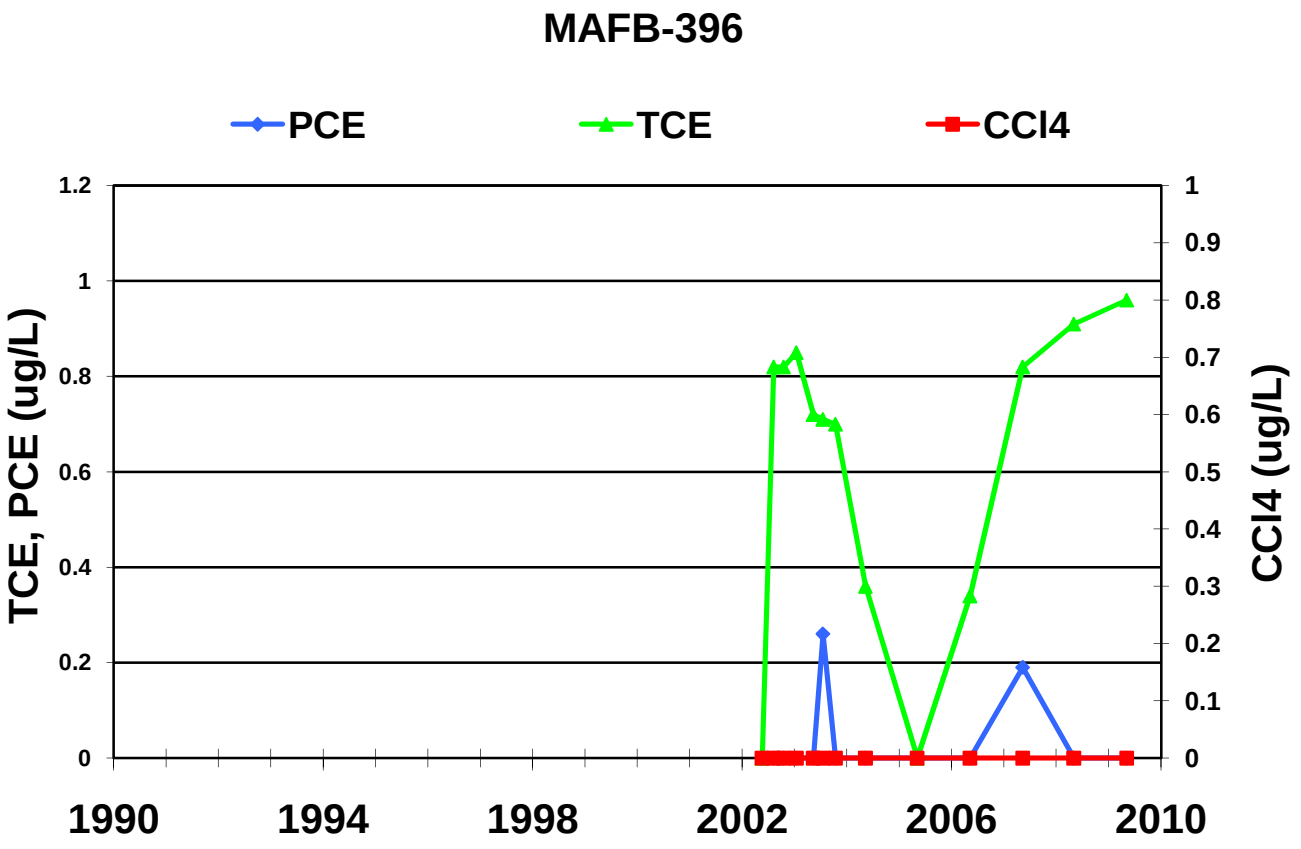

MAFB-391
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-392
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

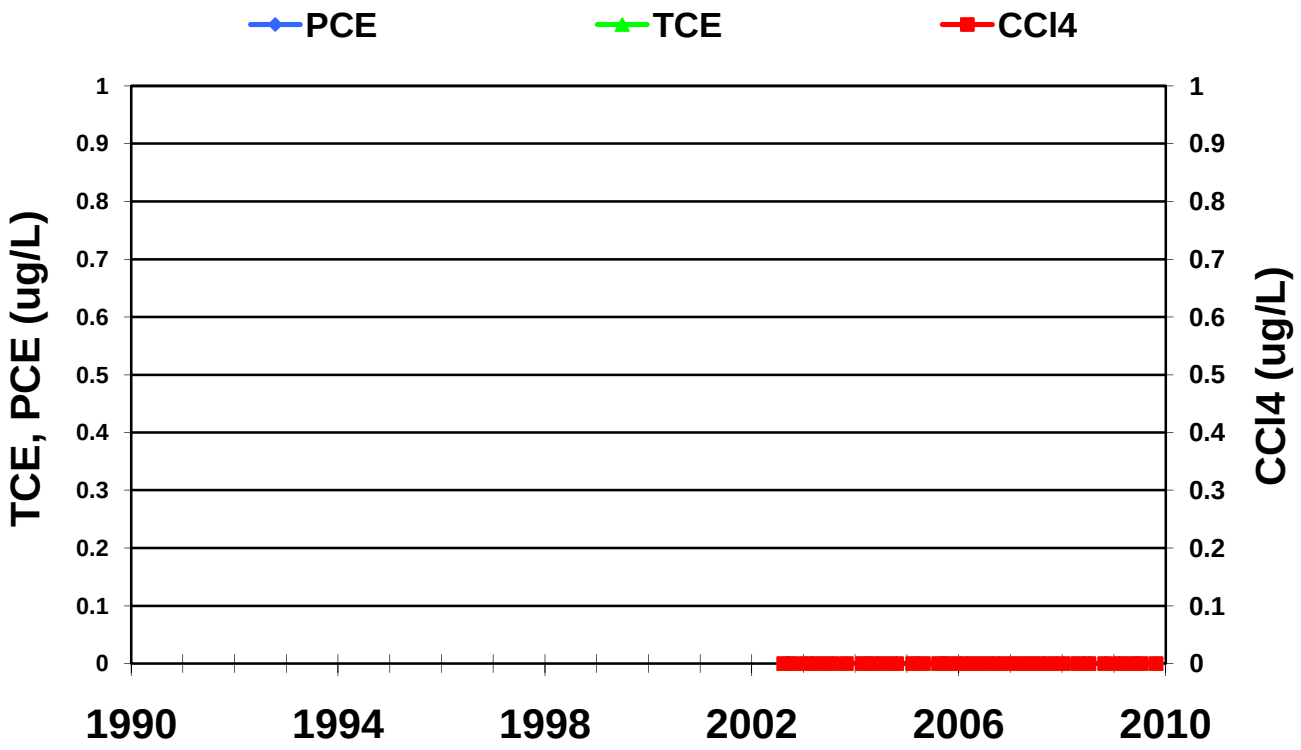

MAFB-393
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-394
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
100
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

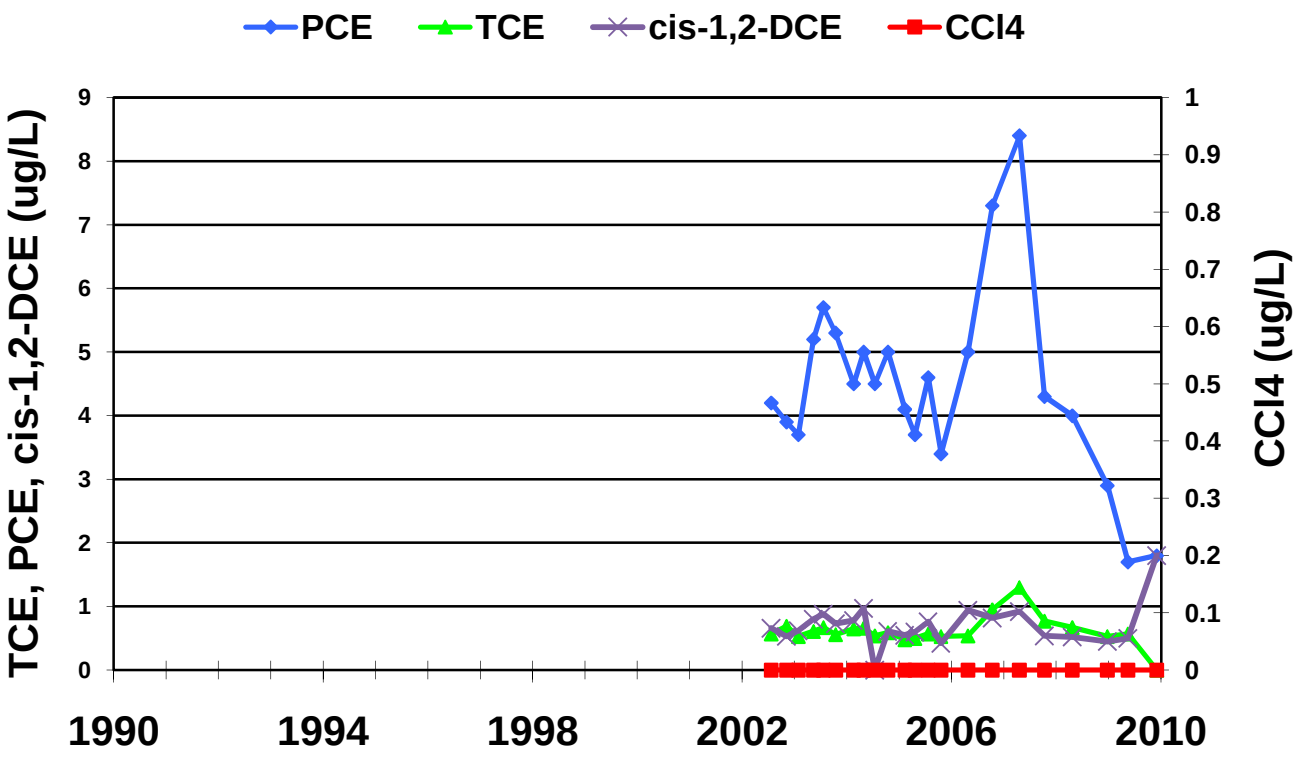

MAFB-395
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-396
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

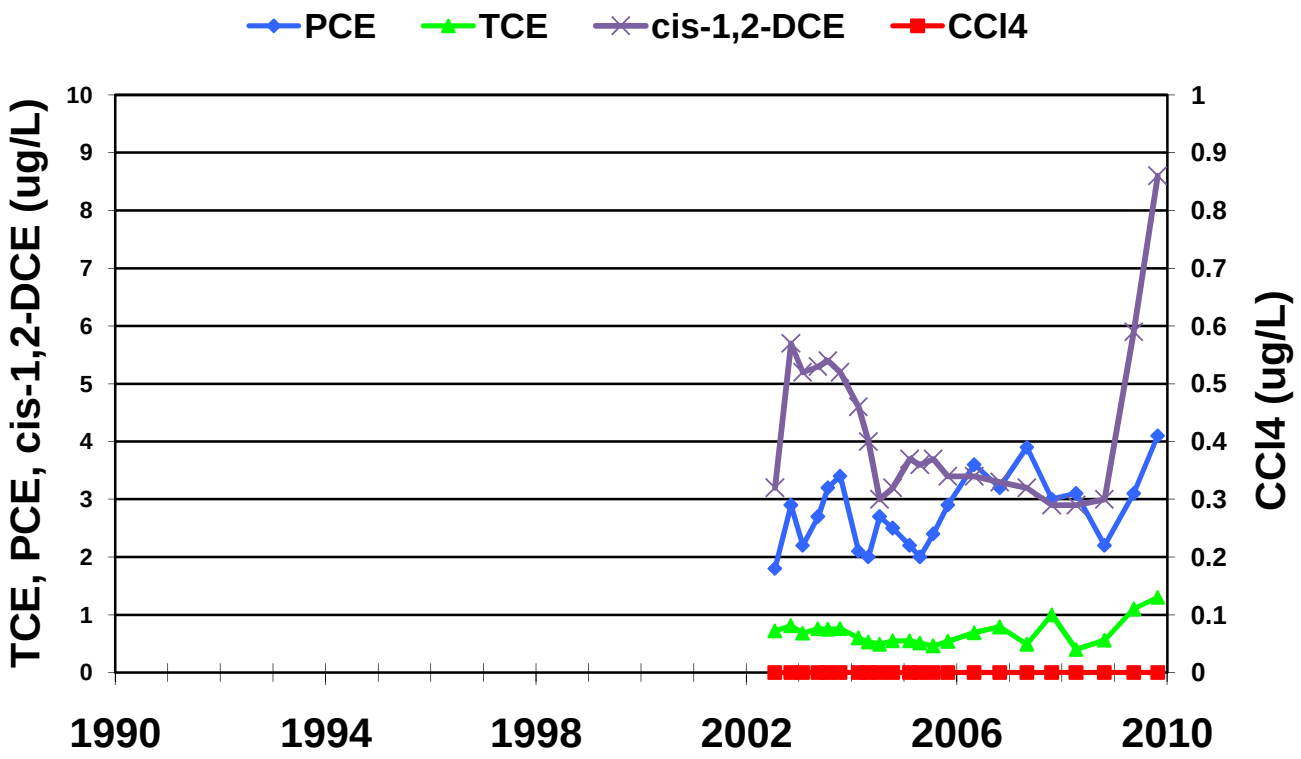
MAFB-397



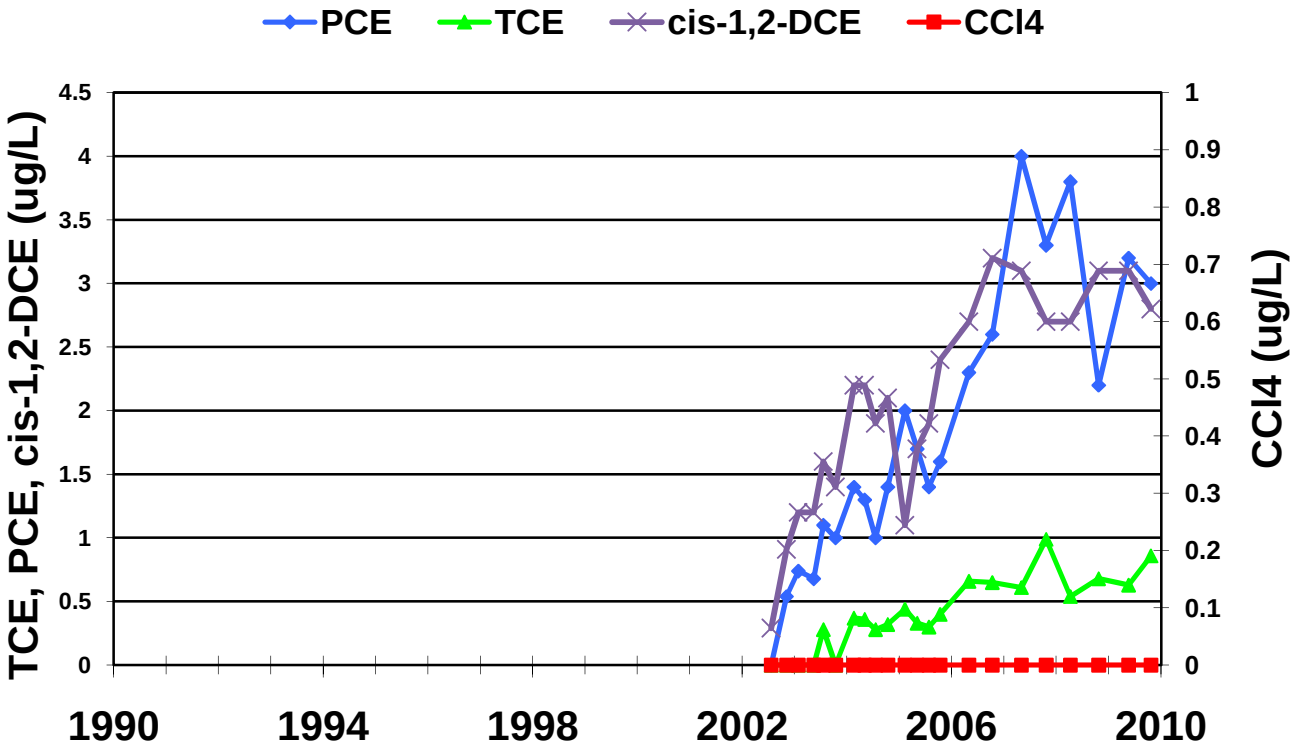
MAFB-398



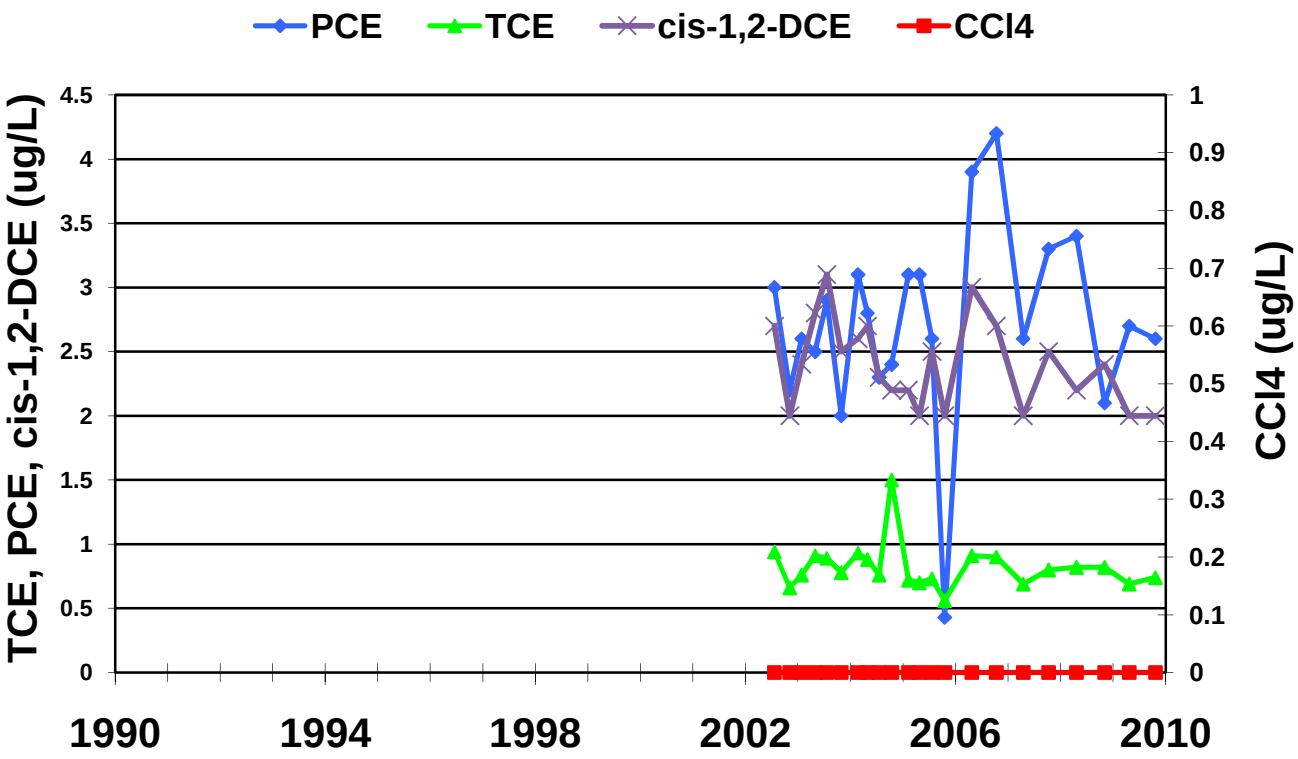
MAFB-398C



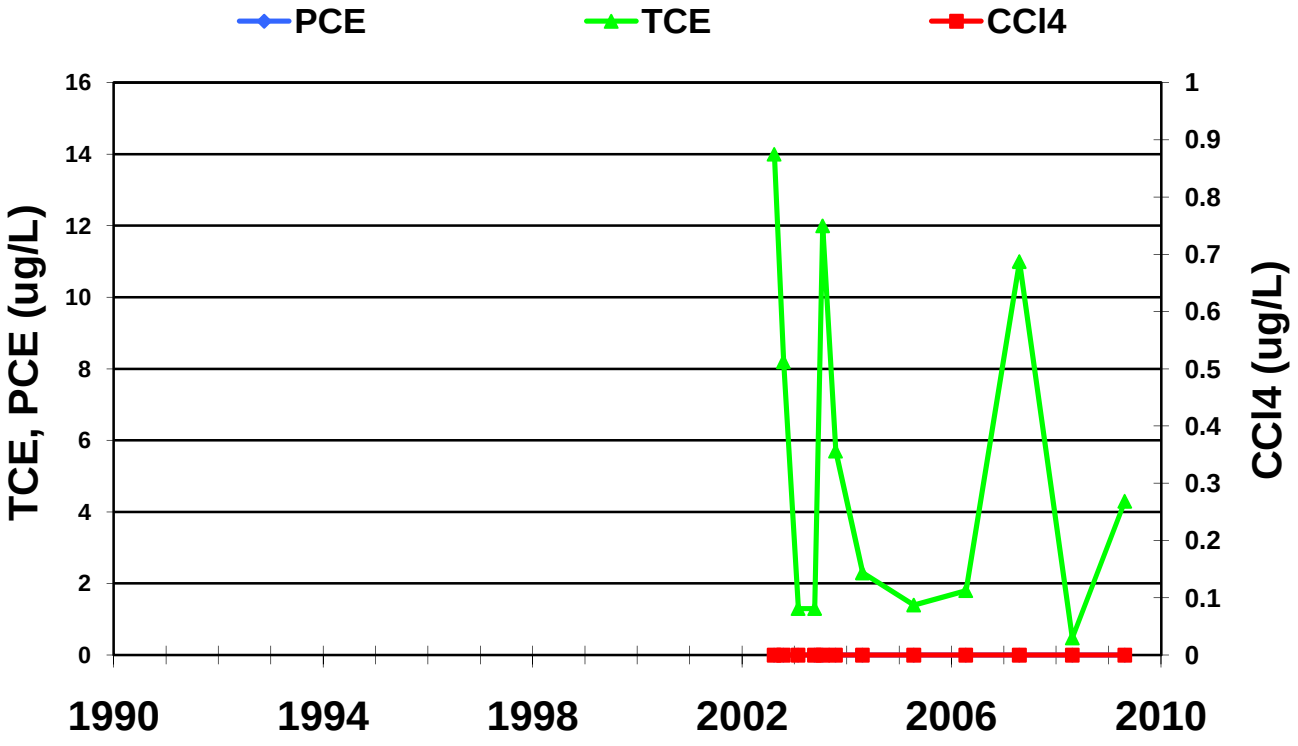
MAFB-399

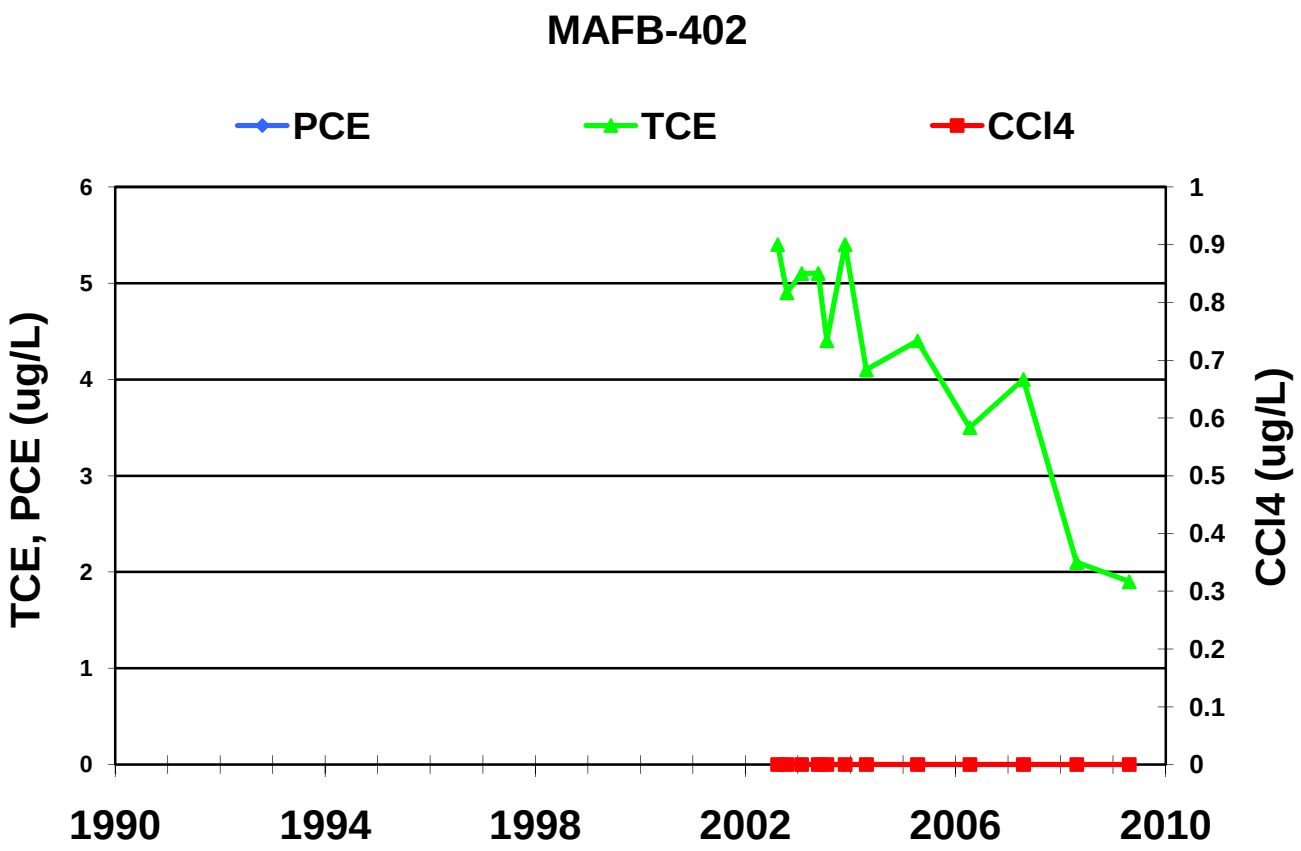


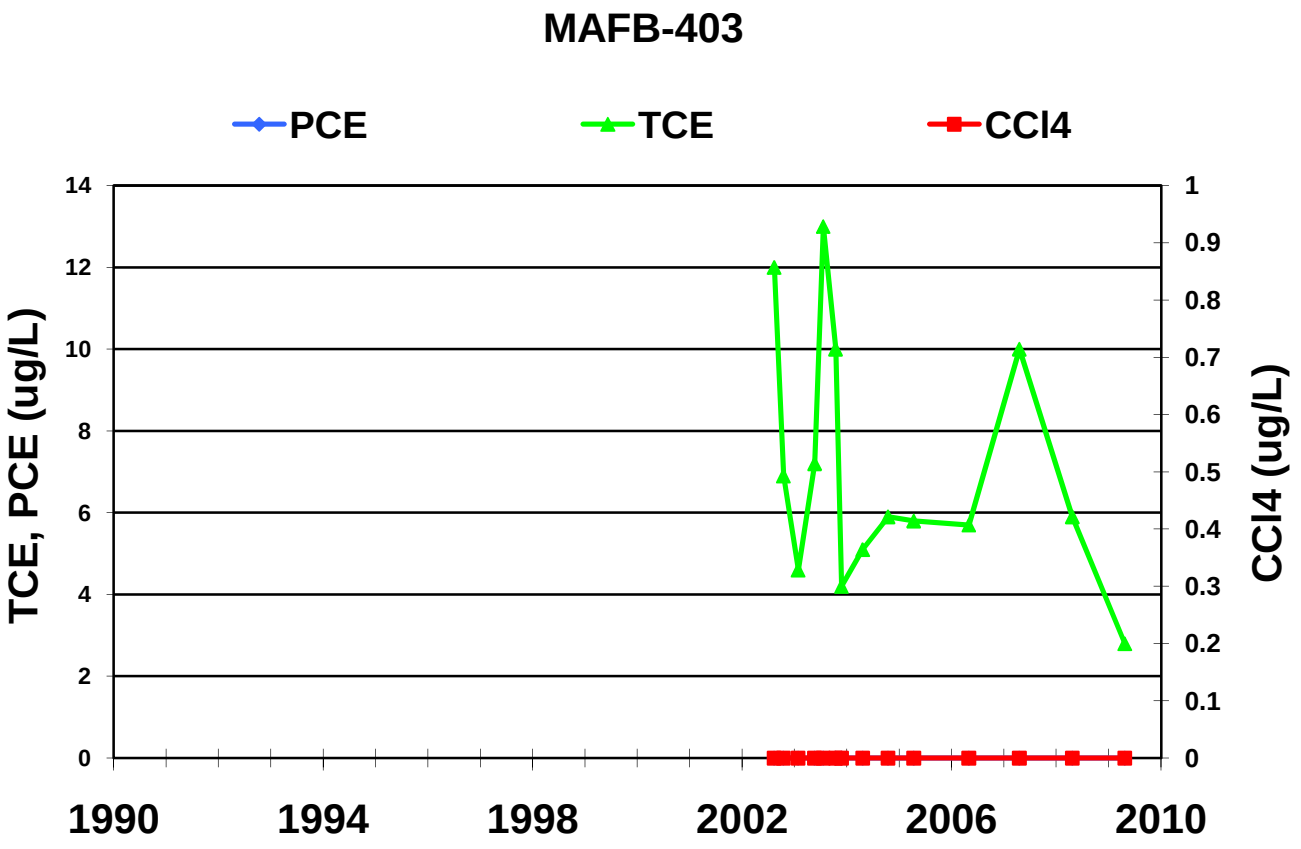
MAFB-400

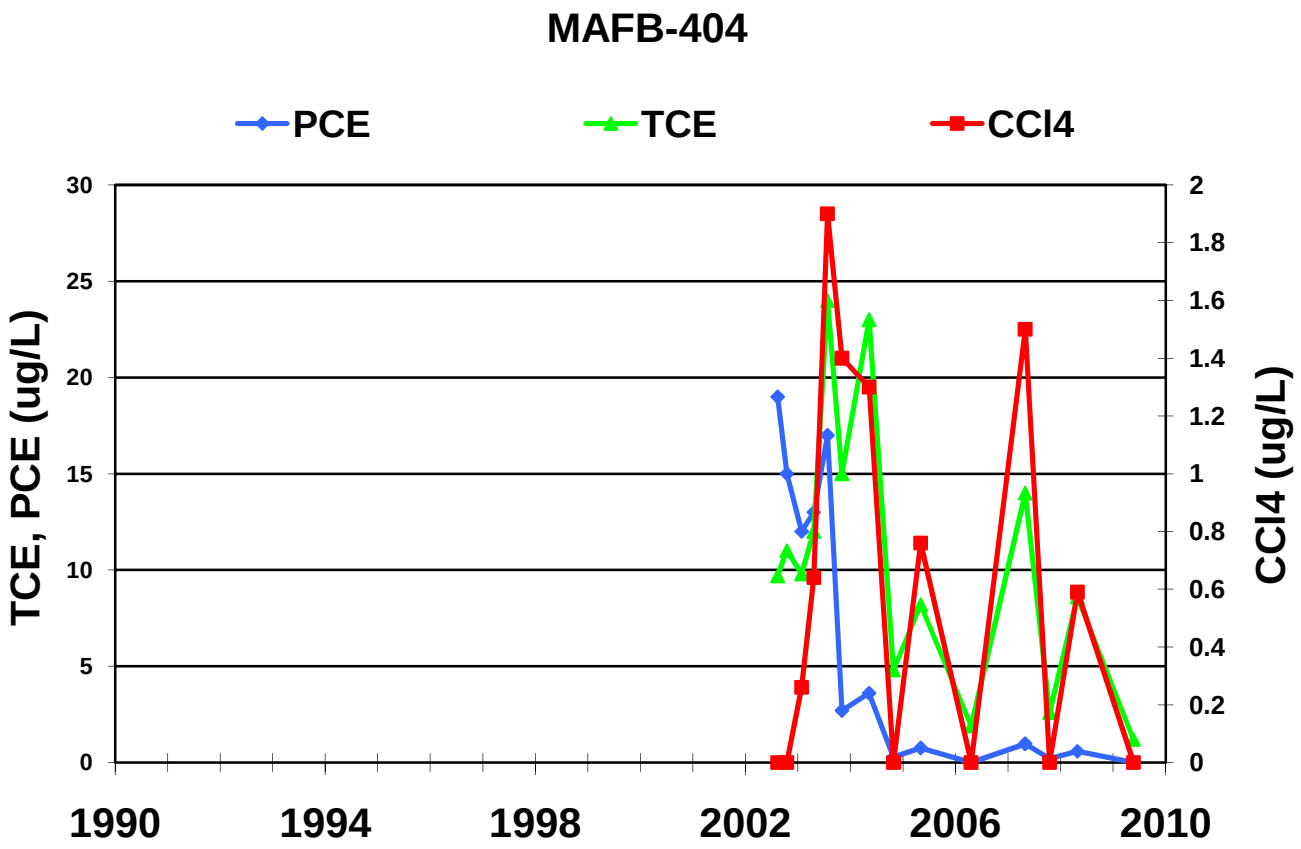


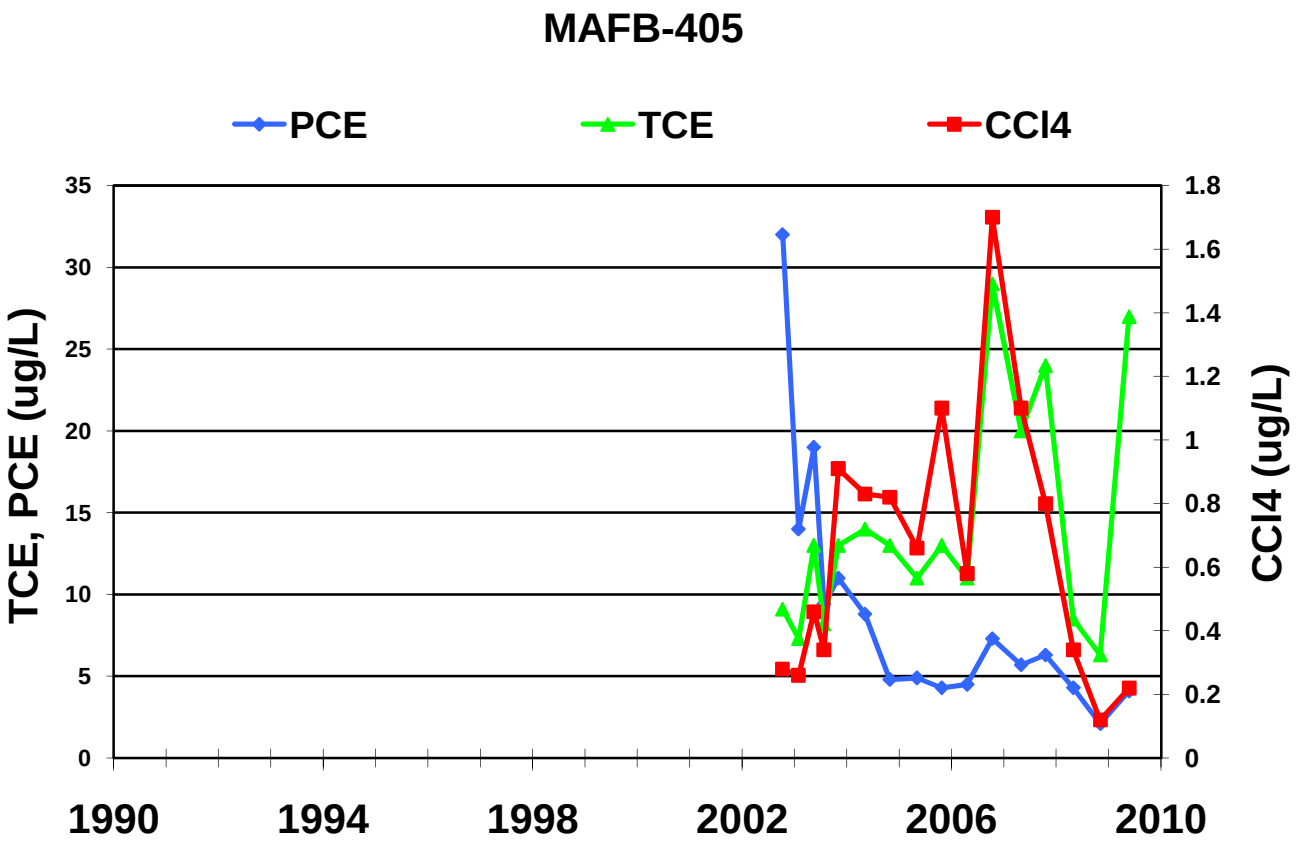
MAFB-401

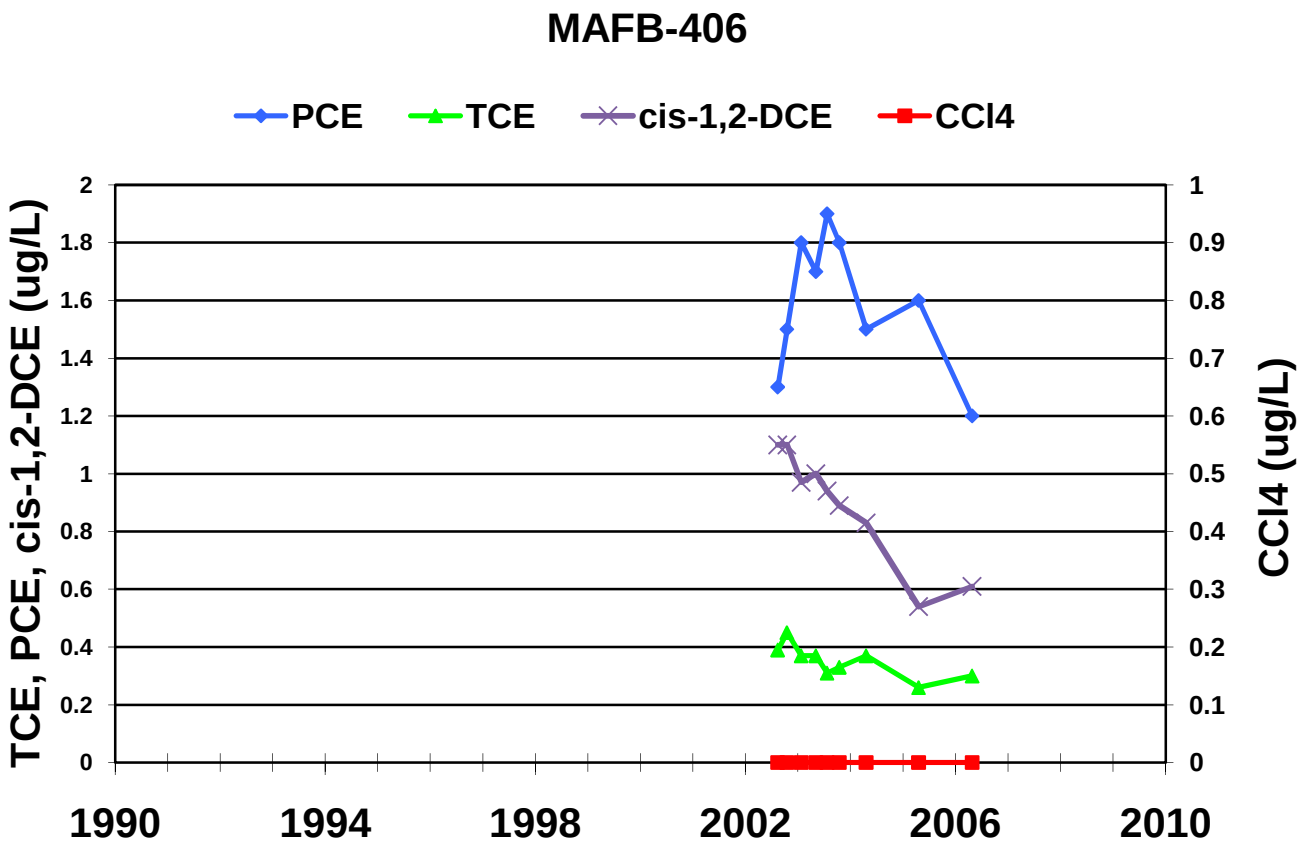


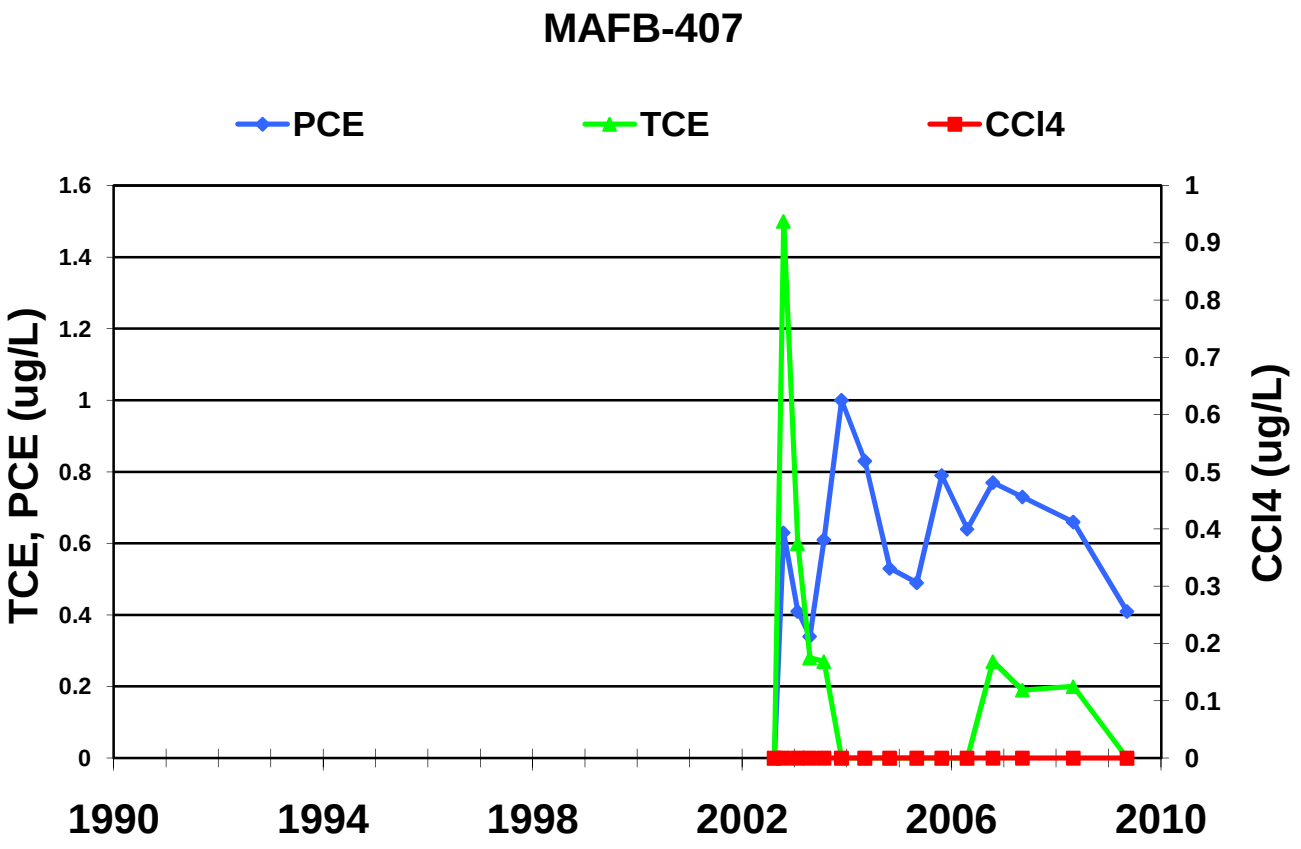

MAFB-402
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

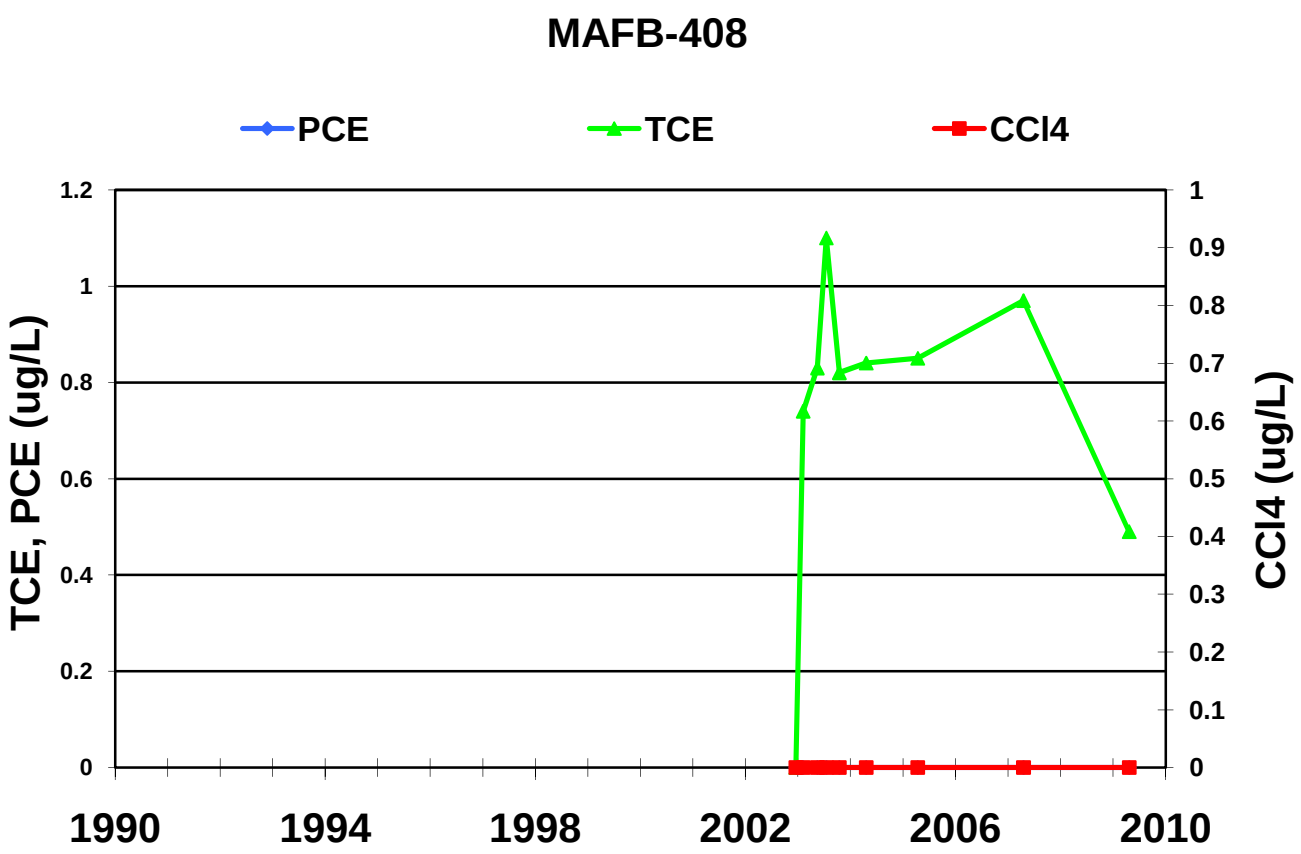

MAFB-403
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

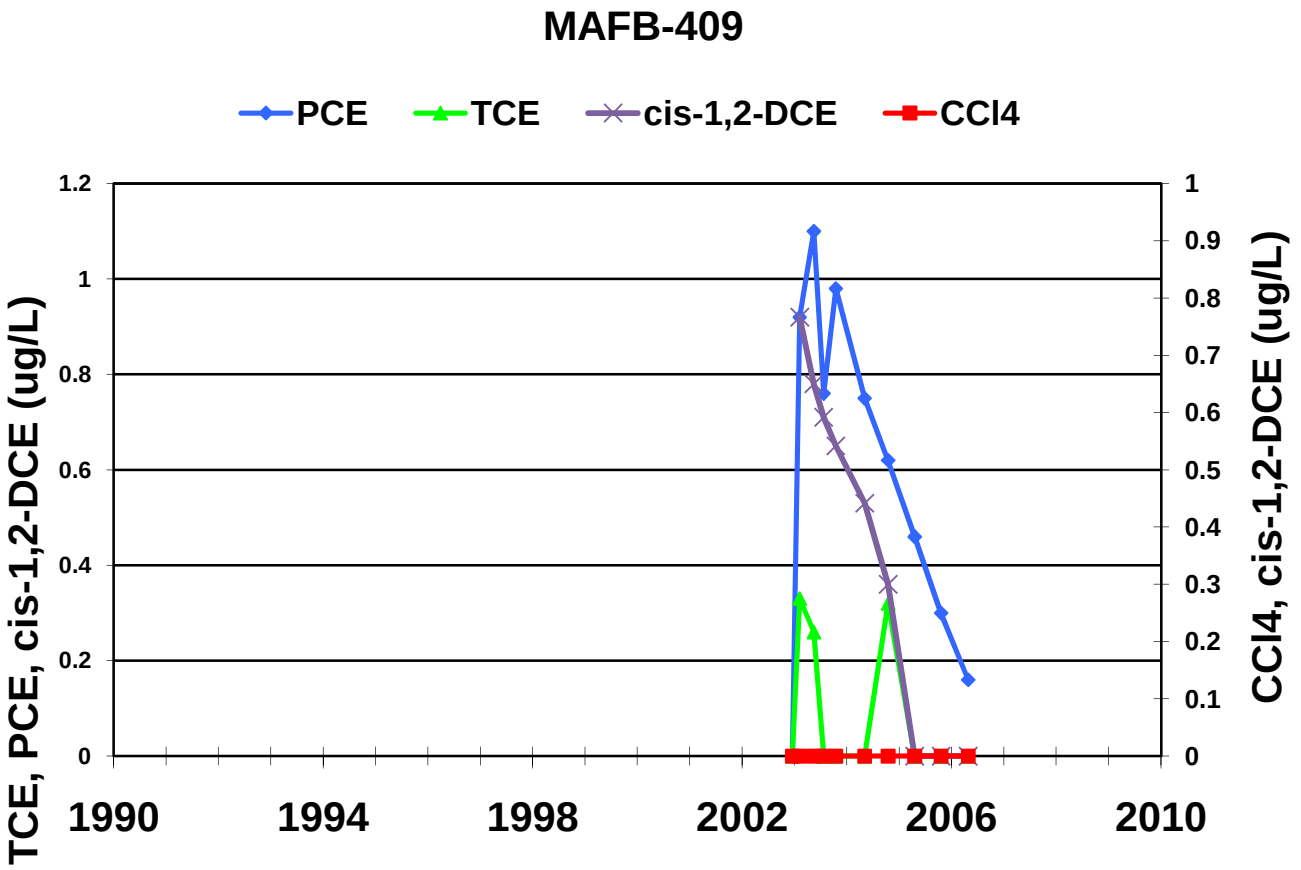

MAFB-404
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1990
1994
1998
2002
2006
2010


MAFB-405
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
1990
1994
1998
2002
2006
2010

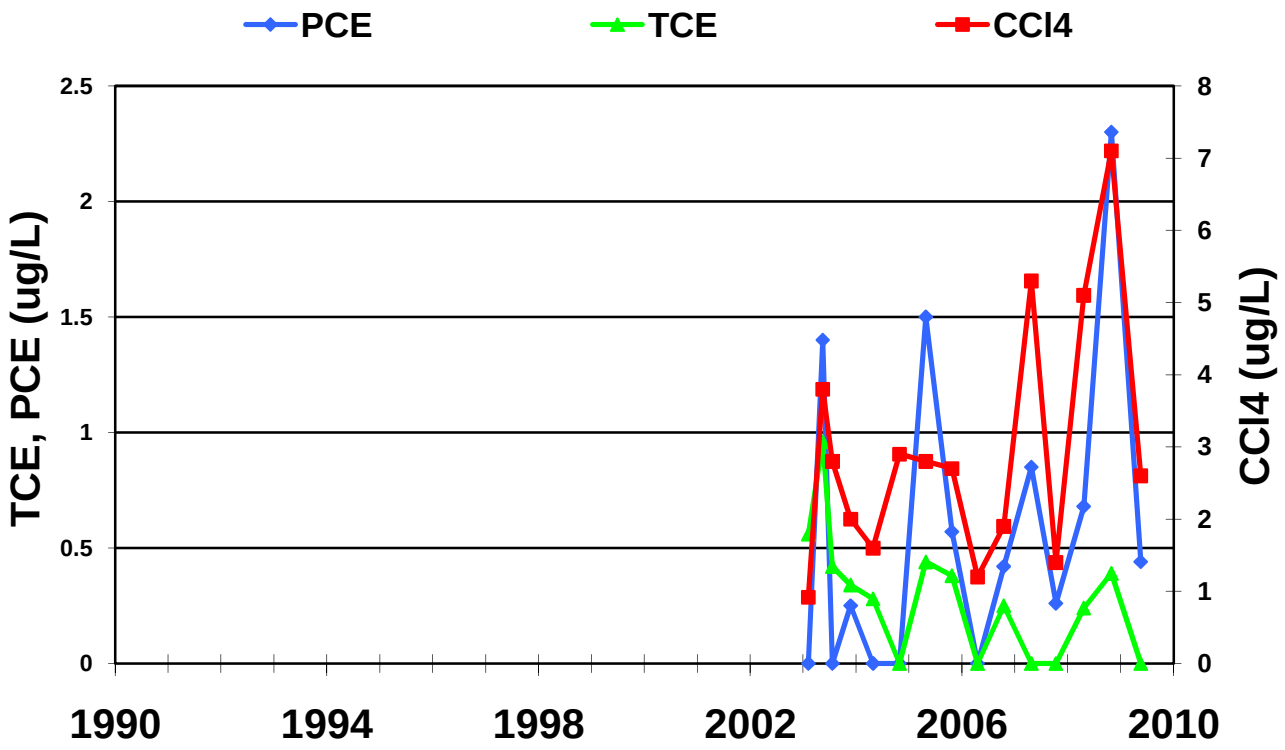

MAFB-406
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-407
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

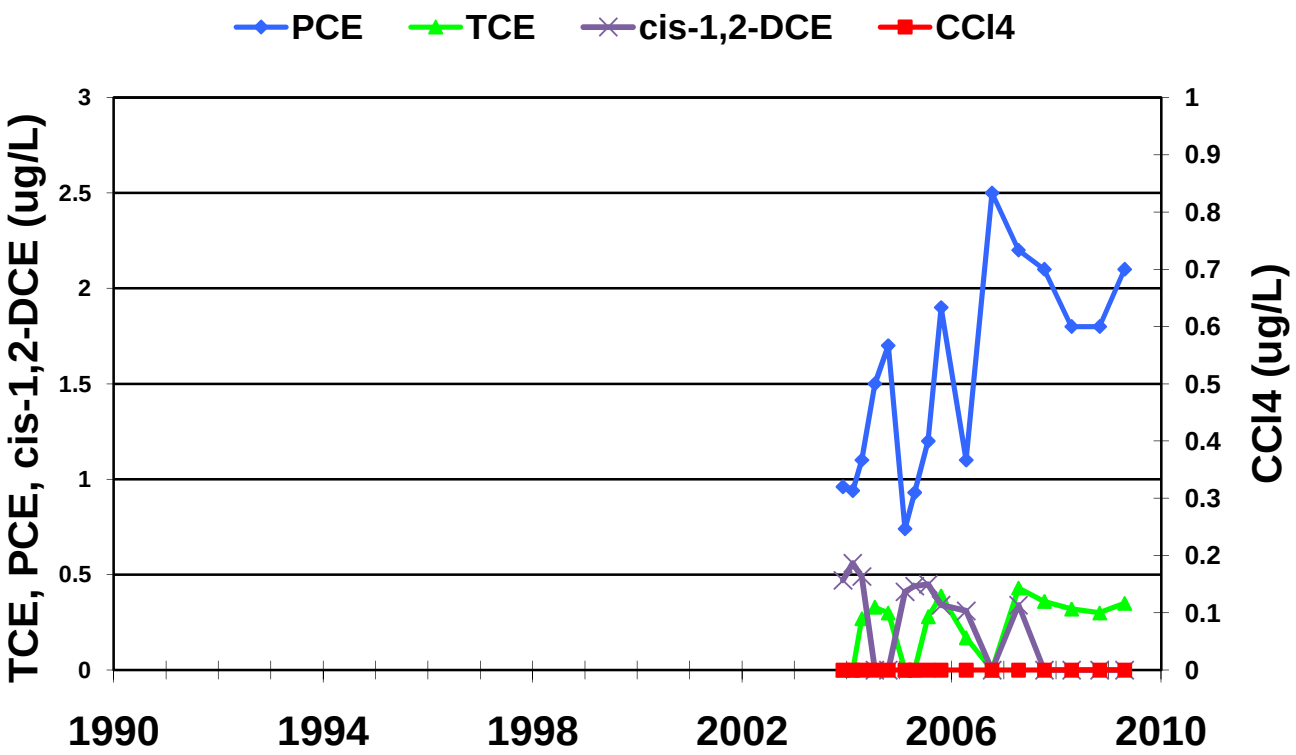

MAFB-408
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MAFB-409
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4, cis-1,2-DCE (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

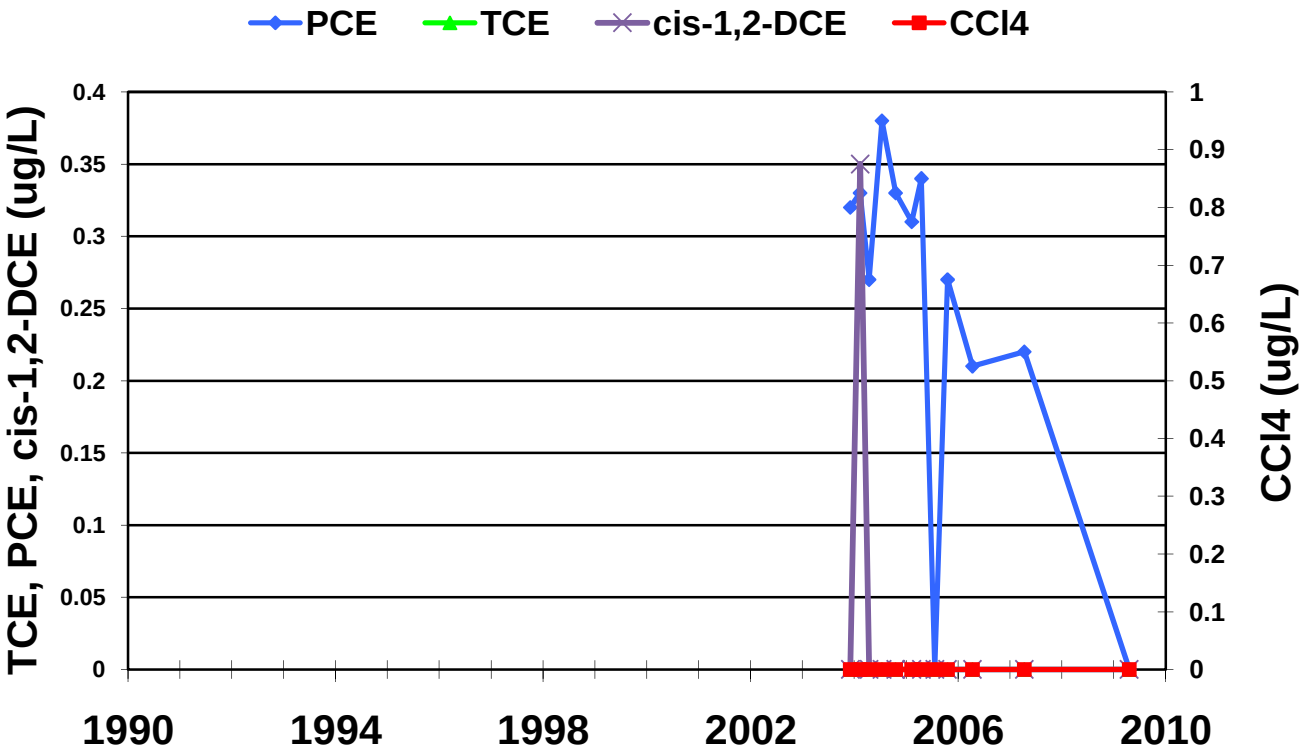
MAFB-410



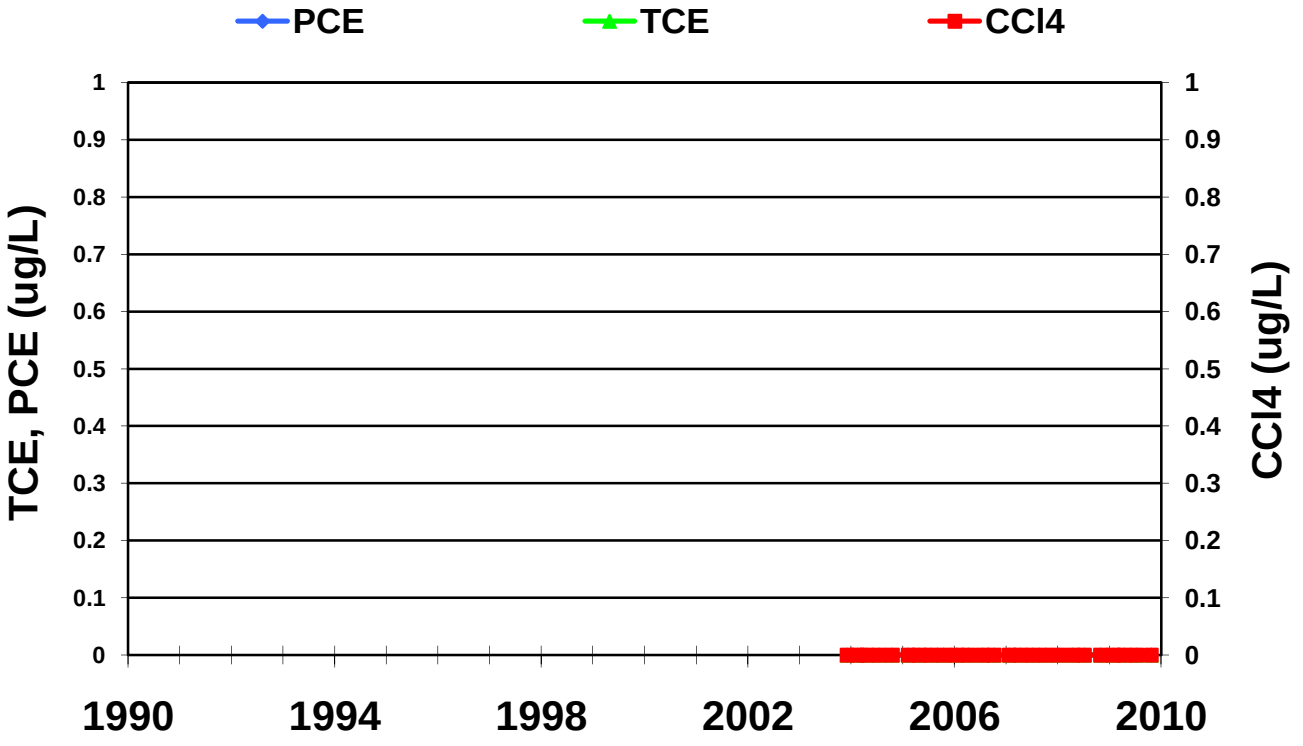
MAFB-411

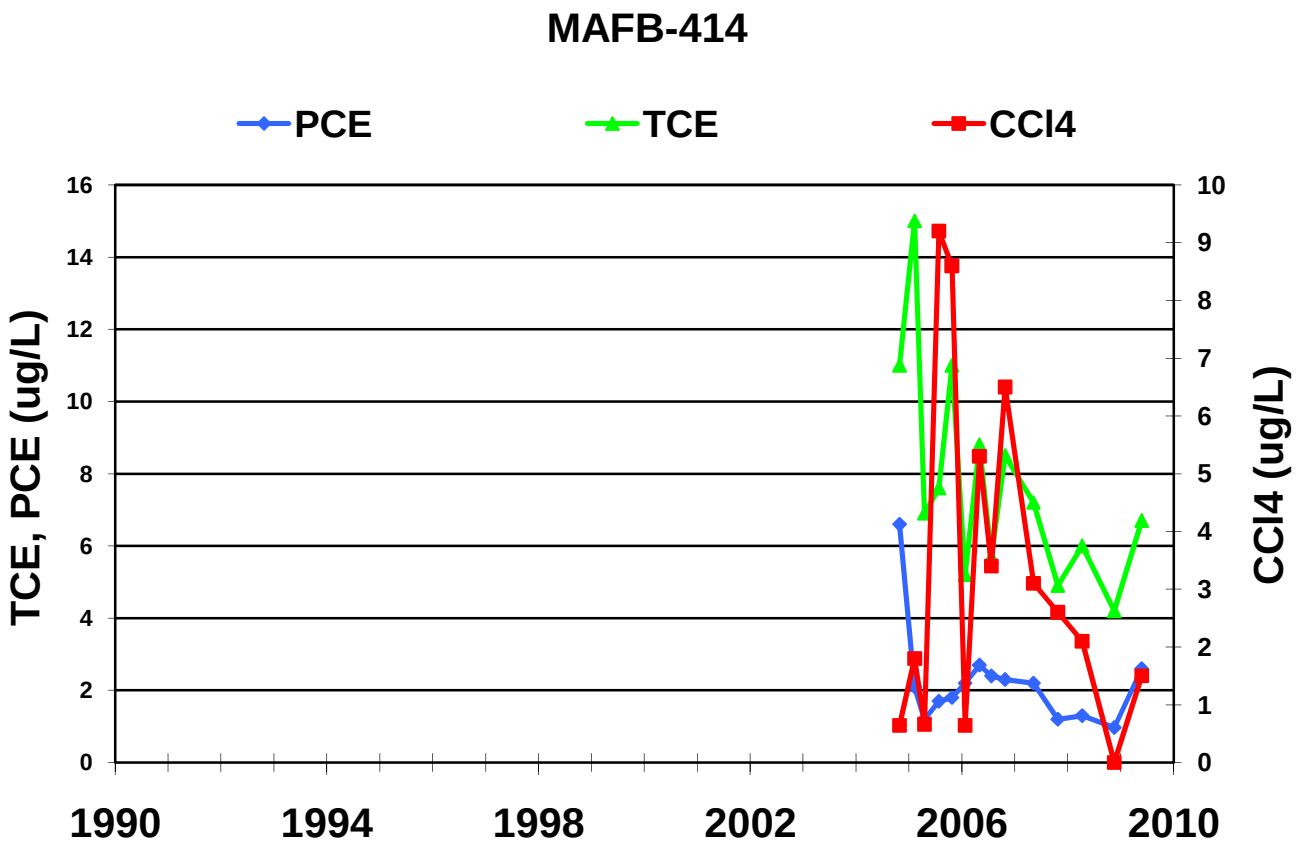


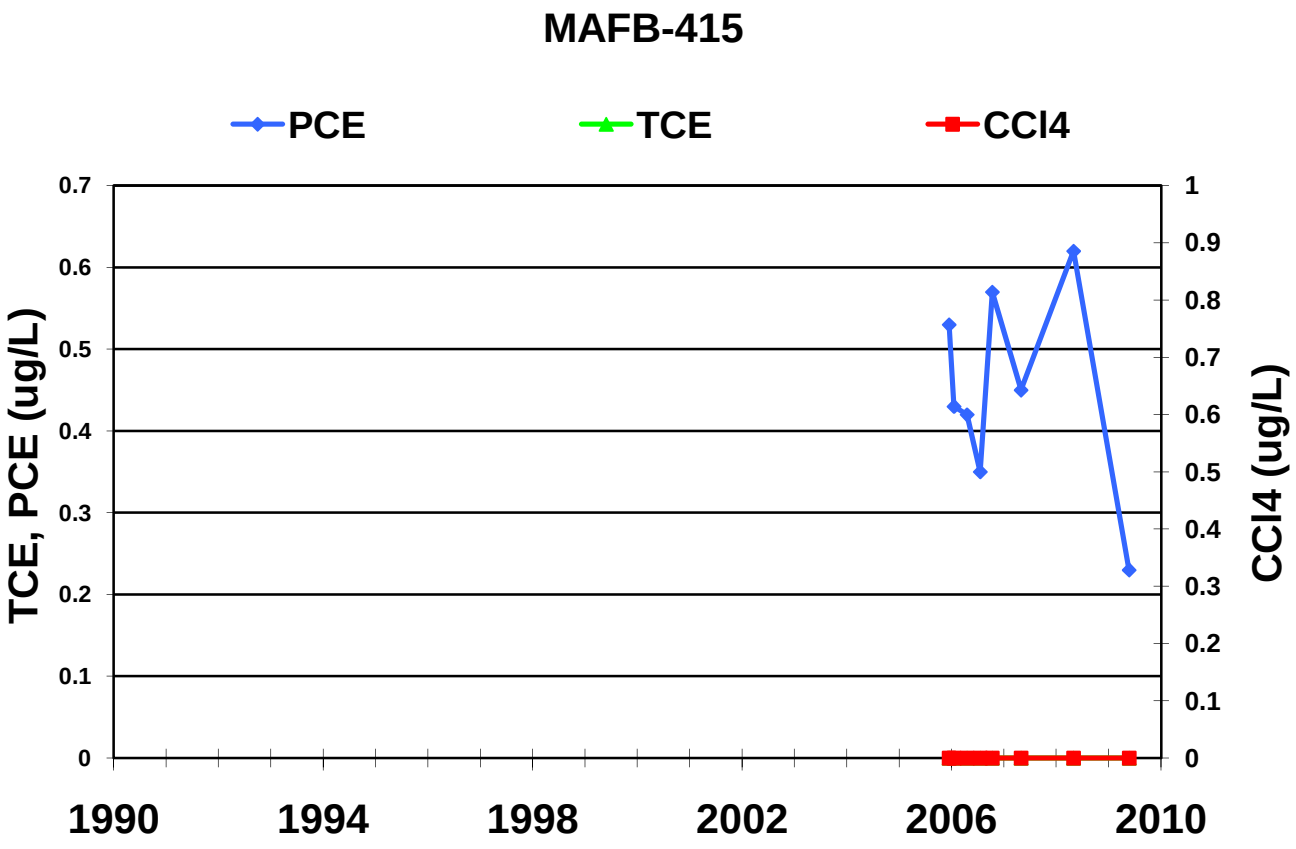
MAFB-412

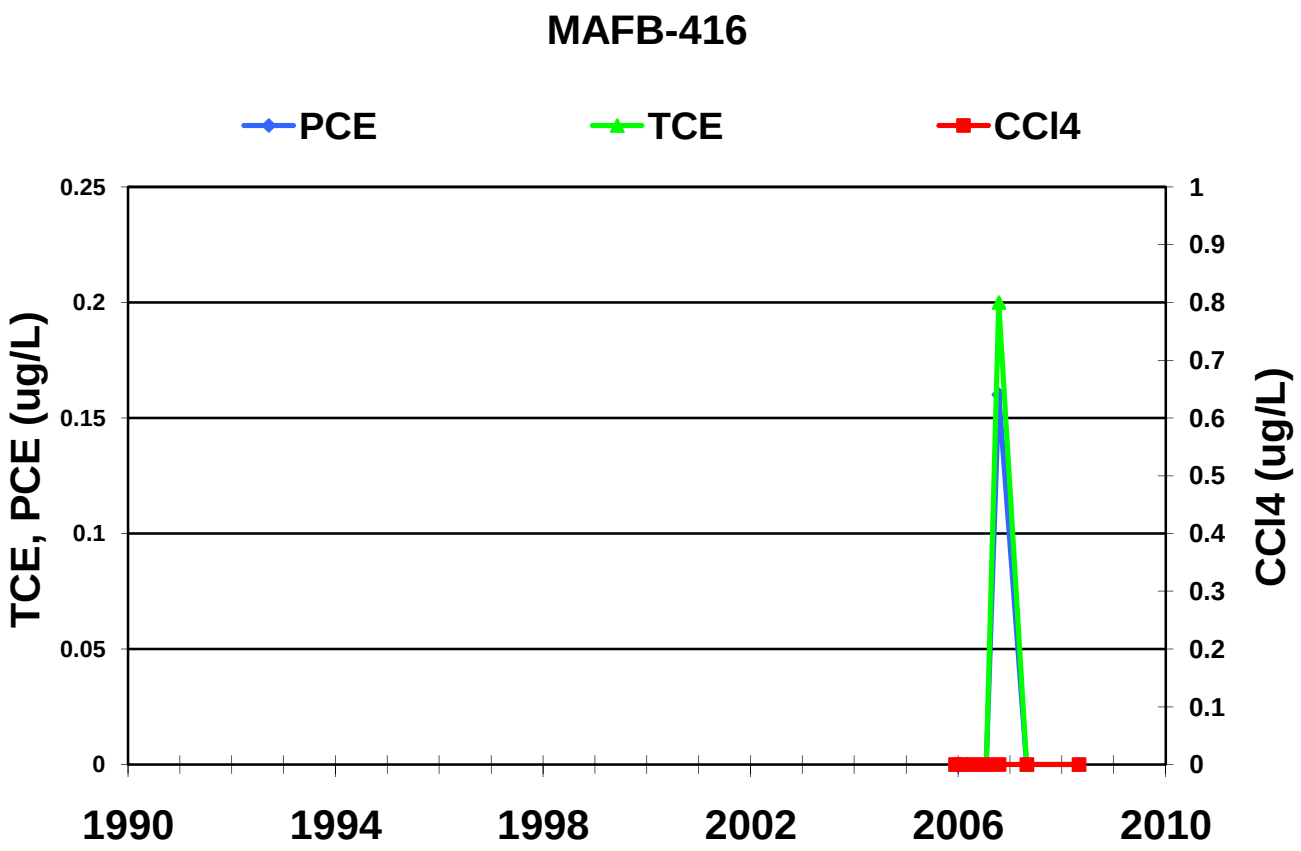


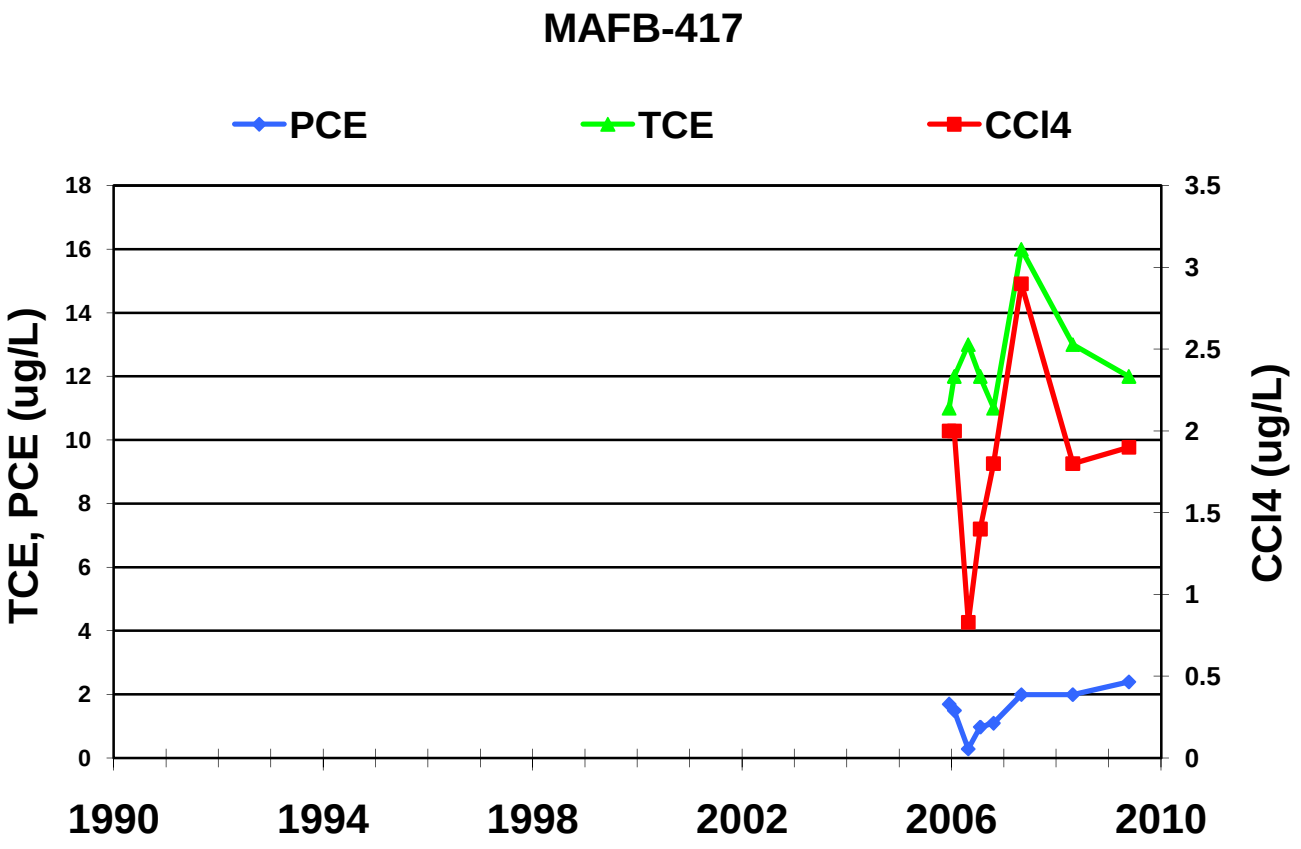
MAFB-413

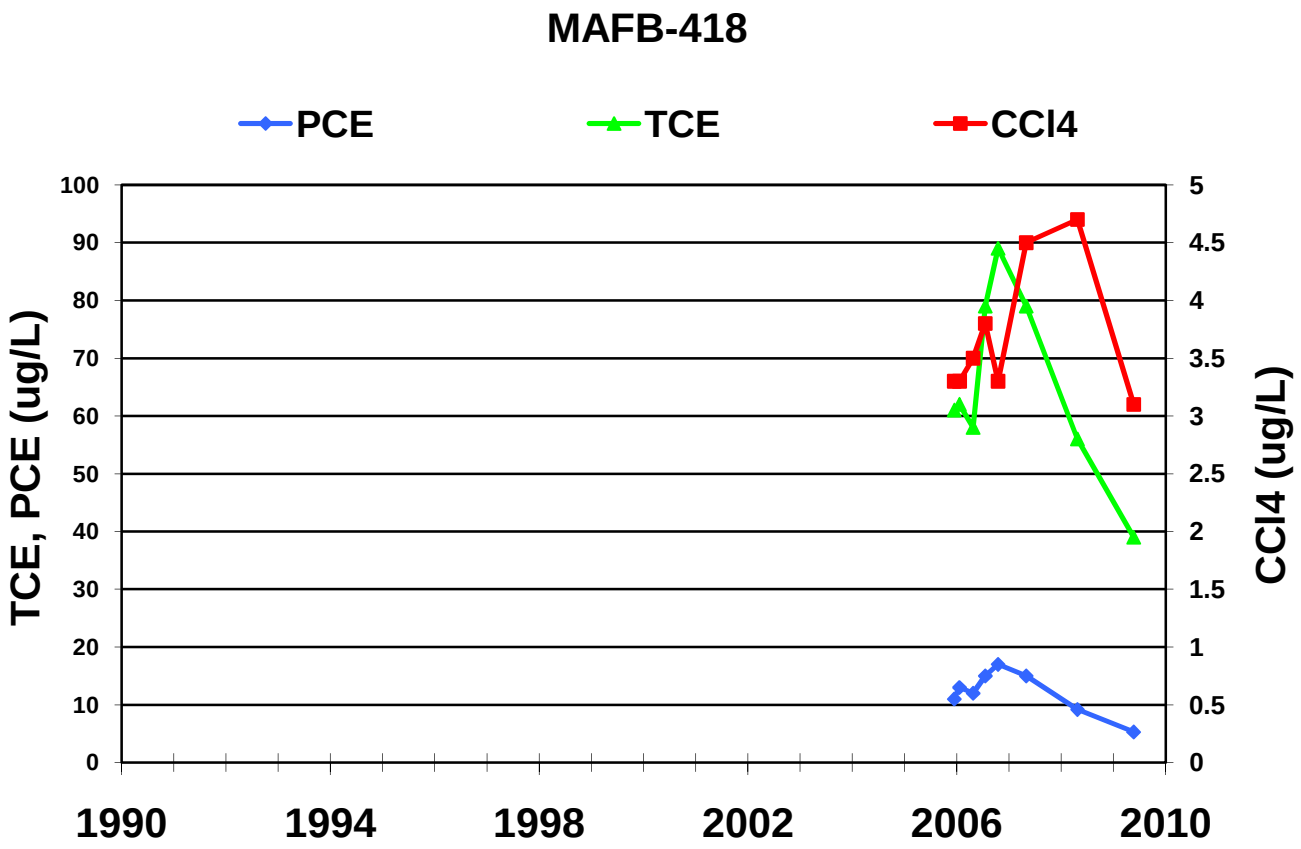


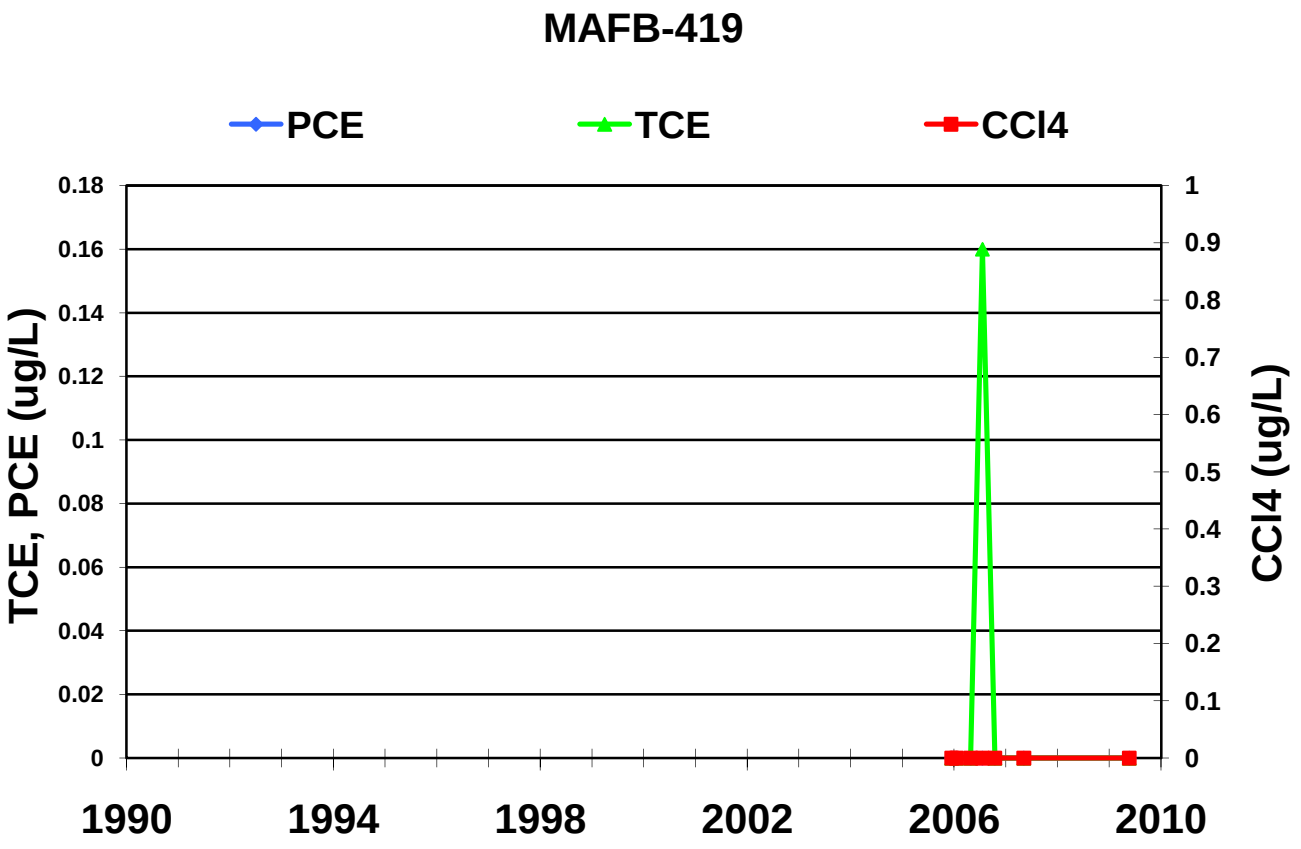

MAFB-414
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
0
1
2
3
4
5
6
7
8
9
10
1990
1994
1998
2002
2006
2010

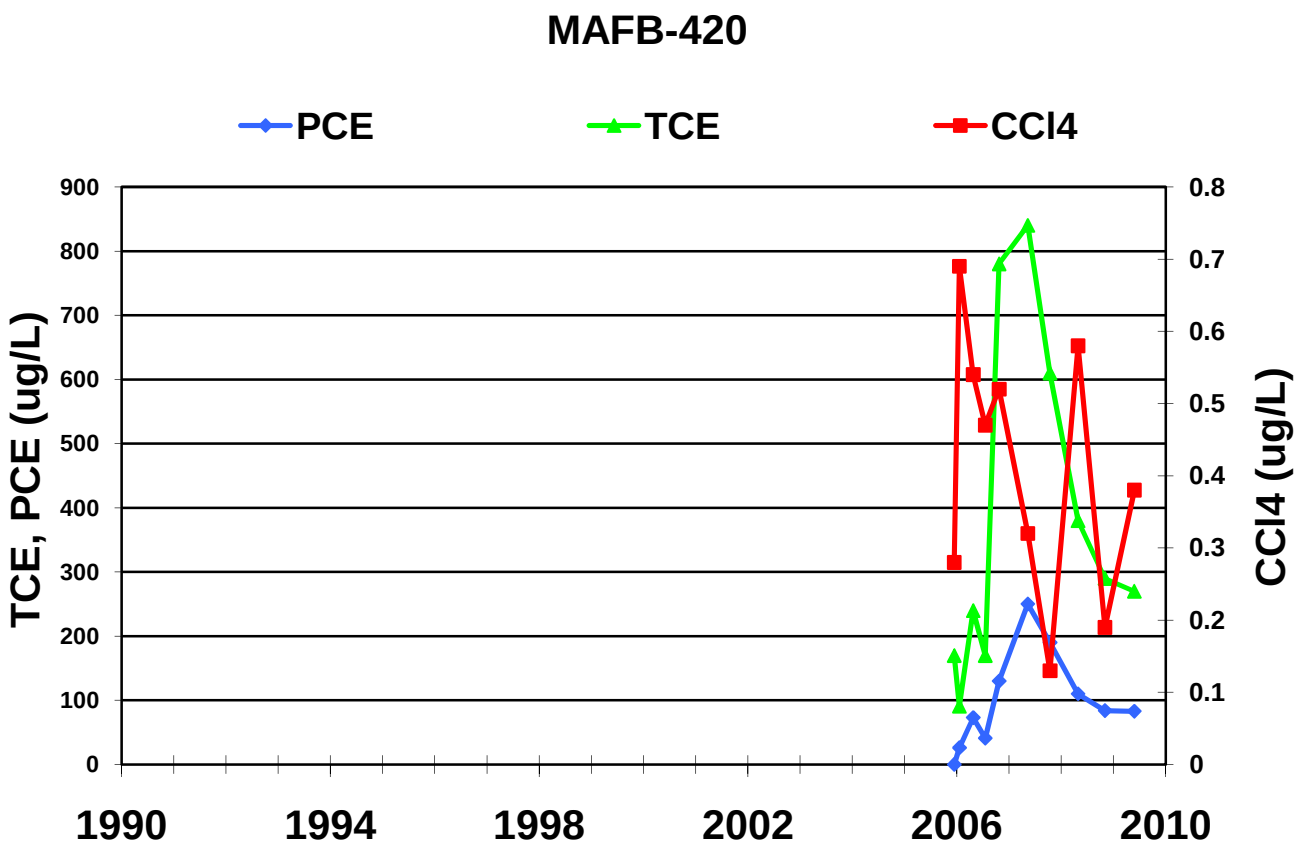

MAFB-415
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

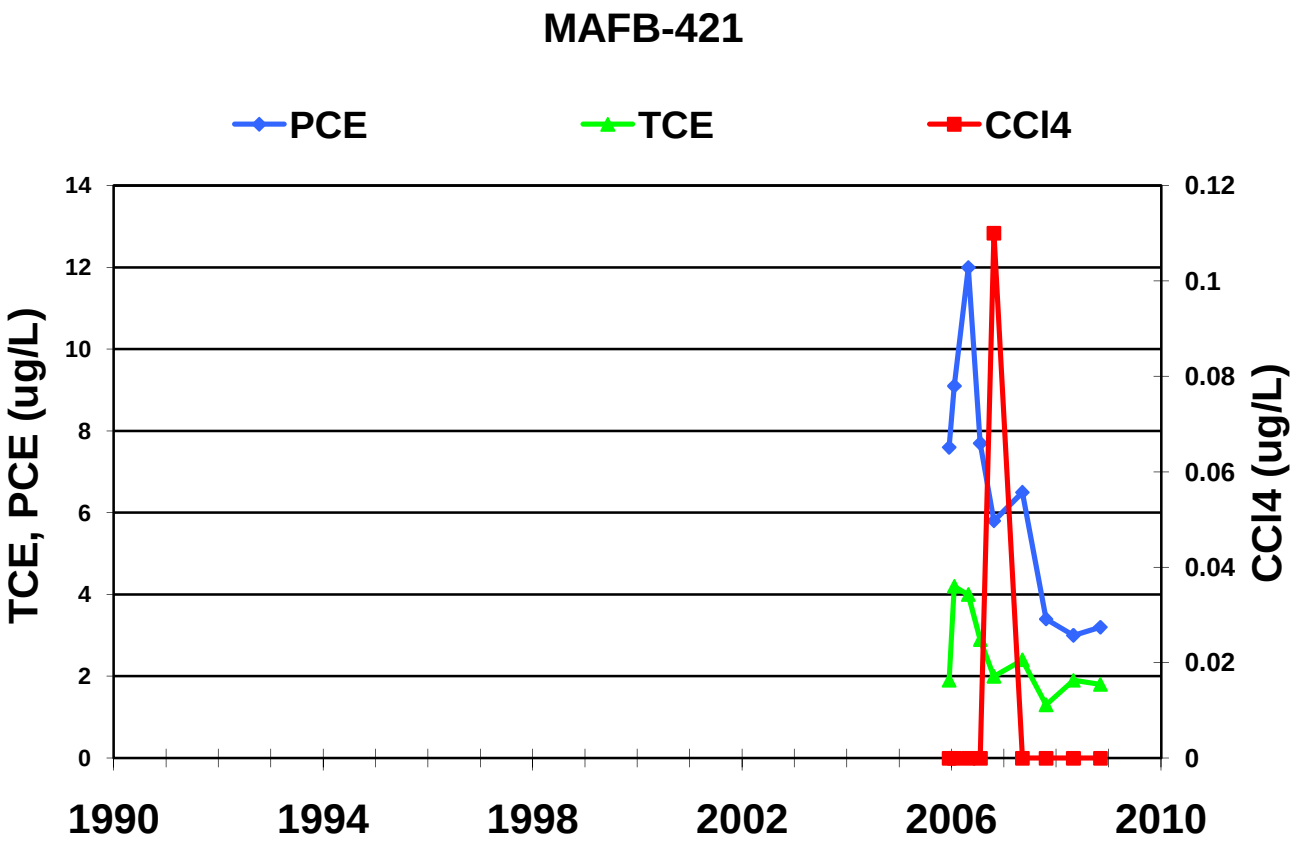

MAFB-416
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

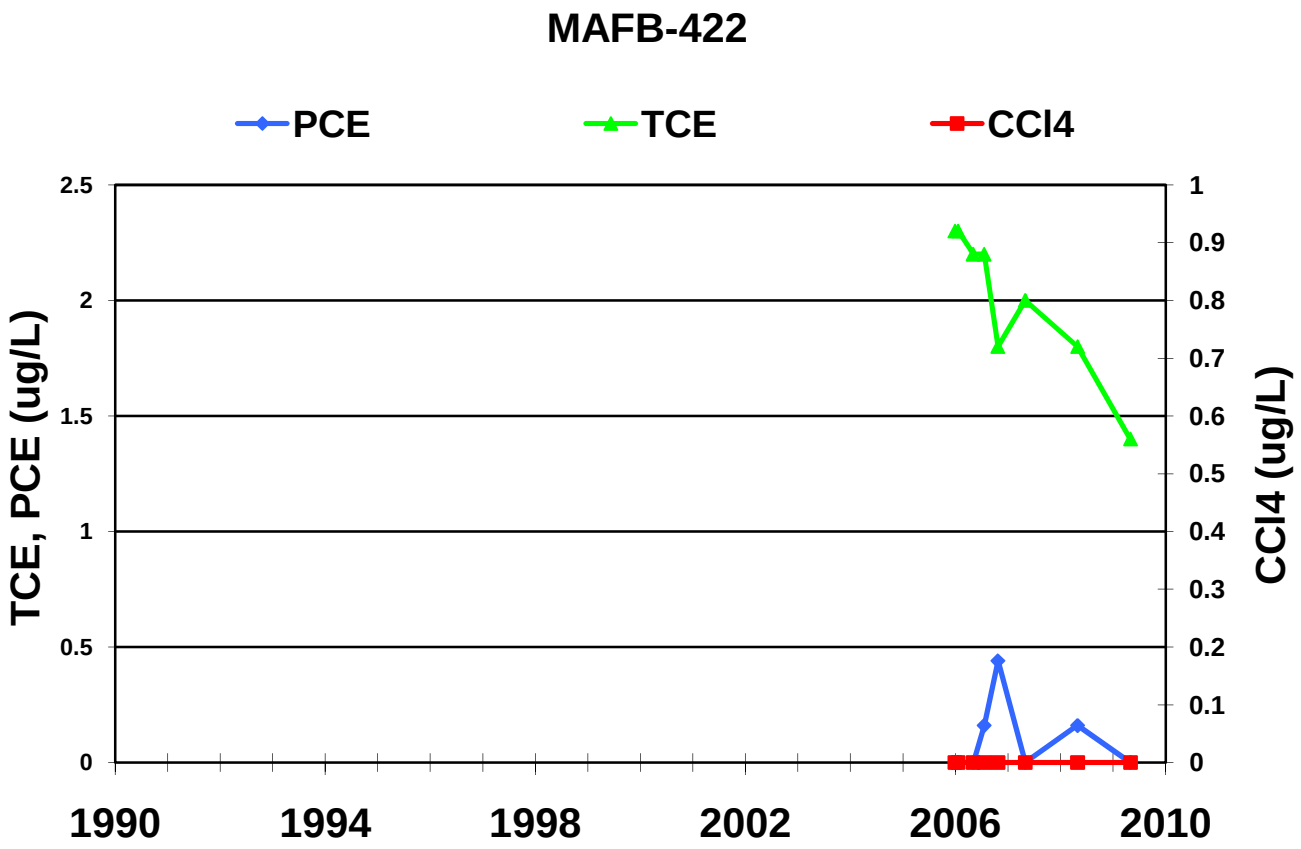

MAFB-417
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

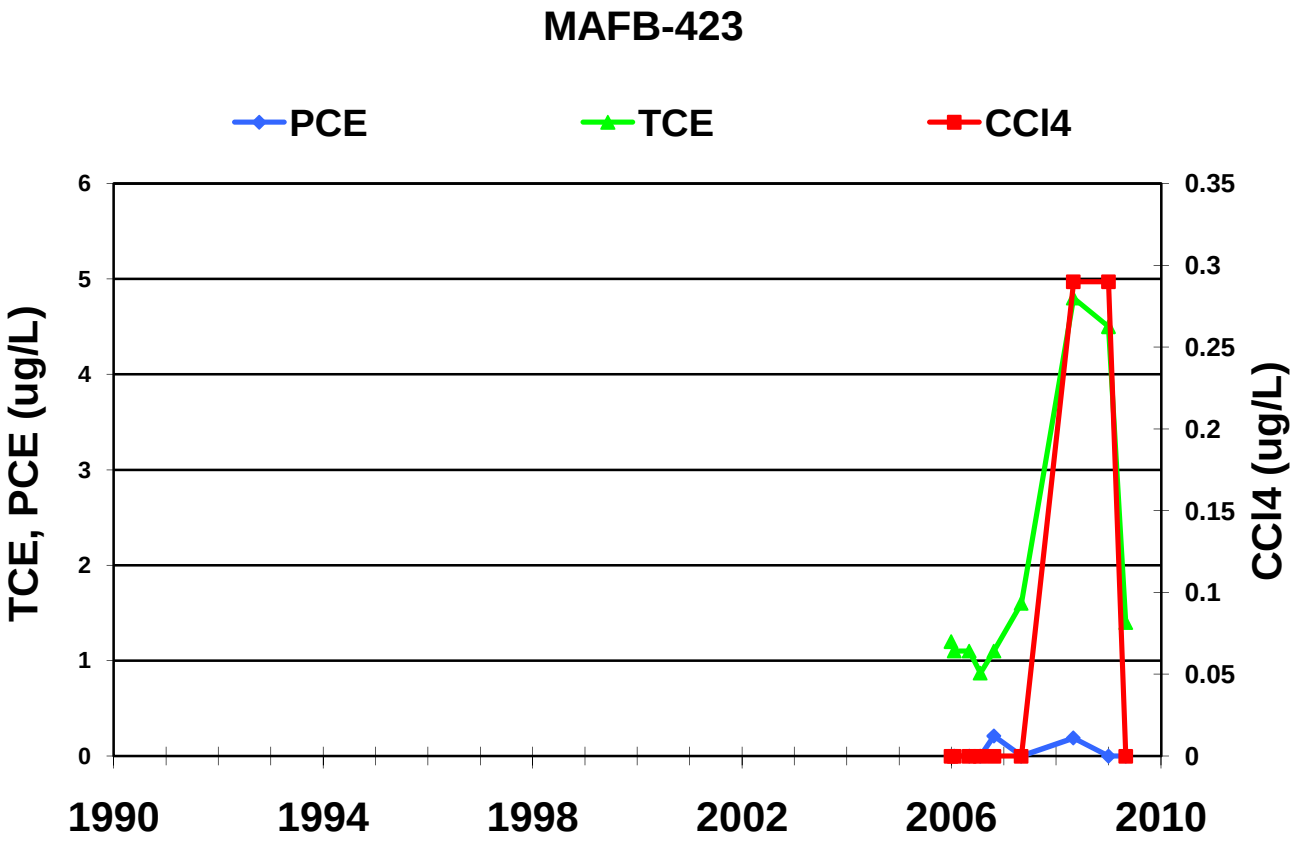

MAFB-418
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
100
90
80
70
60
50
40
30
20
10
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

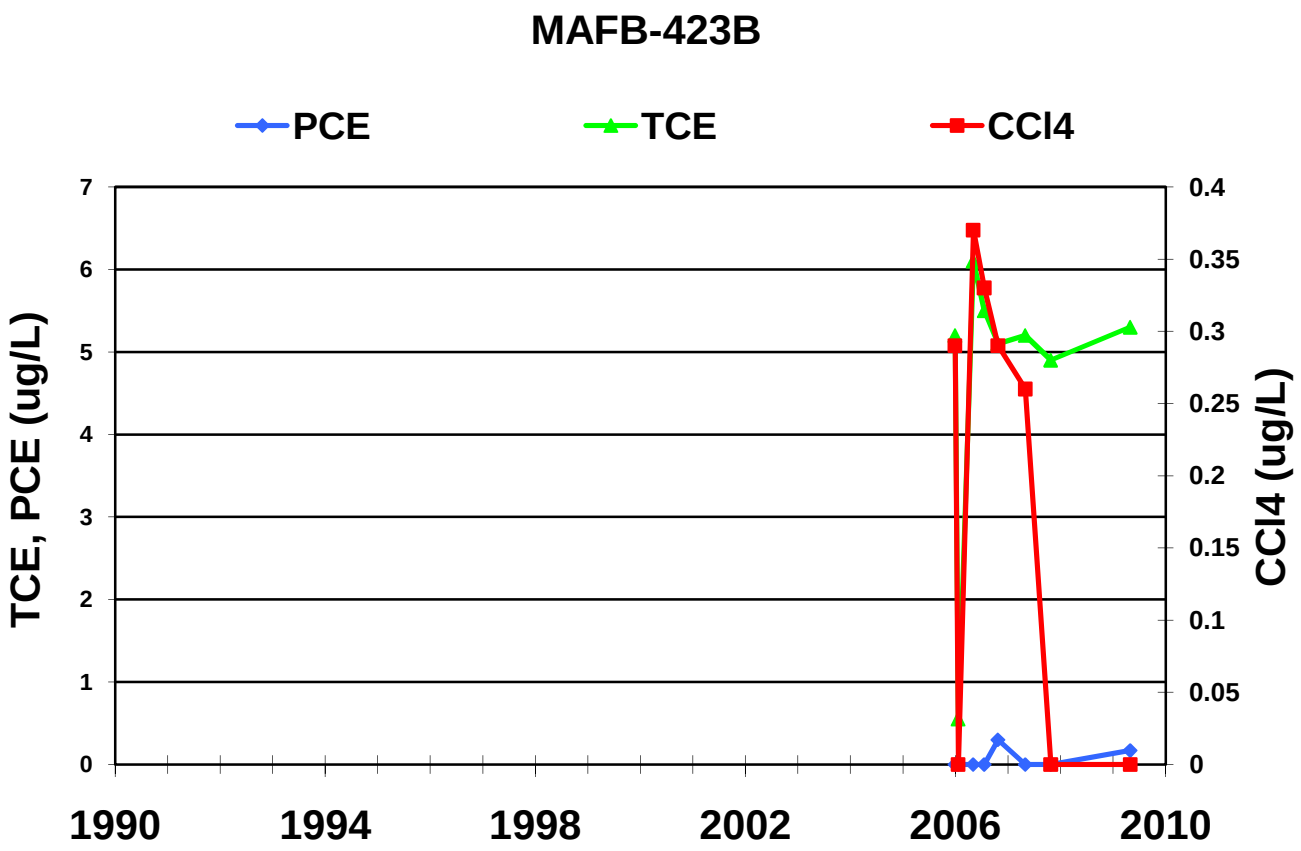

MAFB-419
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

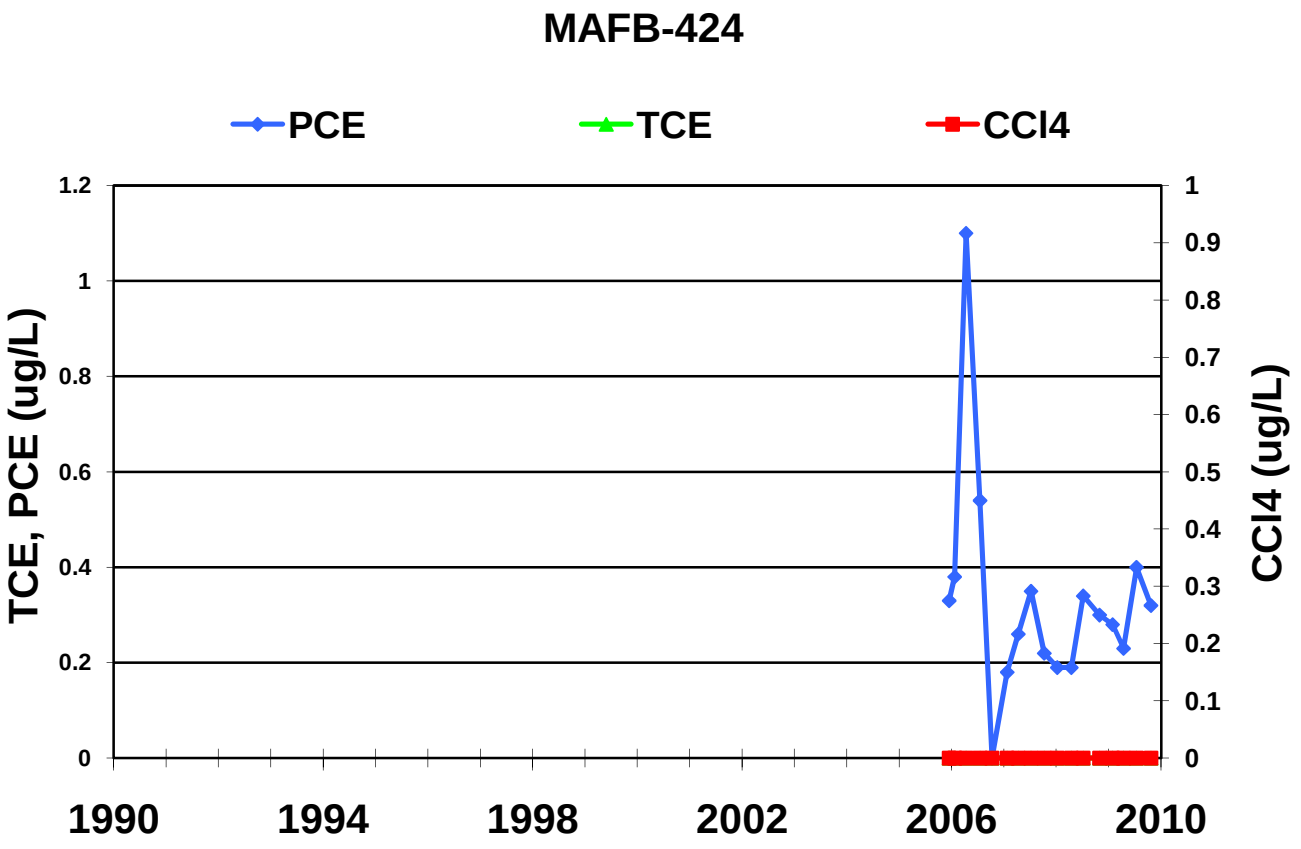

MAFB-420
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
900
800
700
600
500
400
300
200
100
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

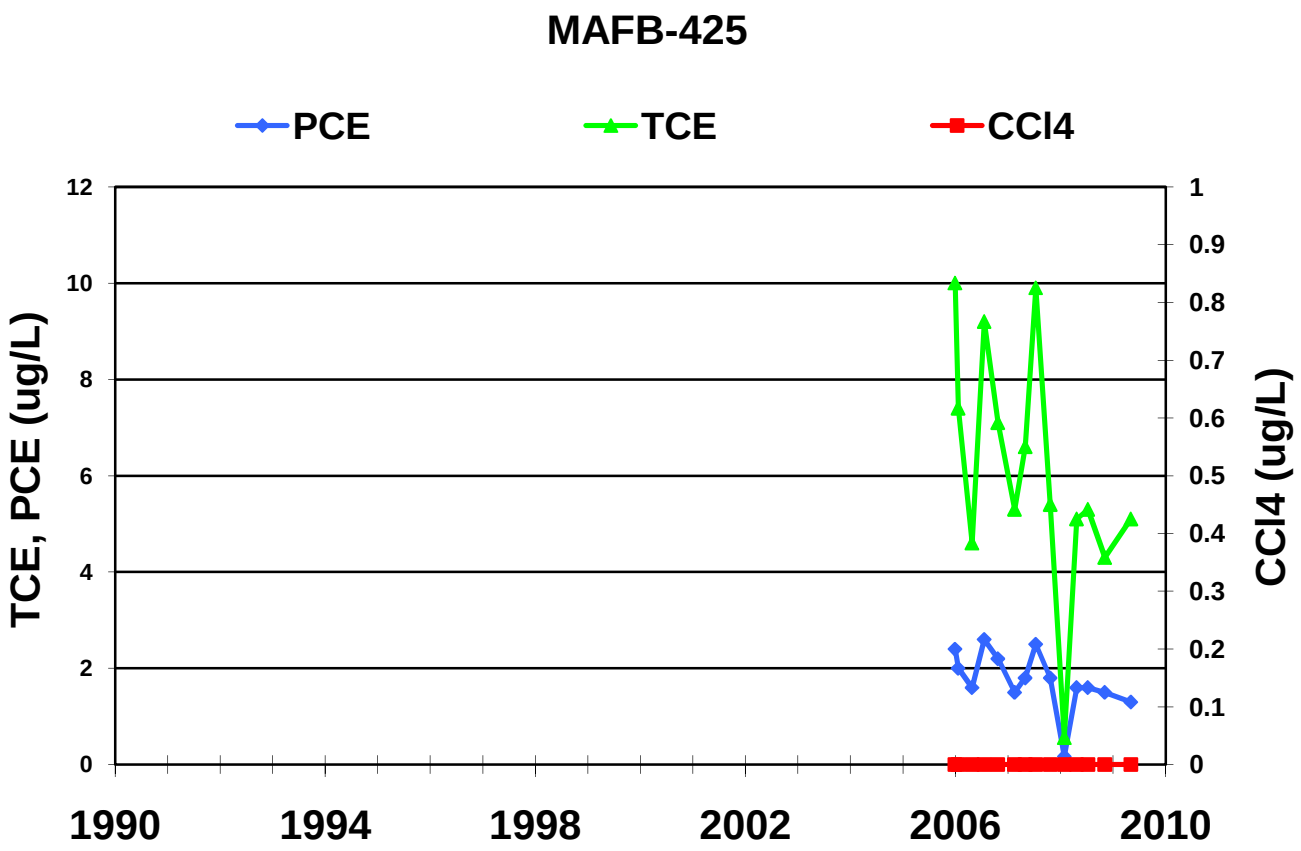

MAFB-421
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
0.12
0.1
0.08
0.06
0.04
0.02
0
1990
1994
1998
2002
2006
2010

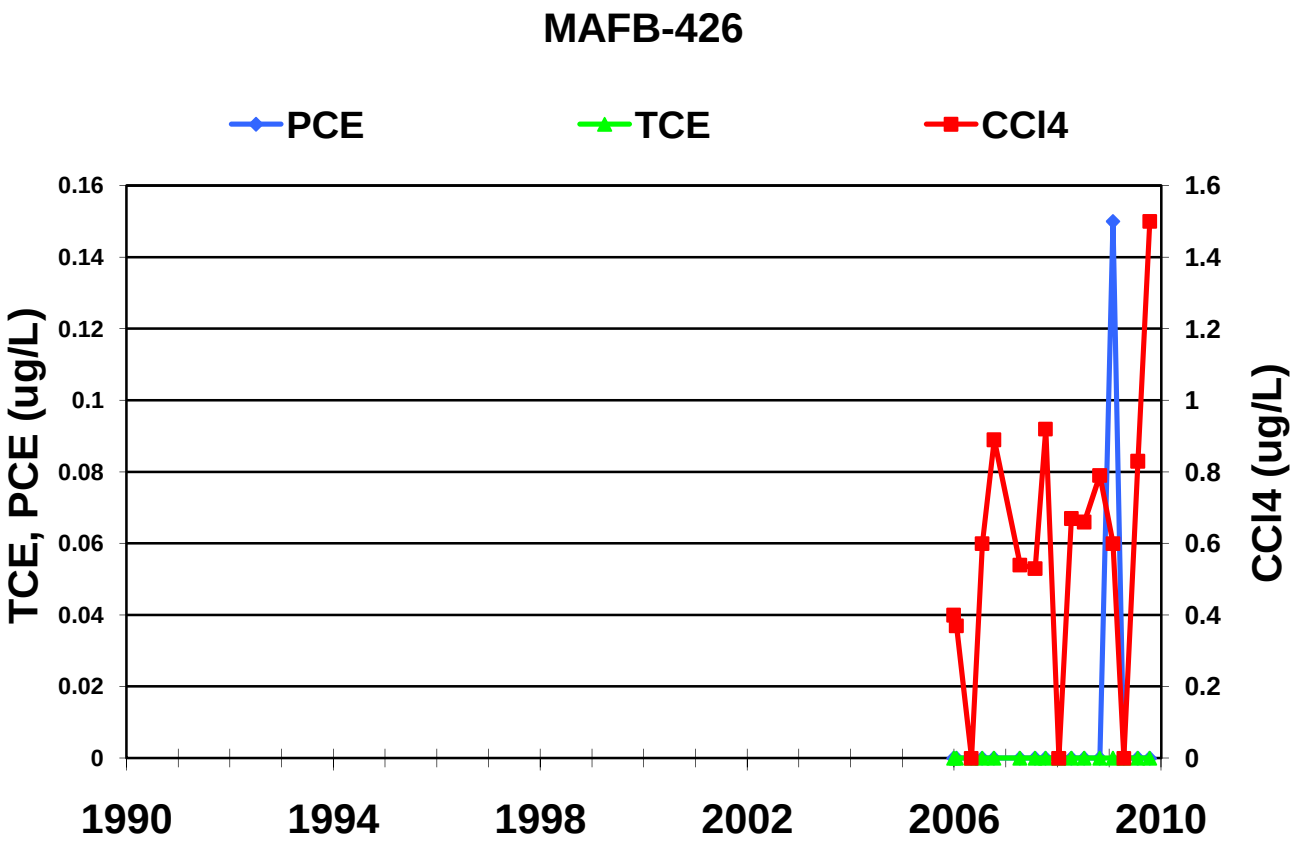

MAFB-422
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

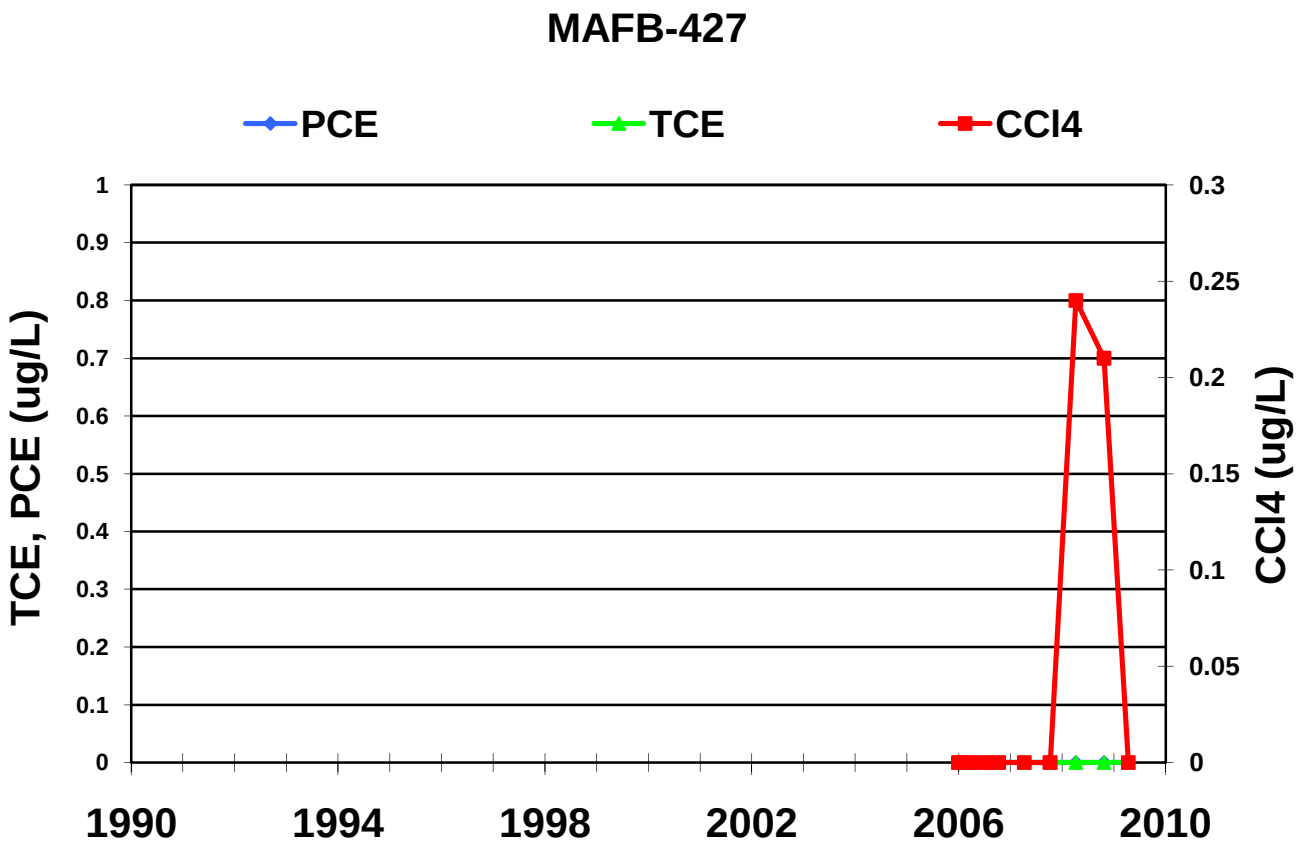

MAFB-423
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
6
5
4
3
2
1
0
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

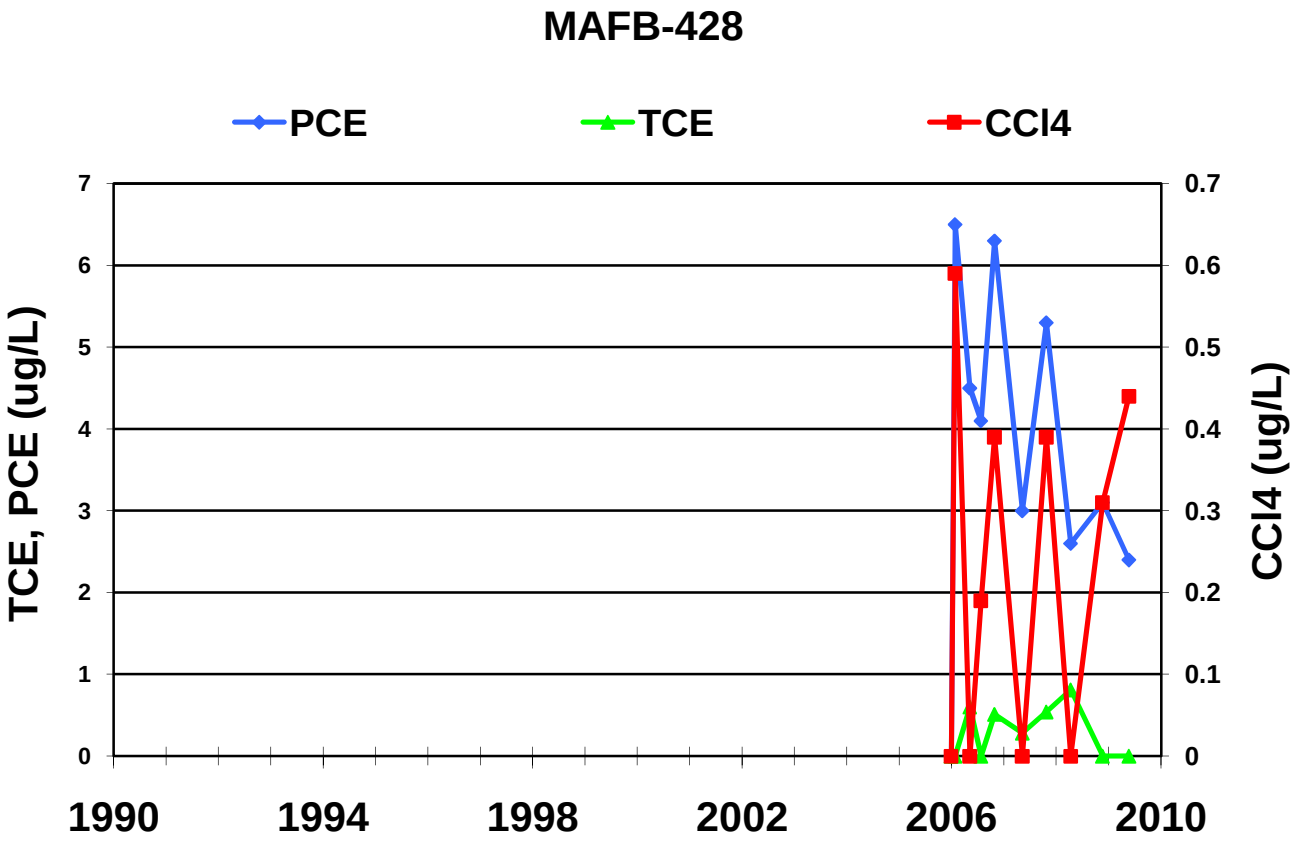

MAFB-423B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
1990
1994
1998
2002
2006
2010

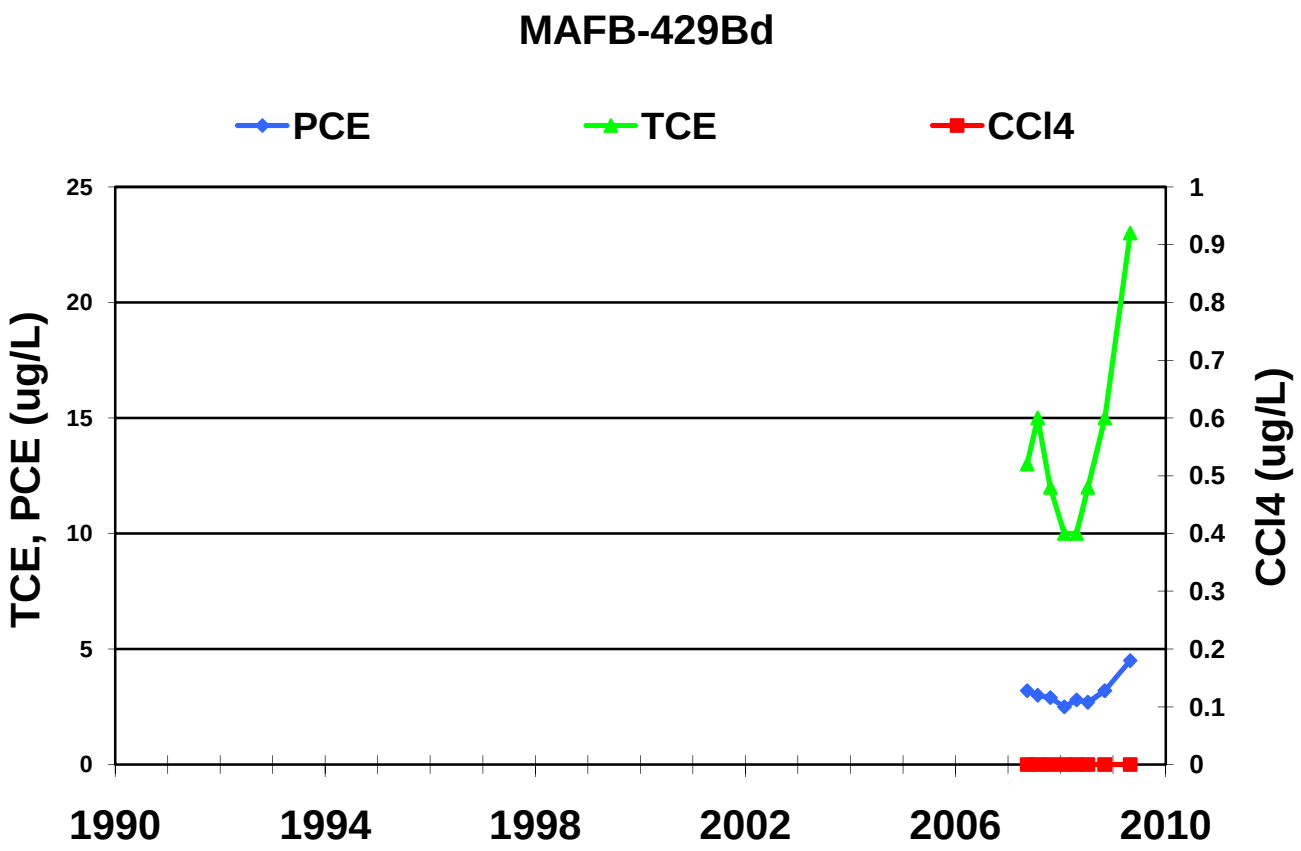

MAFB-424
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

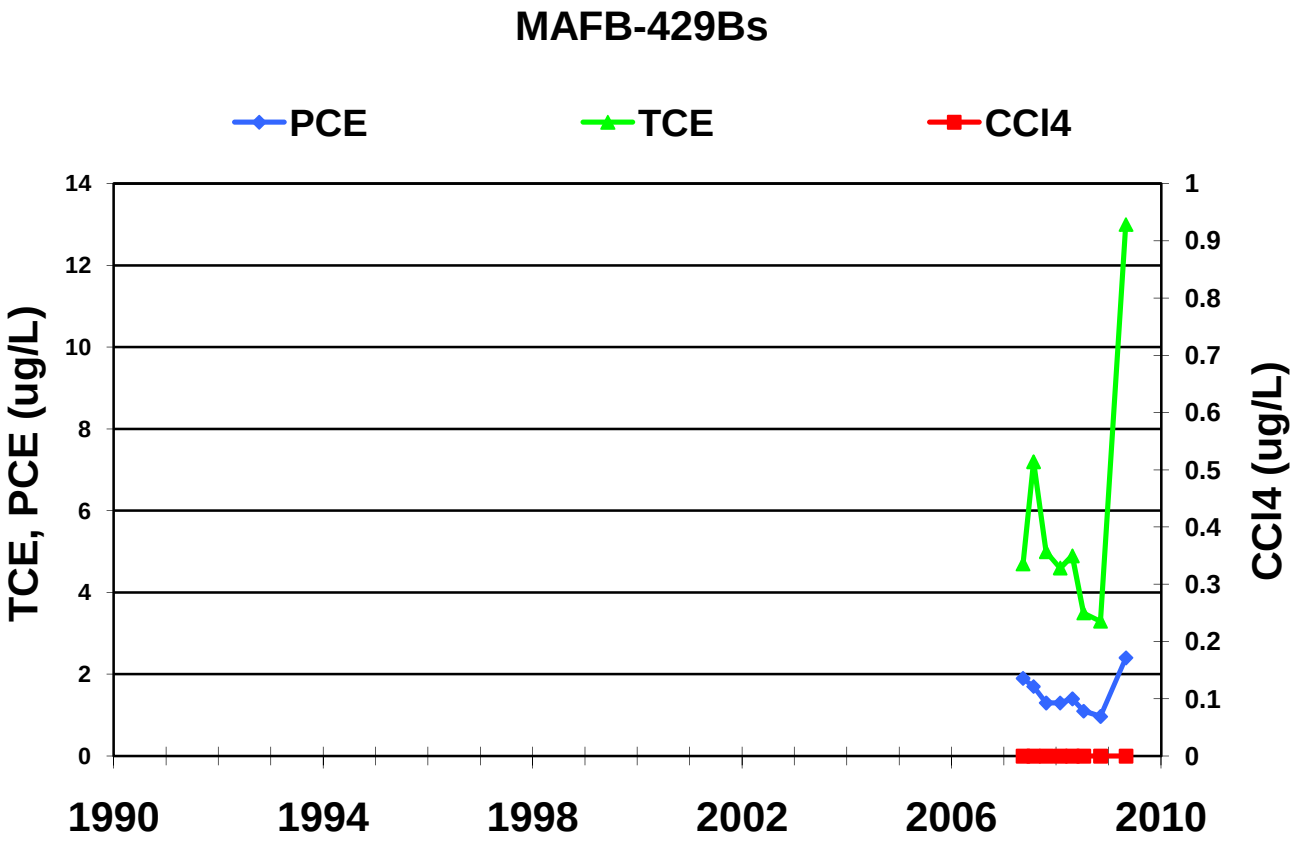

MAFB-425
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

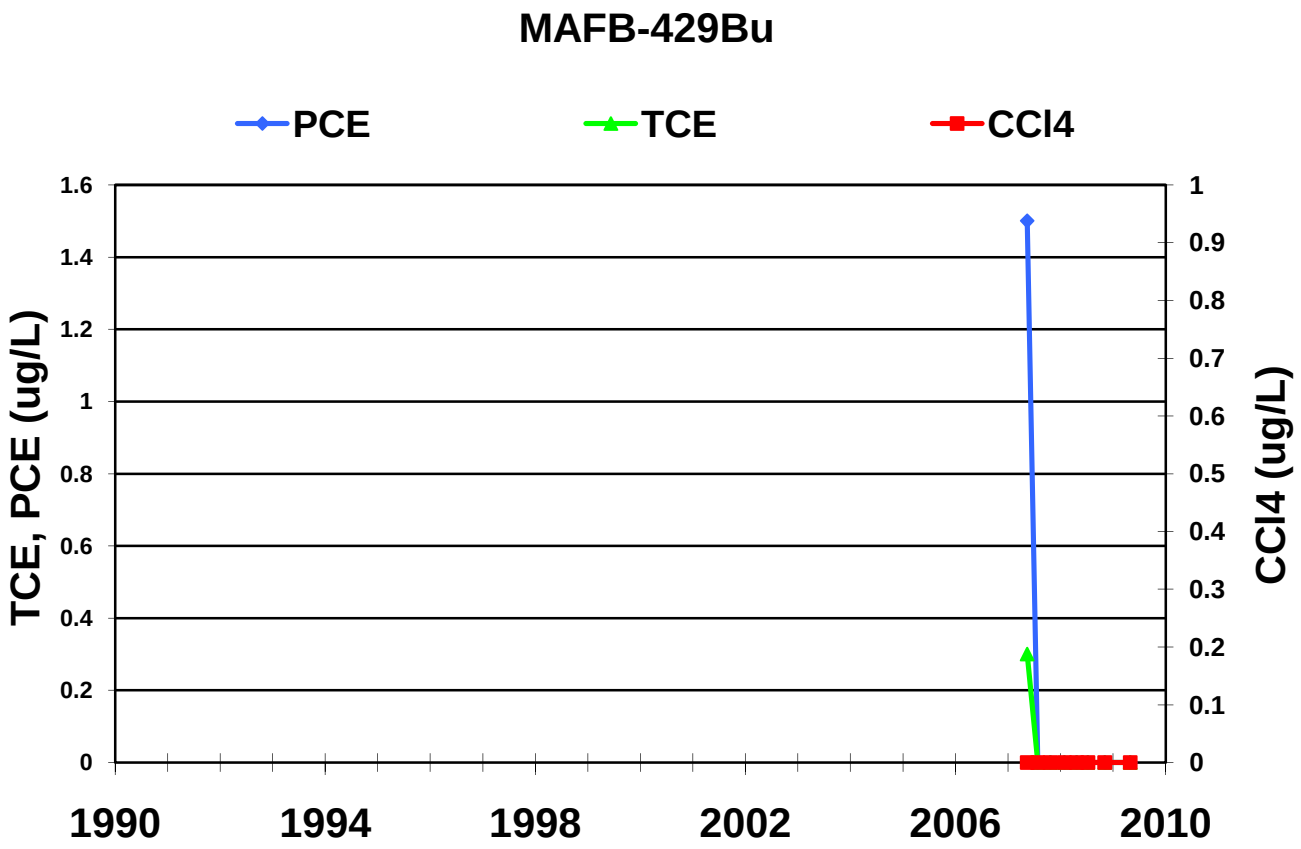

MAFB-426
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

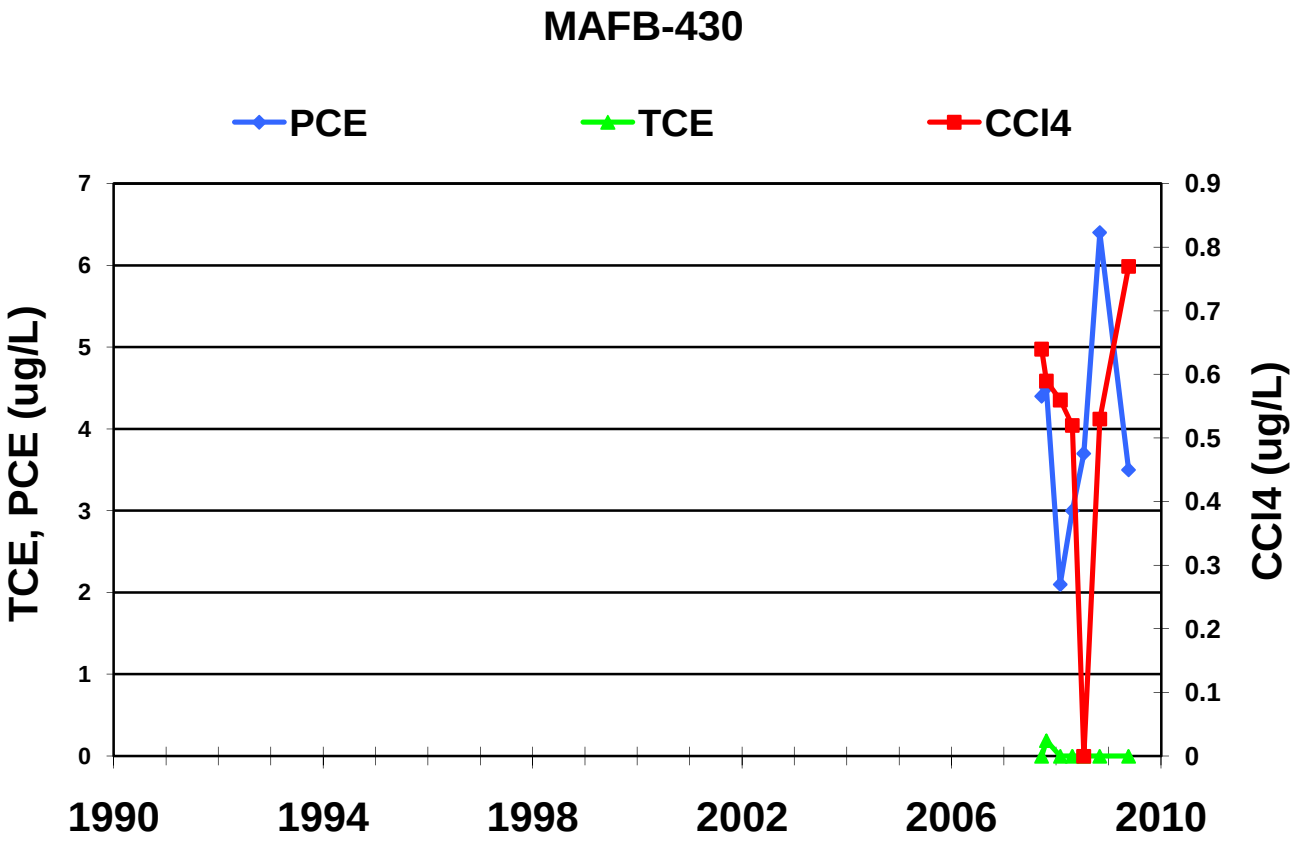

MAFB-427
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

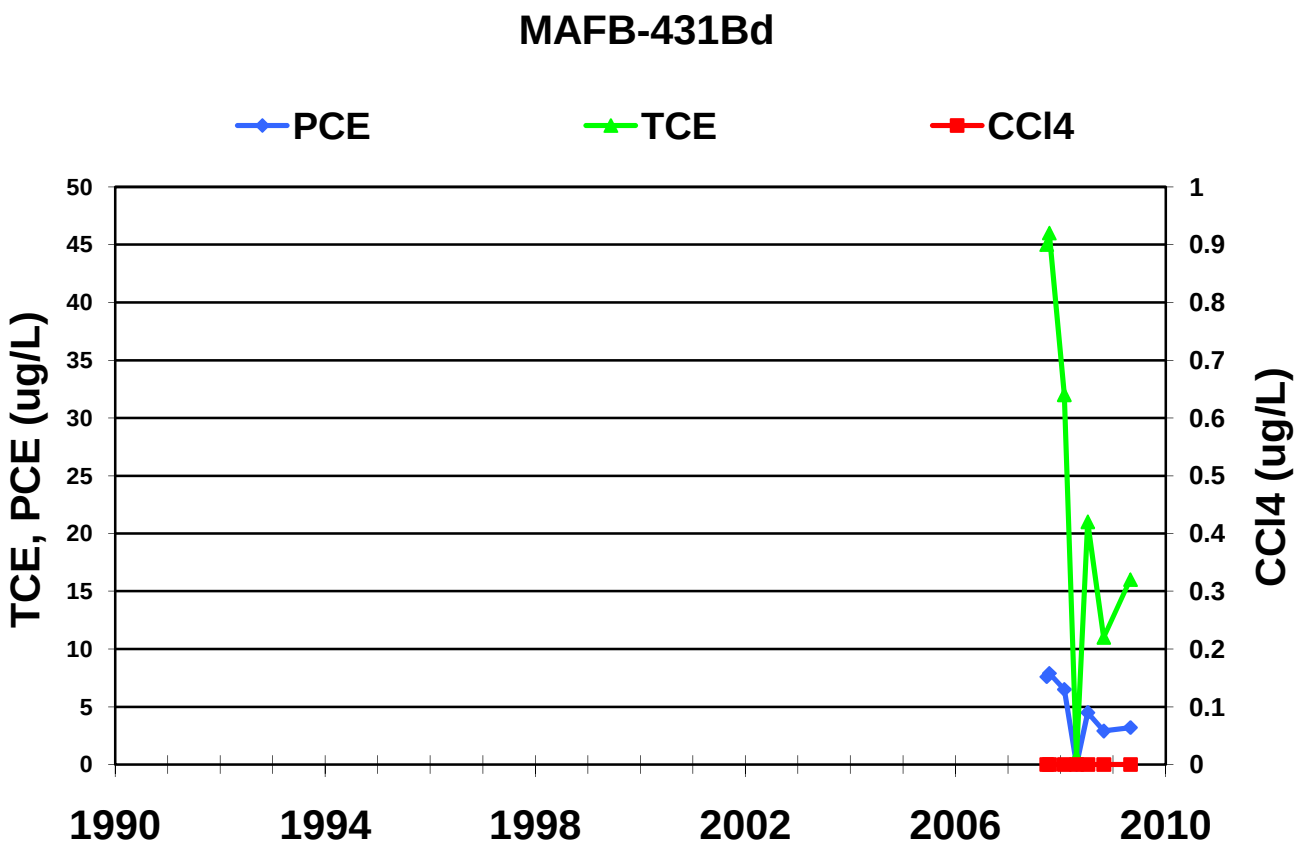

MAFB-428
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
7
6
5
4
3
2
1
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

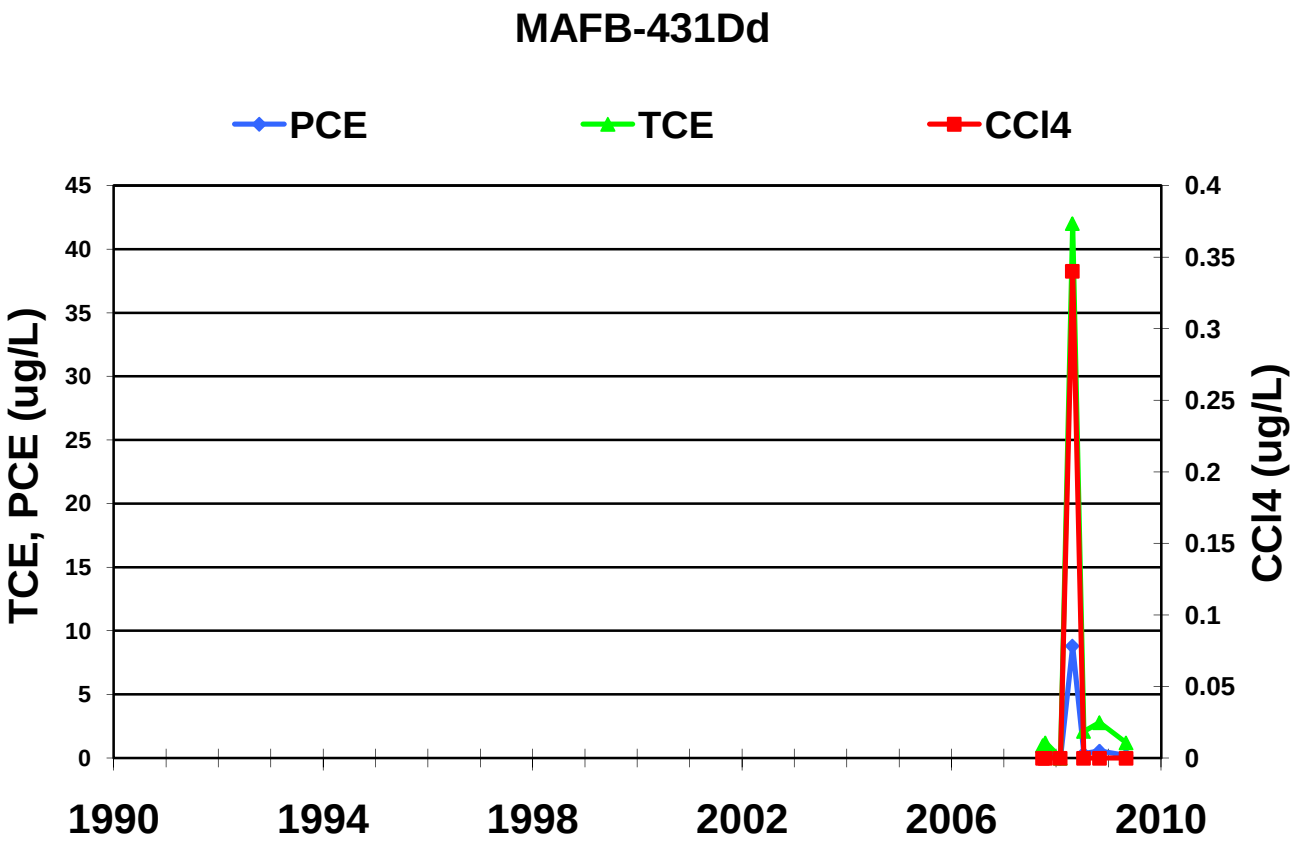

MAFB-429Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

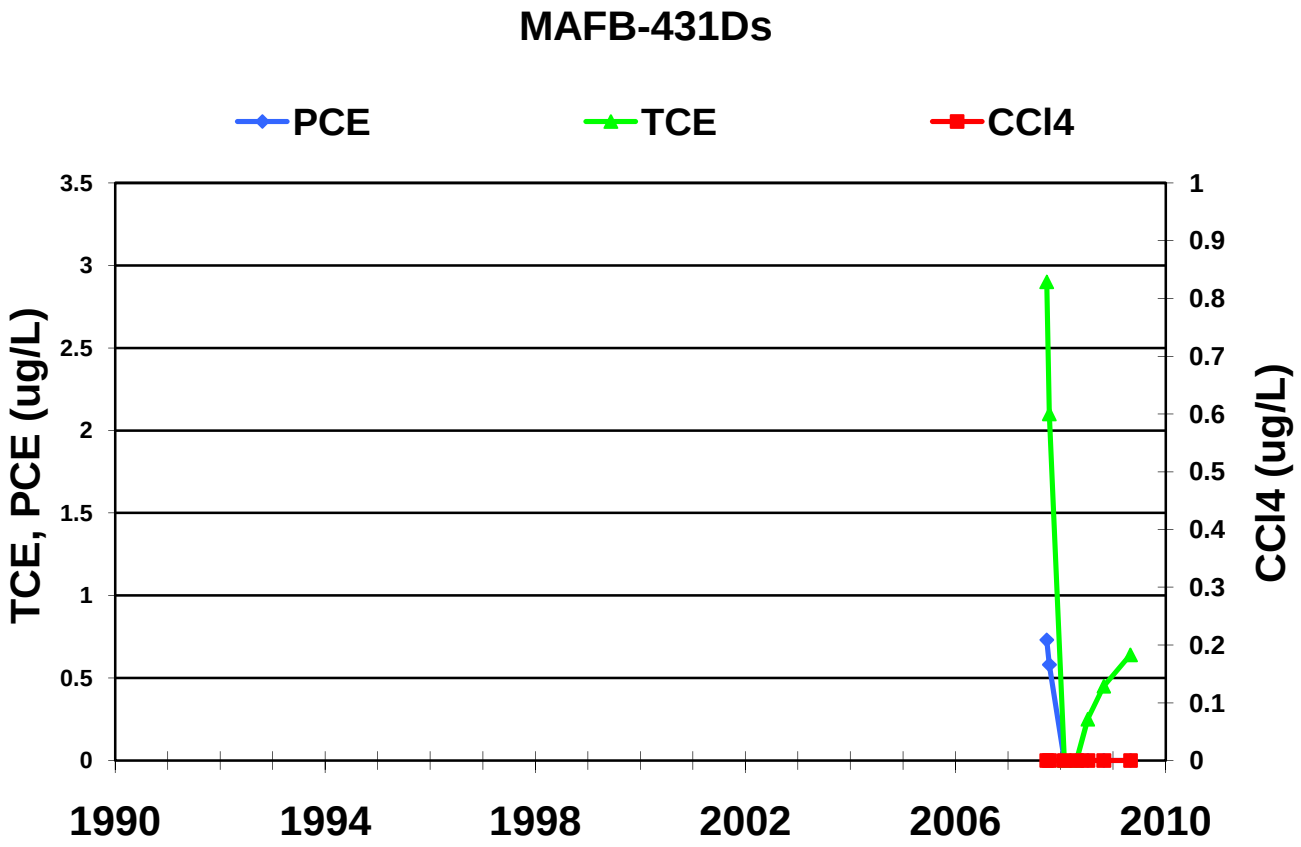

MAFB-429Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

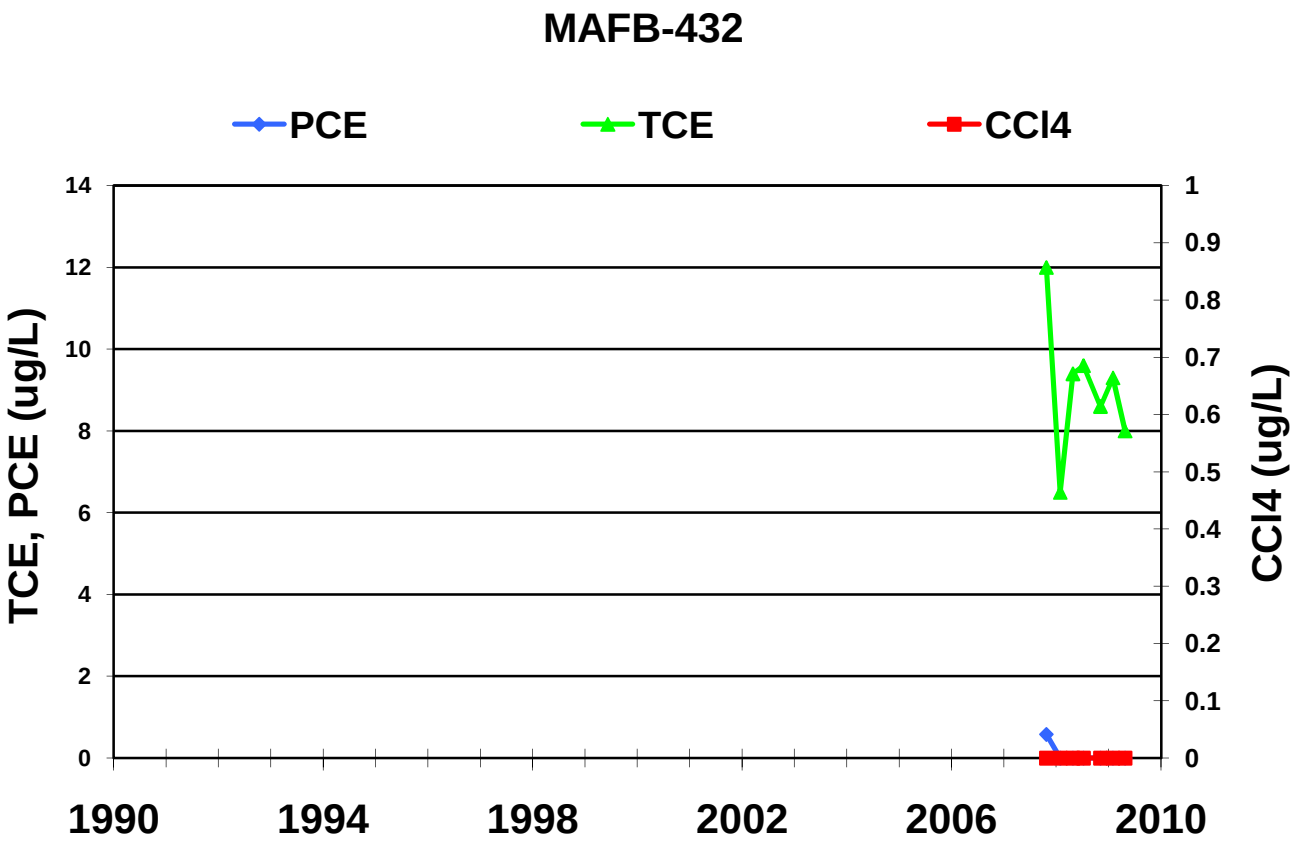

MAFB-429Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

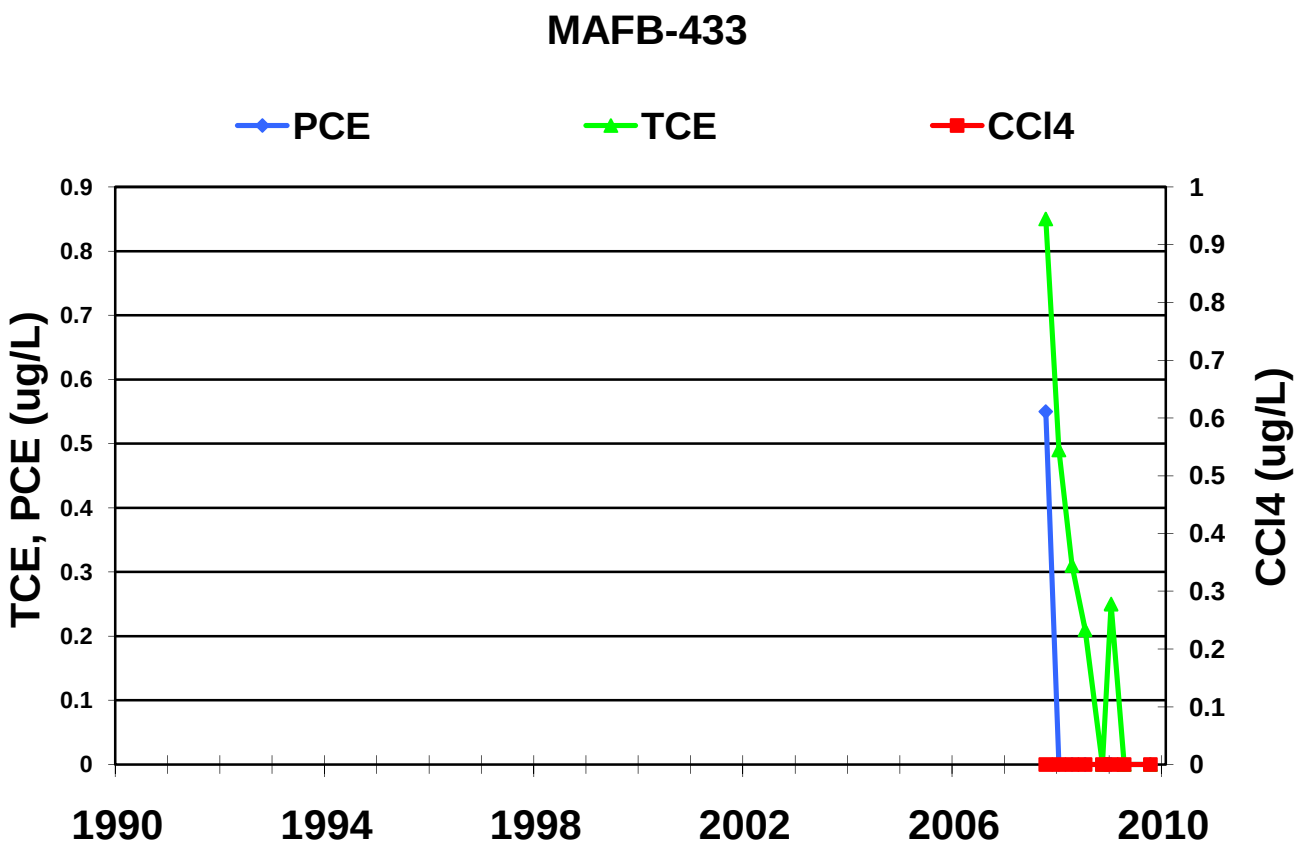

MAFB-430
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
7
6
5
4
3
2
1
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

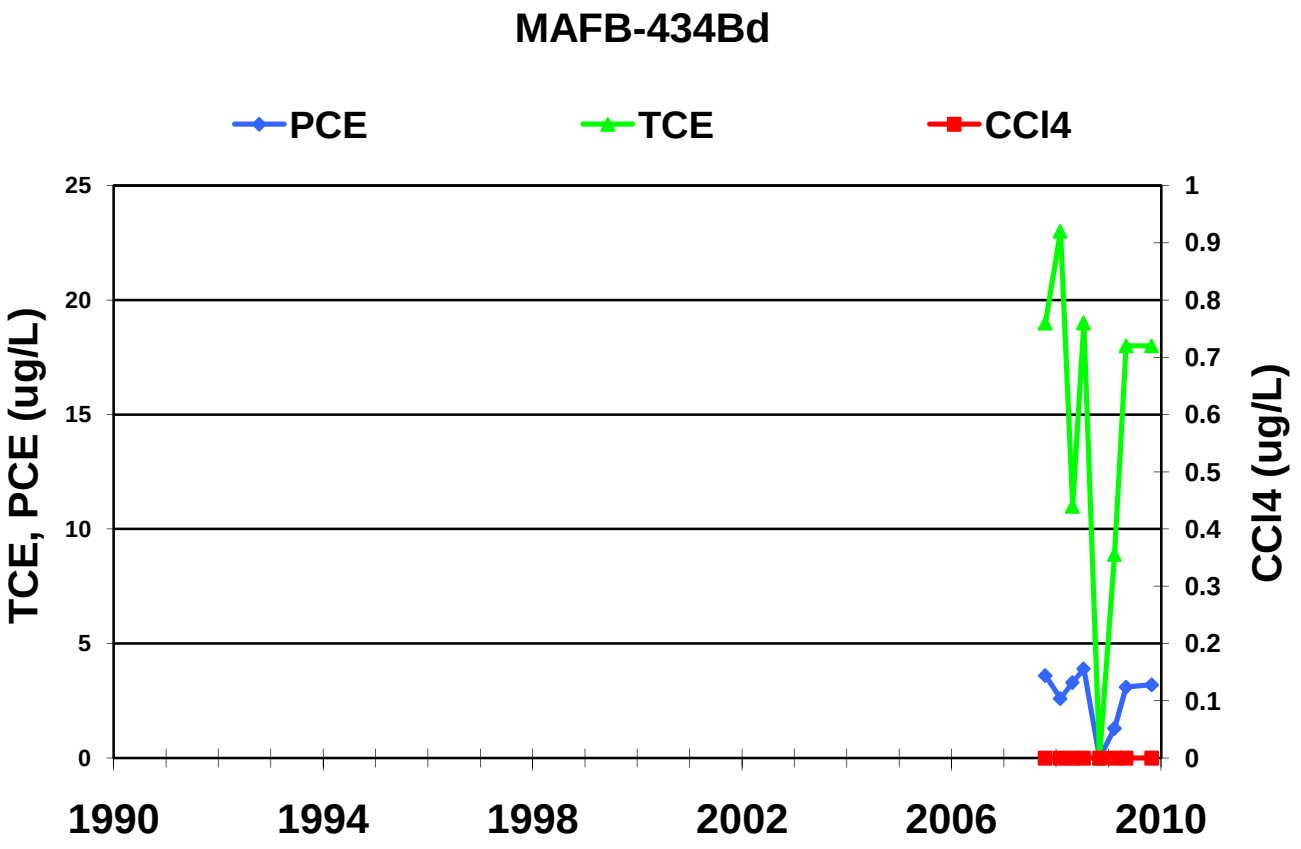

MAFB-431Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
50
45
40
35
30
25
20
15
10
5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

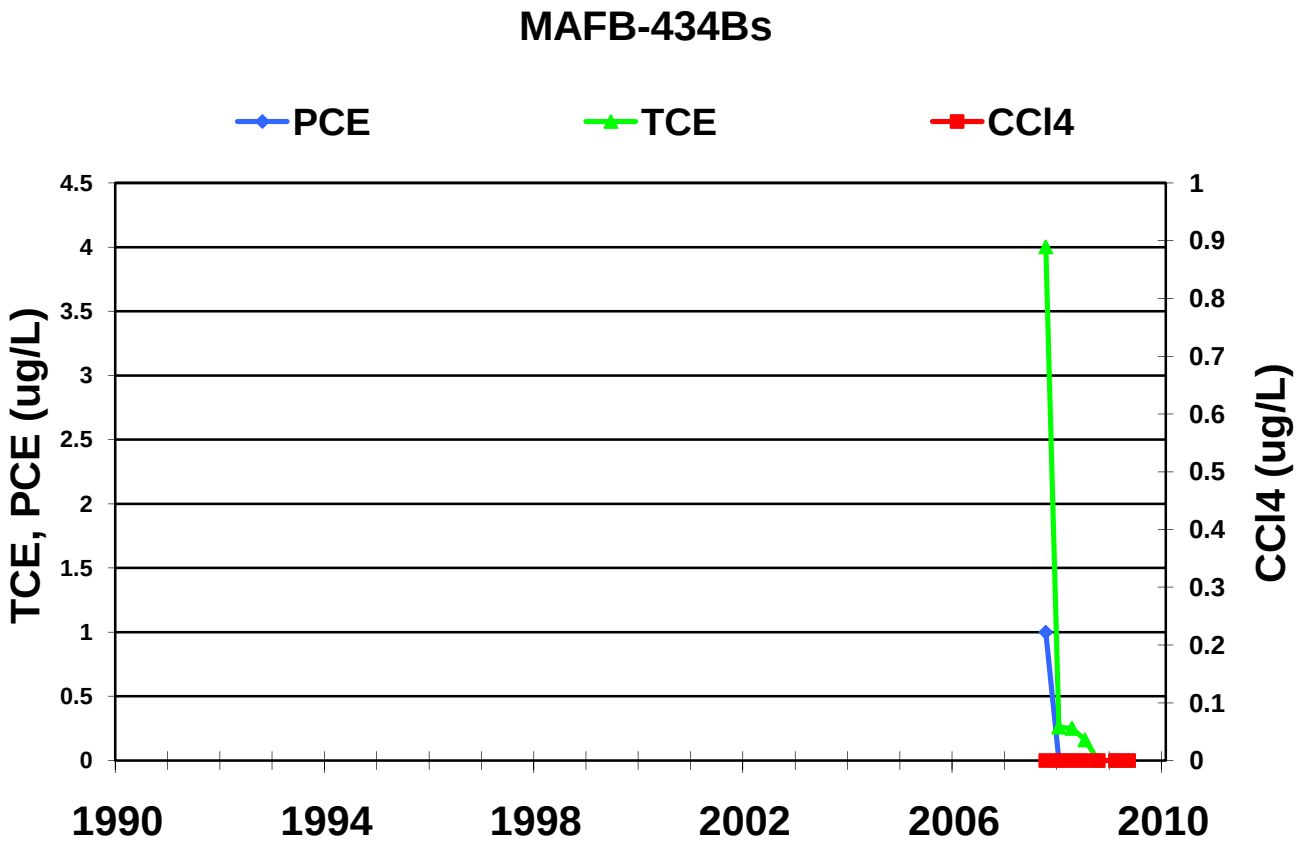

MAFB-431Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
45
40
35
30
25
20
15
10
5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

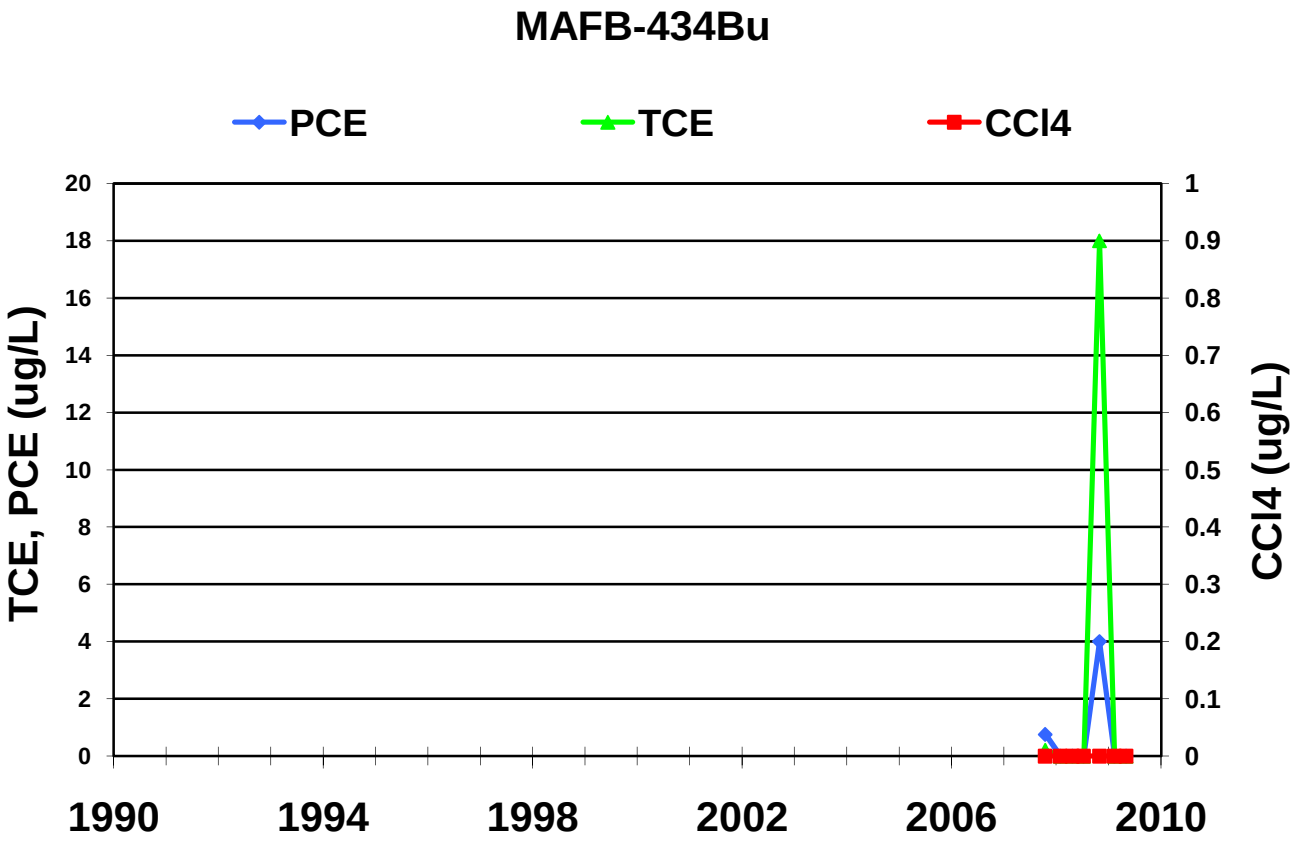

MAFB-431Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

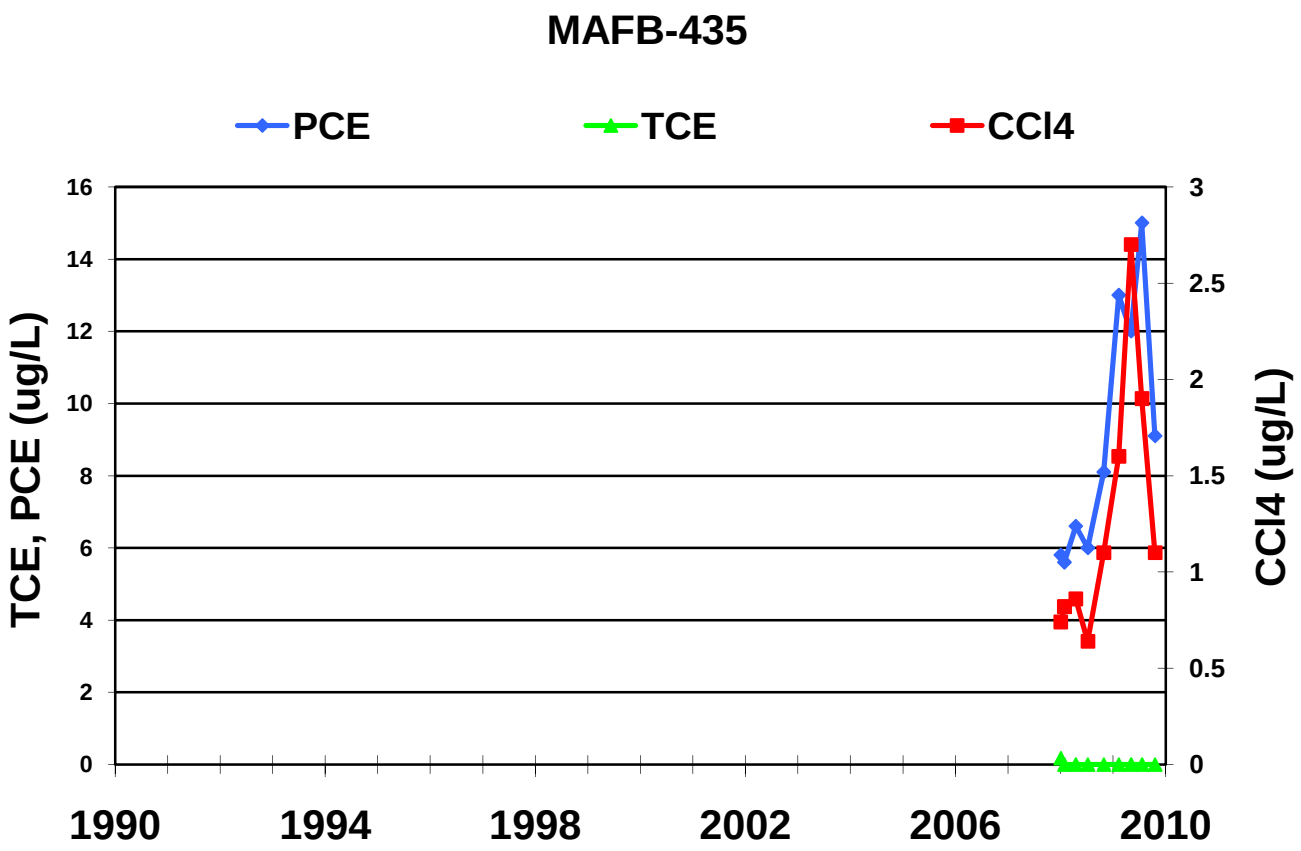

MAFB-432
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

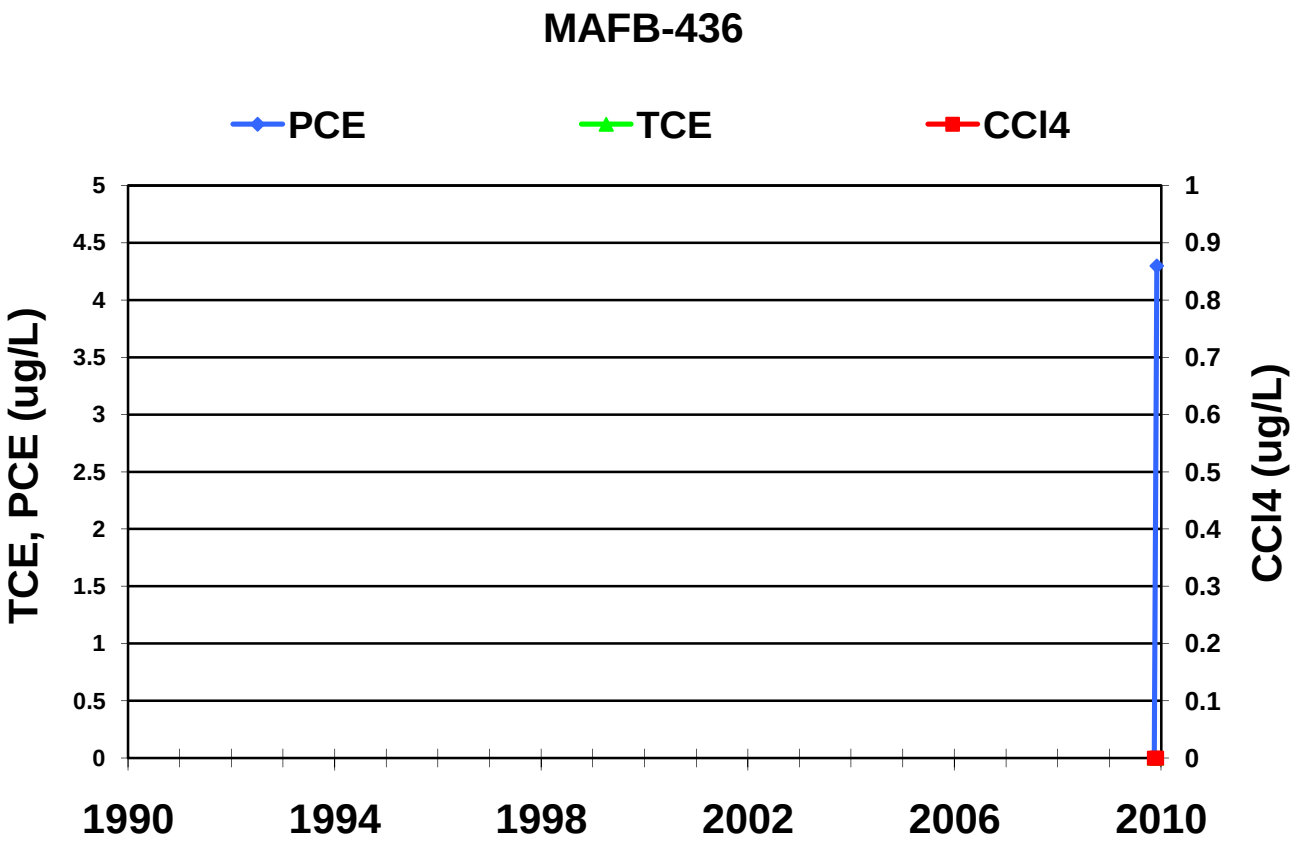

MAFB-433
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

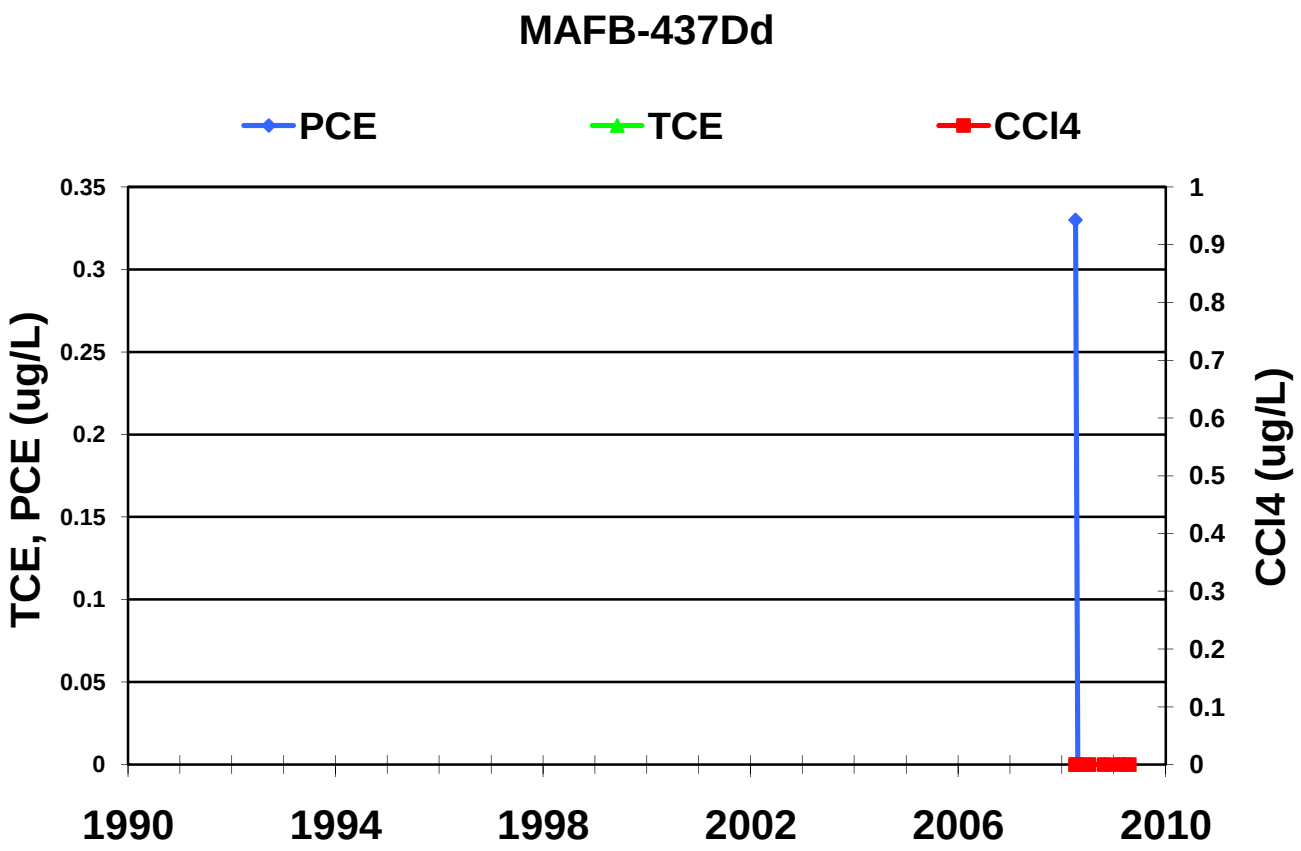

MAFB-434Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

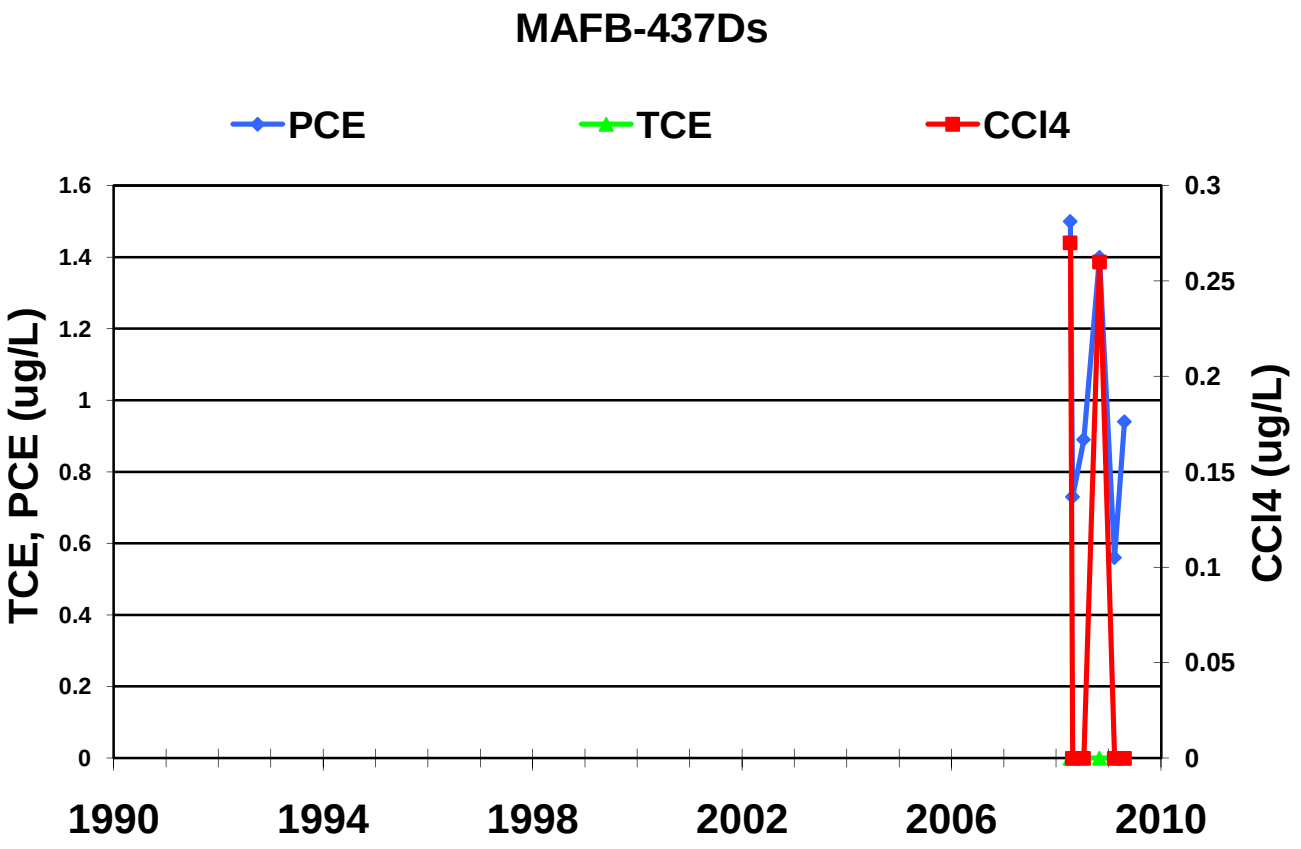

MAFB-434Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

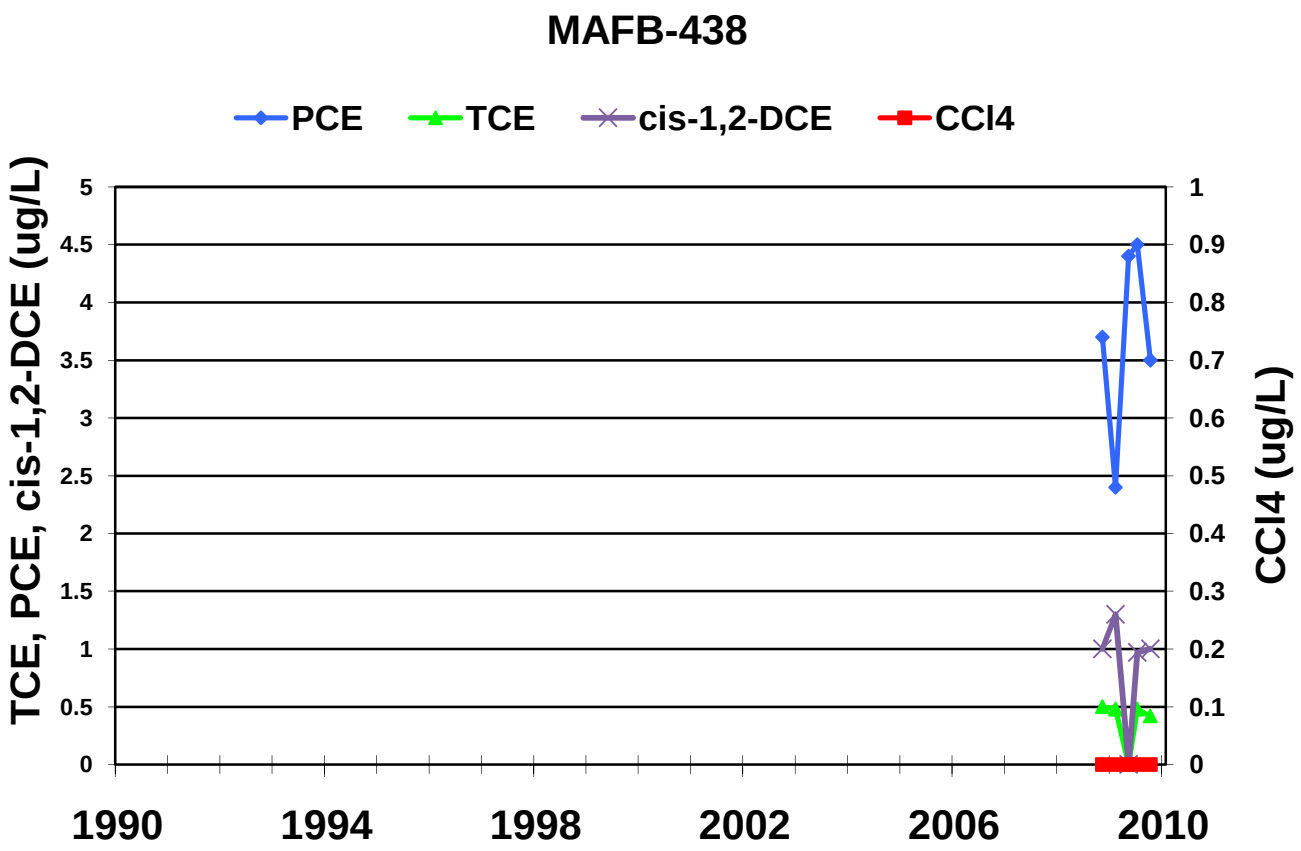

MAFB-434Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

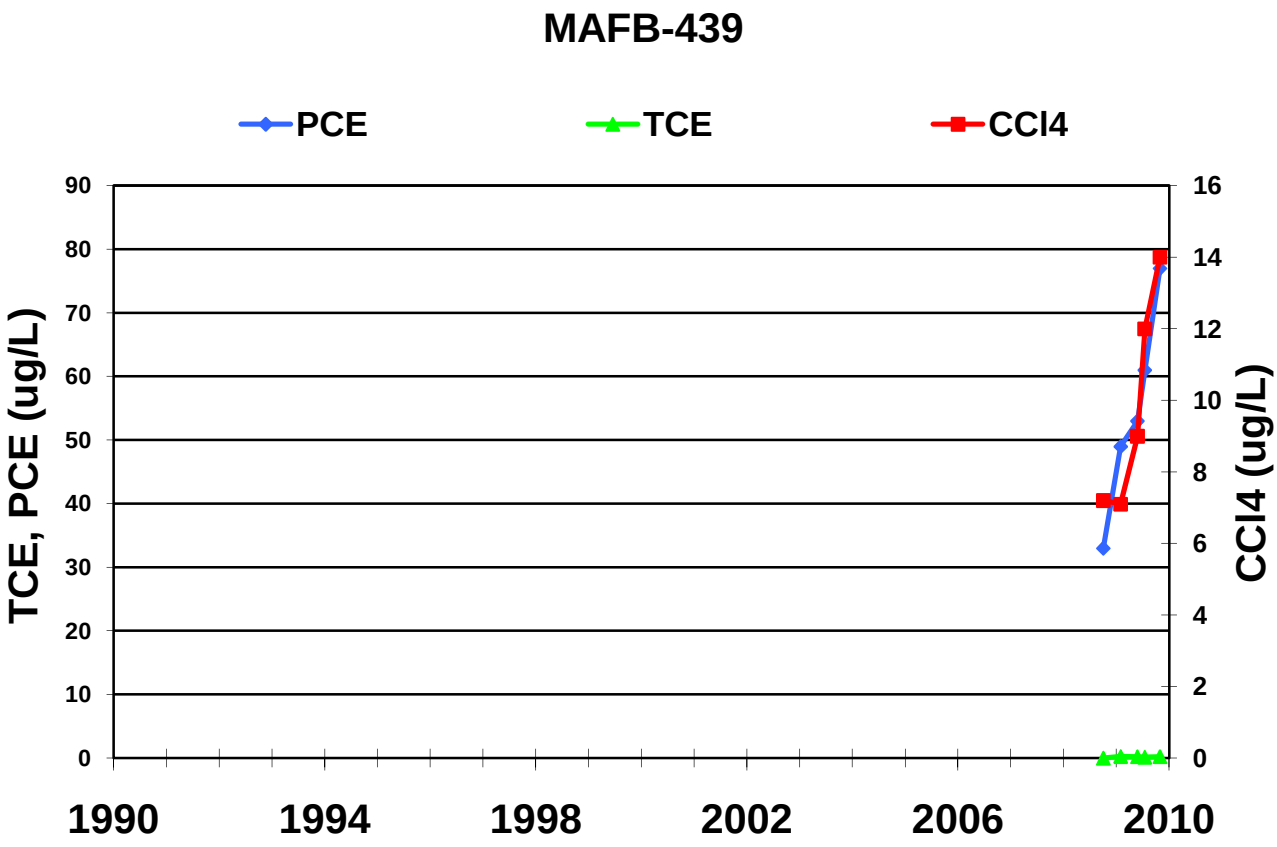

MAFB-435
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
0
0.5
1
1.5
2
2.5
3
1990
1994
1998
2002
2006
2010

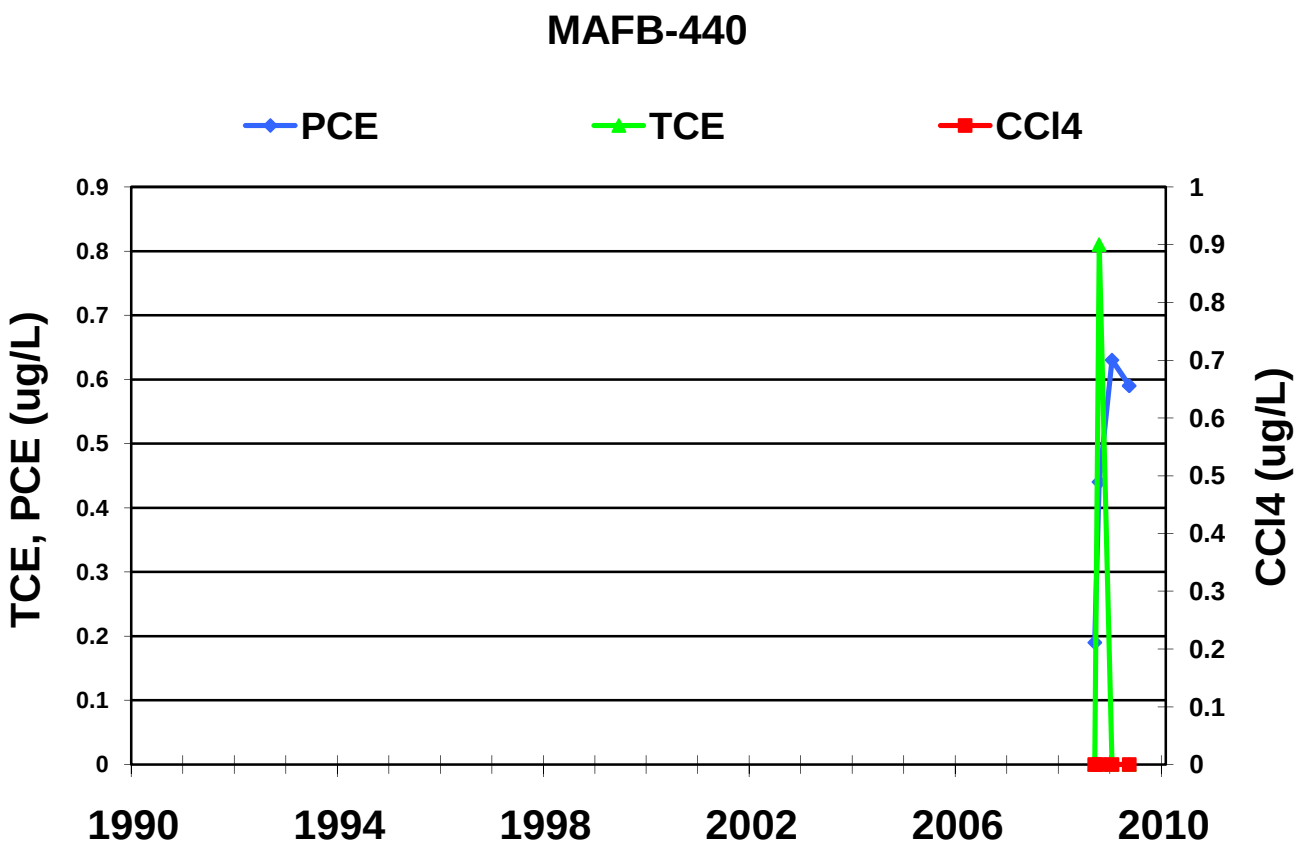

MAFB-436
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

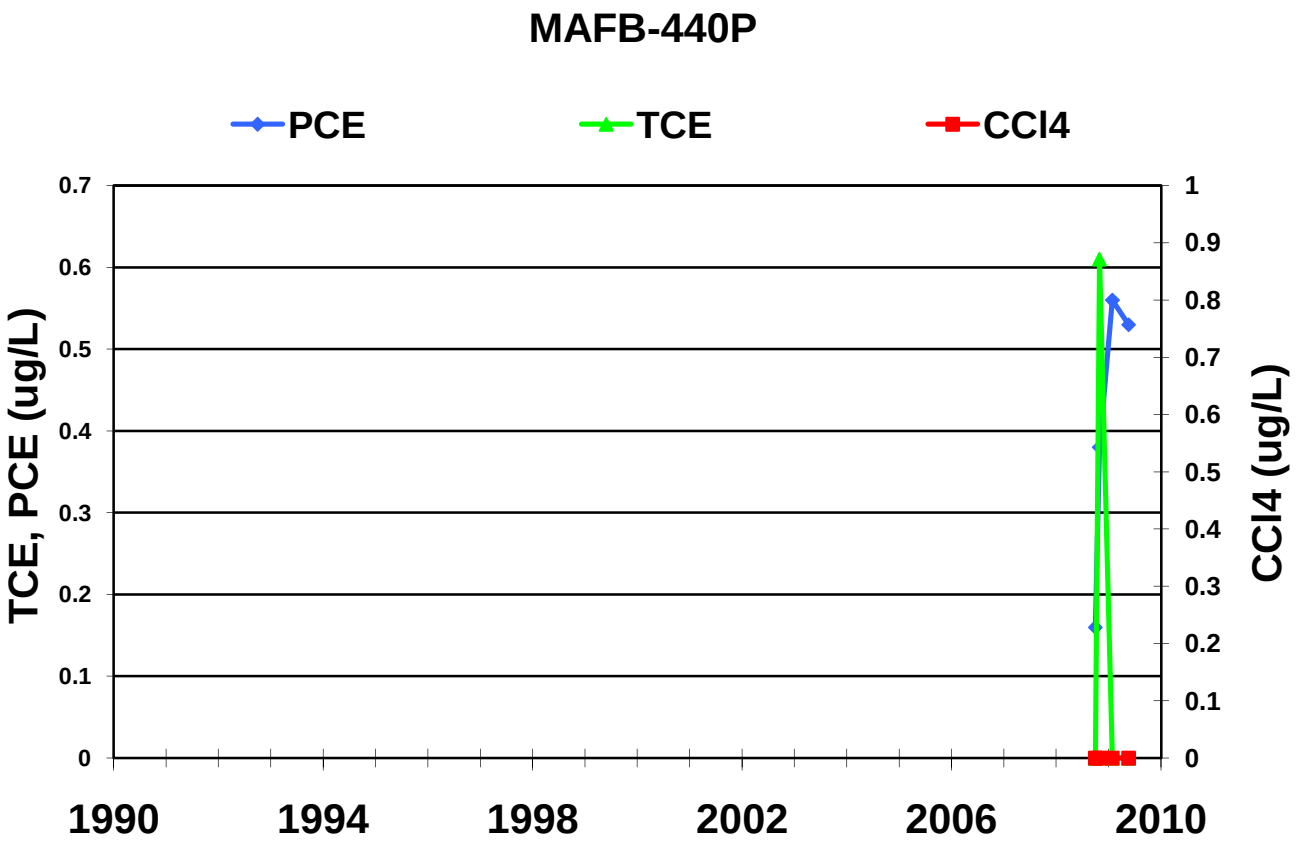

MAFB-437Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

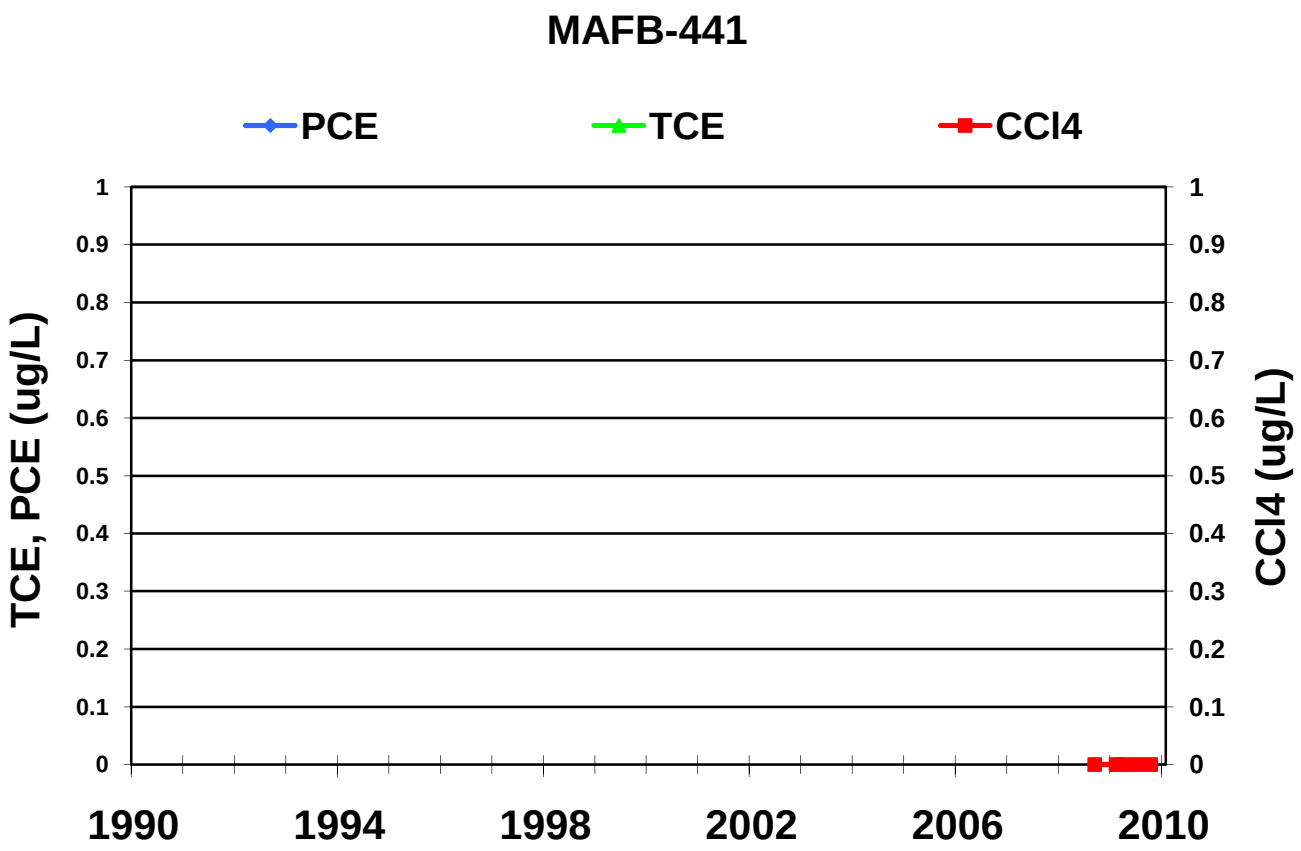

MAFB-437Ds
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

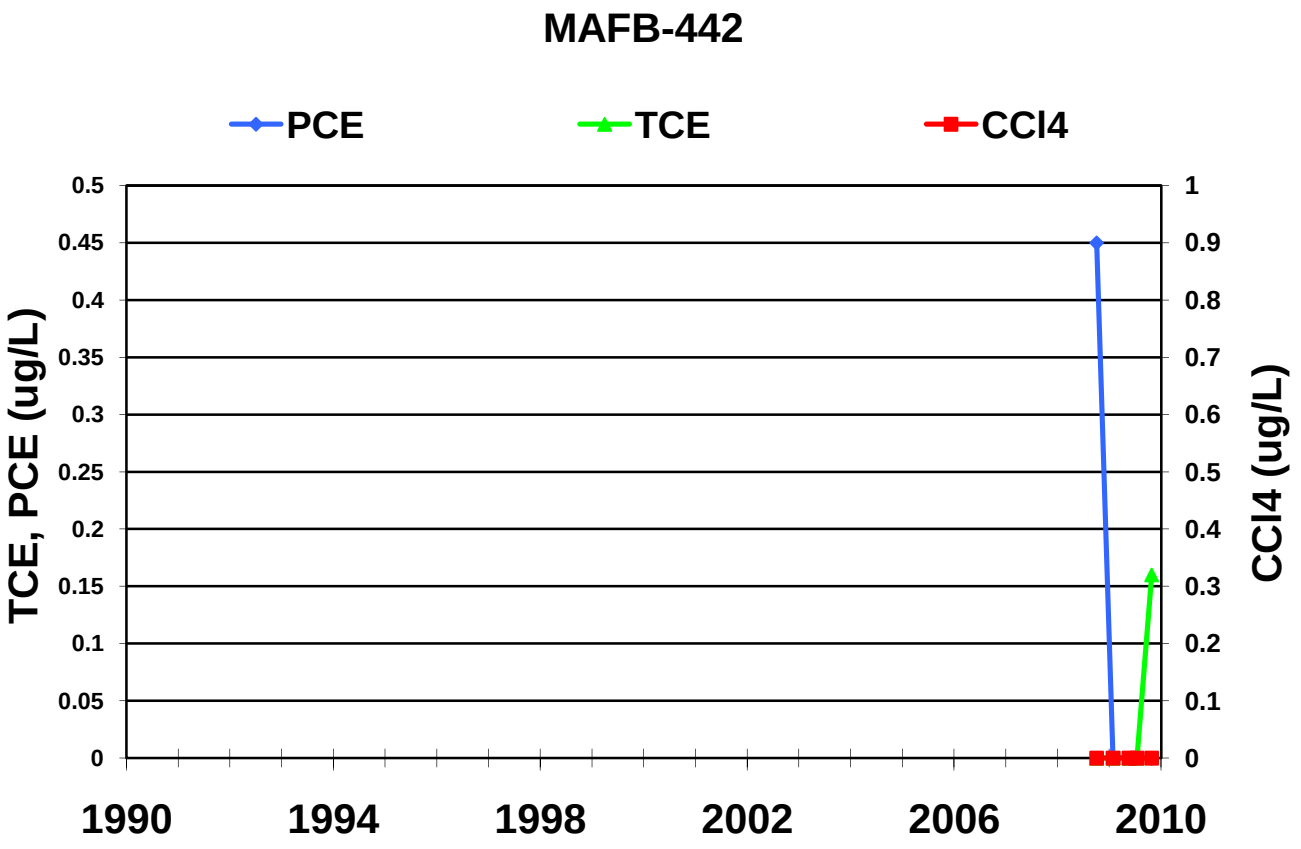

MAFB-438
PCE
TCE
cis-1,2-DCE
CCl4
TCE, PCE, cis-1,2-DCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

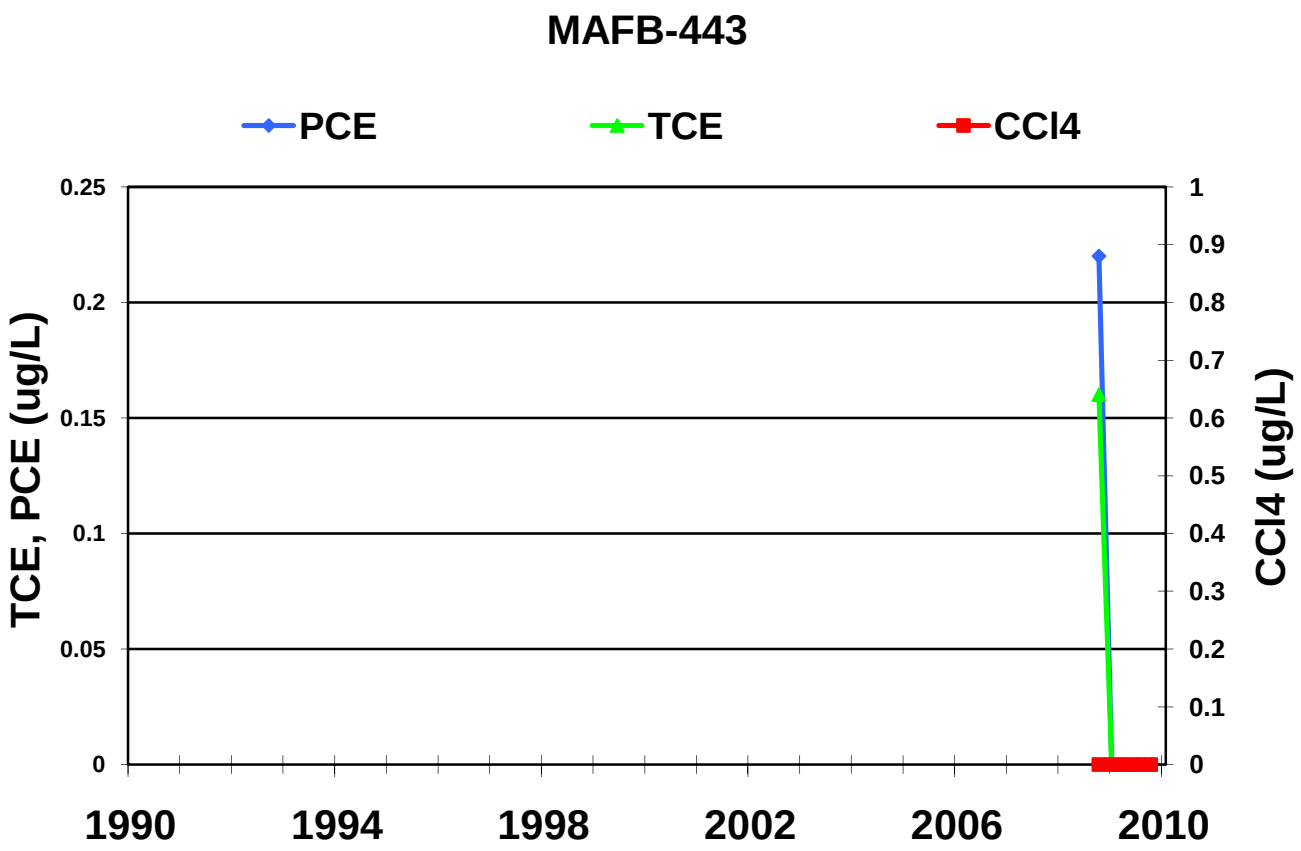

MAFB-439
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
90
80
70
60
50
40
30
20
10
0
16
14
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

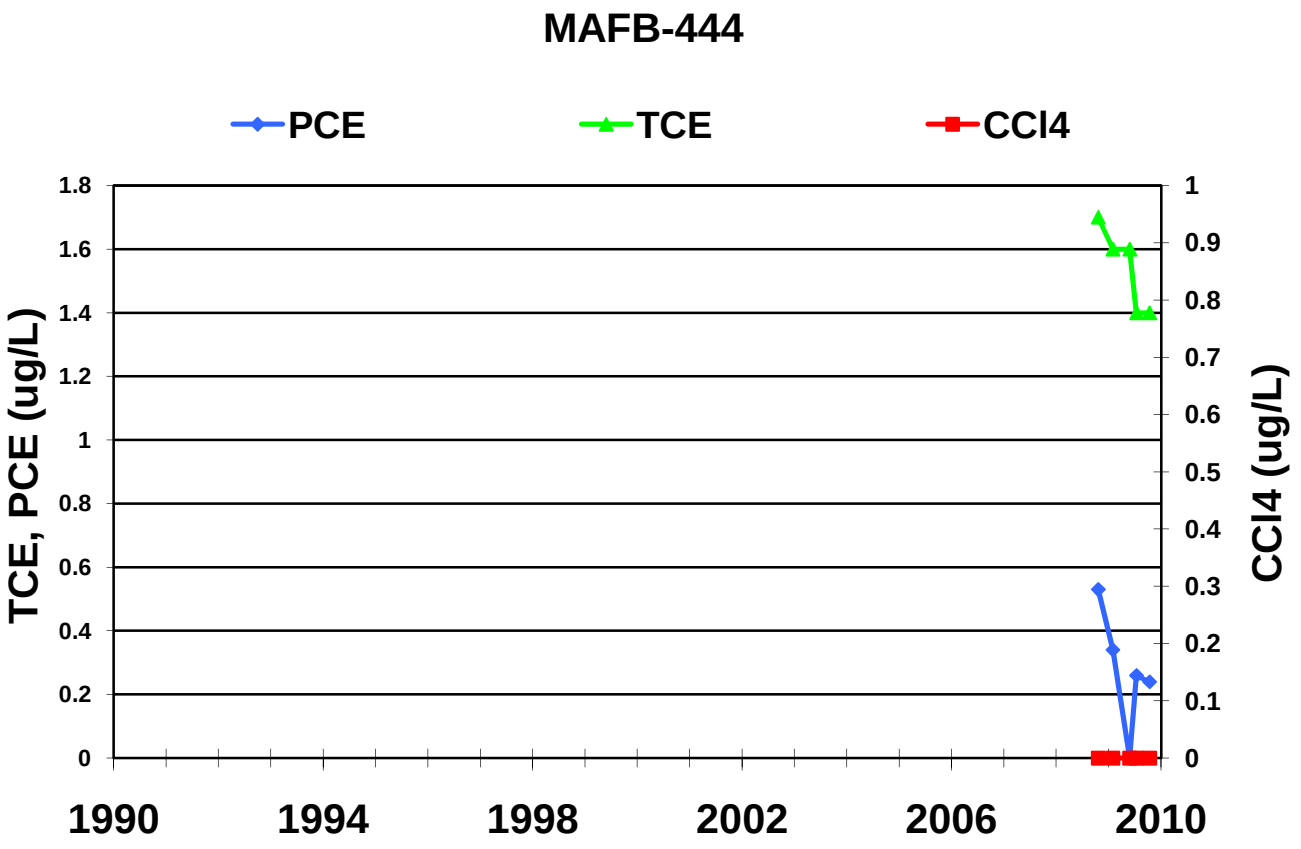

MAFB-440
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

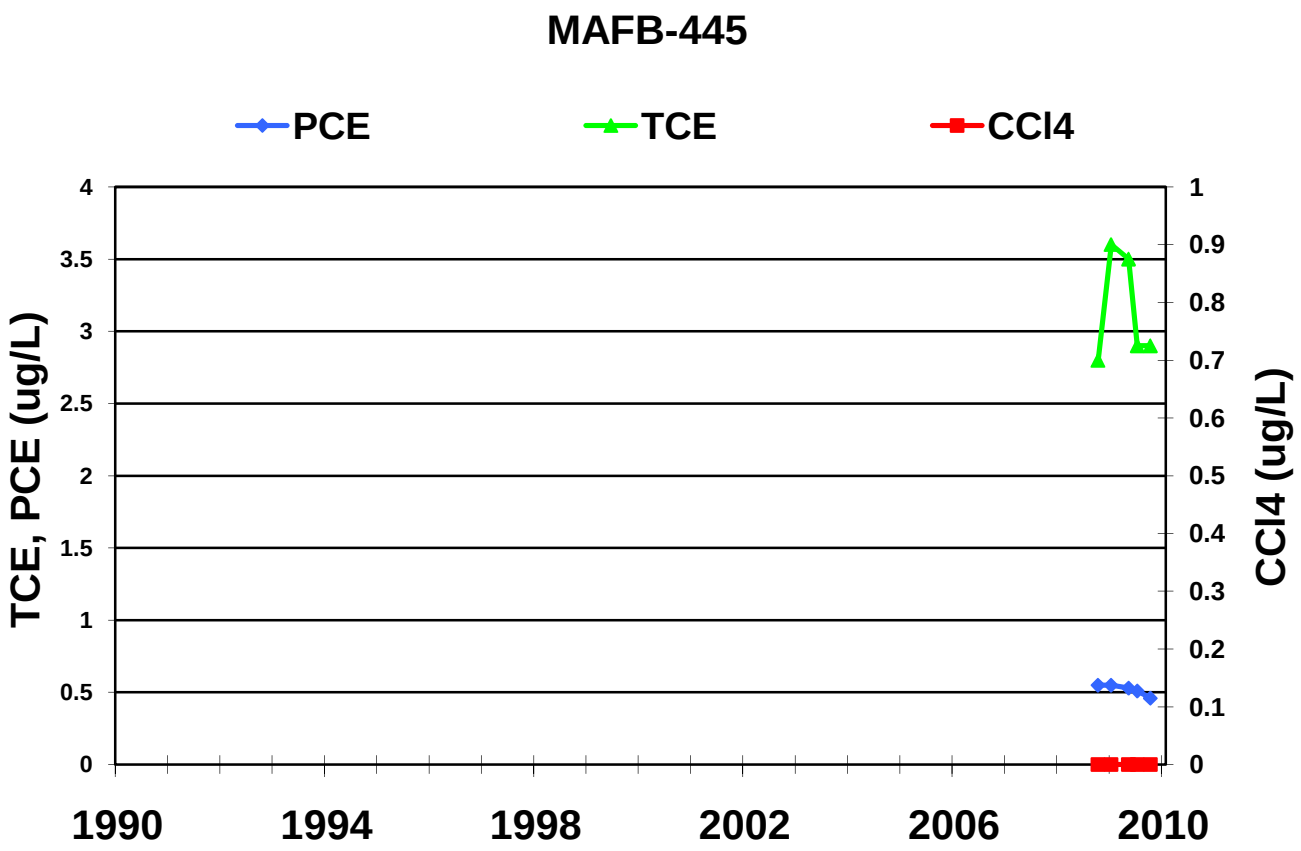

MAFB-440P
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

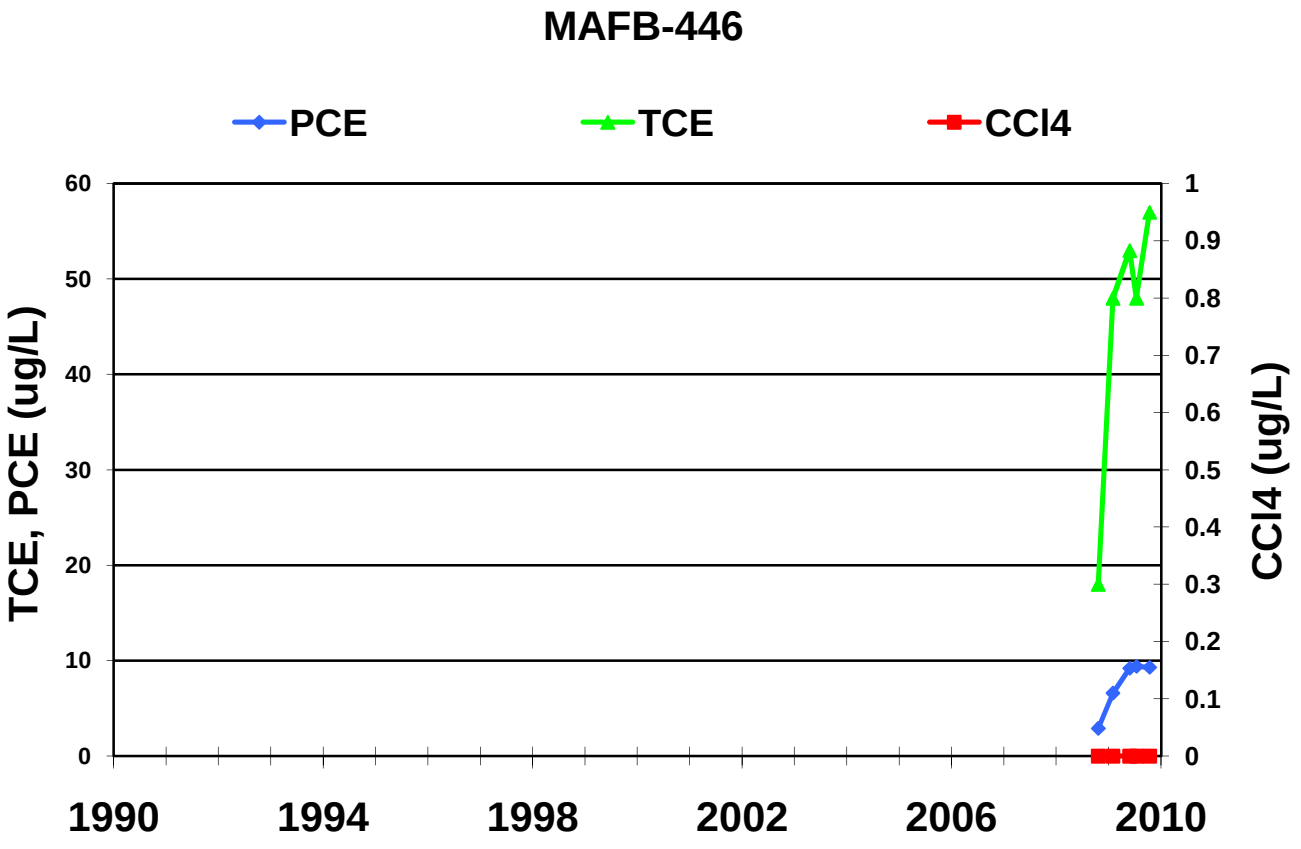

MAFB-441
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

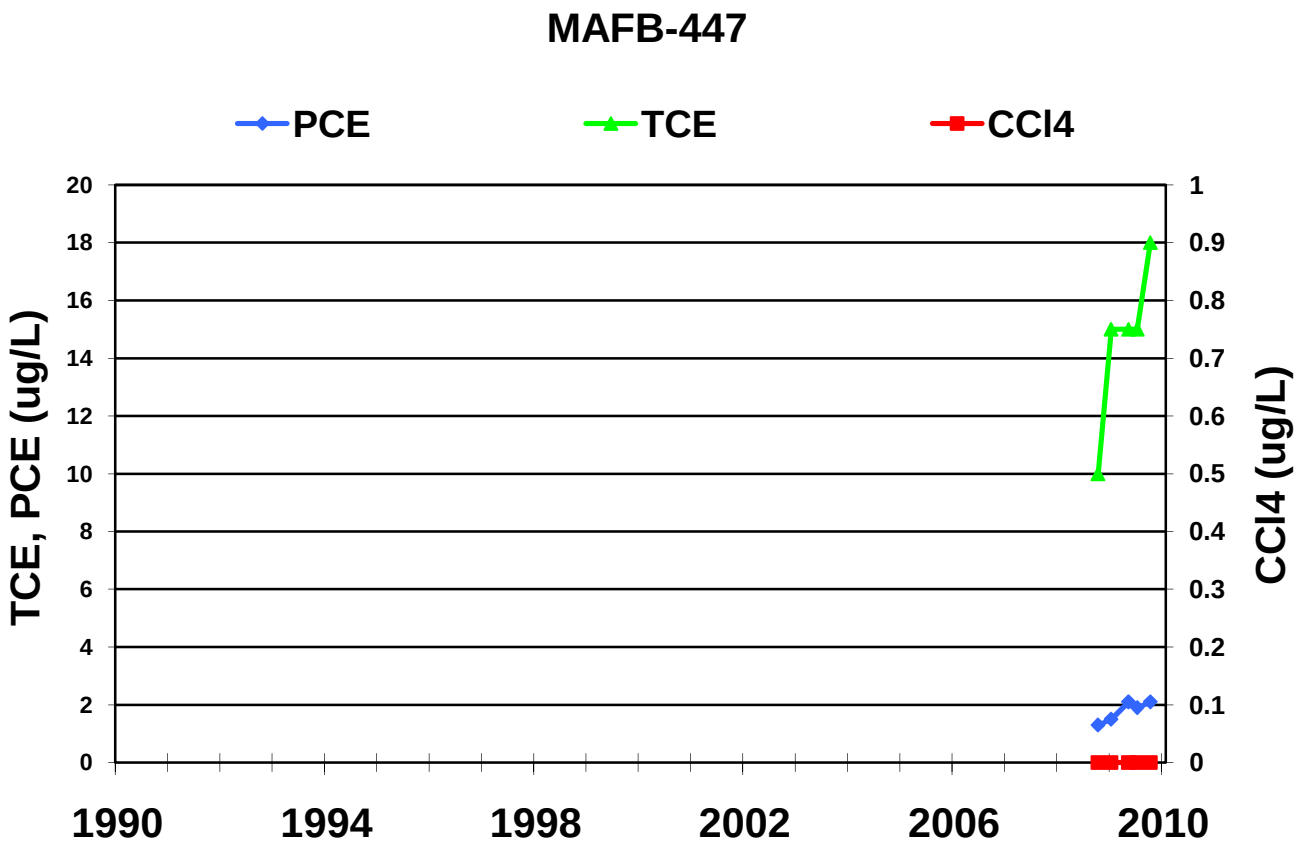

MAFB-442
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

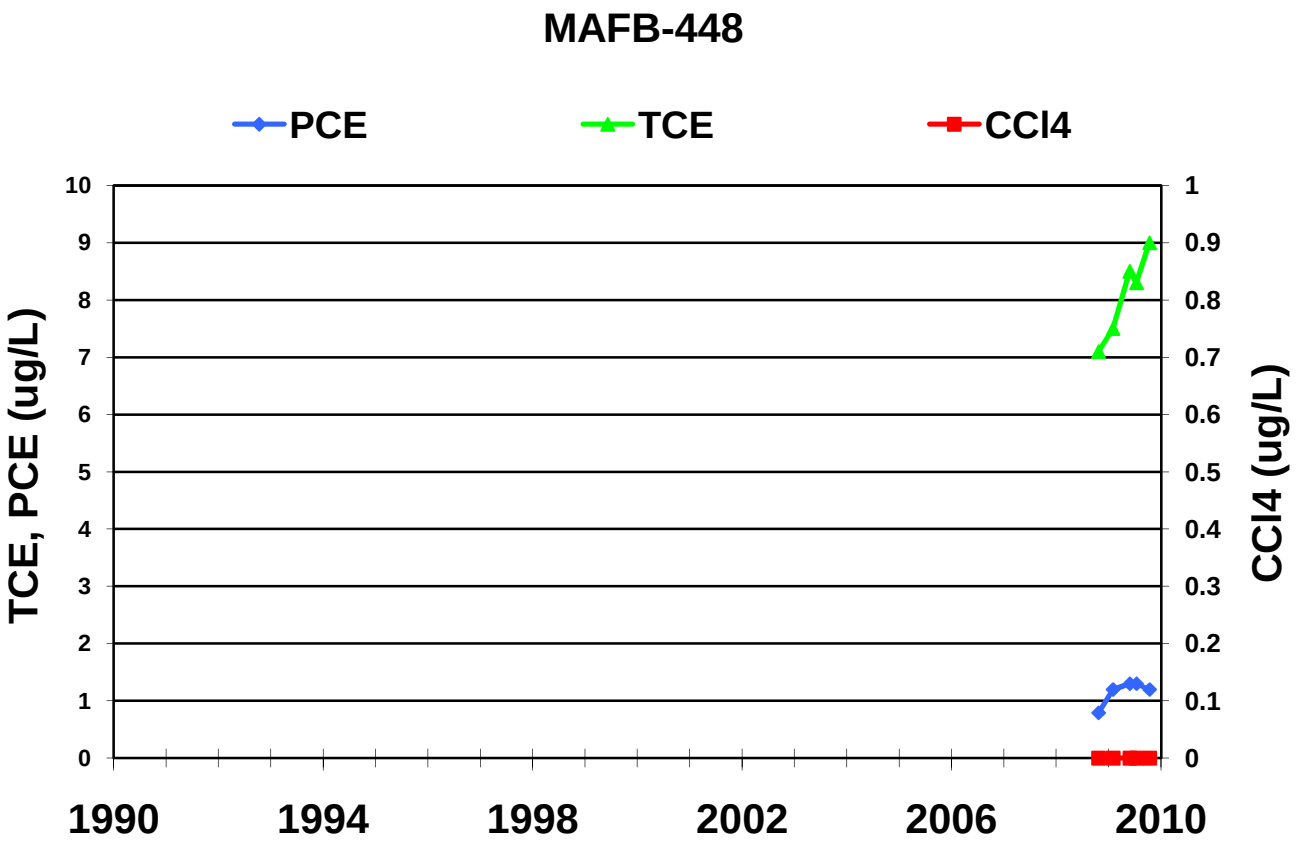

MAFB-443
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

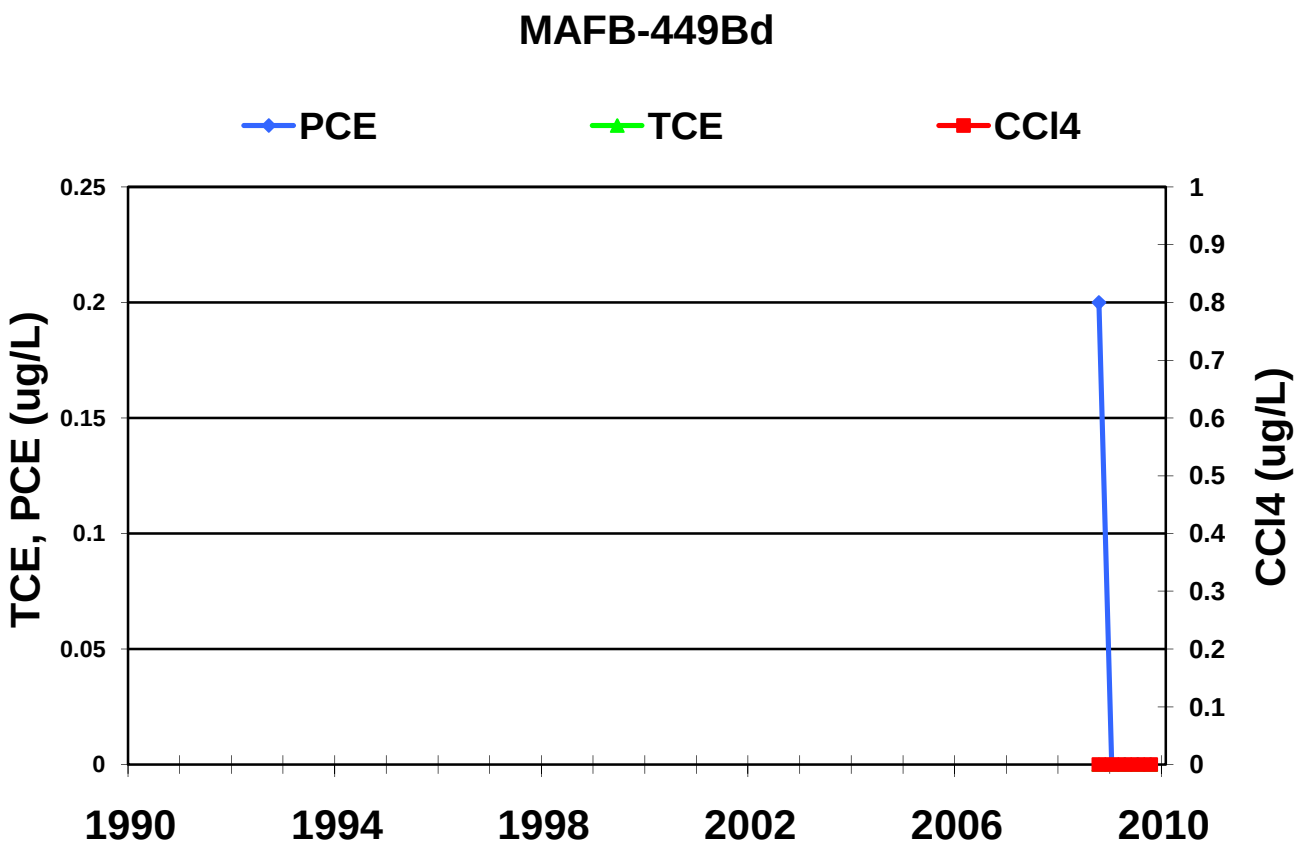

MAFB-444
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

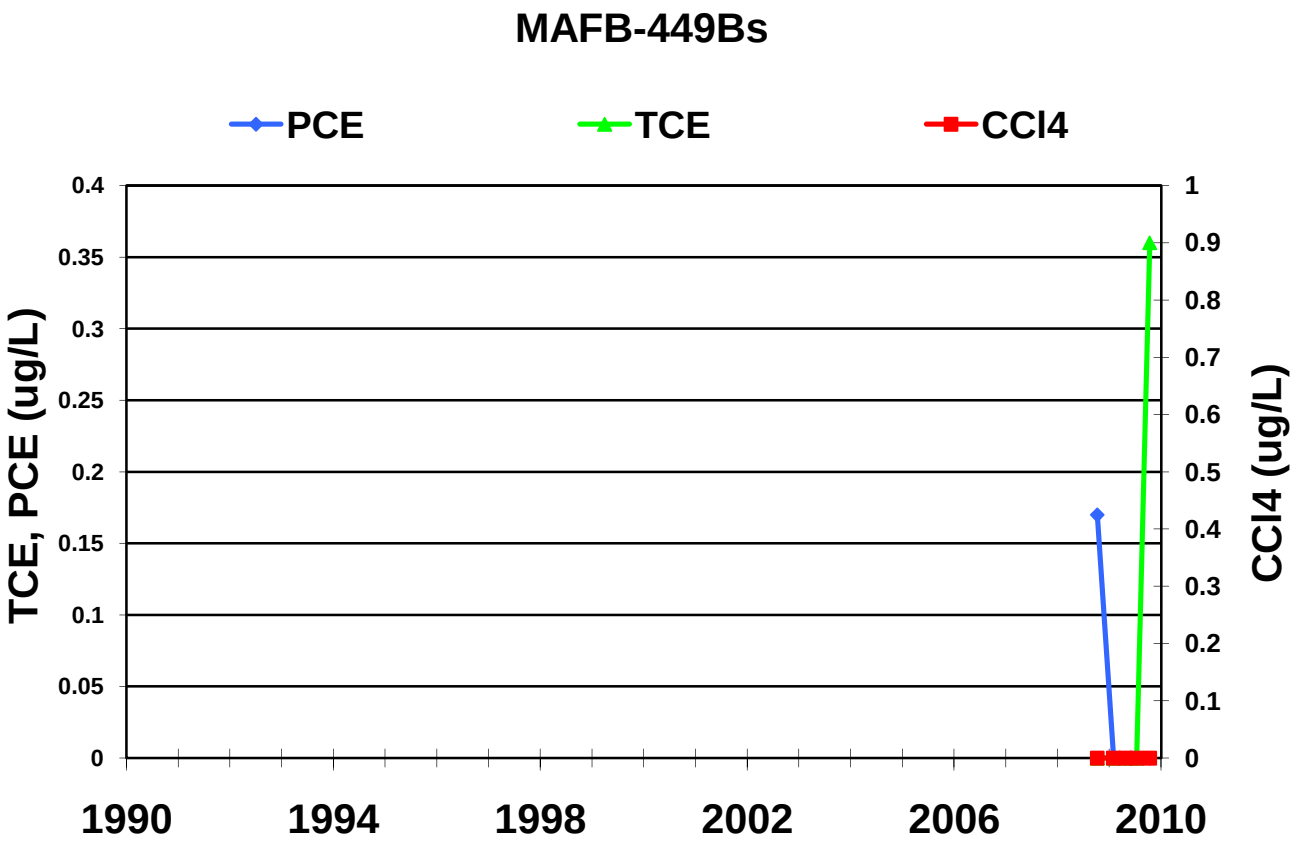

MAFB-445
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

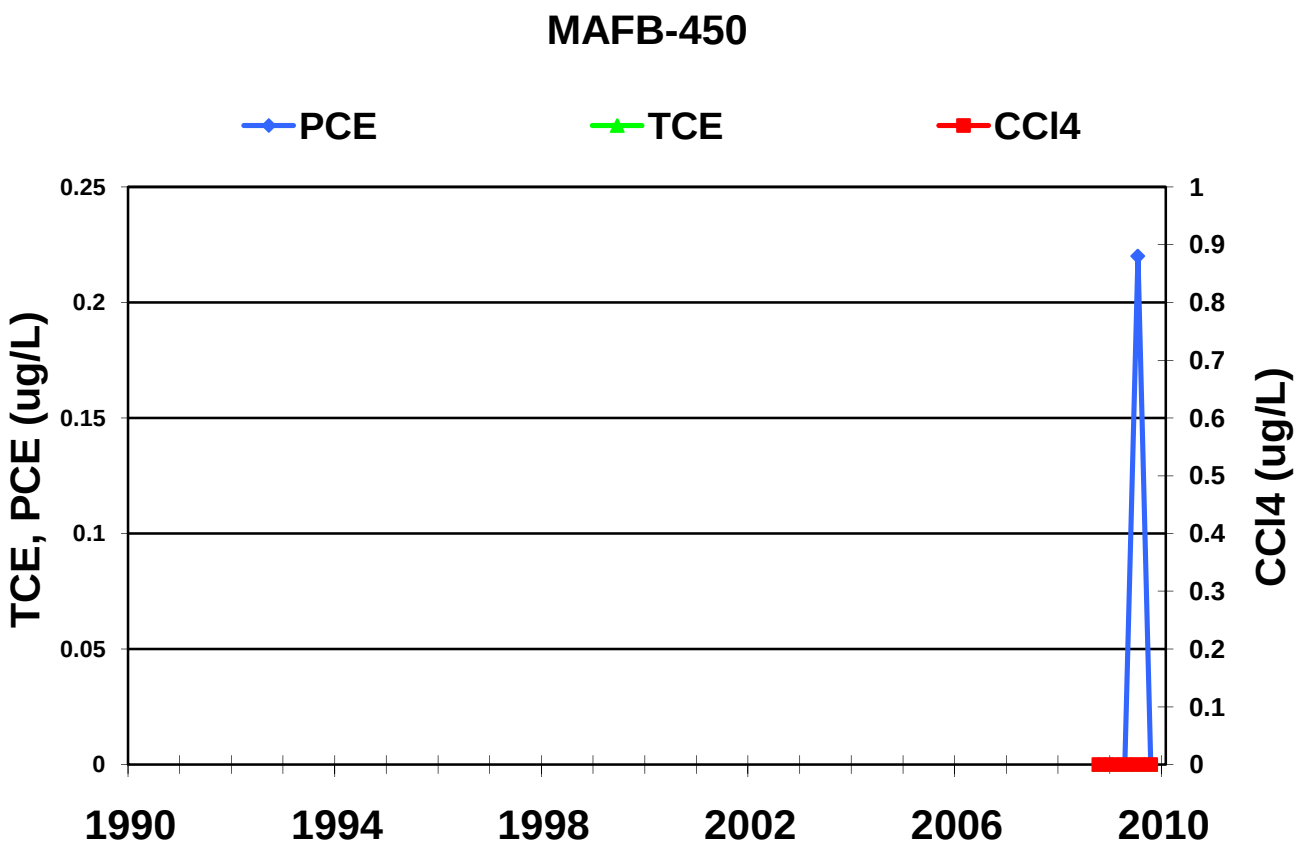

MAFB-446
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

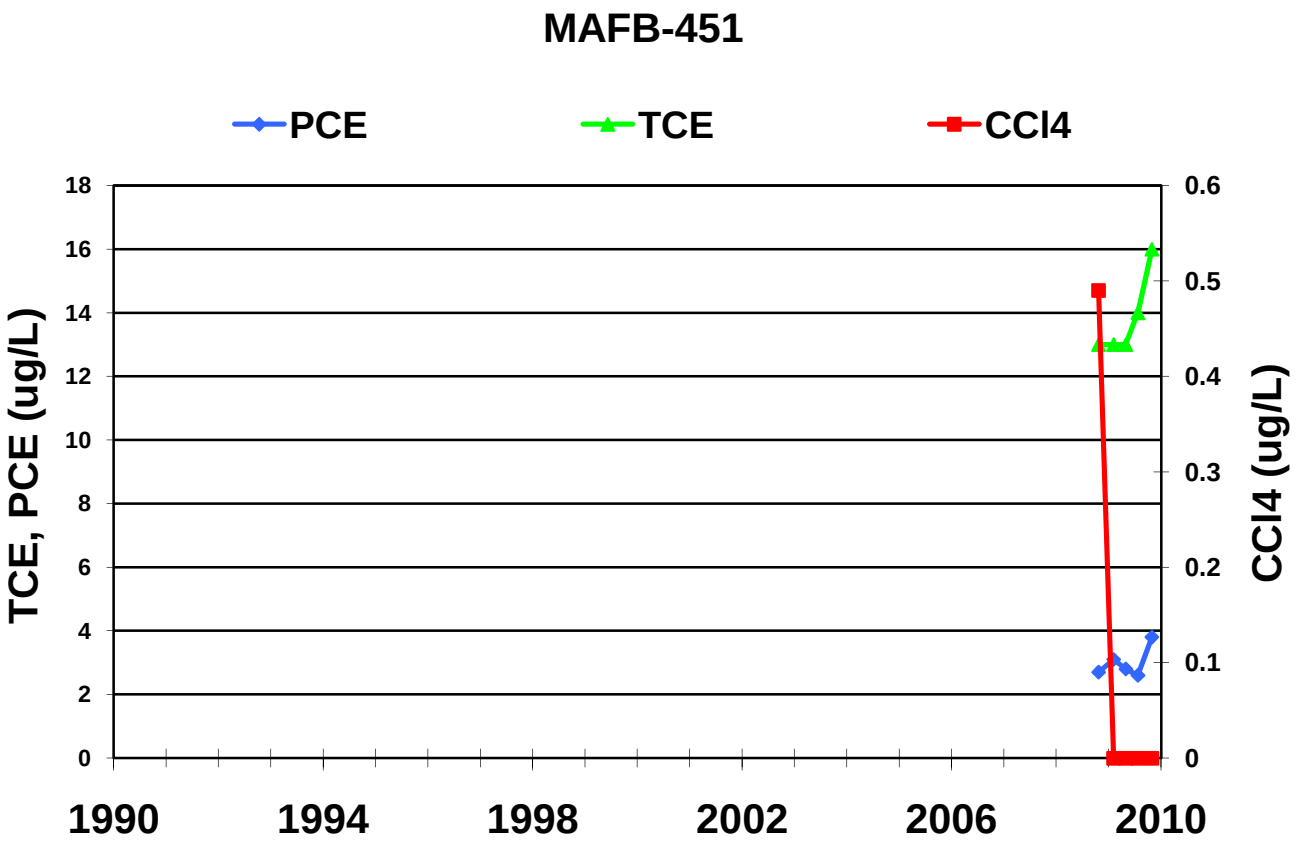

MAFB-447
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
18
20
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

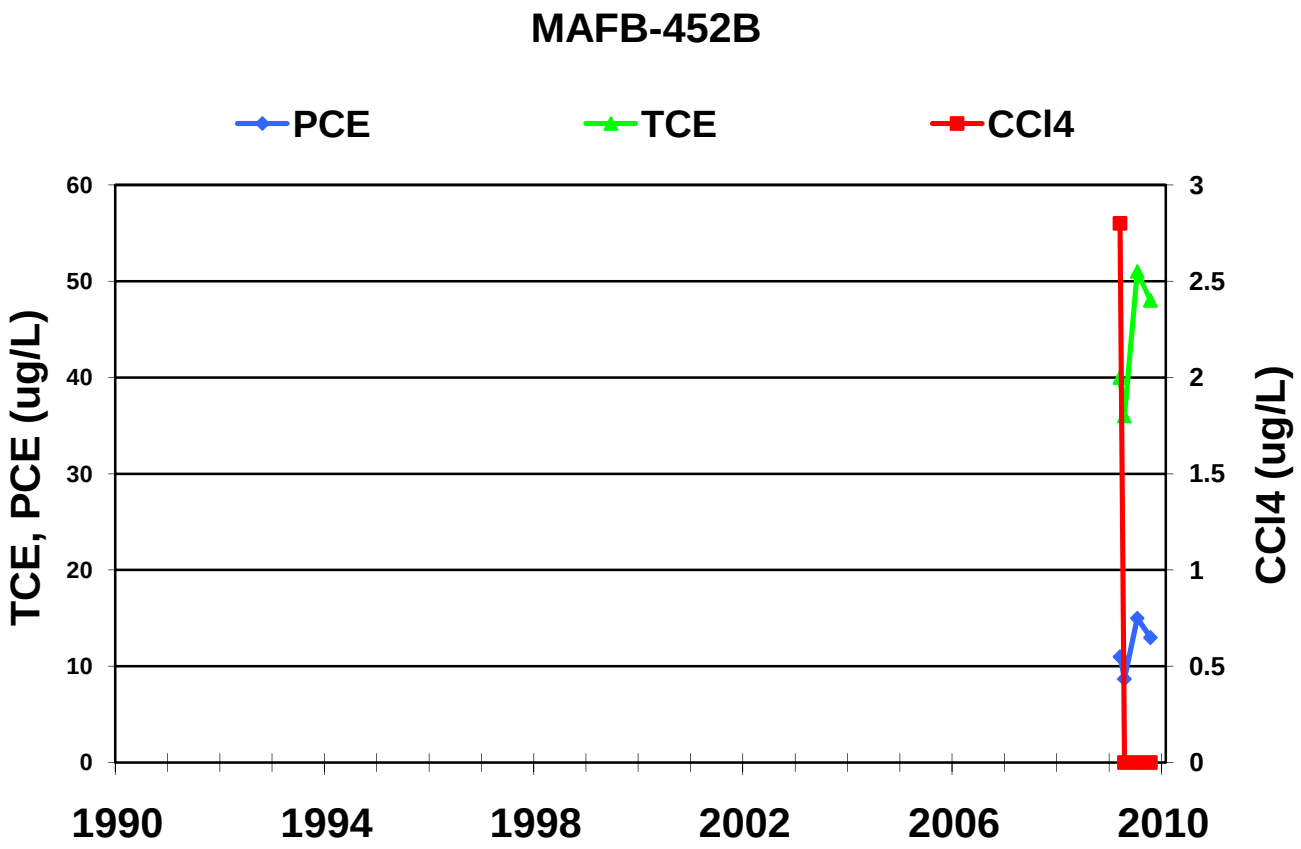

MAFB-448
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

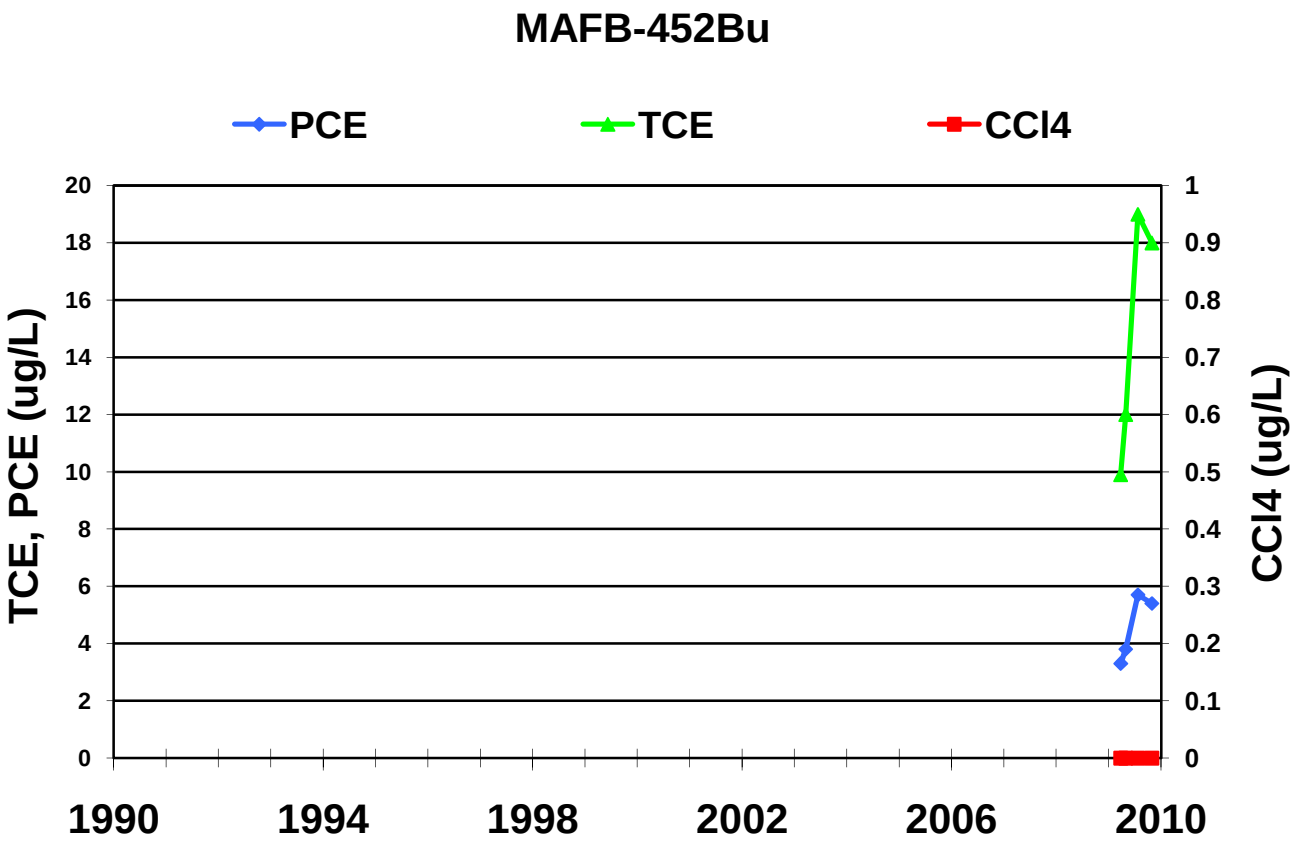

MAFB-449Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

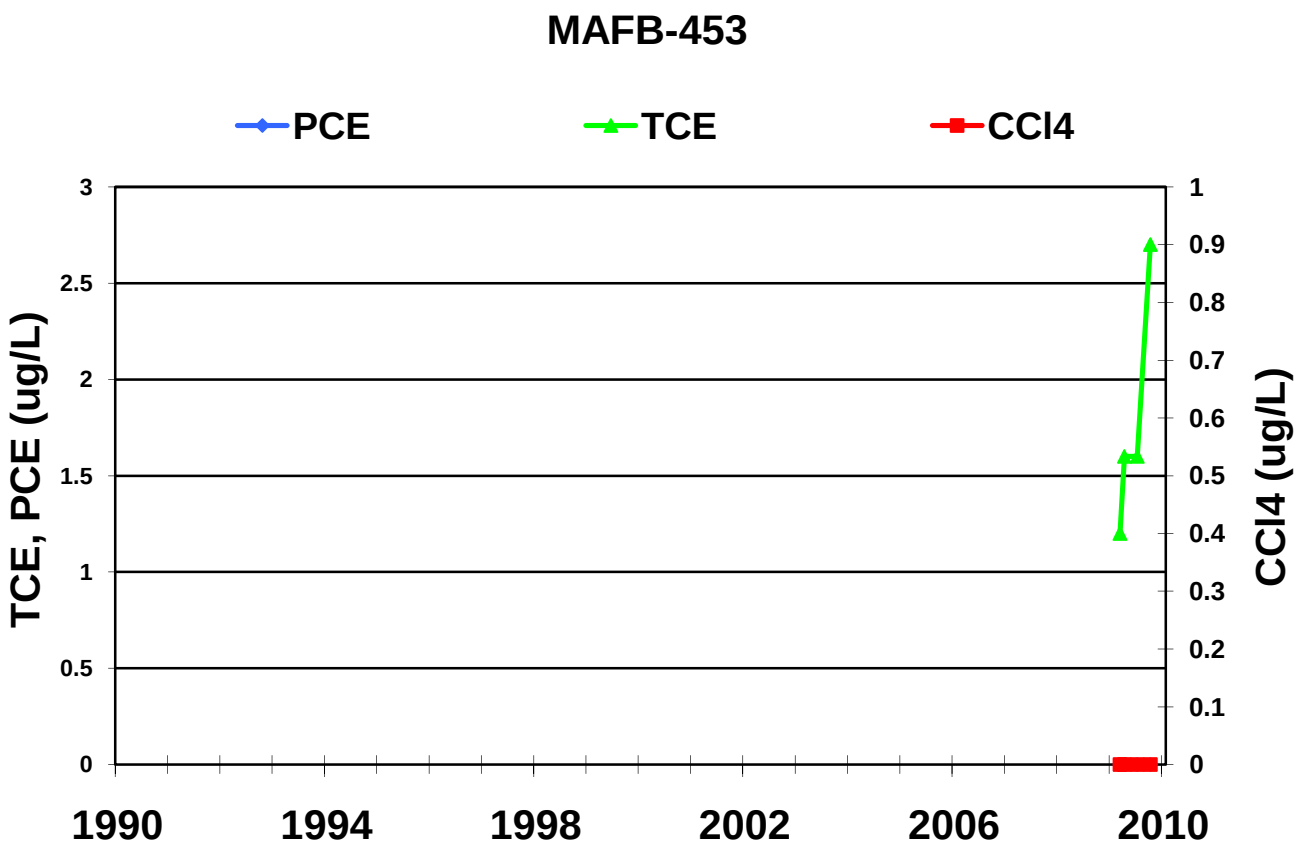

MAFB-449Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

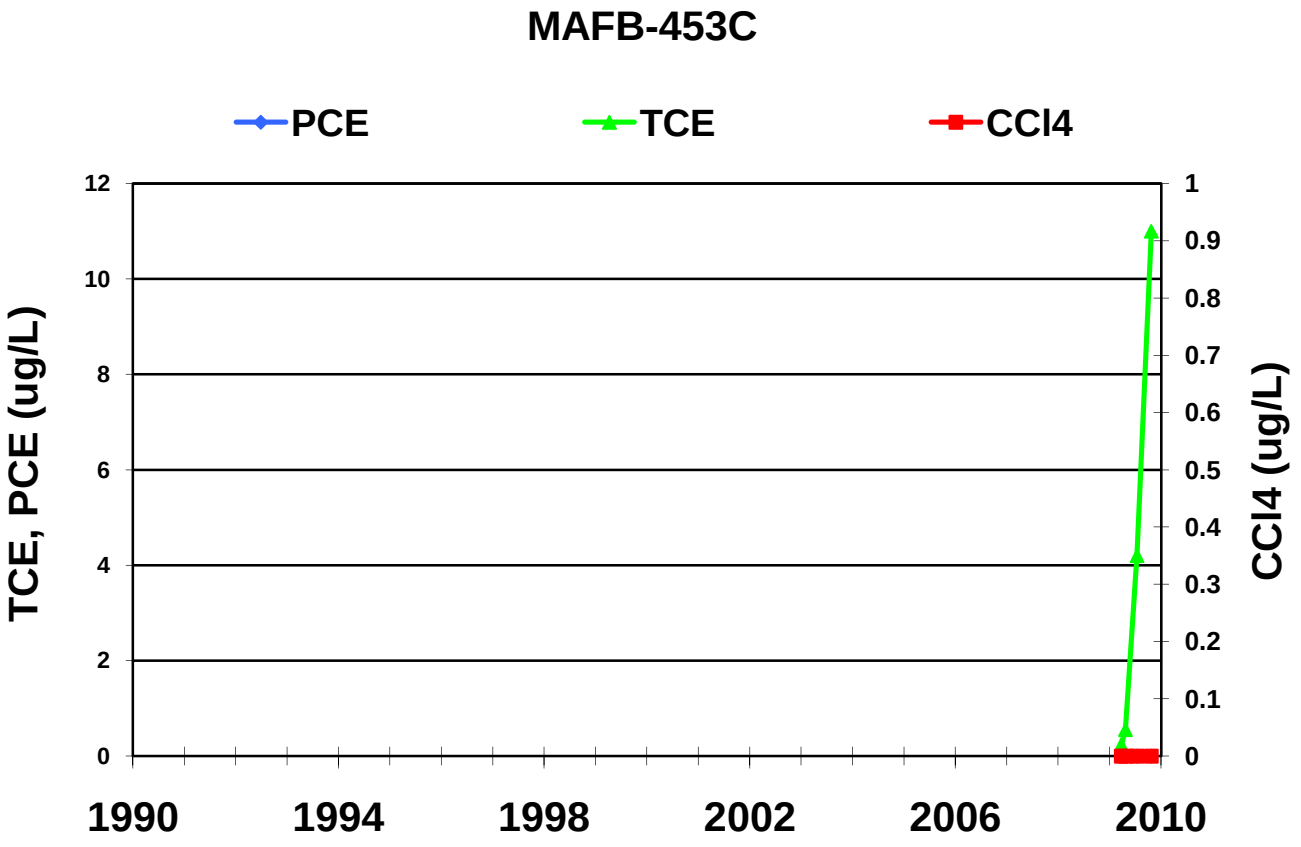

MAFB-450
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

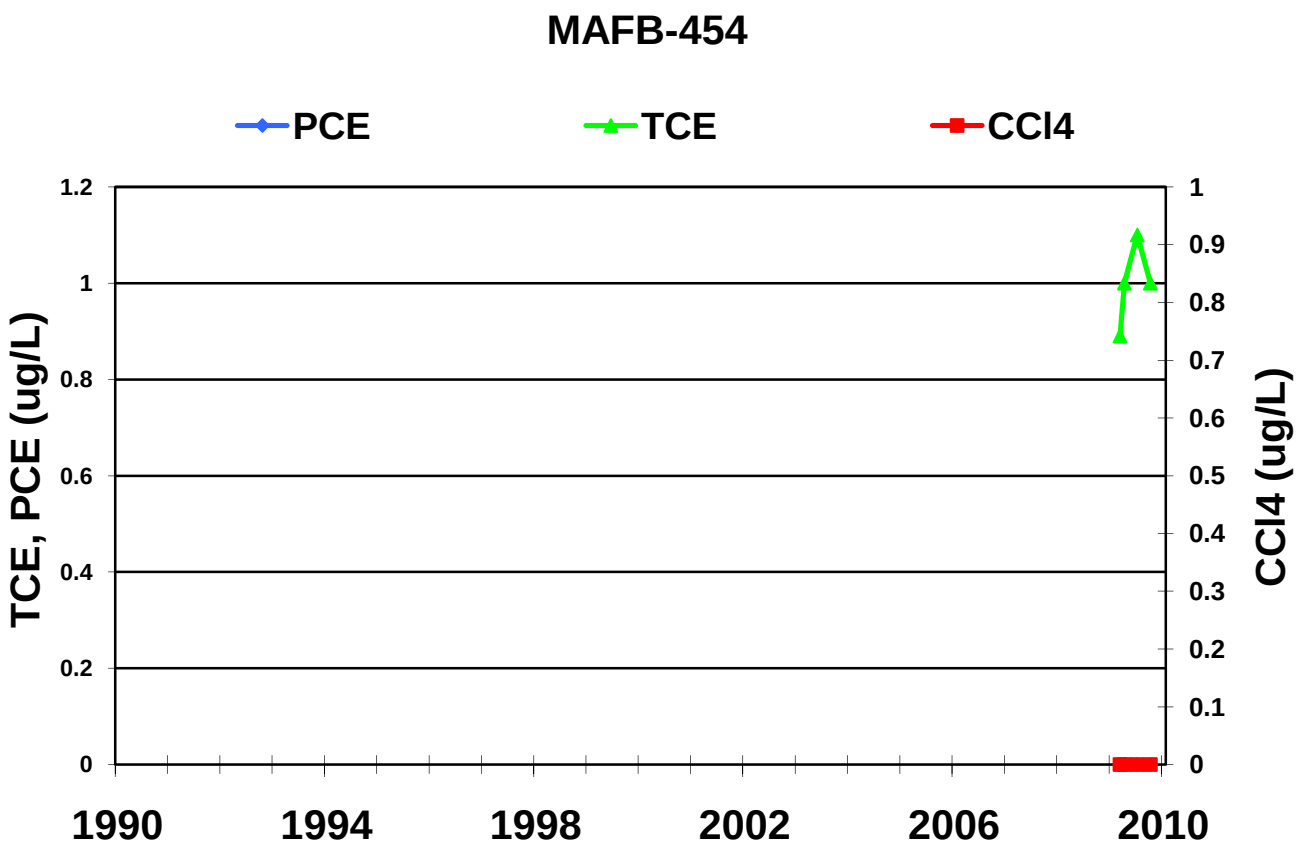

MAFB-451
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

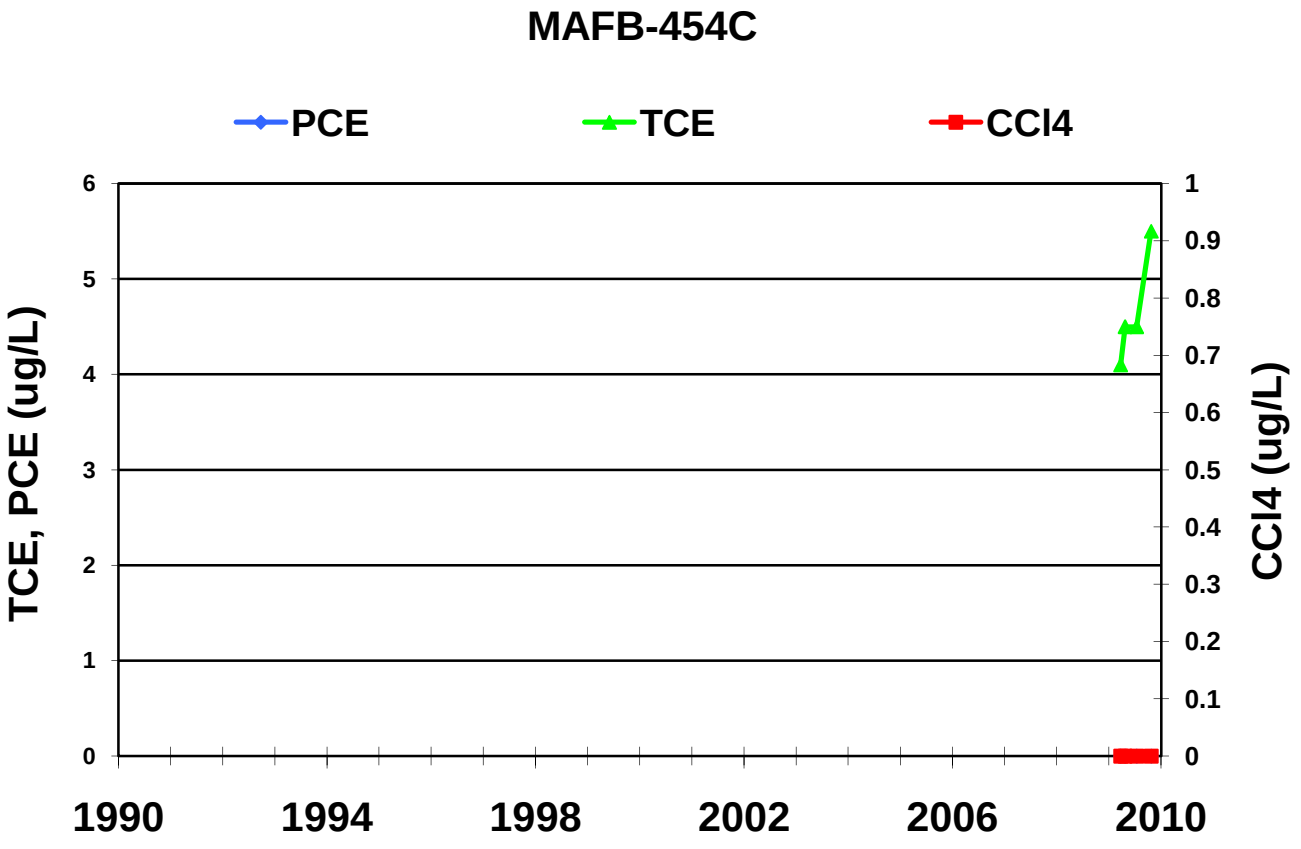

MAFB-452B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

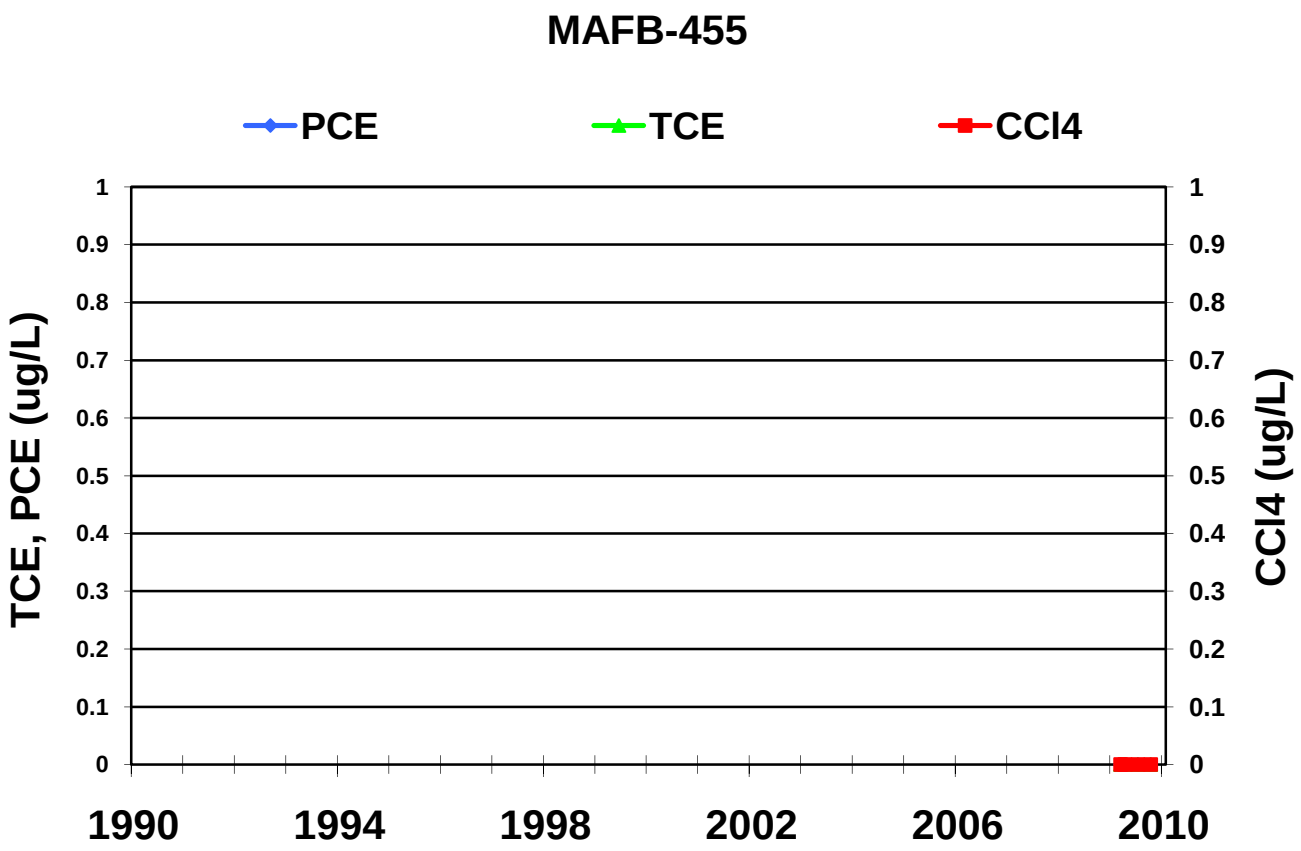

MAFB-452Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

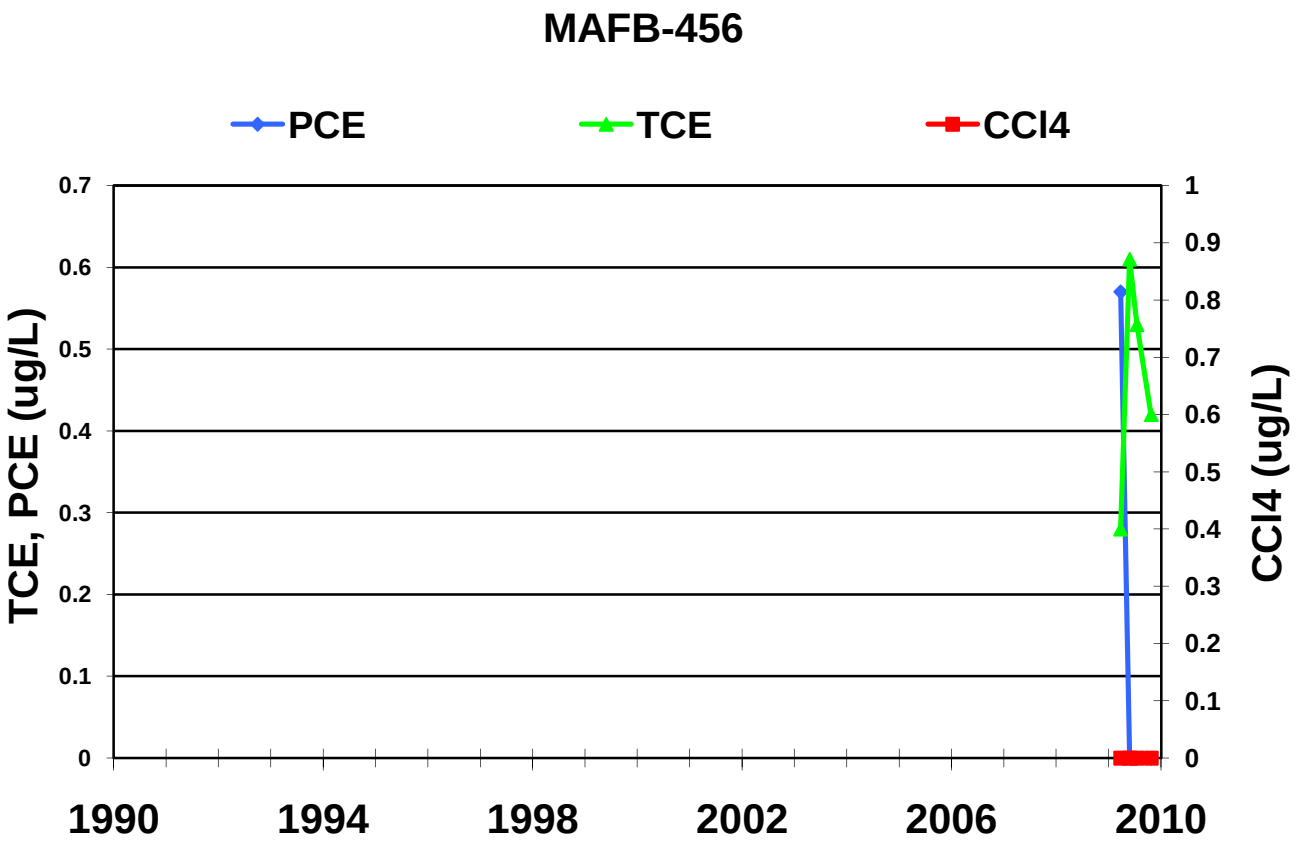

MAFB-453
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

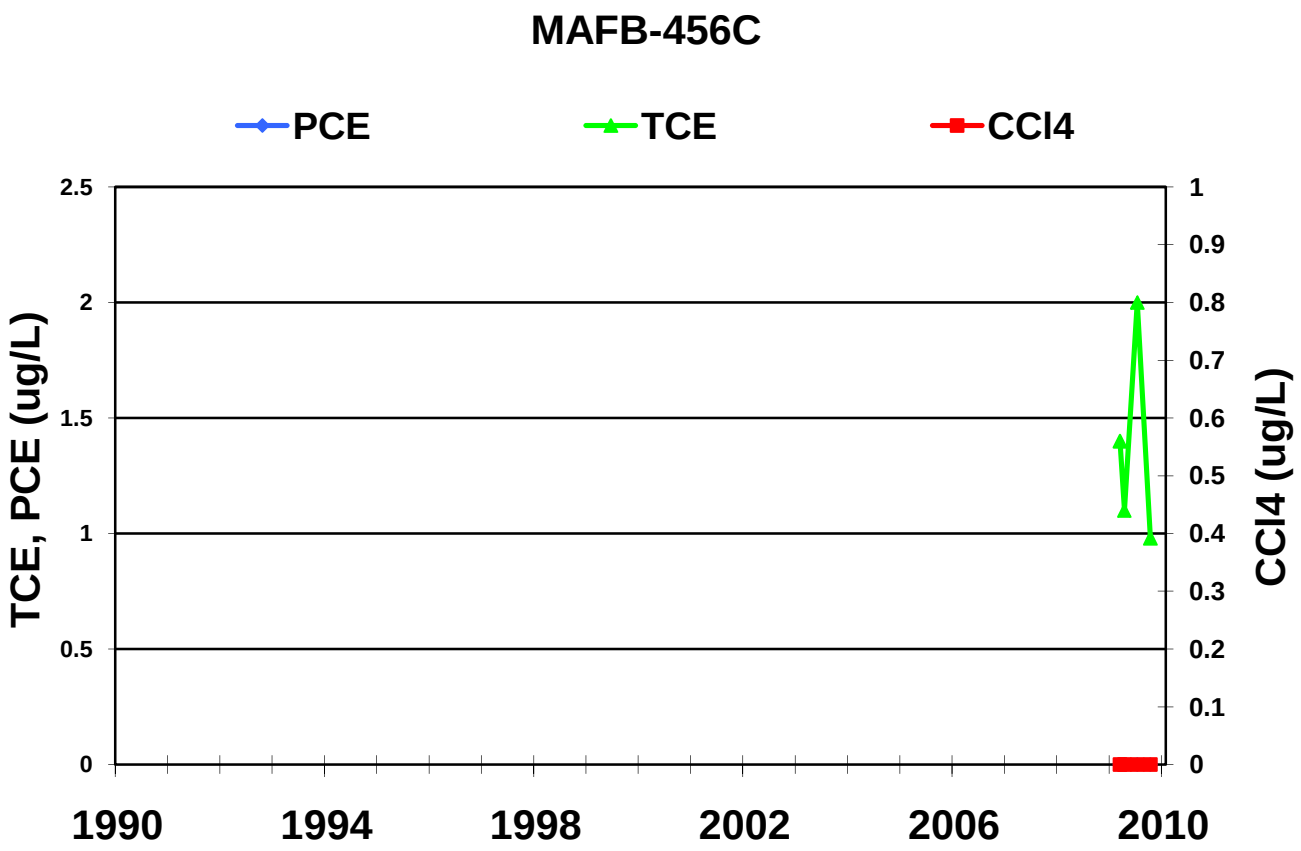

MAFB-453C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

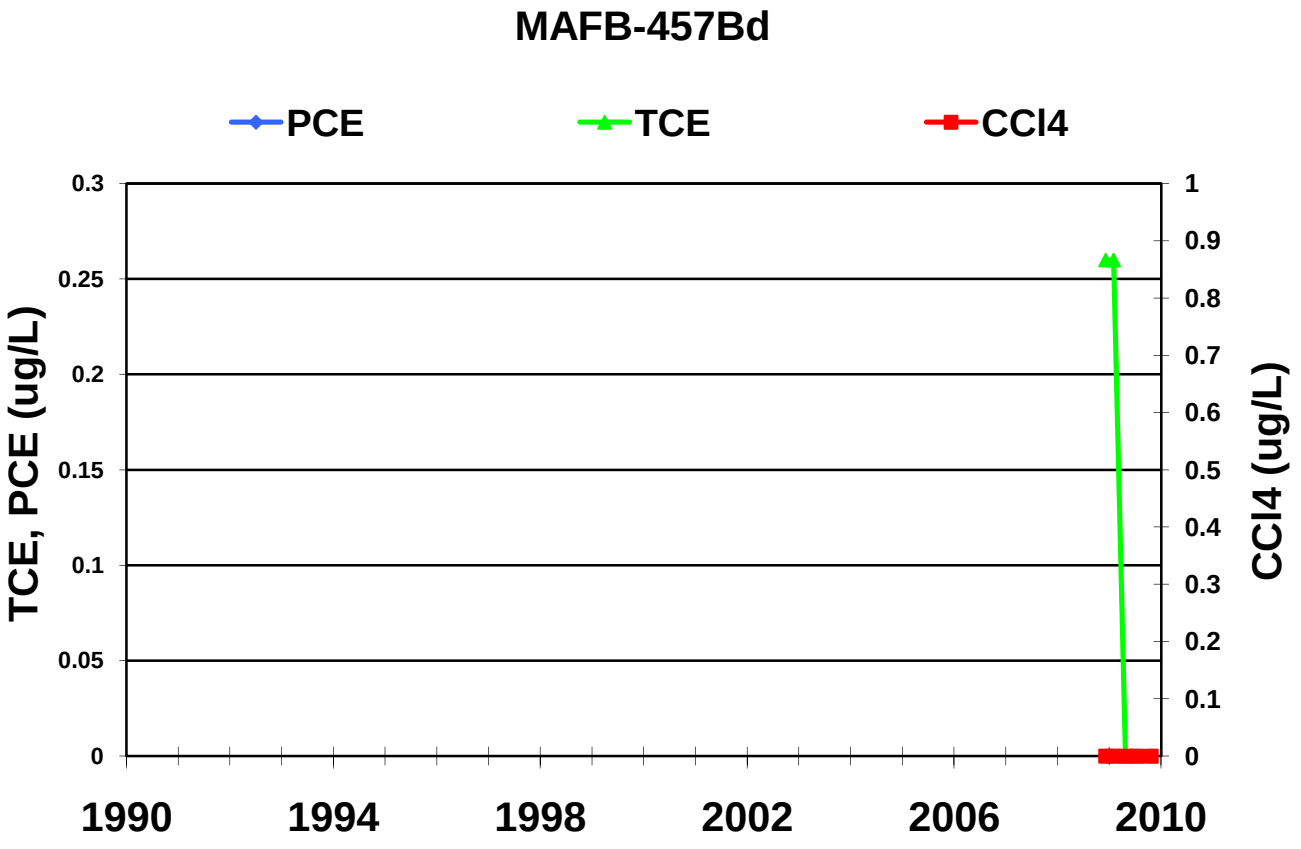

MAFB-454
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

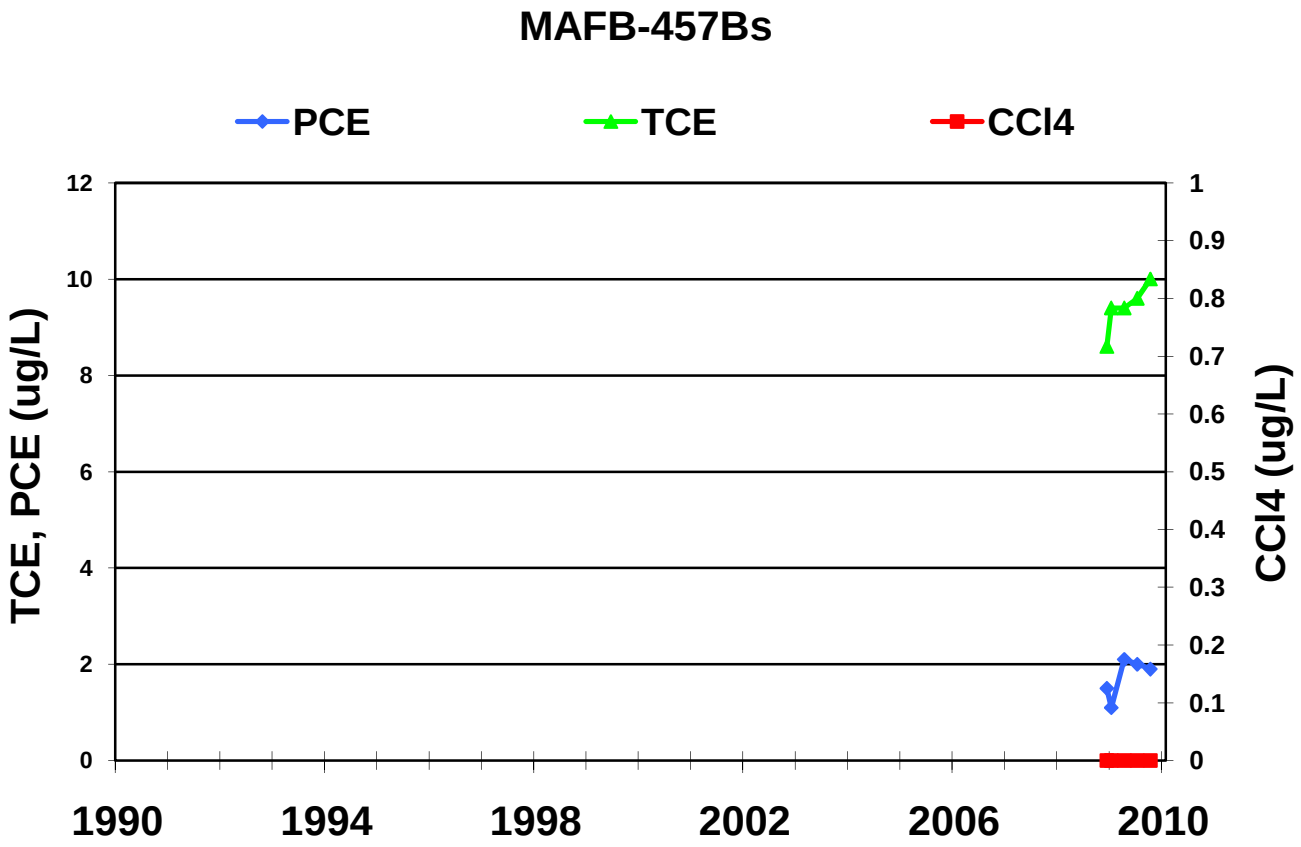

MAFB-454C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

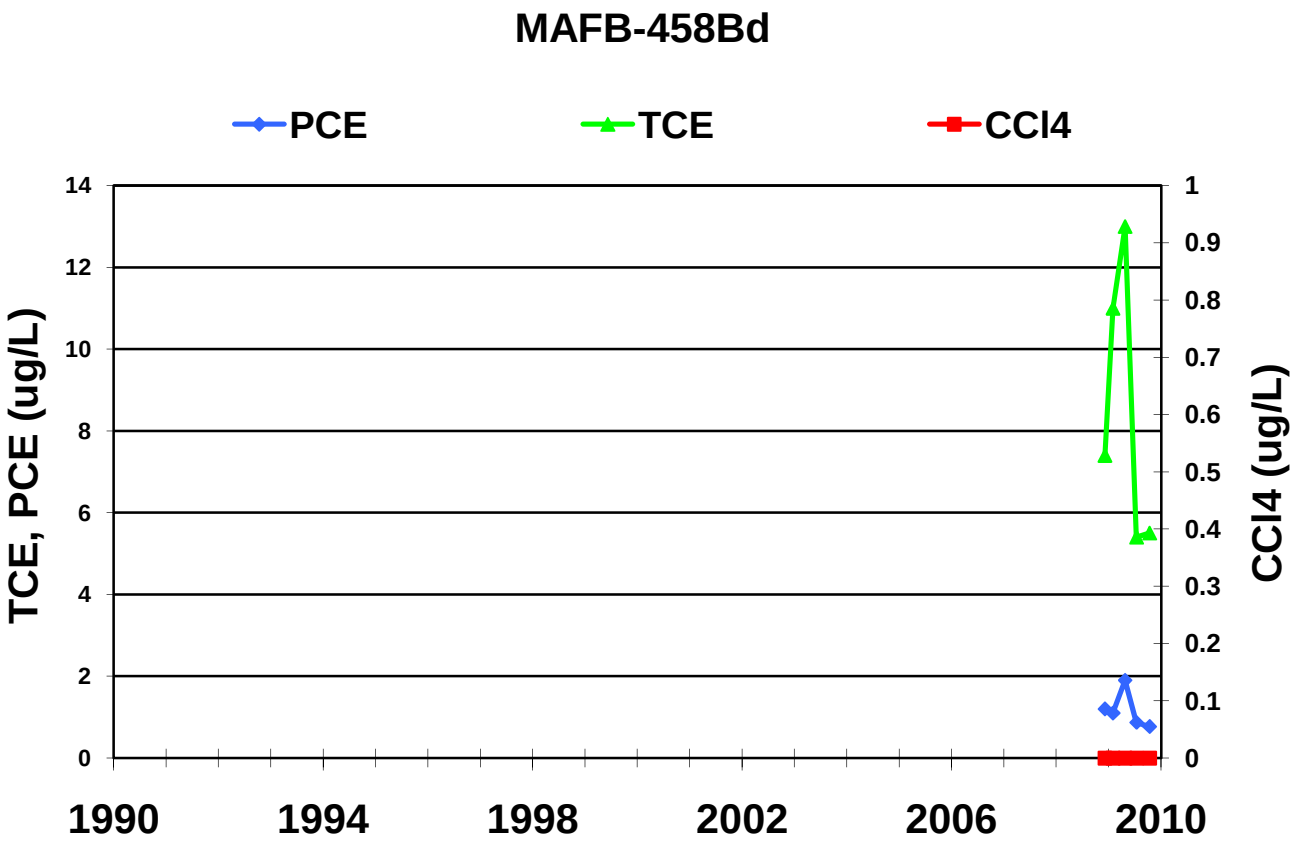

MAFB-455
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

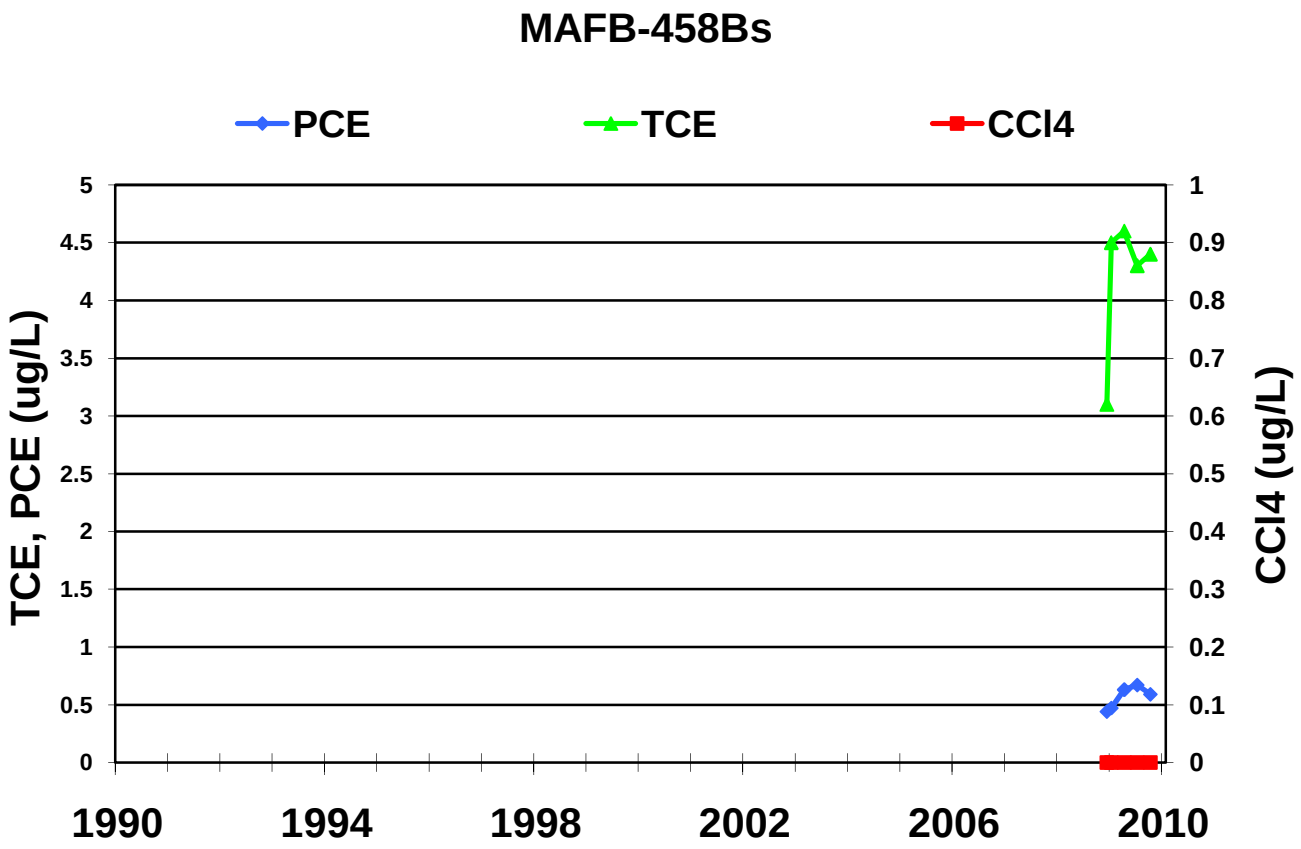

MAFB-456
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

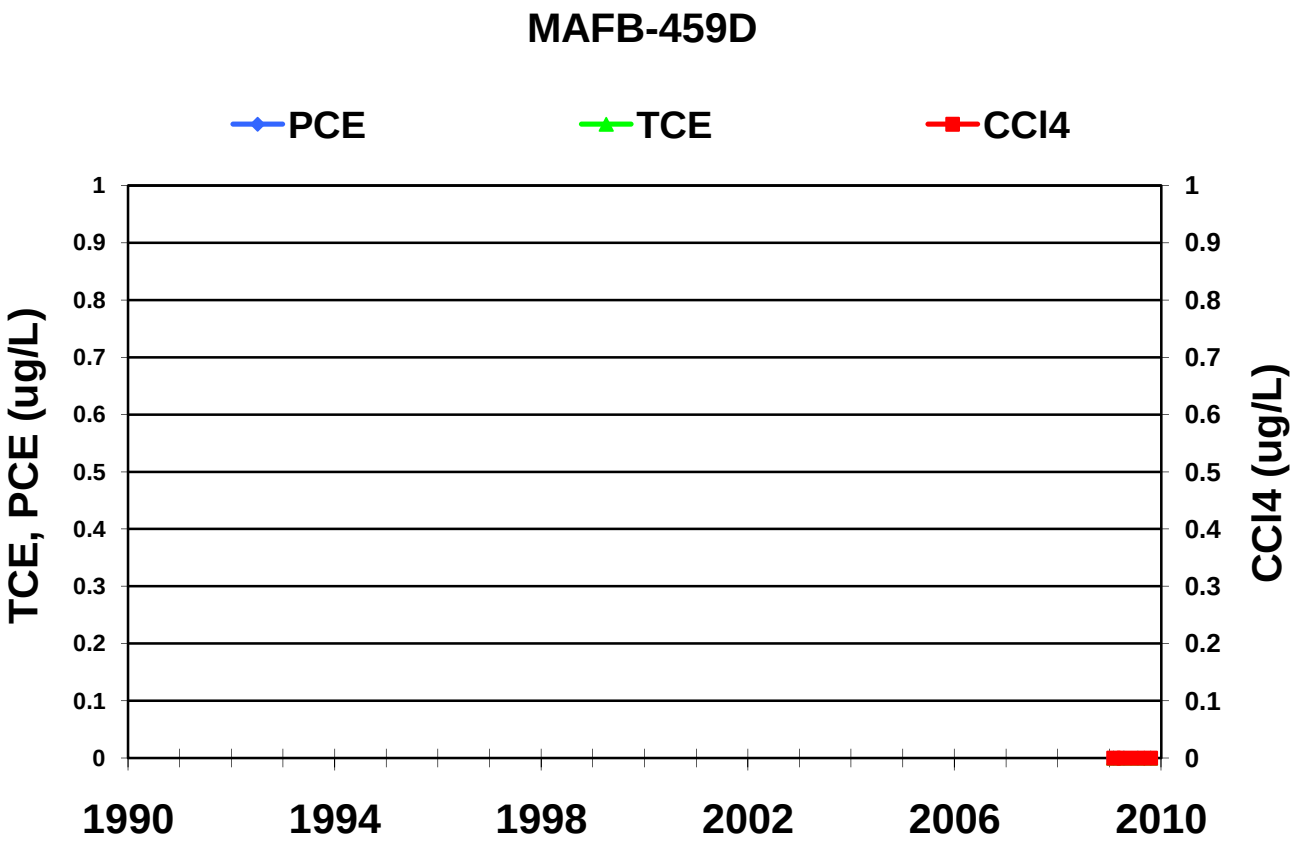

MAFB-456C
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

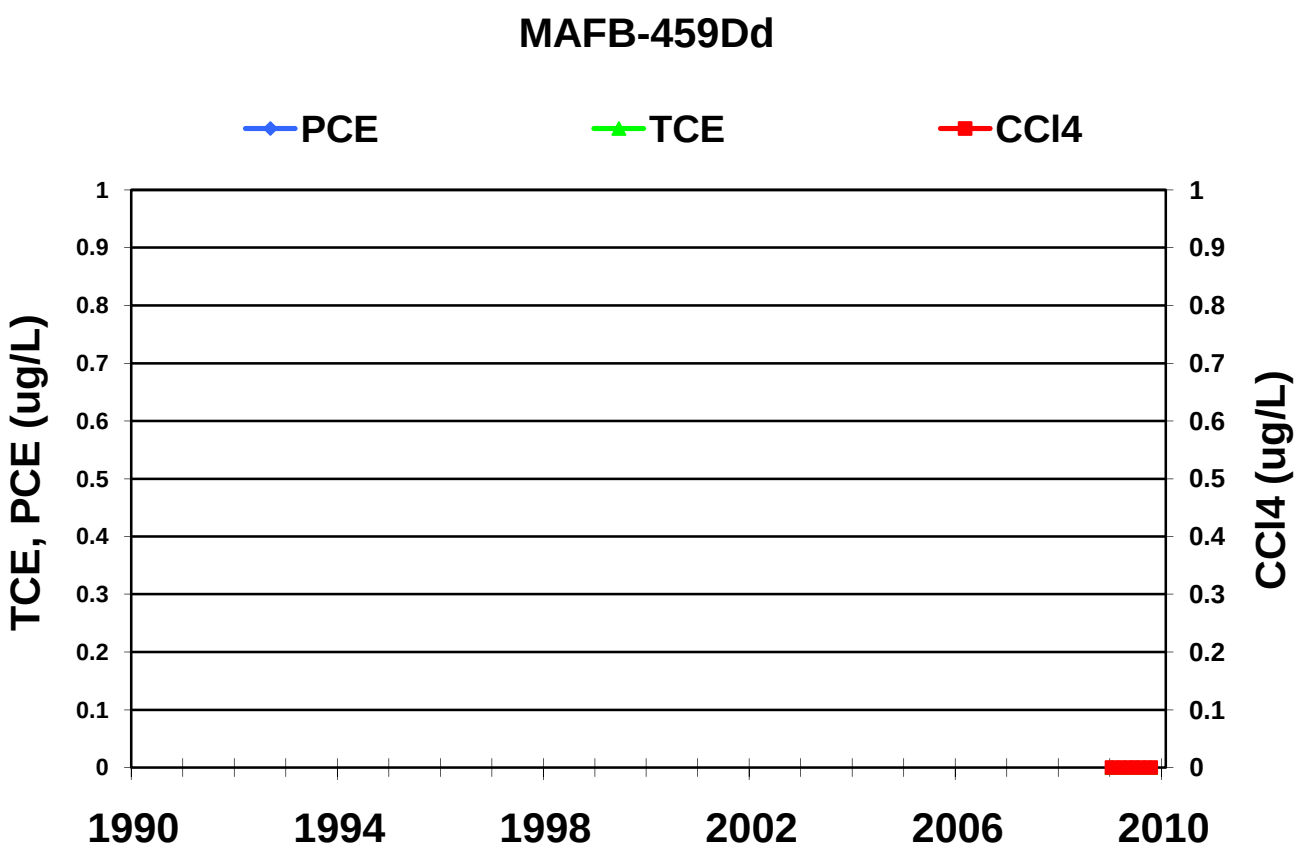

MAFB-457Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

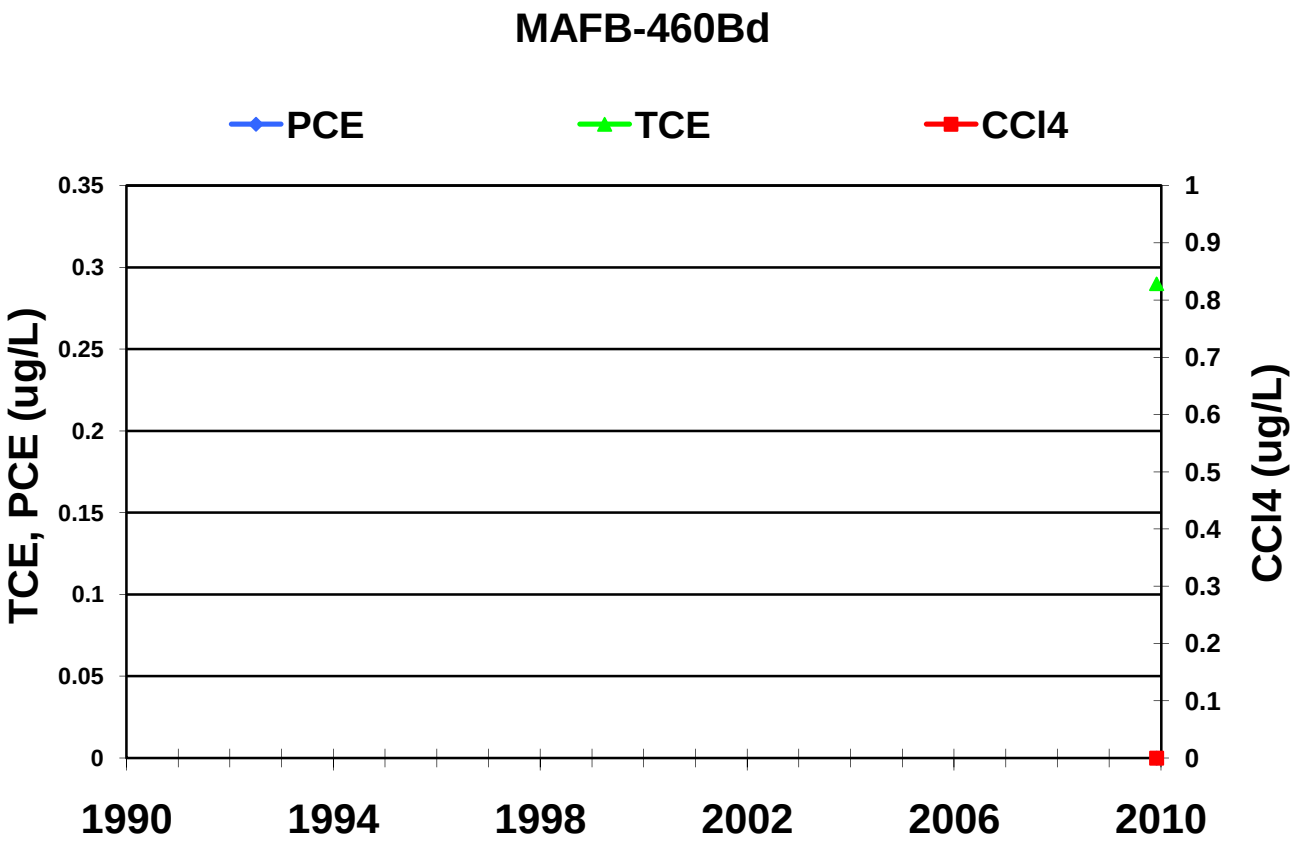

MAFB-457Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

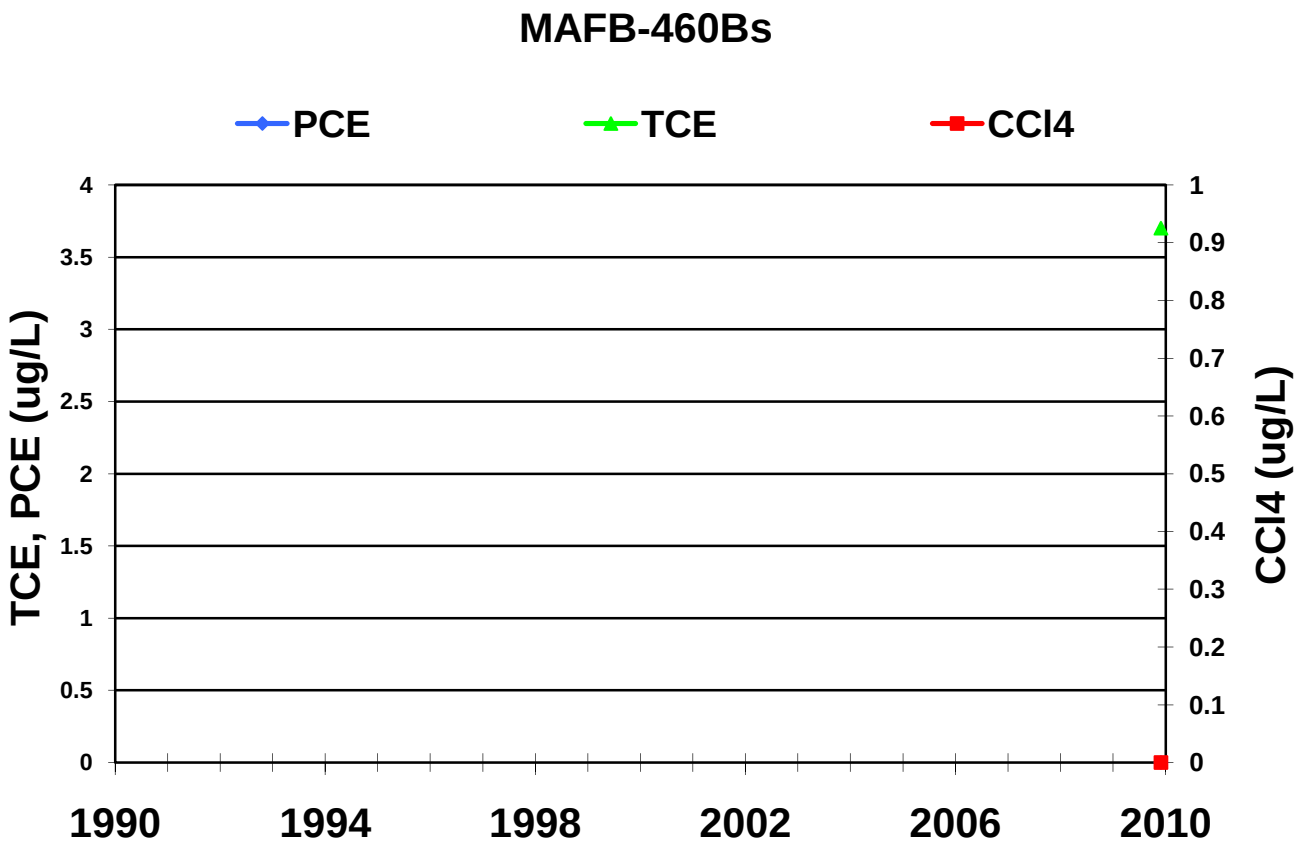

MAFB-458Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

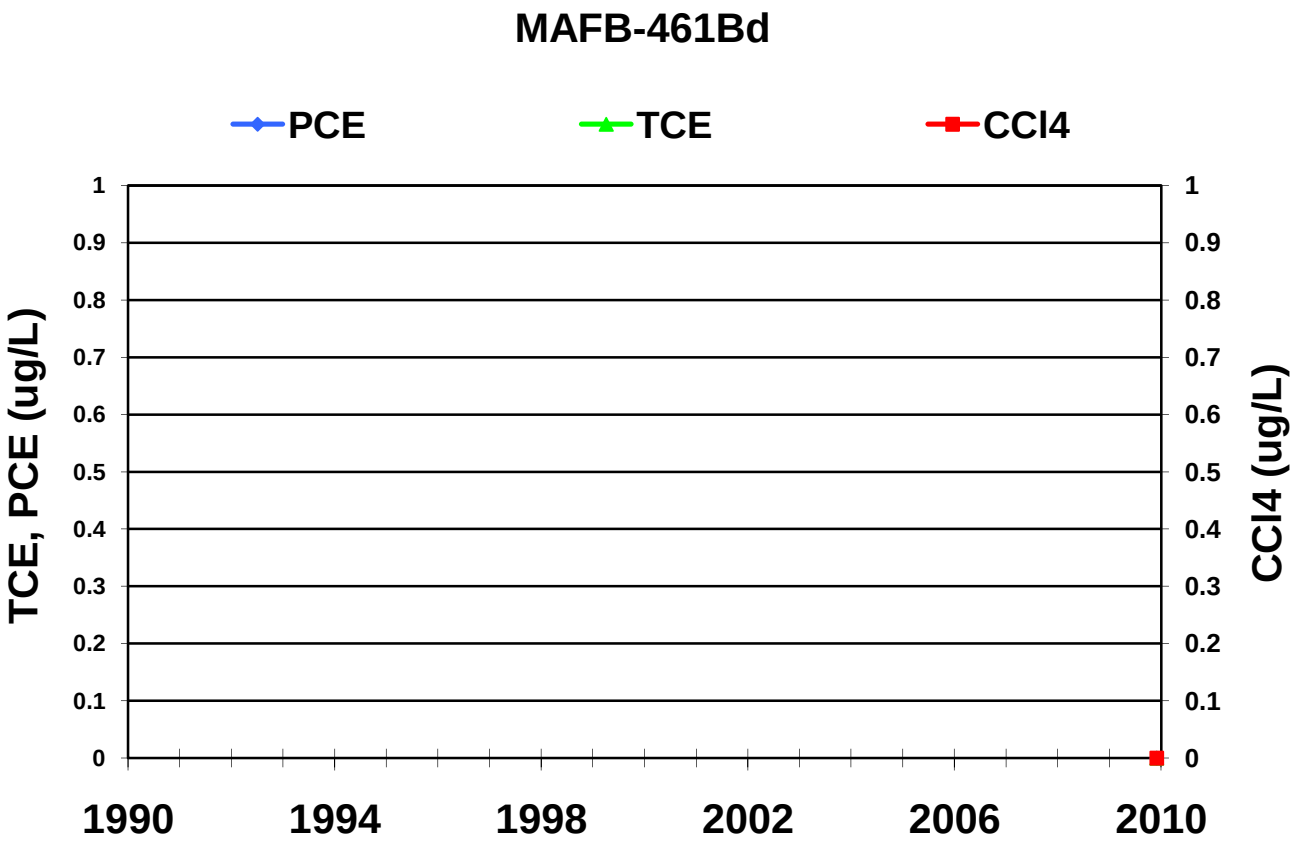

MAFB-458Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

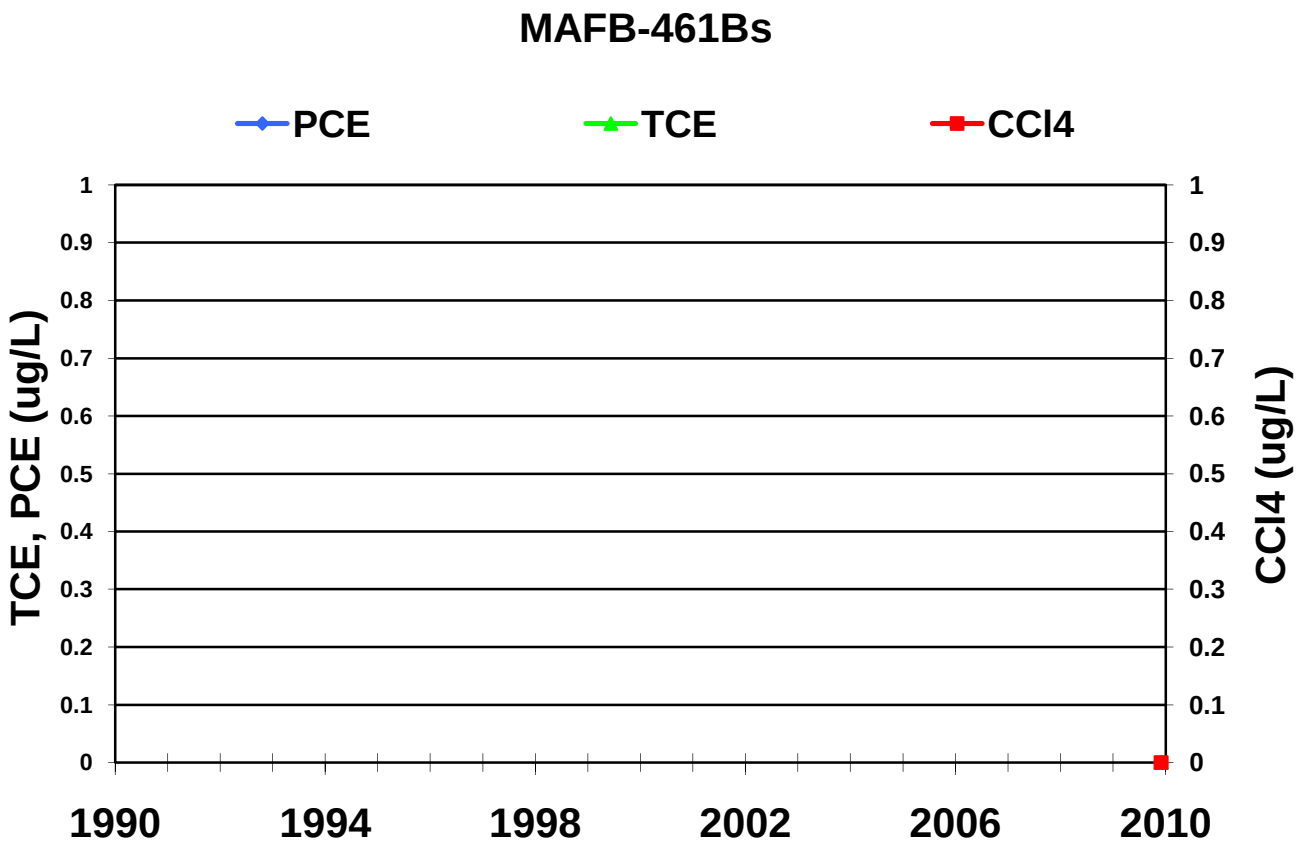

MAFB-459D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

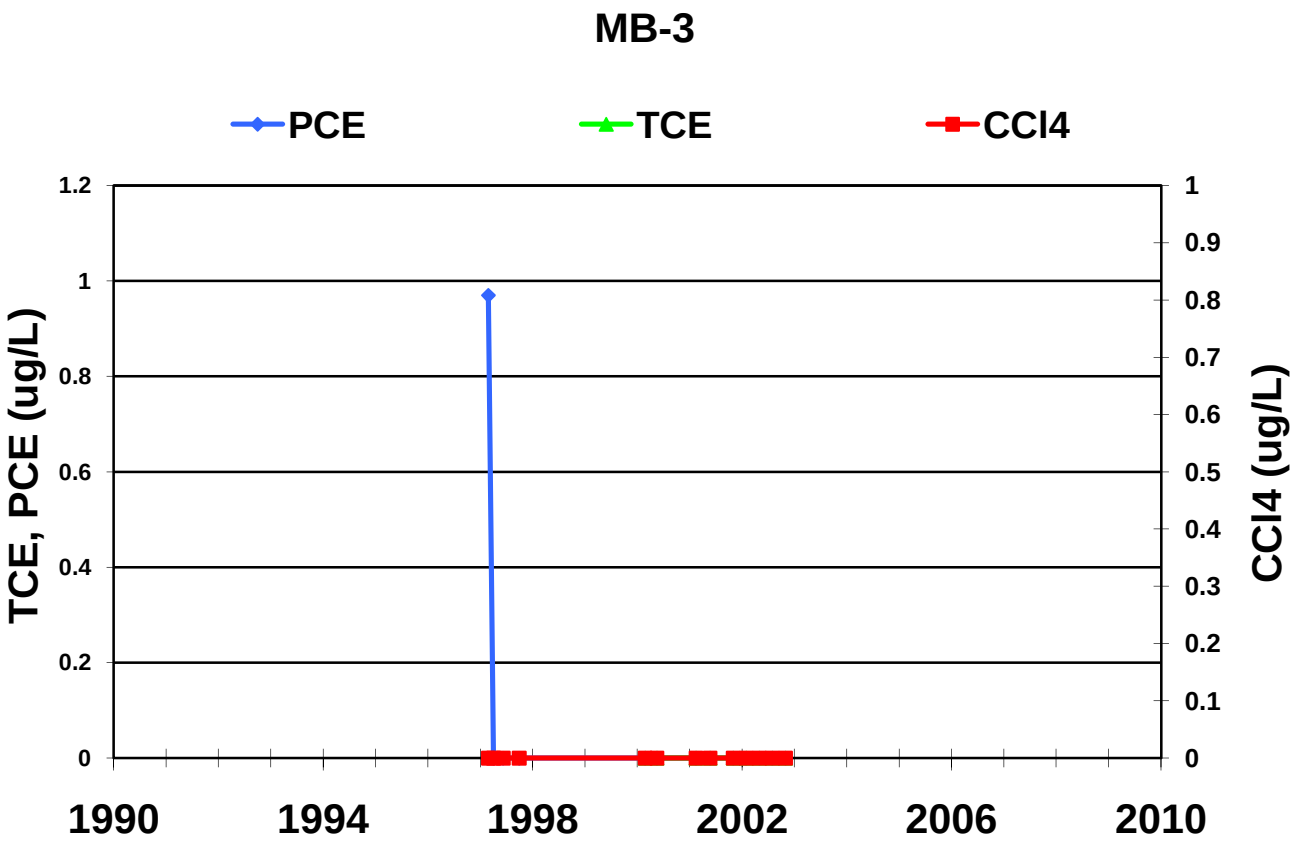

MAFB-459Dd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

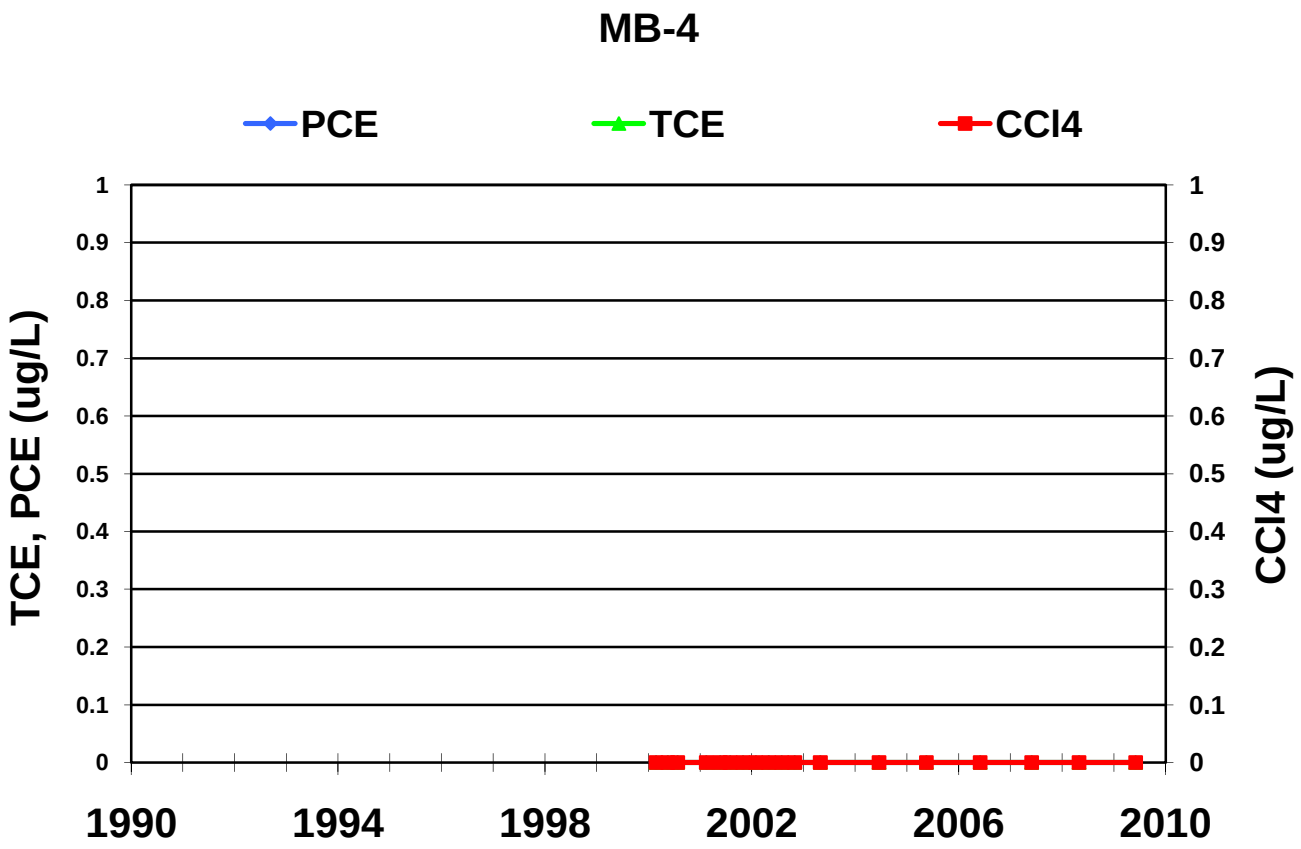

MAFB-460Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

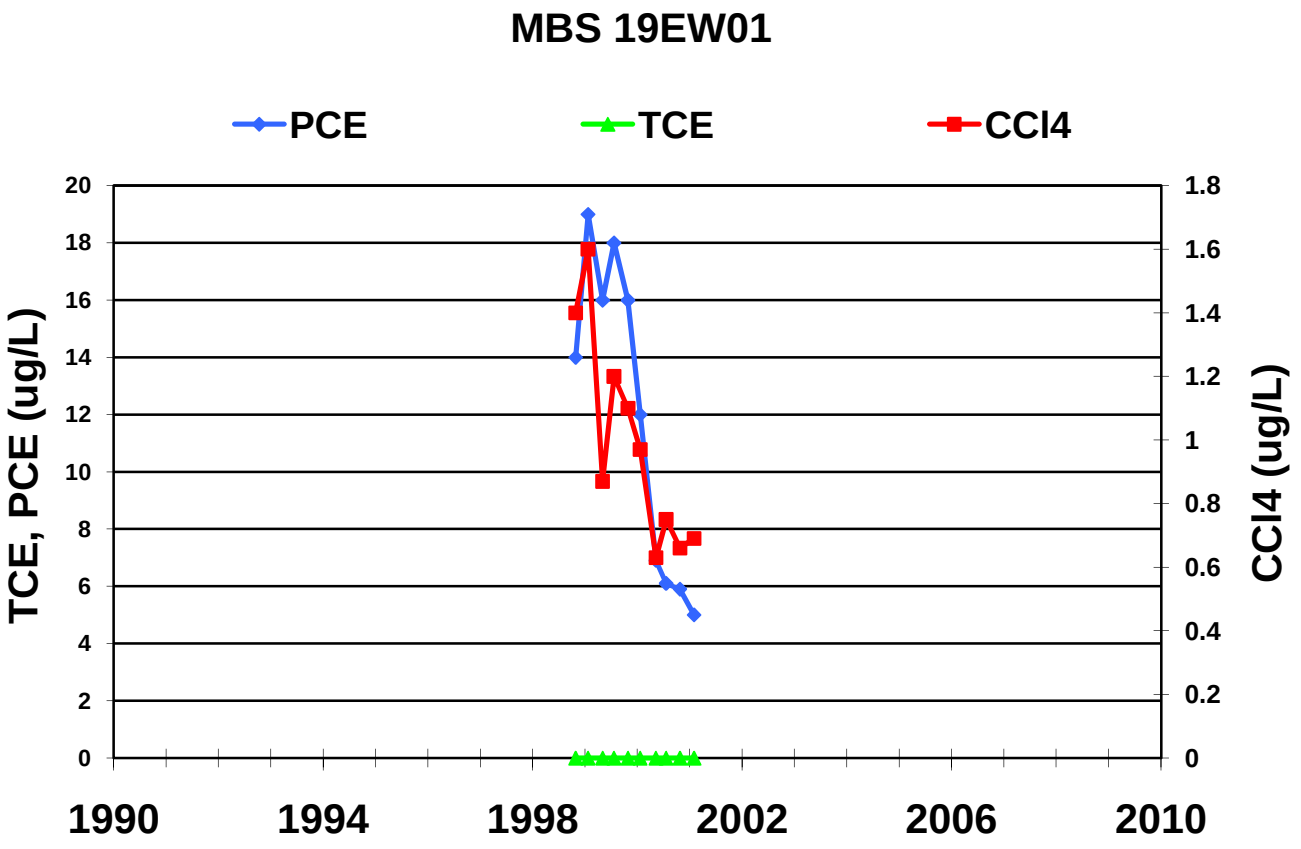

MAFB-460Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

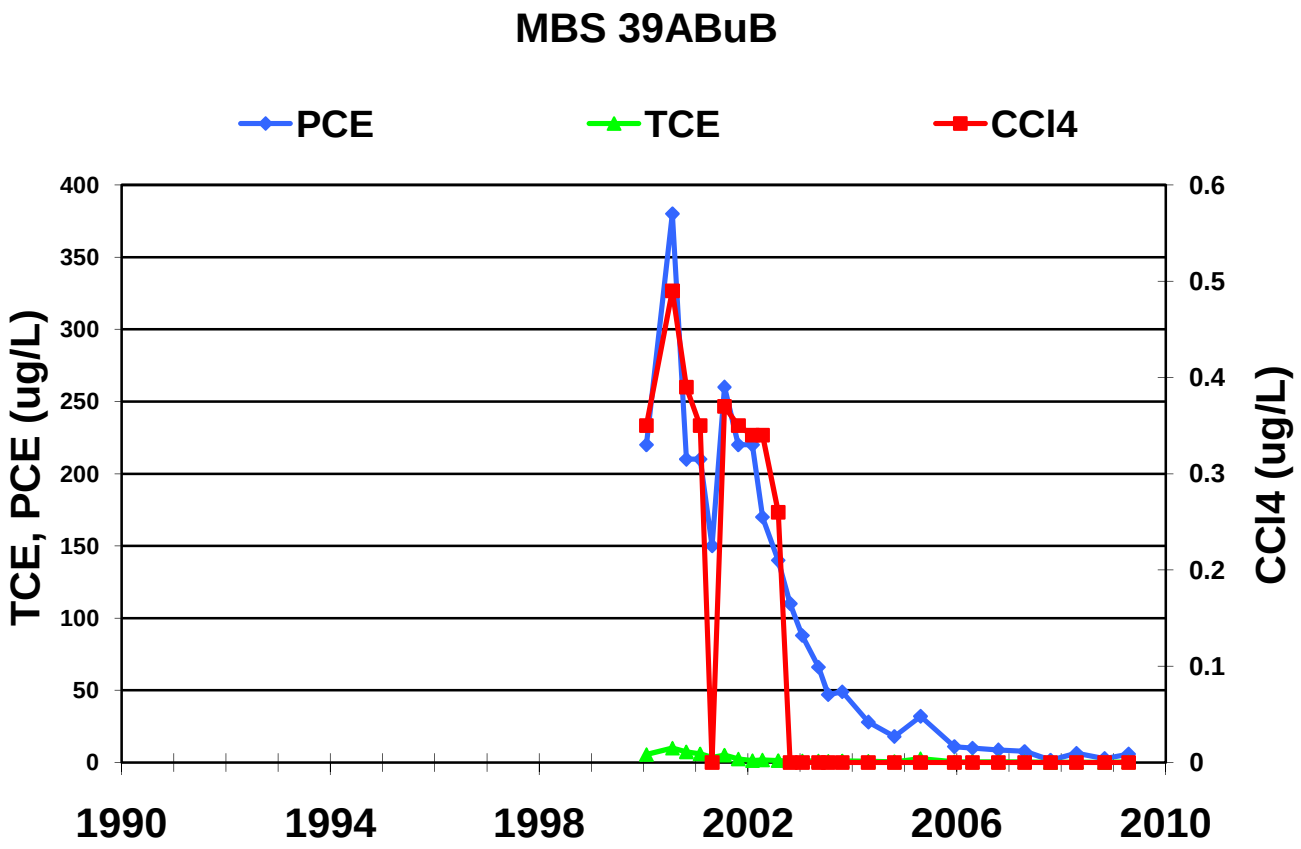

MAFB-461Bd
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

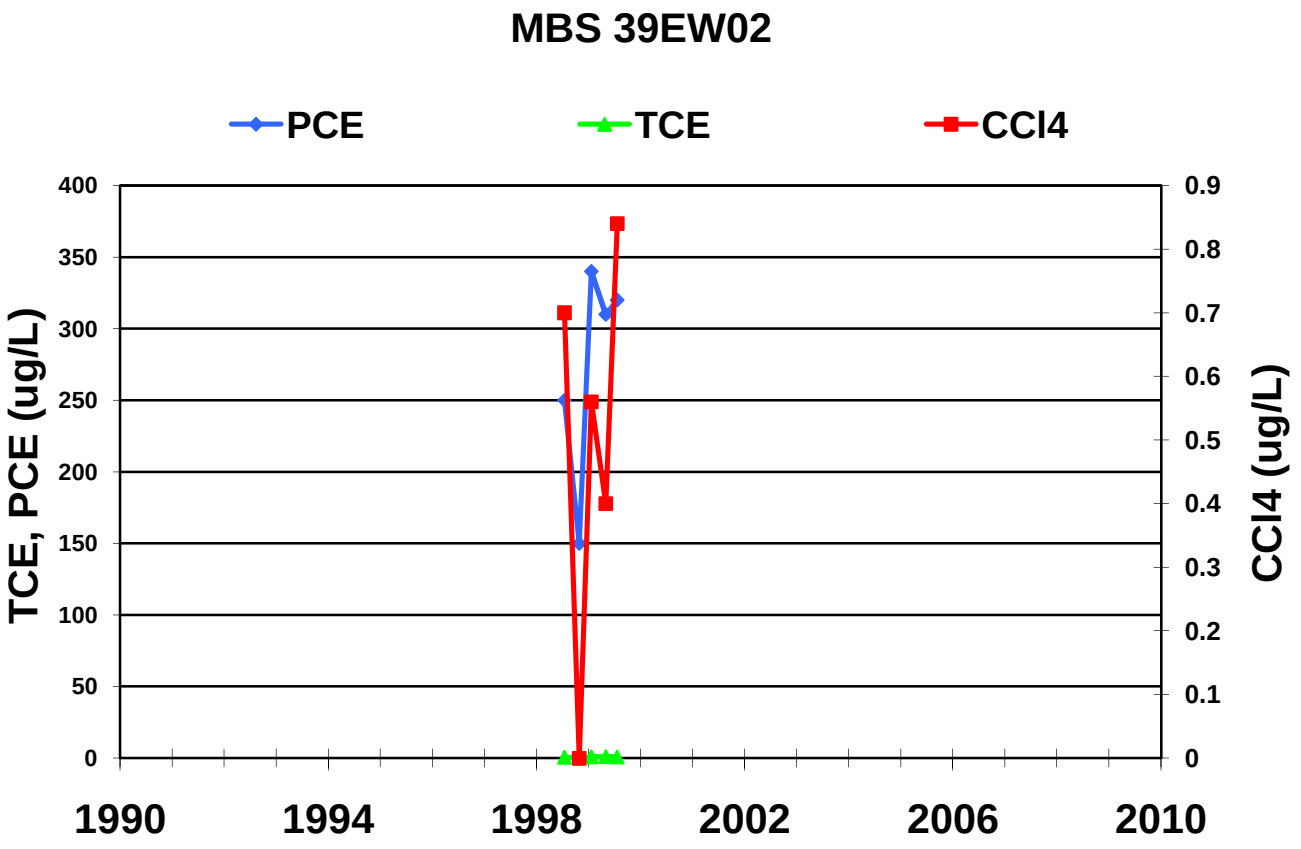

MAFB-461Bs
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010


MB-3
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
0.1
0.3
0.5
0.7
0.9
1990
1994
1998
2002
2006
2010

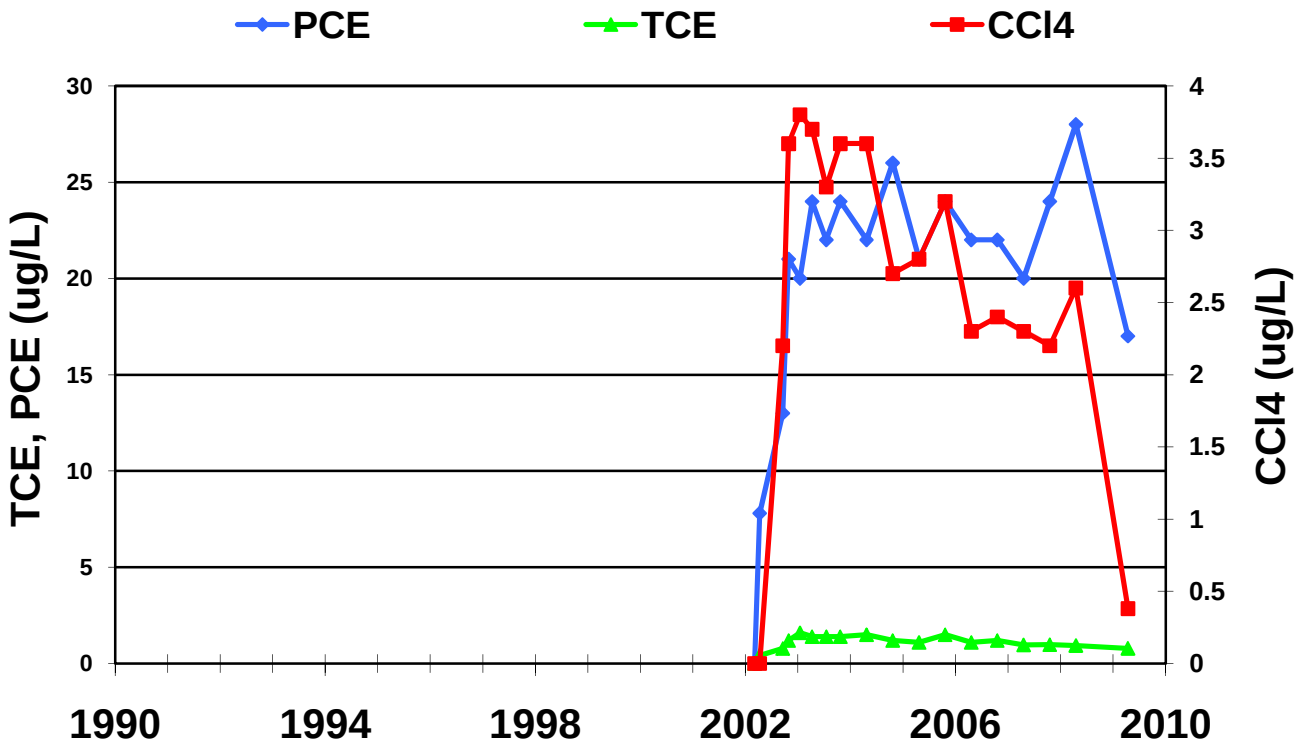

MB-4
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MBS 19EW01
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
20
18
16
14
12
10
8
6
4
2
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

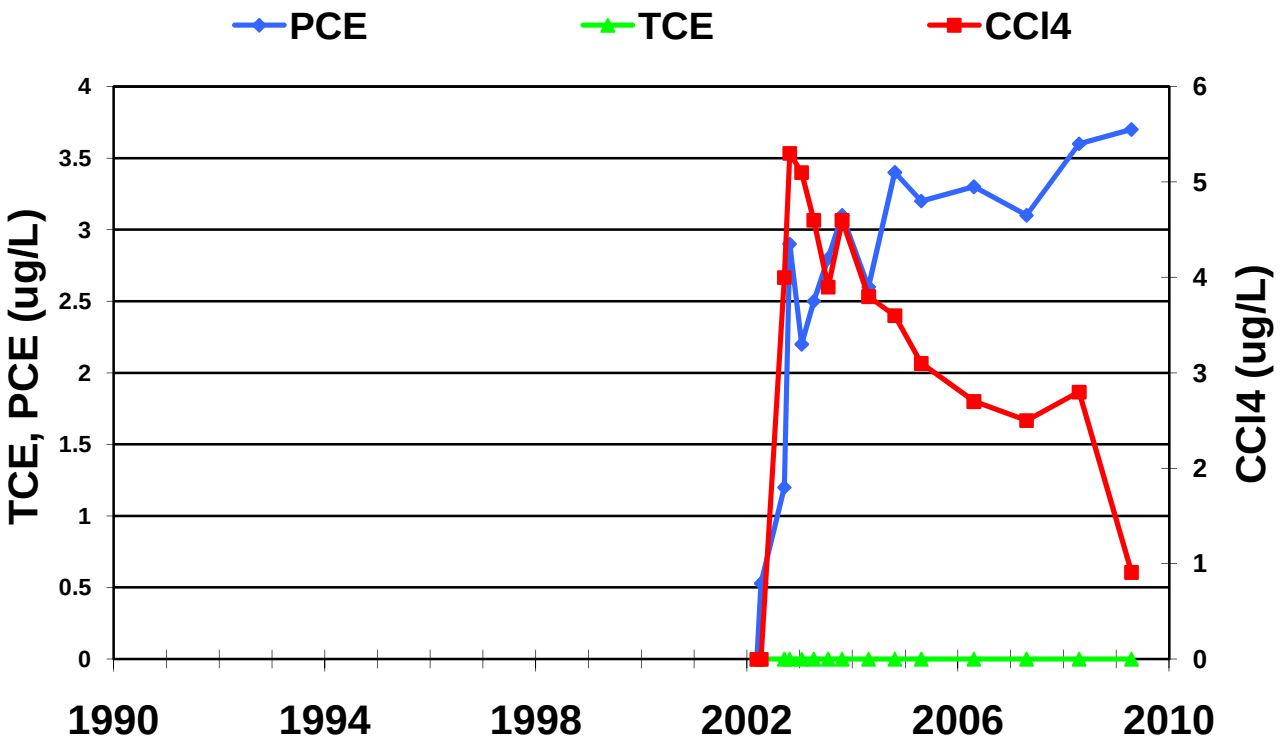

MBS 39ABuB
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
400
350
300
250
200
150
100
50
0
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MBS 39EW02
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
400
350
300
250
200
150
100
50
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

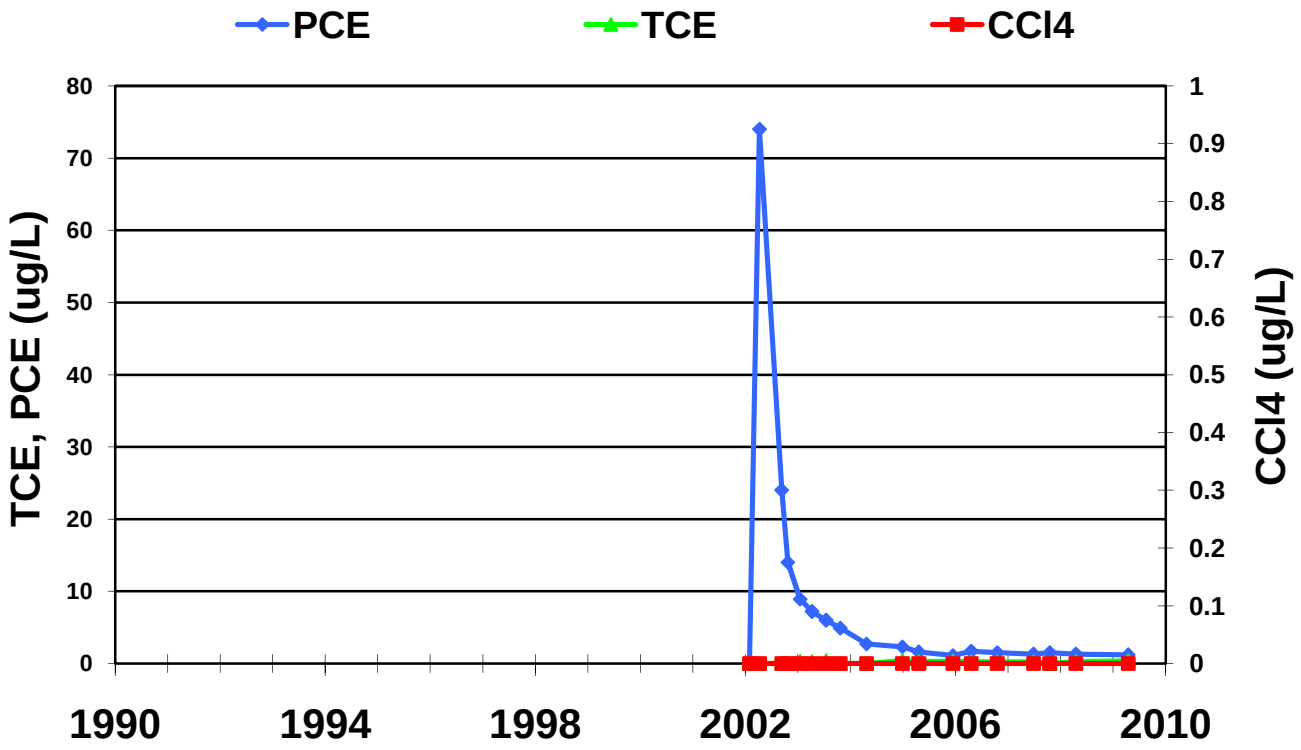
MBS EW-10B



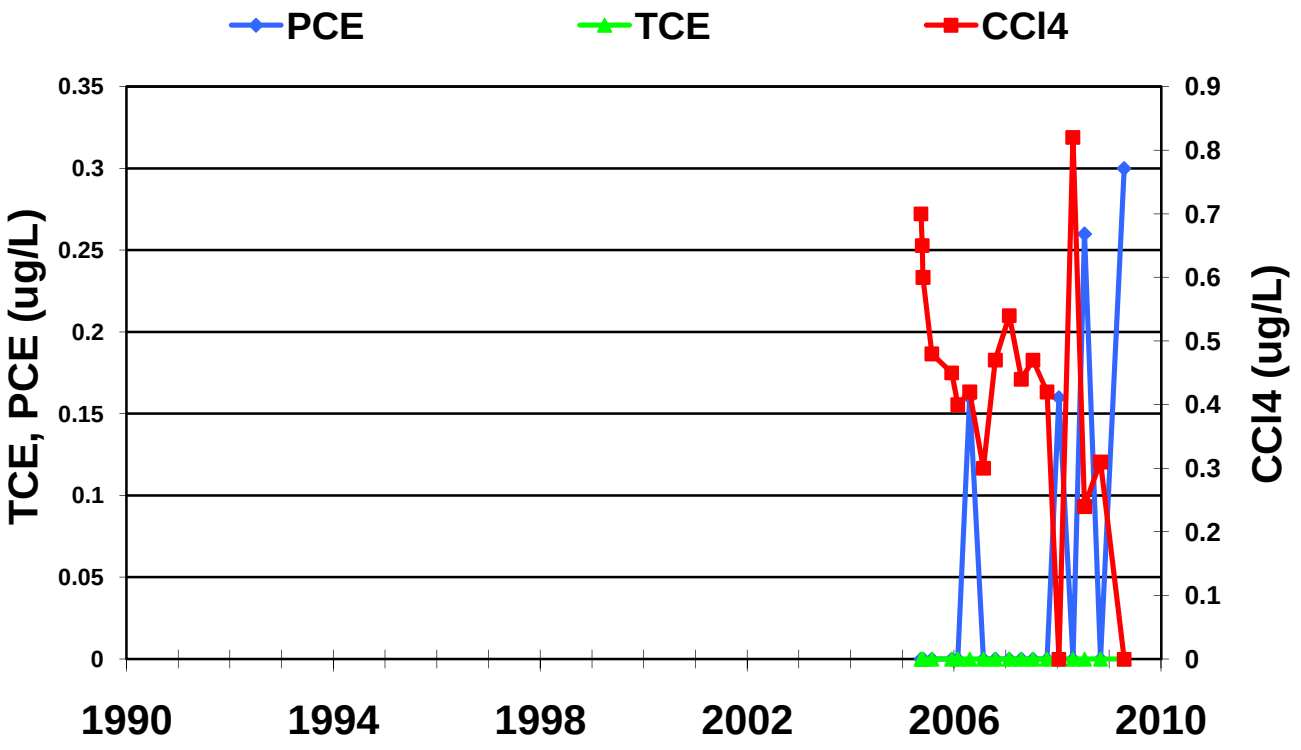
MBS EW-11B

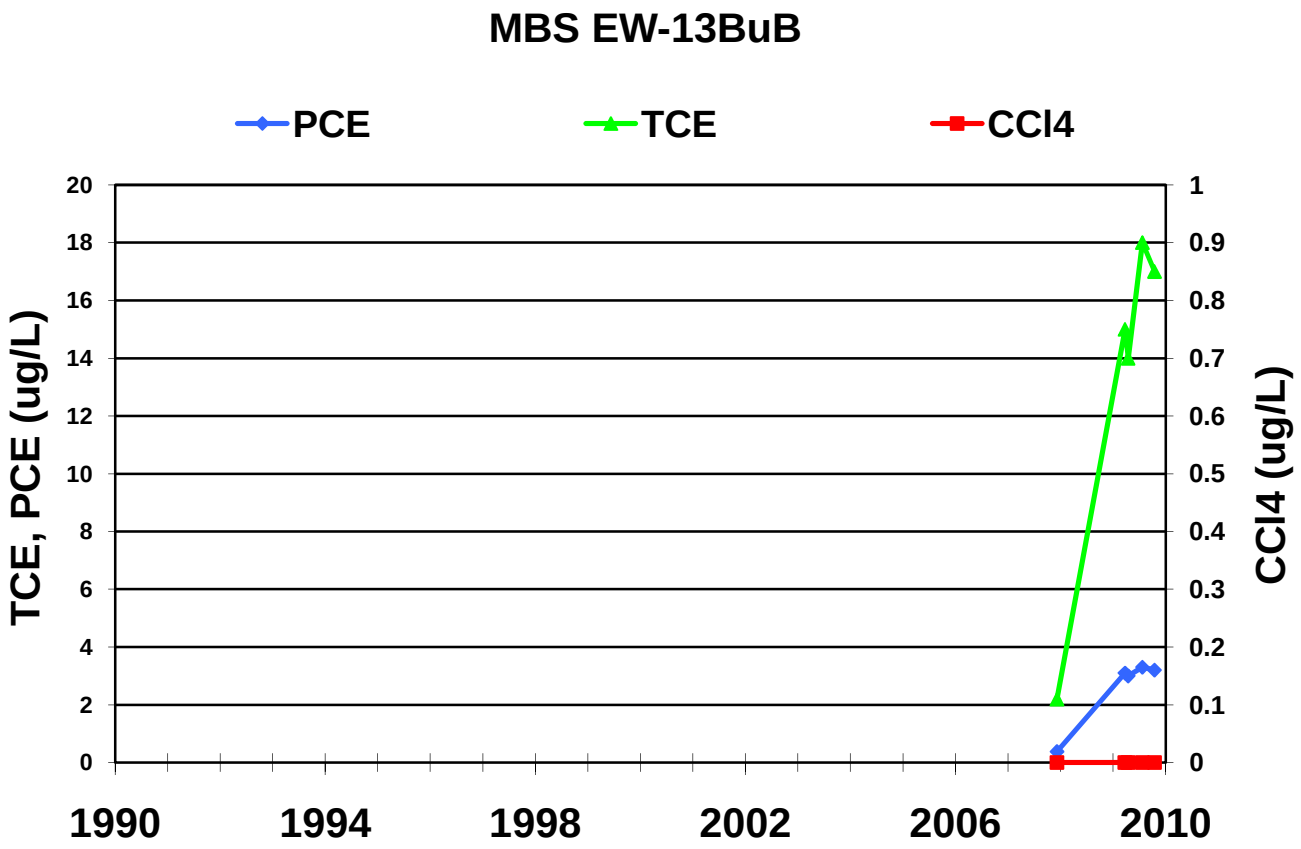


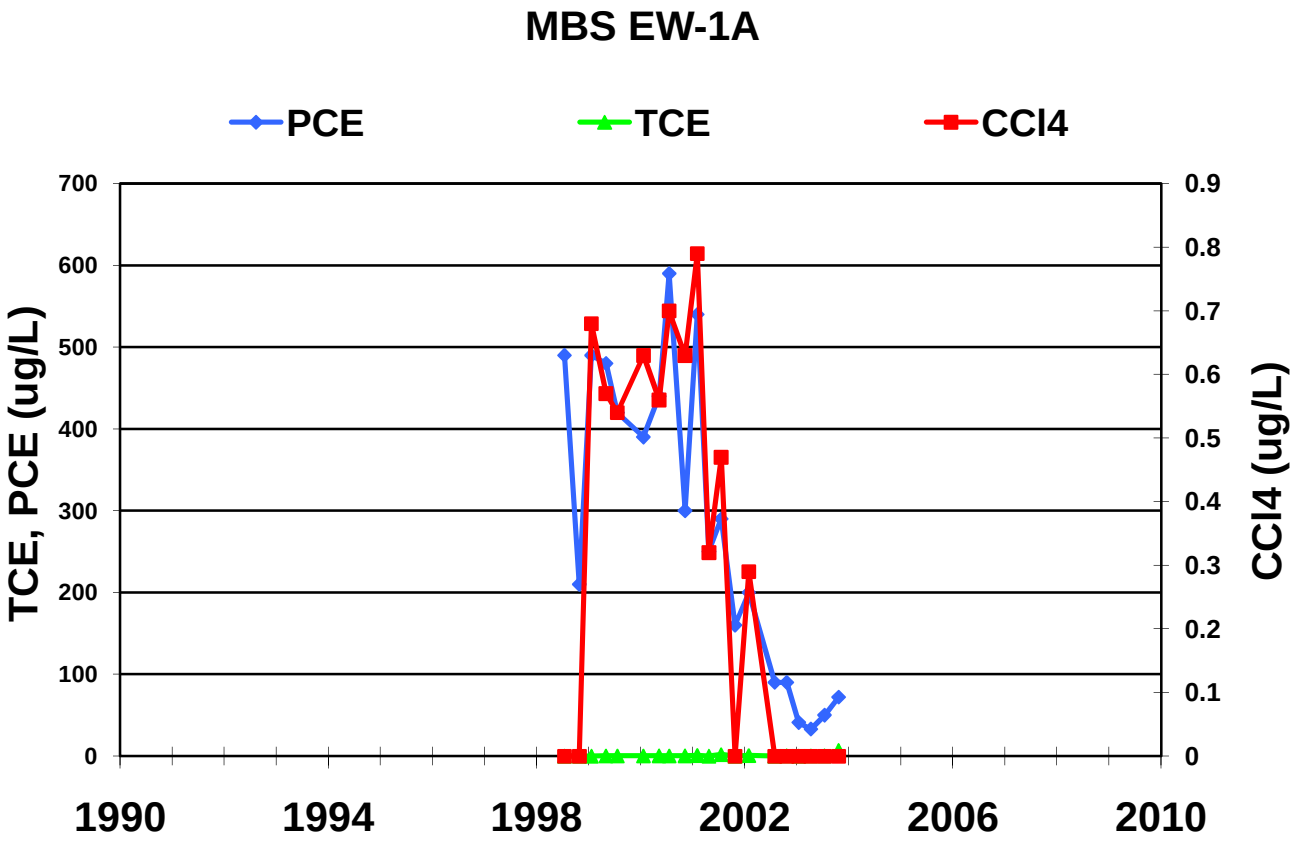
MBS EW-12AB

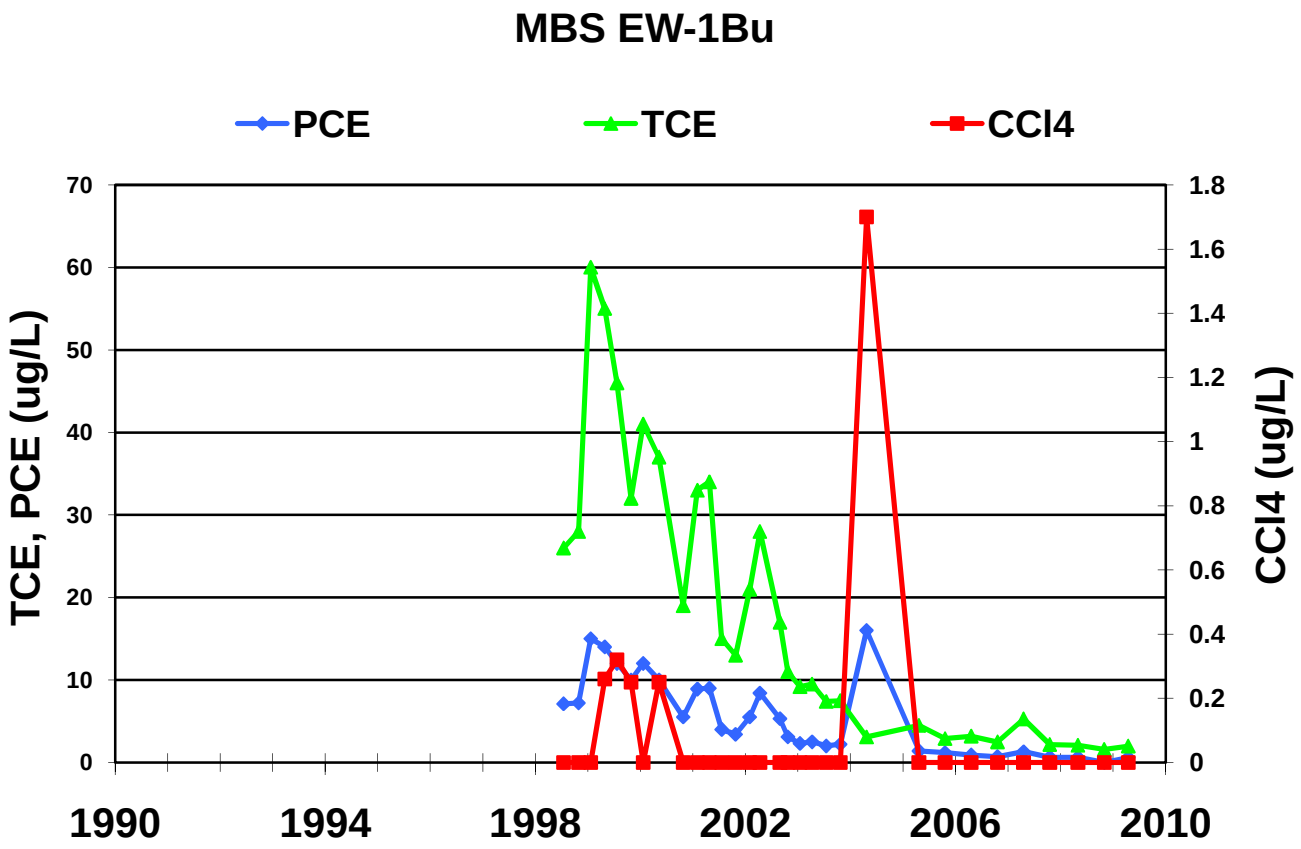


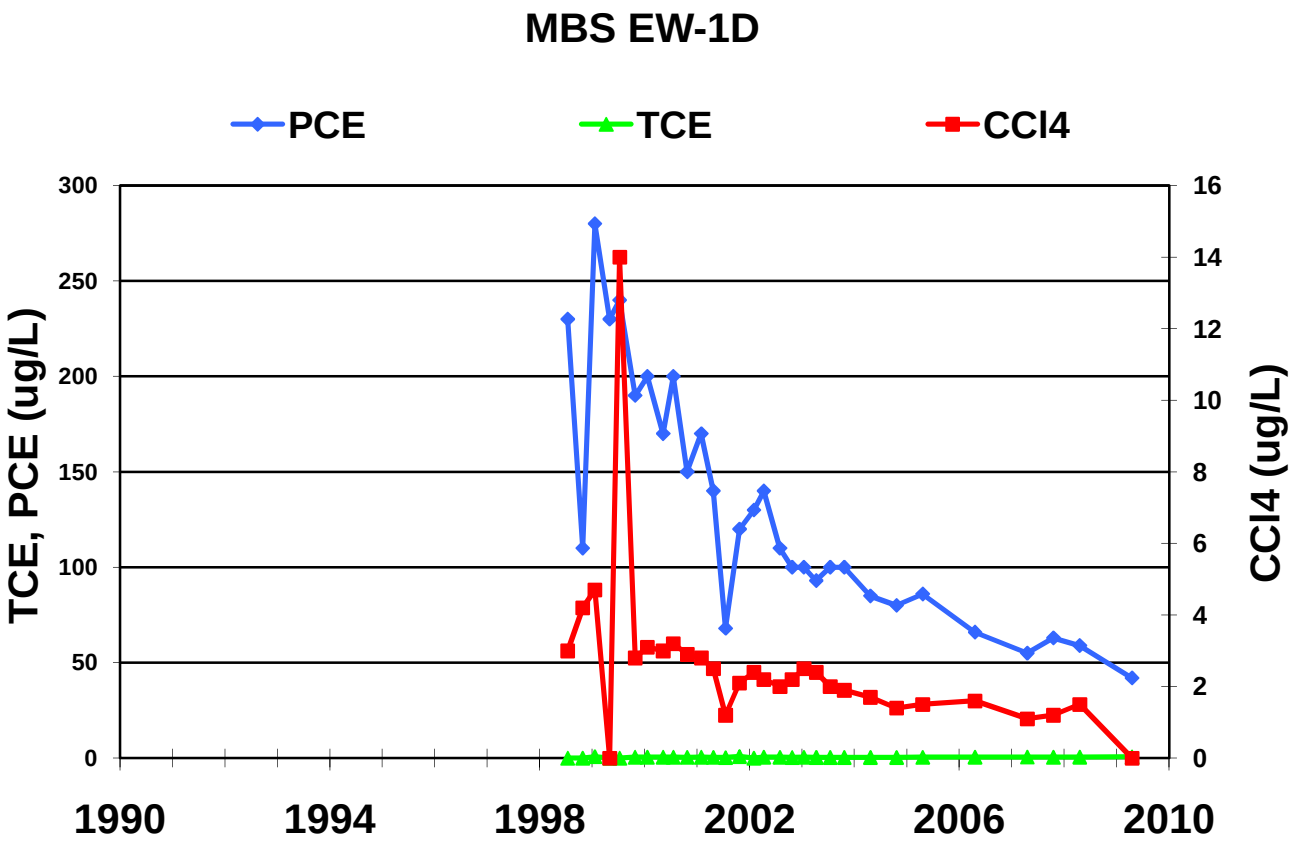
MBS EW-12B

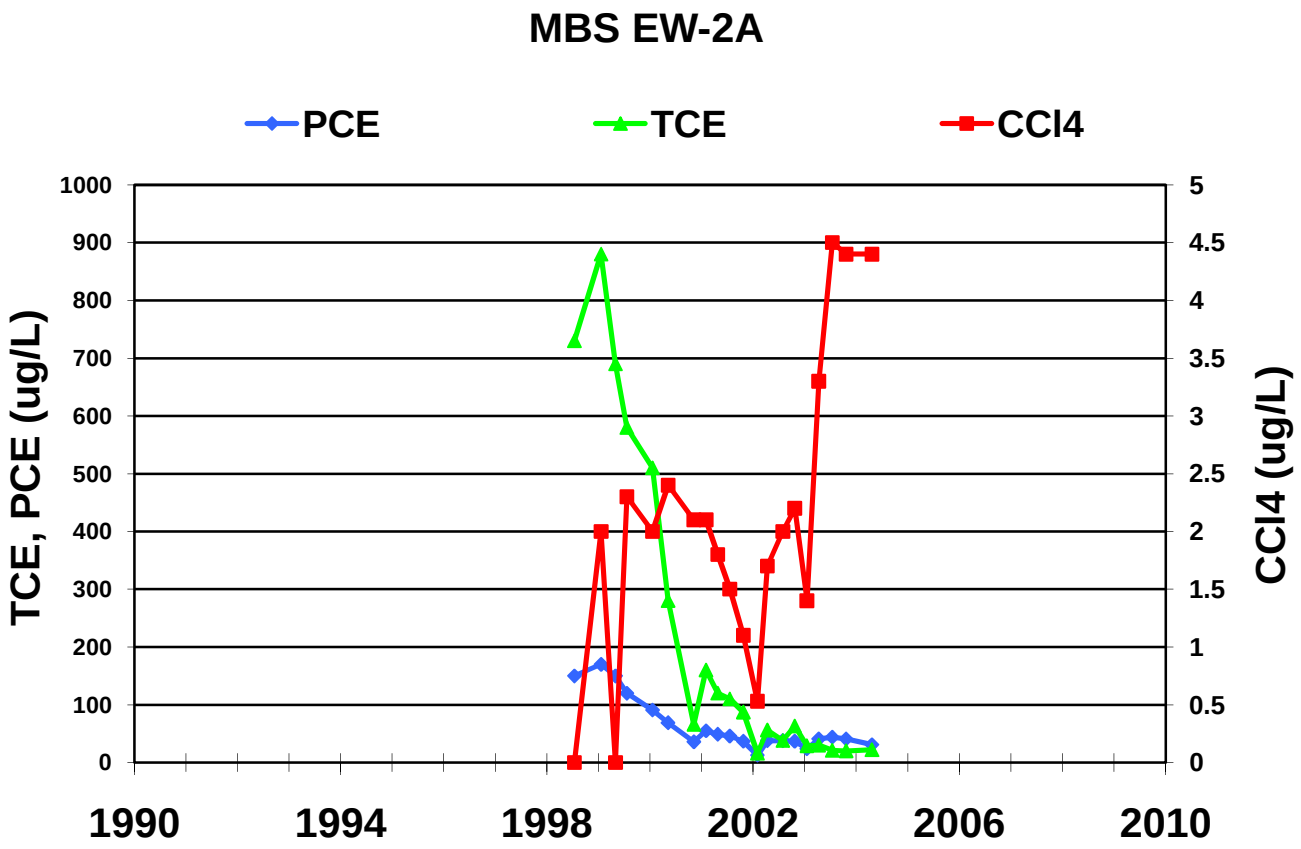


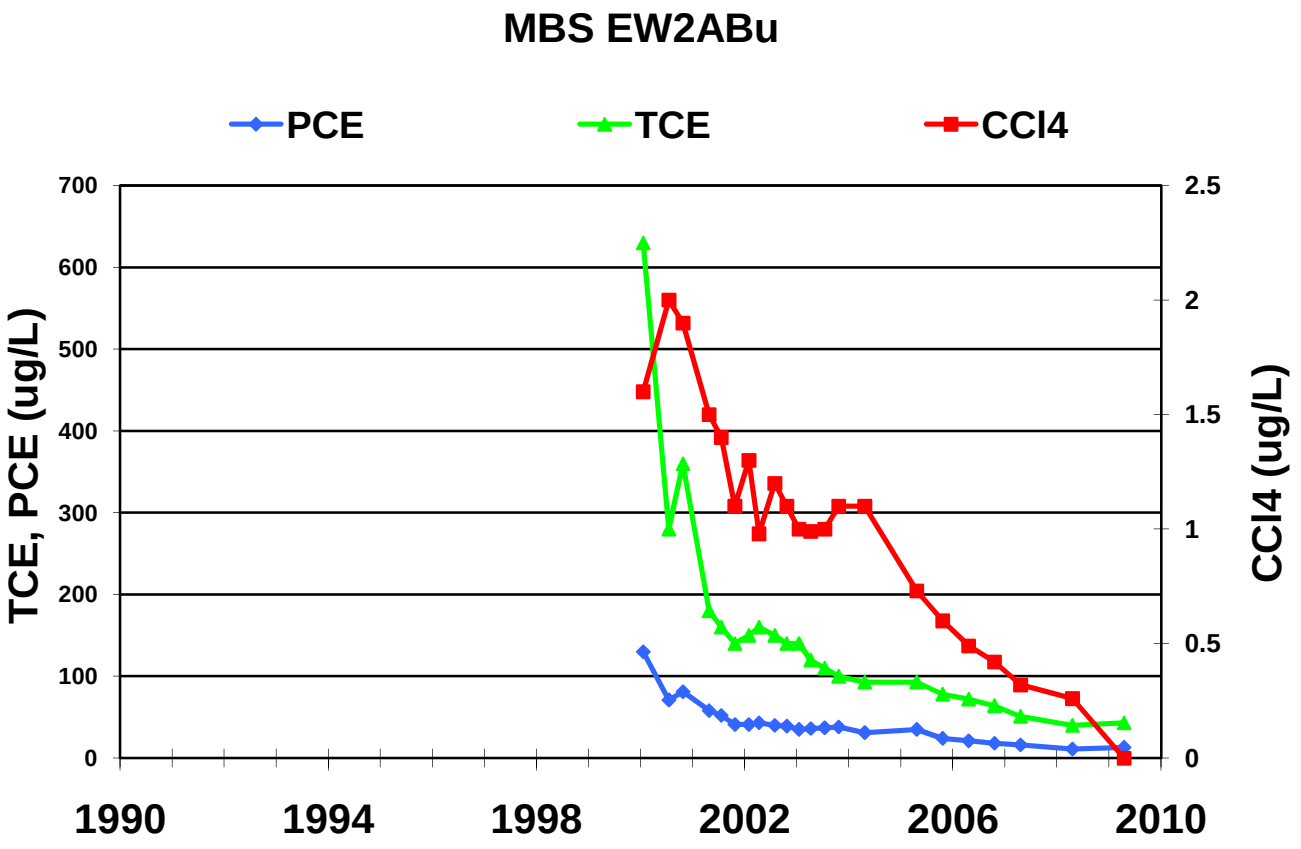

MBS EW-13BuB
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
20
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

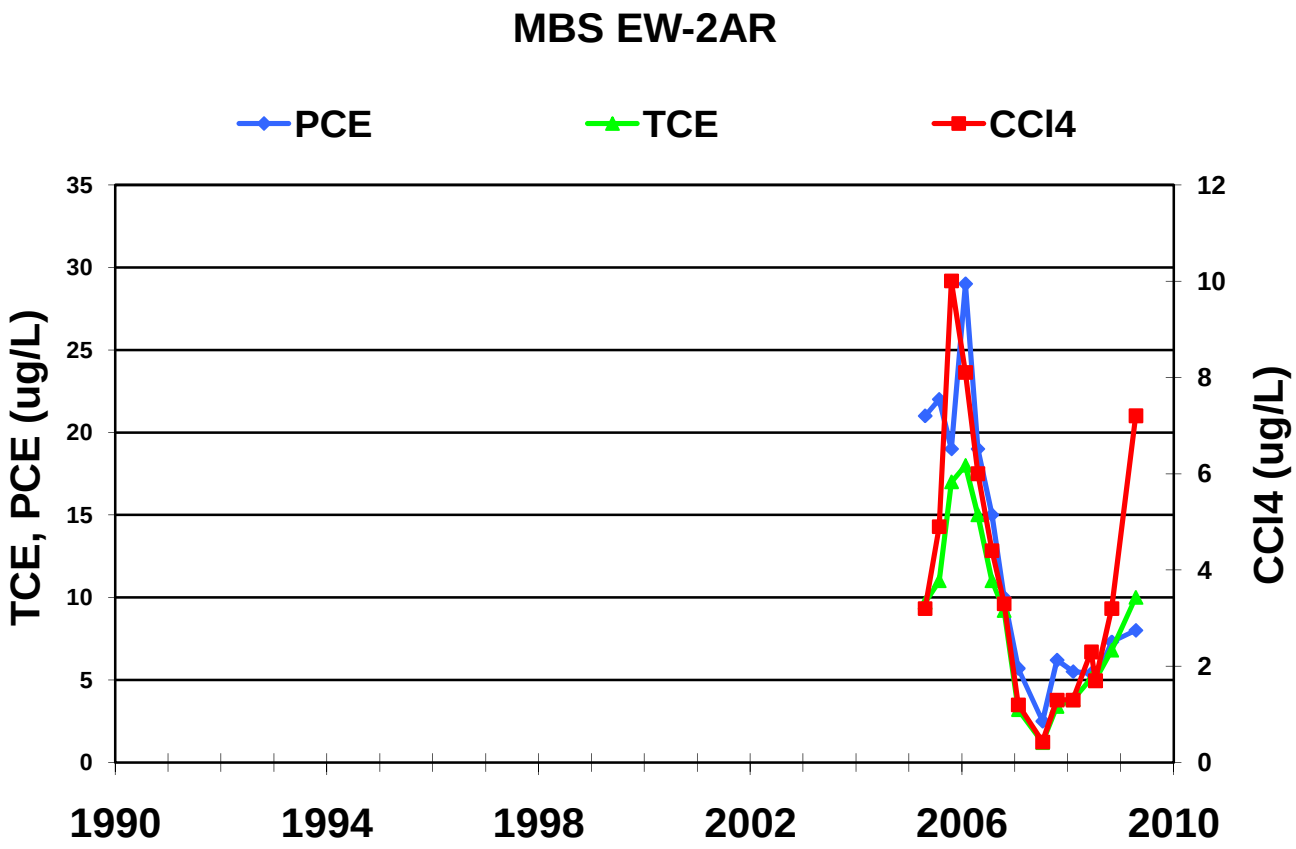

MBS EW-1A
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
700
600
500
400
300
200
100
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MBS EW-1Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010


MBS EW-1D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
300
250
200
150
100
50
0
16
14
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010


MBS EW-2A
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW2ABu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
700
600
500
400
300
200
100
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW-2AR
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
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5
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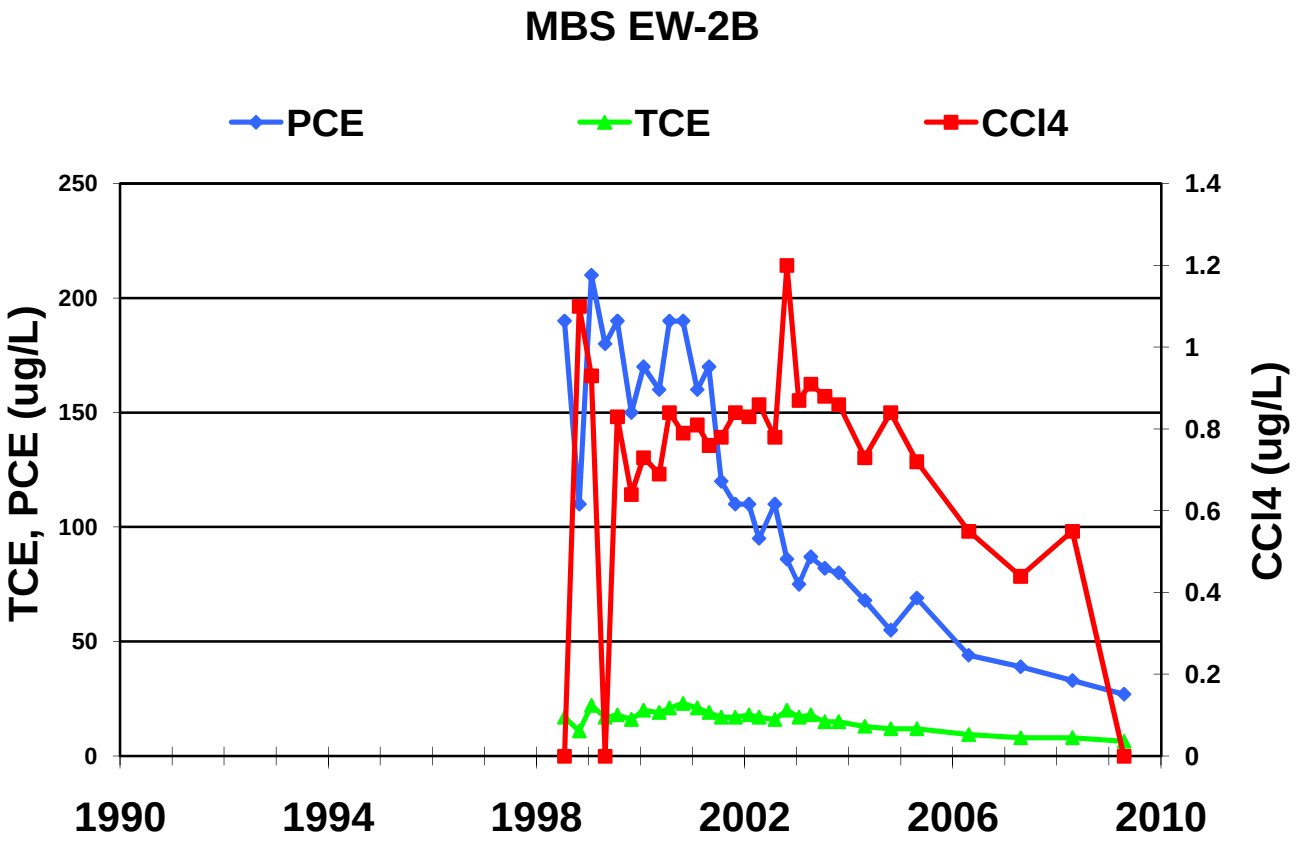
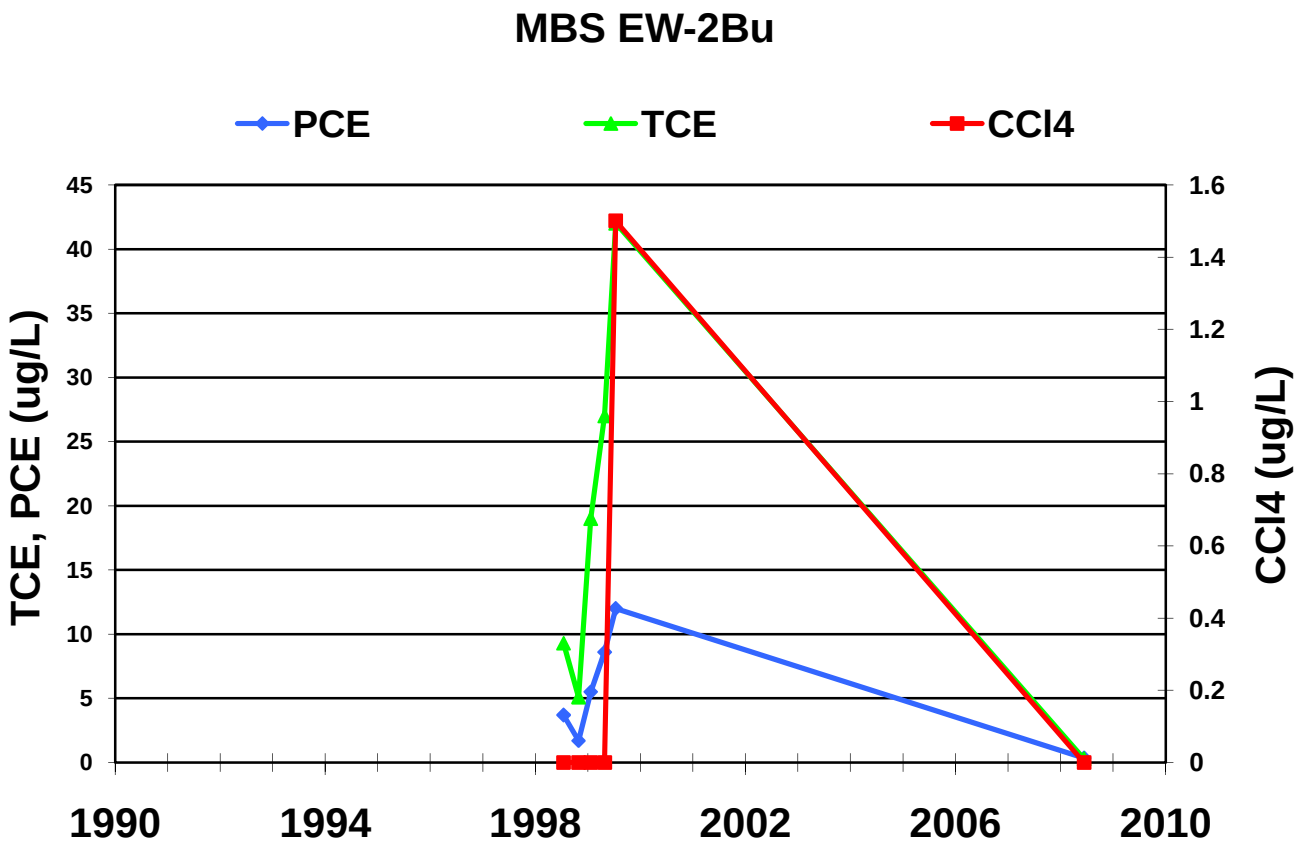
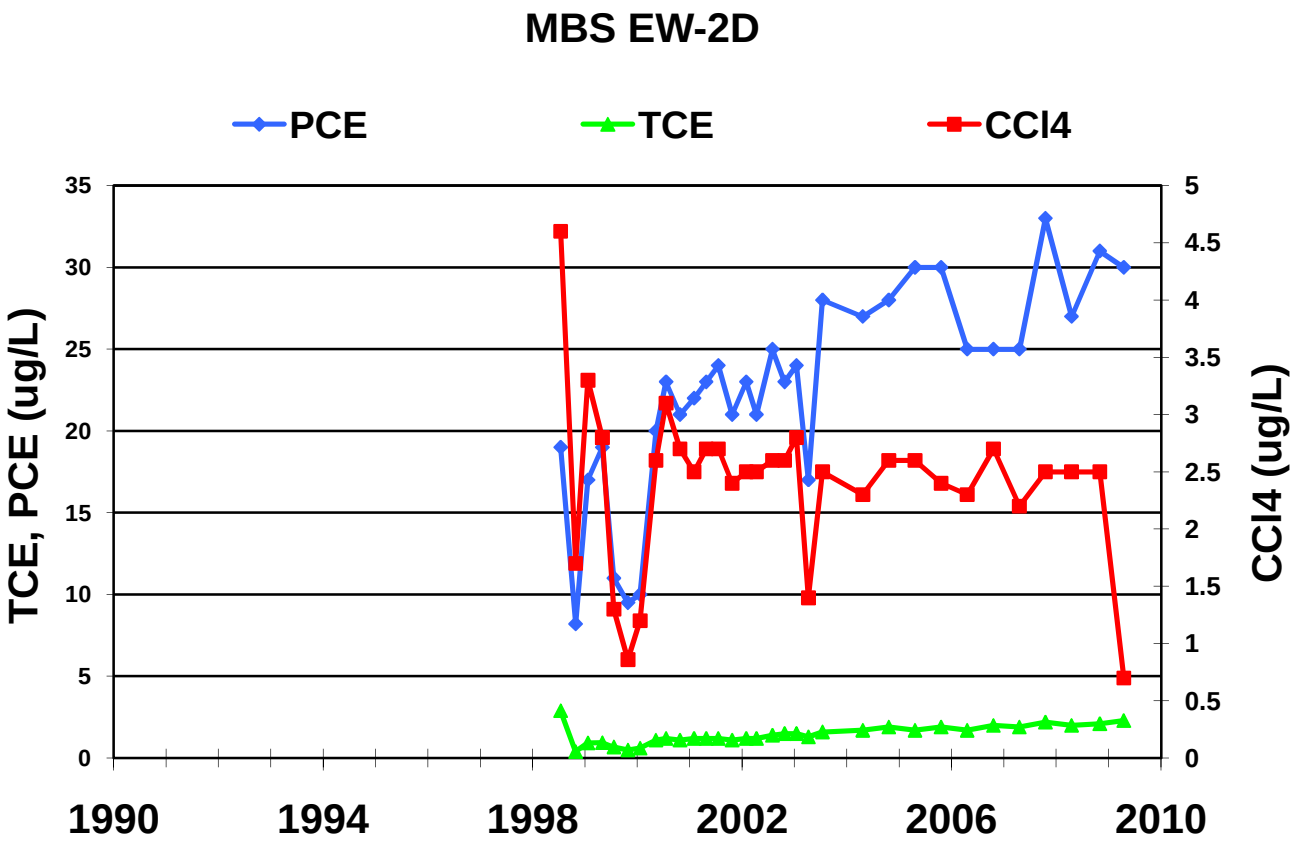
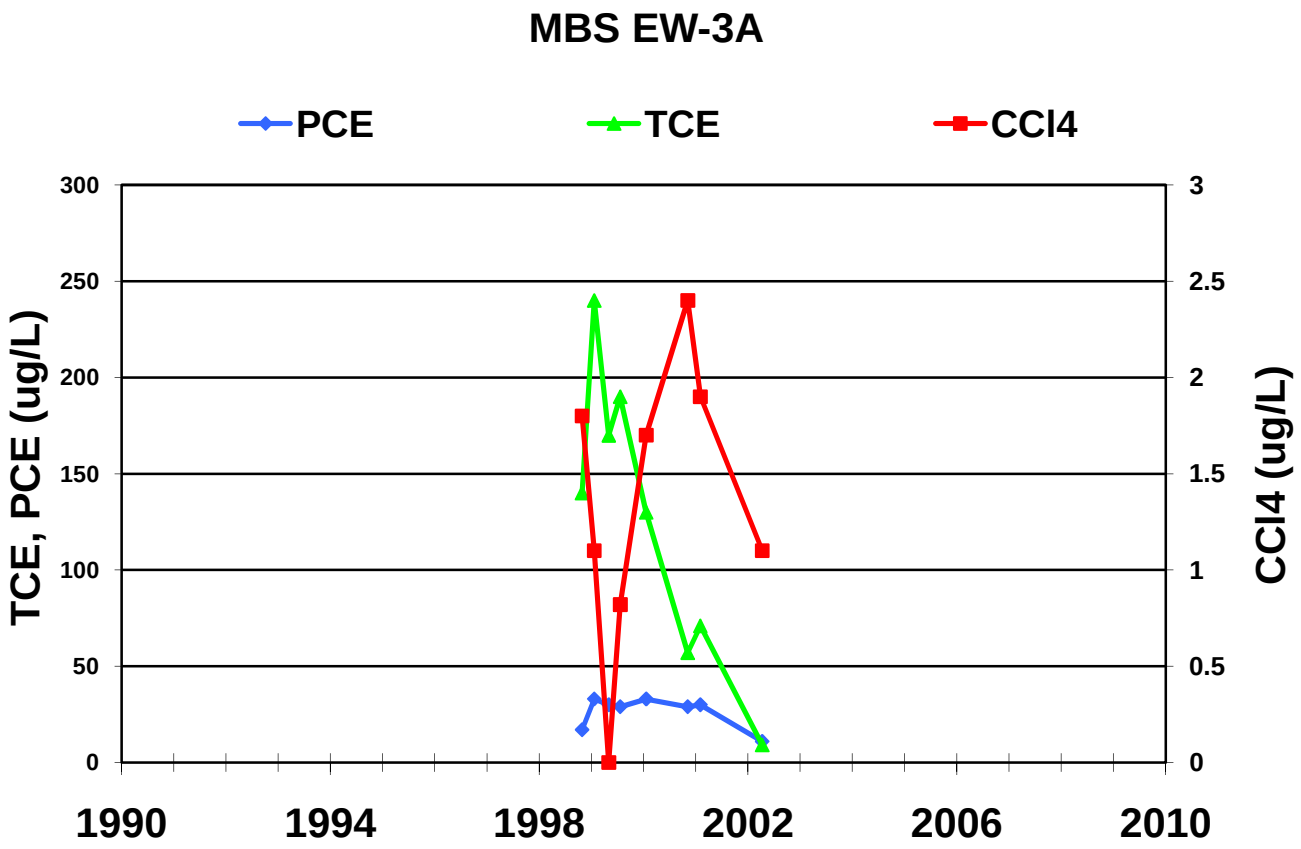
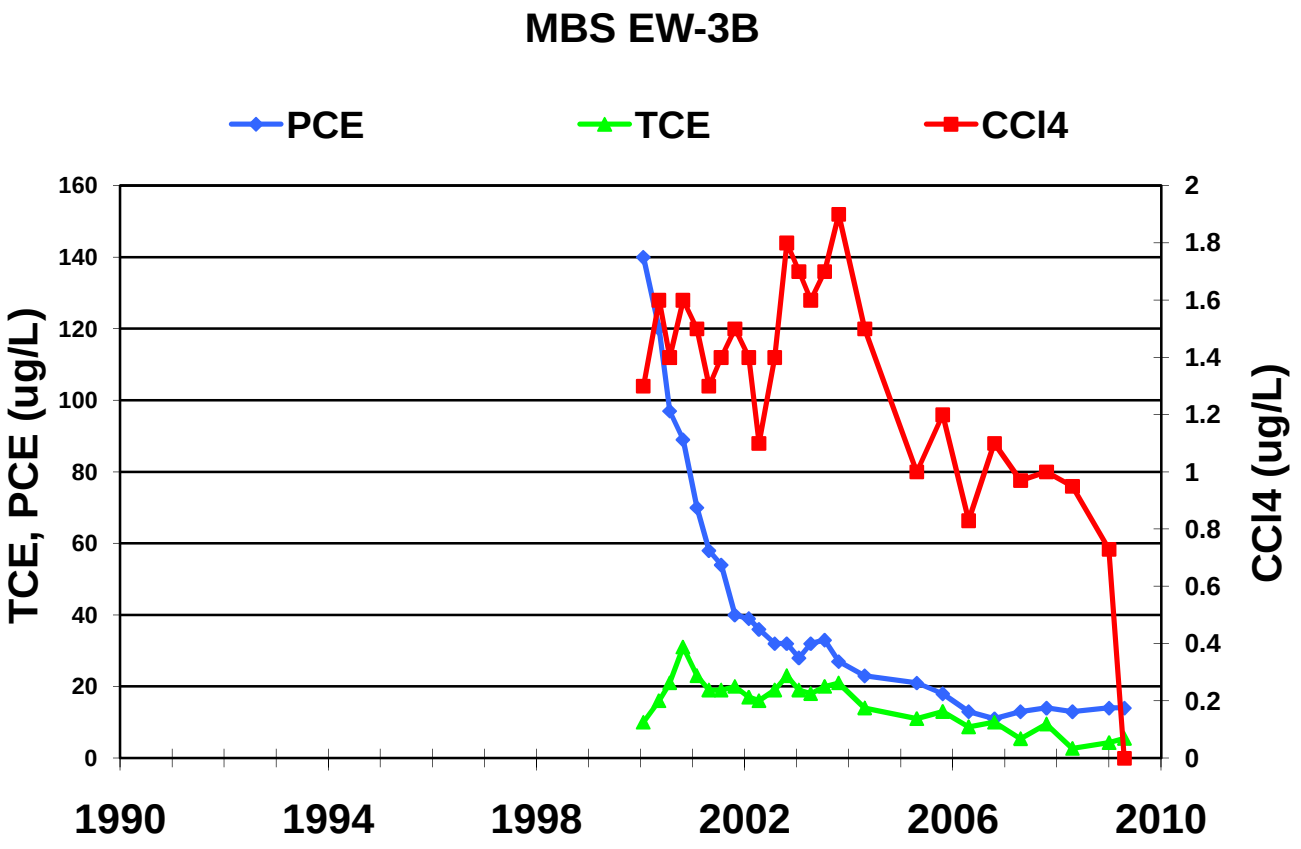
25
30
35
0
2
4
6
8
10
12
1990
1994
1998
2002
2006
2010

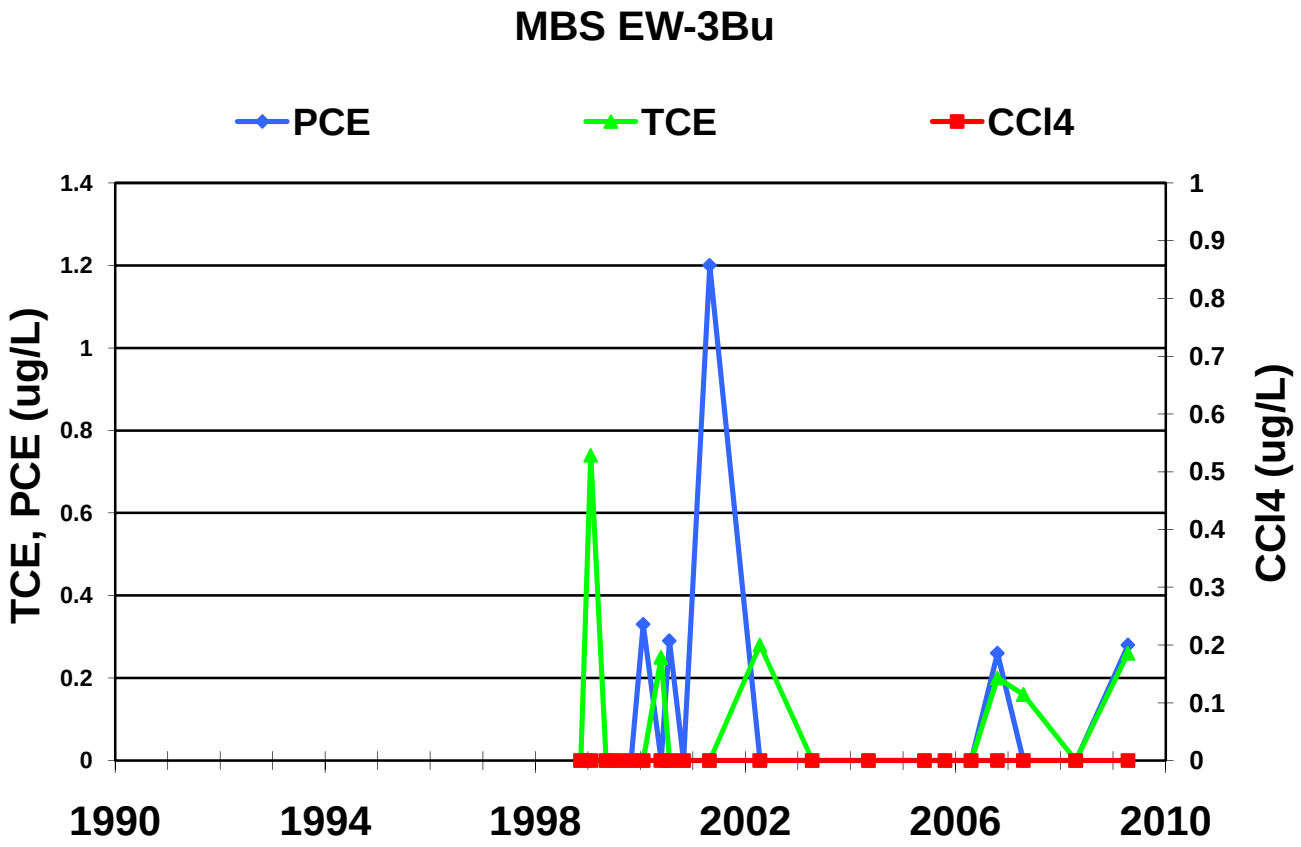

MBS EW-2B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
50
100
150
200
250
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1990
1994
1998
2002
2006
2010


MBS EW-2Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
45
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1990
1994
1998
2002
2006
2010


MBS EW-2D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
1990
1994
1998
2002
2006
2010


MBS EW-3A
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
300
250
200
150
100
50
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW-3B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
160
140
120
100
80
60
40
20
0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010


MBS EW-3Bu
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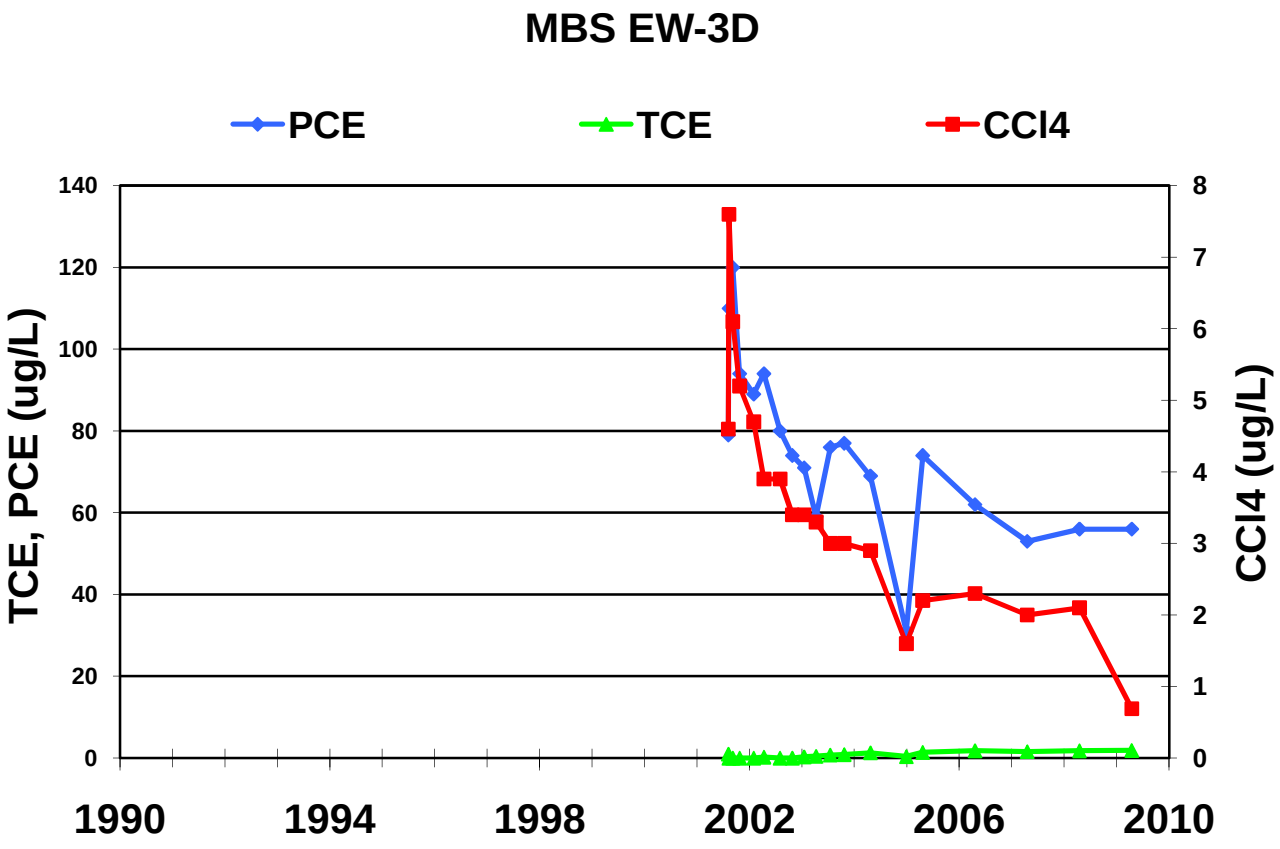
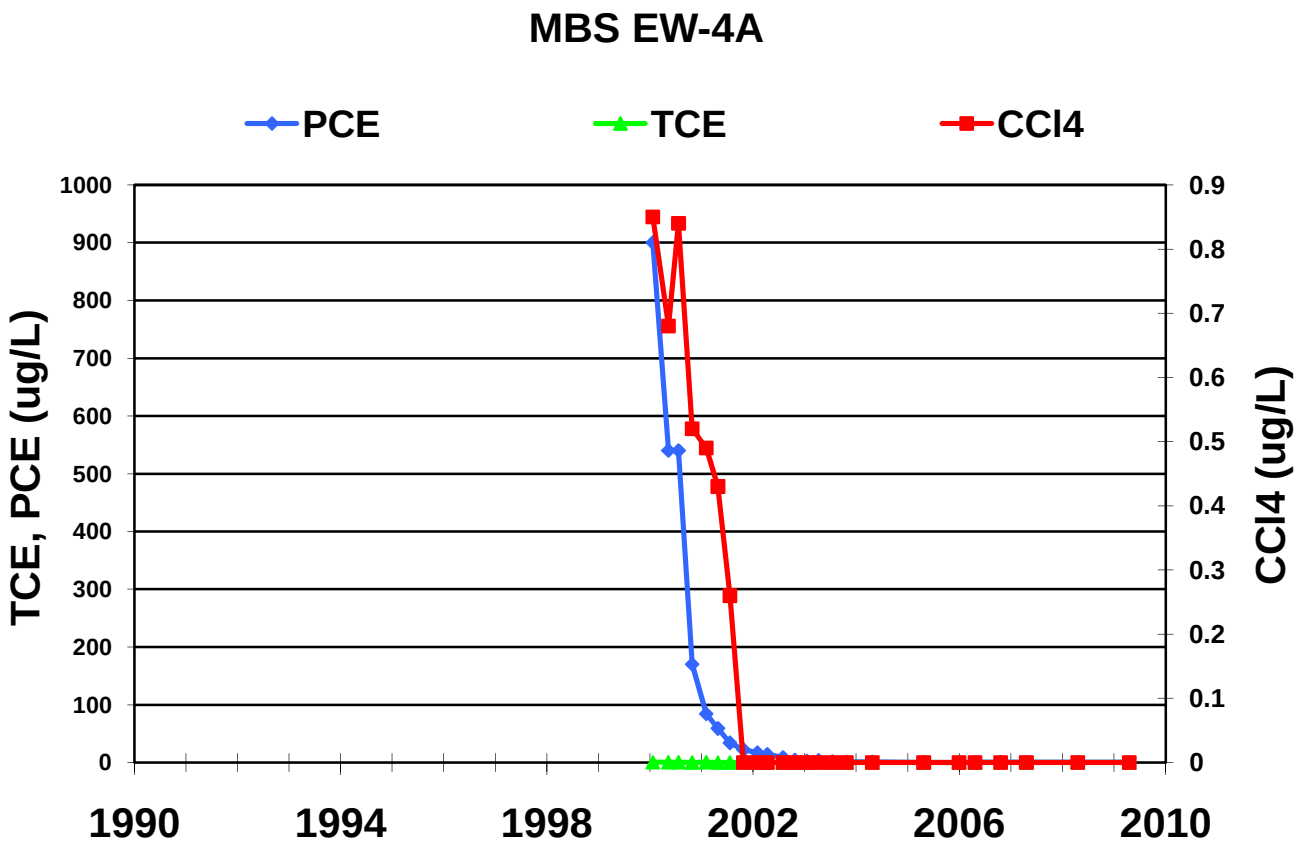
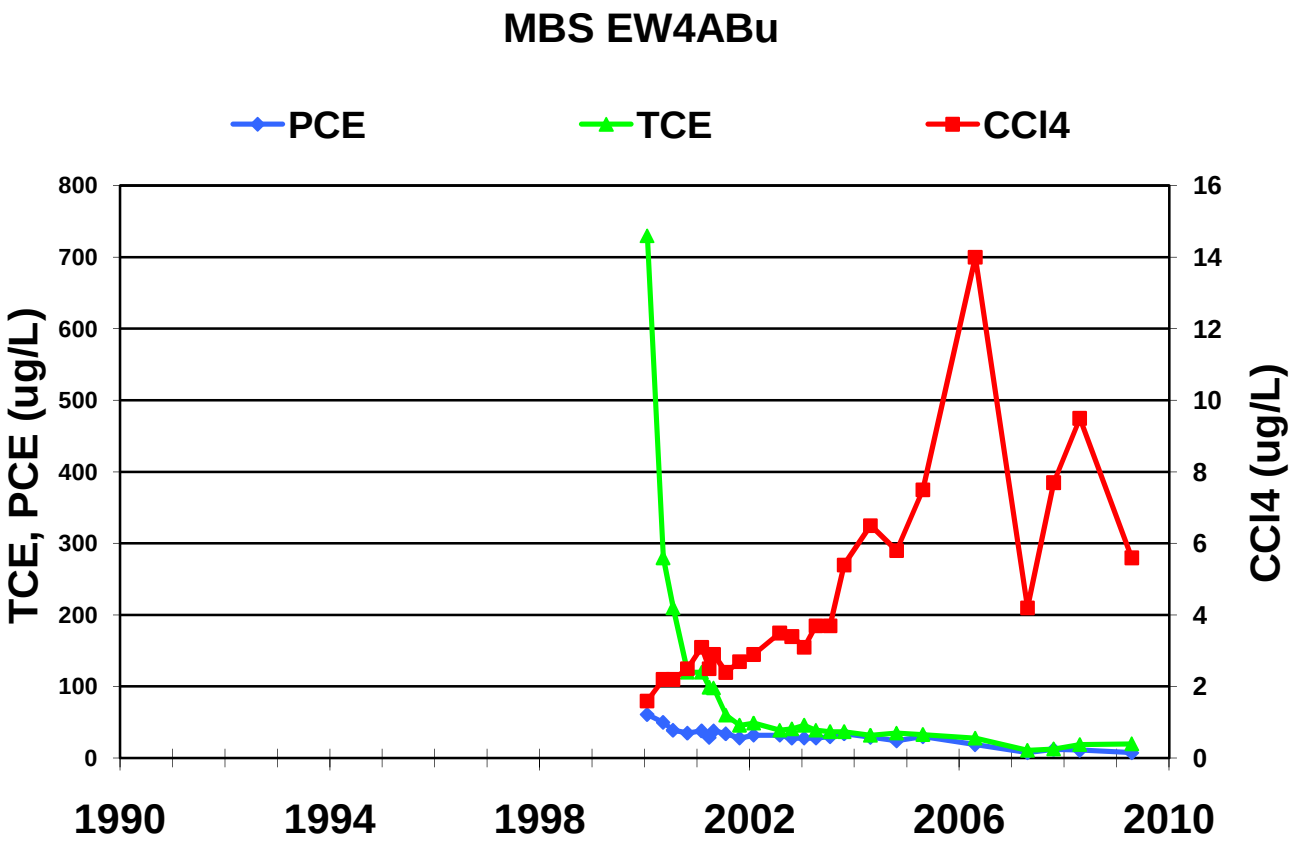
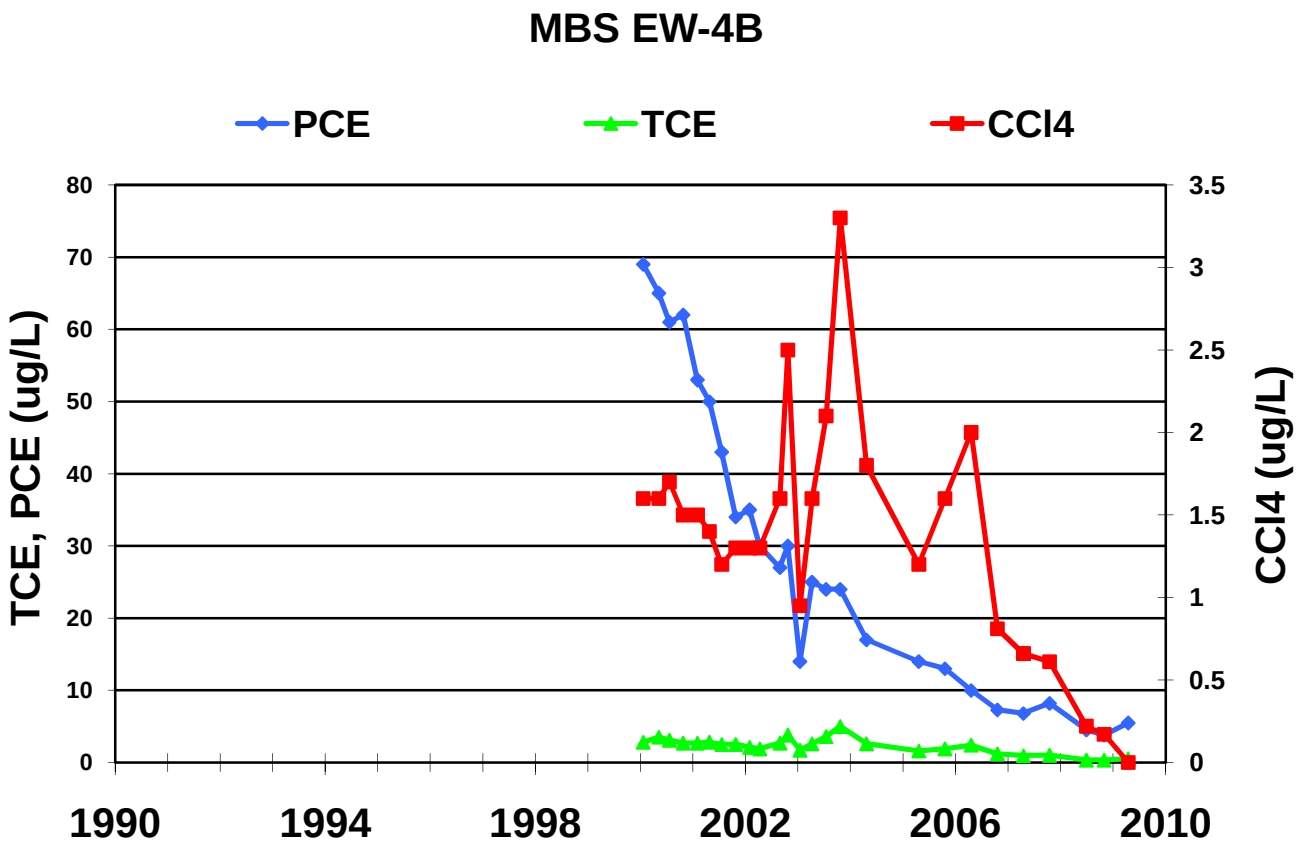
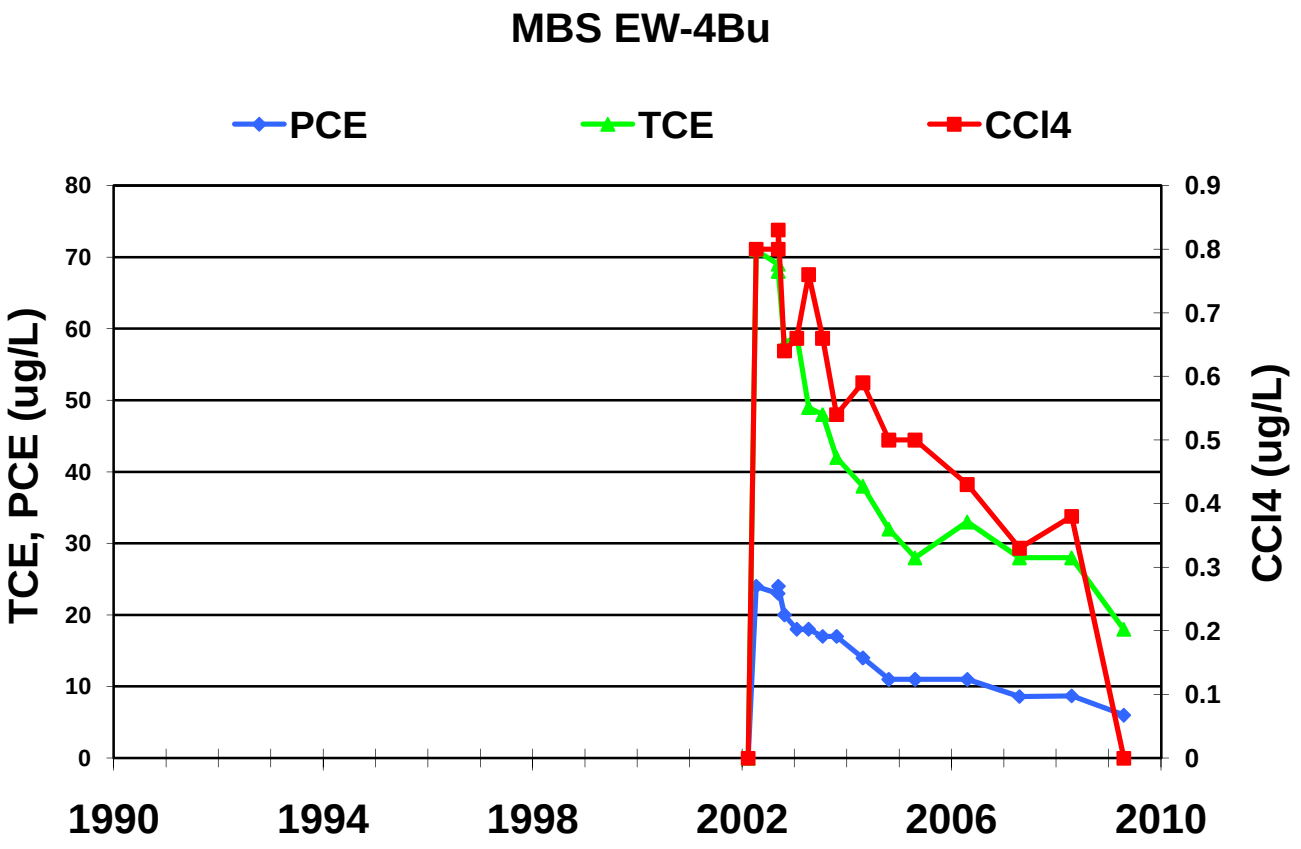
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

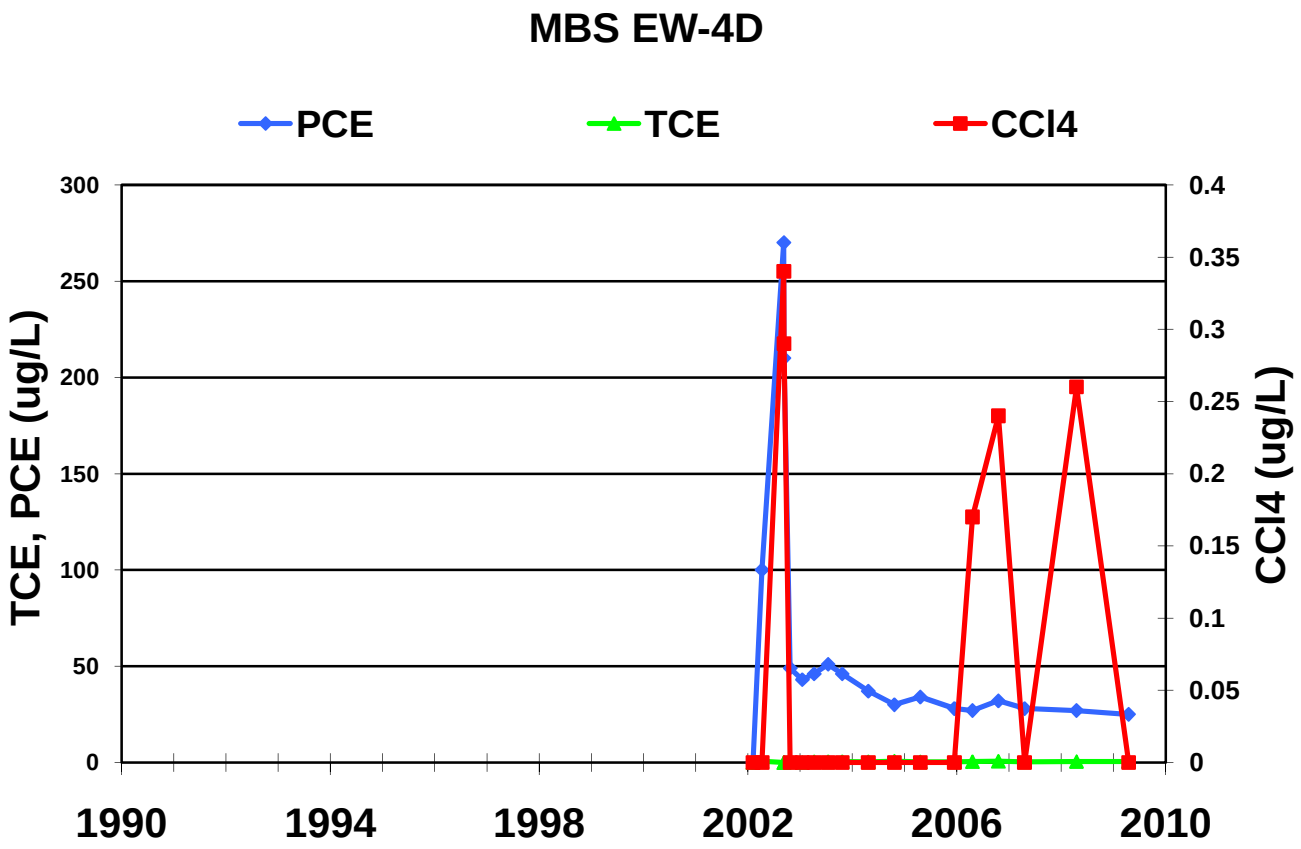

MBS EW-3D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
140
120
100
80
60
40
20
0
8
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

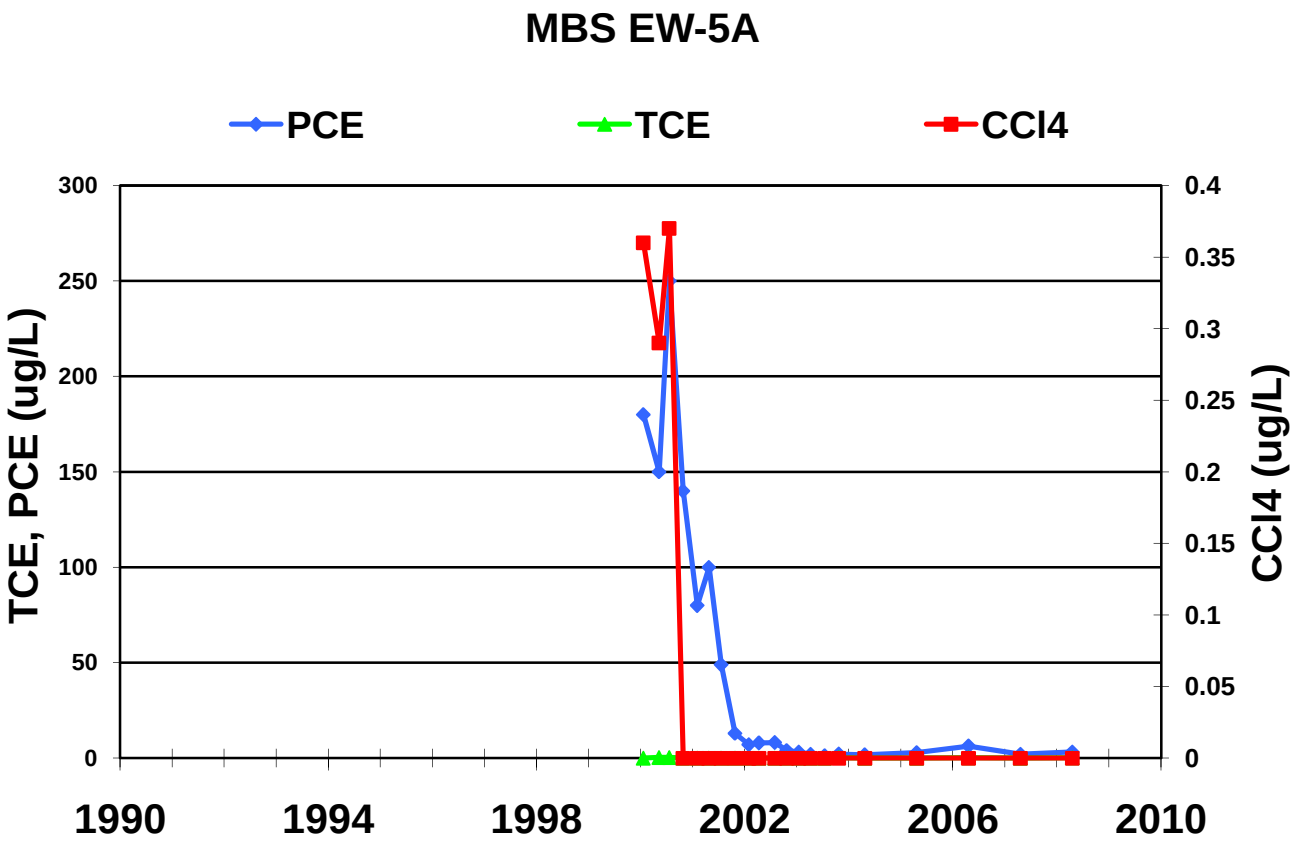

MBS EW-4A
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

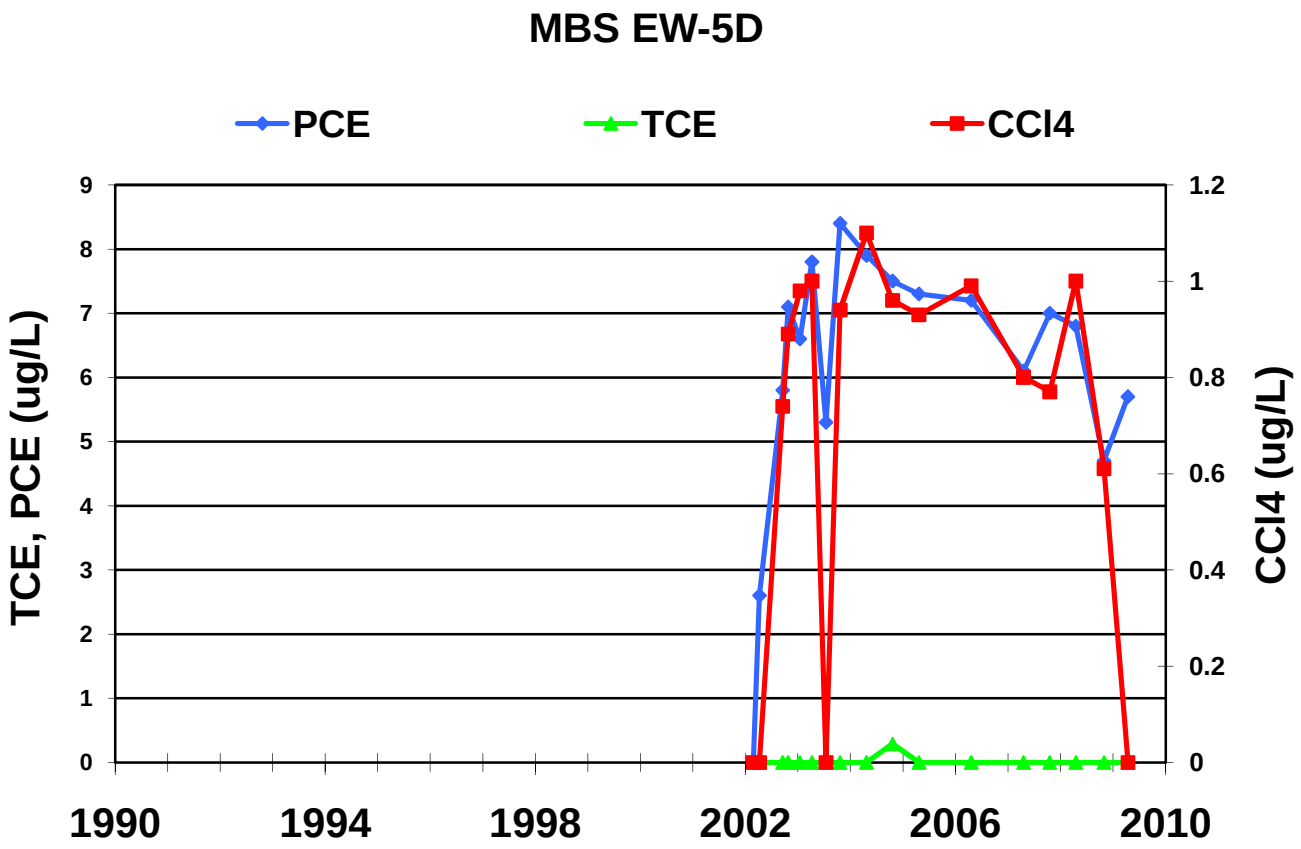

MBS EW4ABu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
800
700
600
500
400
300
200
100
0
16
14
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

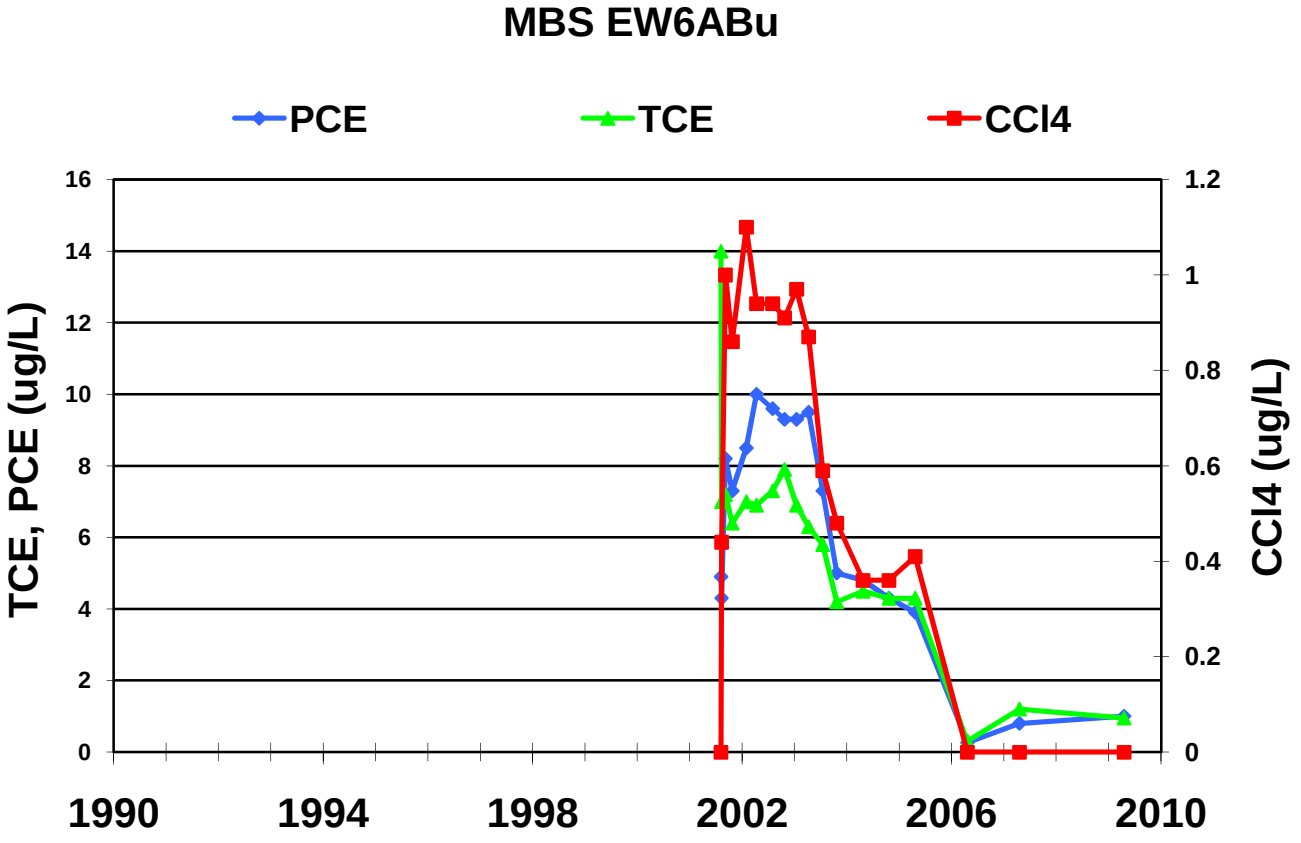

MBS EW-4B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
70
80
0
0.5
1
1.5
2
2.5
3
3.5
1990
1994
1998
2002
2006
2010

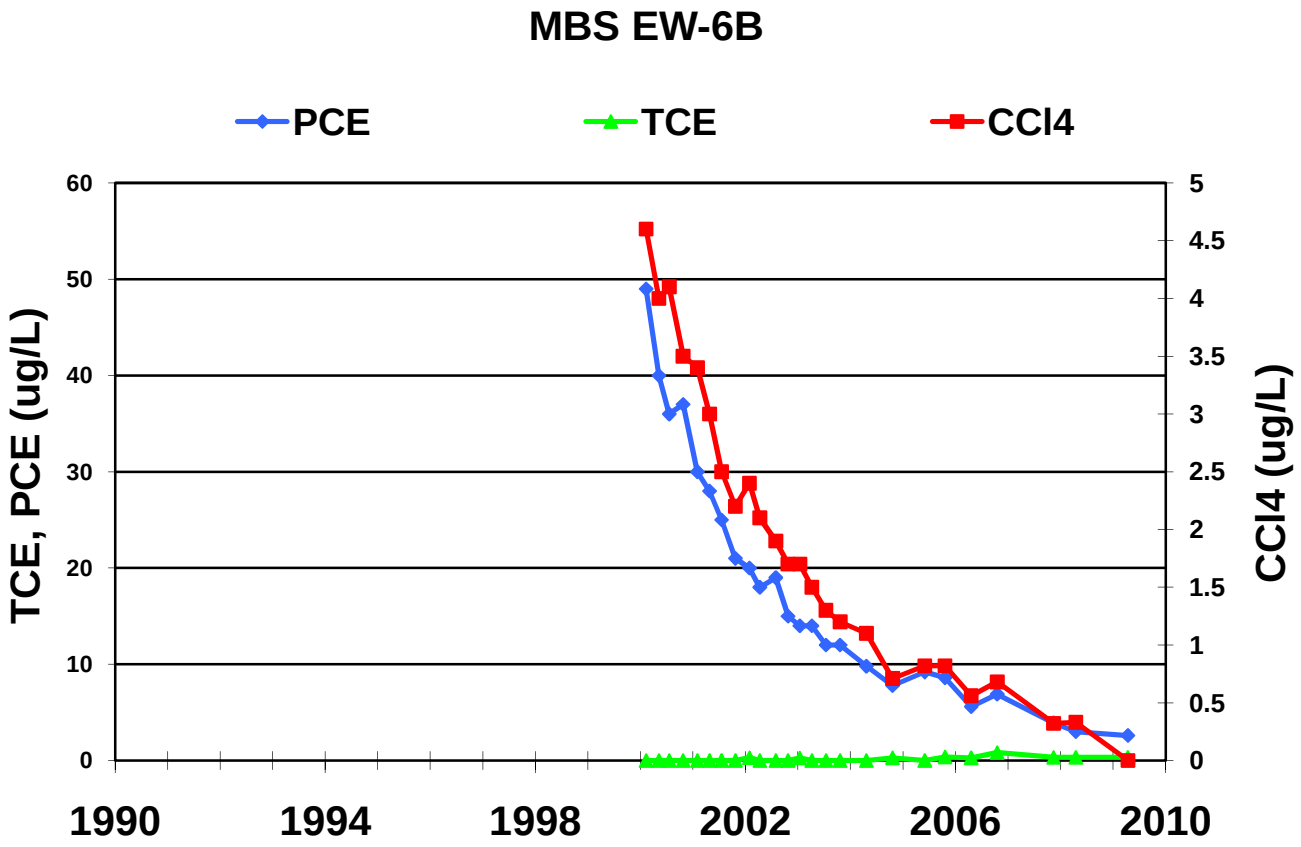

MBS EW-4Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
70
80
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1990
1994
1998
2002
2006
2010

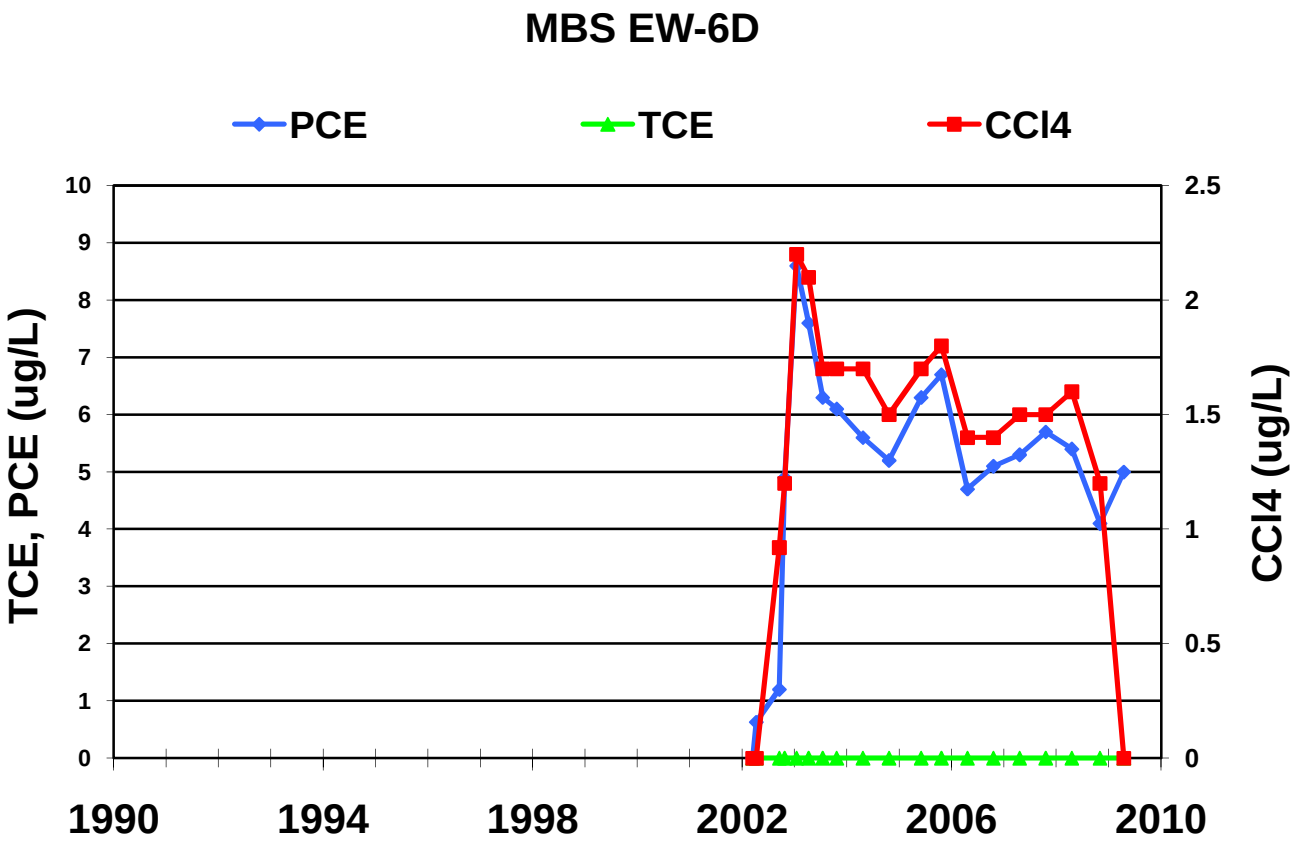

MBS EW-4D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
300
250
200
150
100
50
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

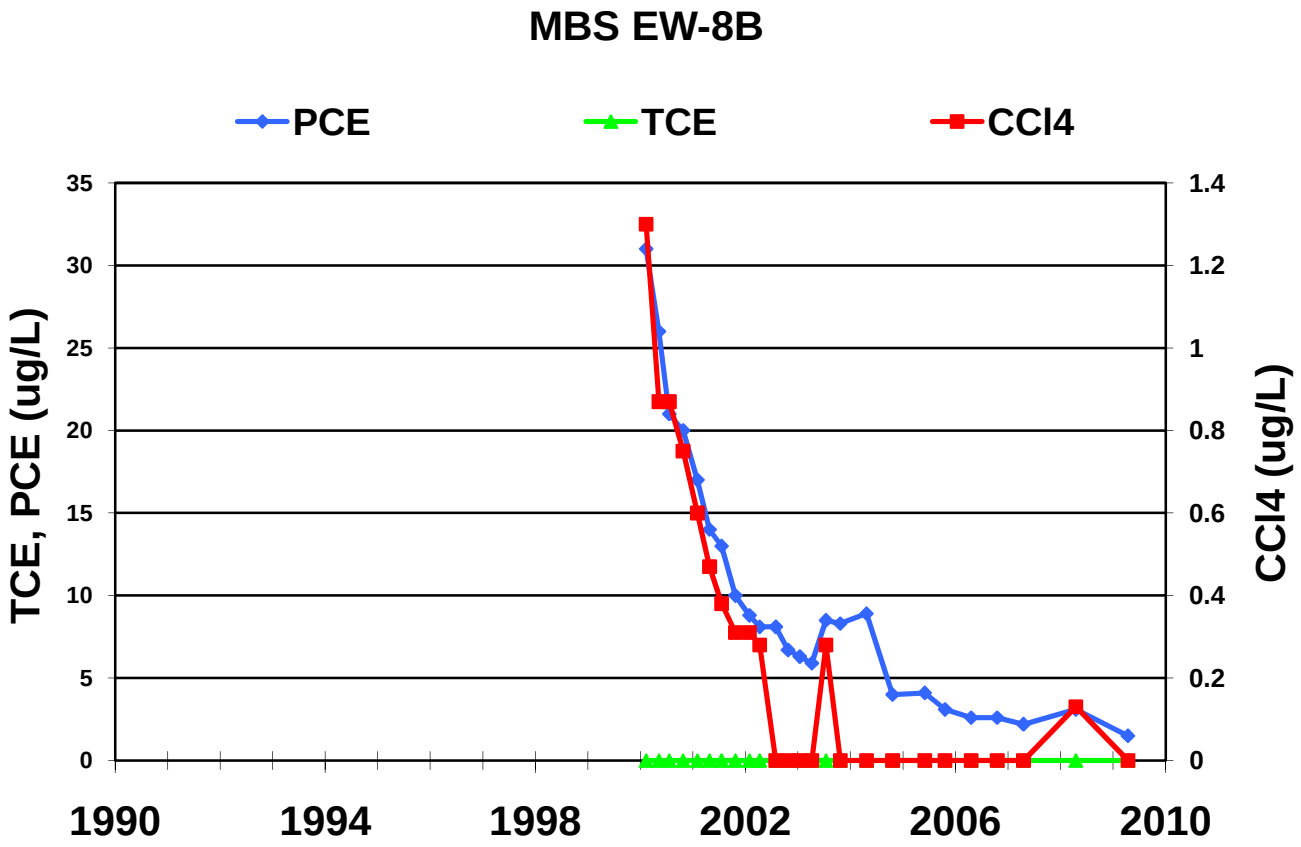

MBS EW-5A
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
300
250
200
150
100
50
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010


MBS EW-5D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
0
0.2
0.4
0.6
0.8
1
1.2
1990
1994
1998
2002
2006
2010


MBS EW6ABu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
0
0.2
0.4
0.6
0.8
1
1.2
1990
1994
1998
2002
2006
2010


MBS EW-6B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
60
50
40
30
20
10
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW-6D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
10
9
8
7
6
5
4
3
2
1
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW-8B
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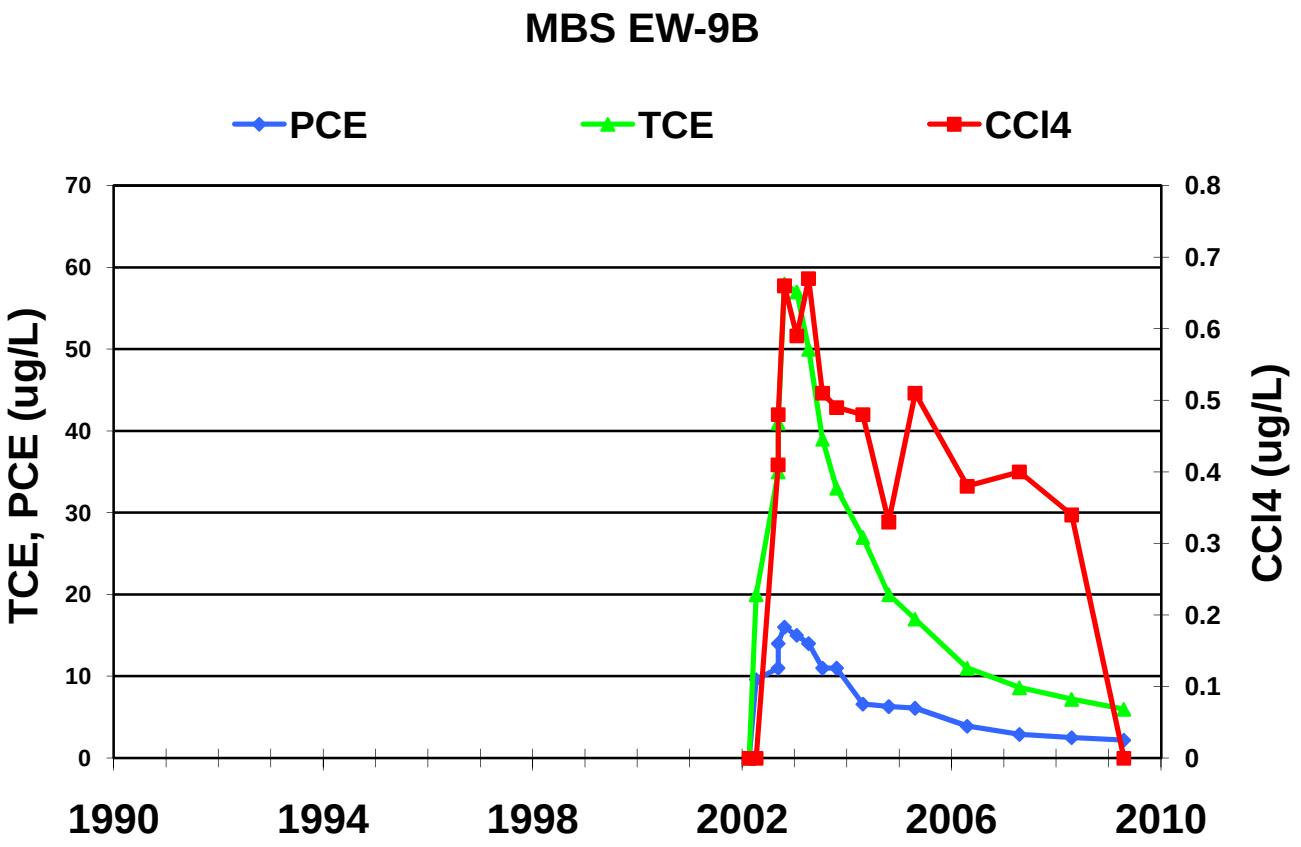
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
35
30
25
20
15
10
5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010


MBS EW-9B
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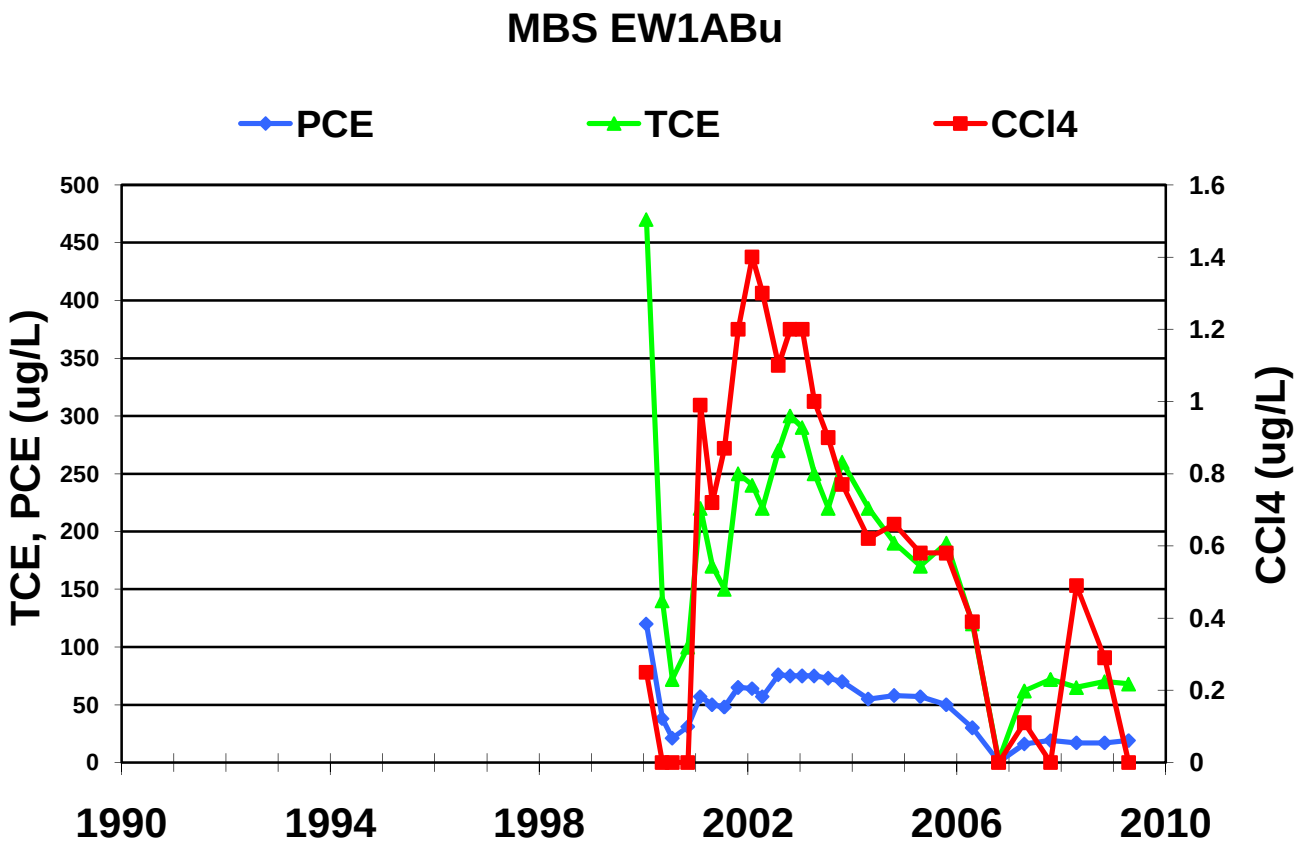
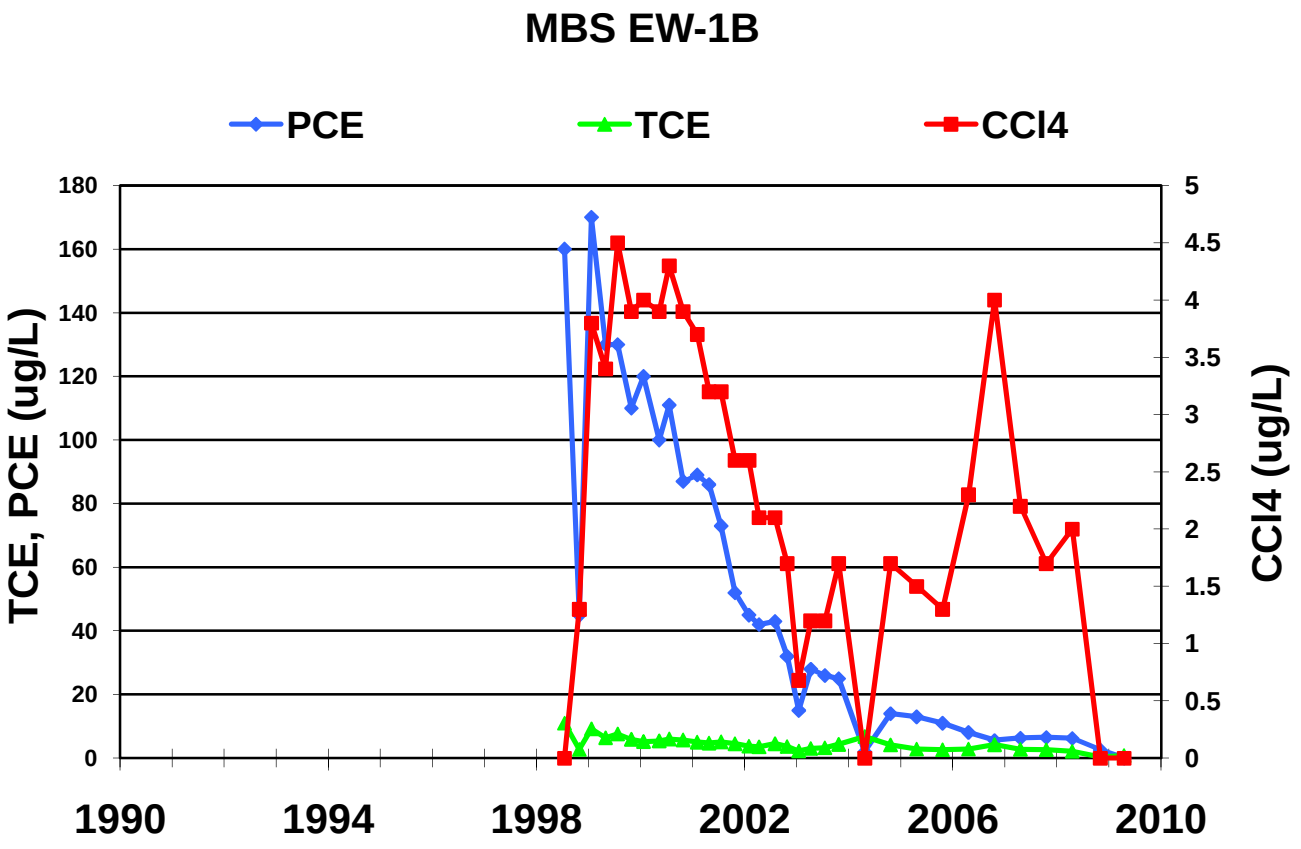
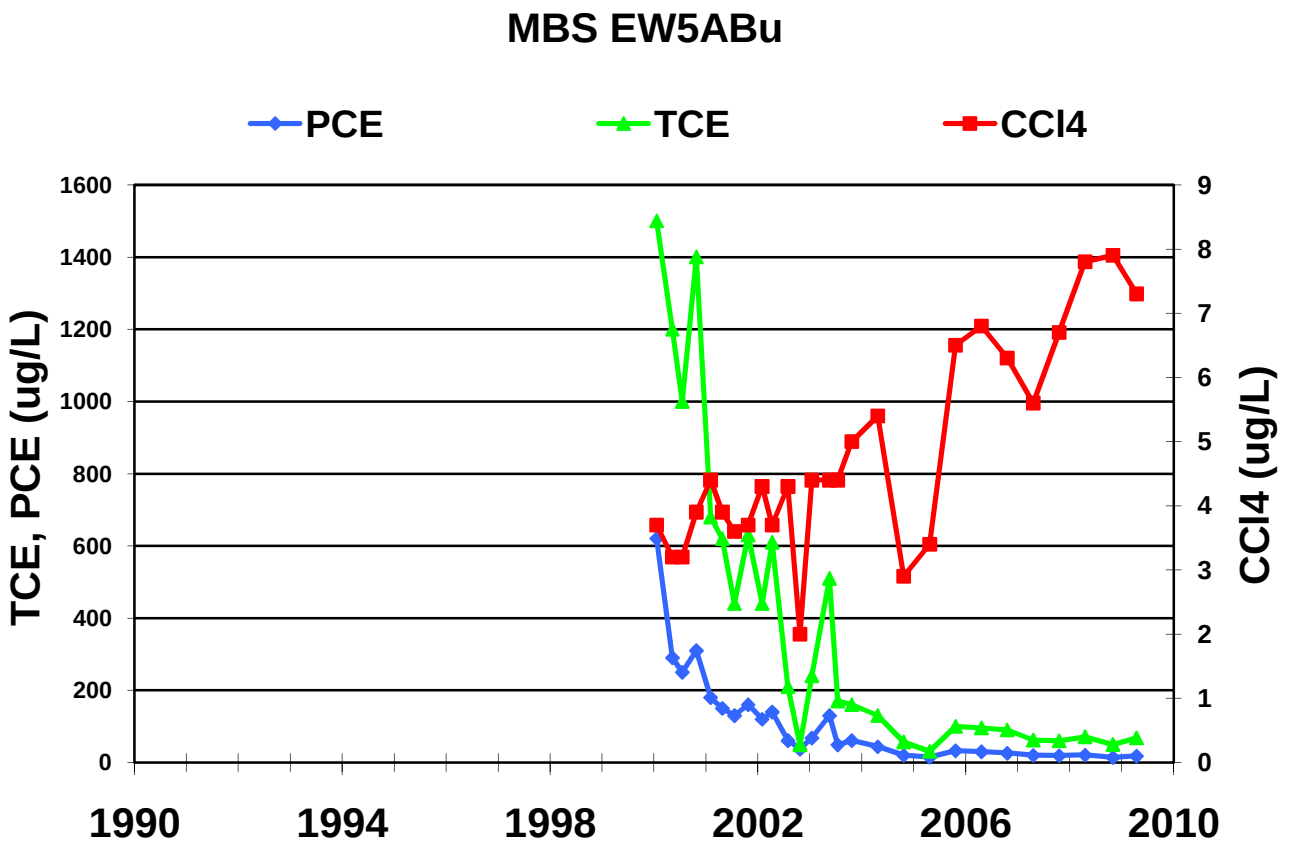
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MBS EW1ABu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
500
450
400
350
300
250
200
150
100
50
0
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010


MBS EW-1B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
180
160
140
120
100
80
60
40
20
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW5ABu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1600
1400
1200
1000
800
600
400
200
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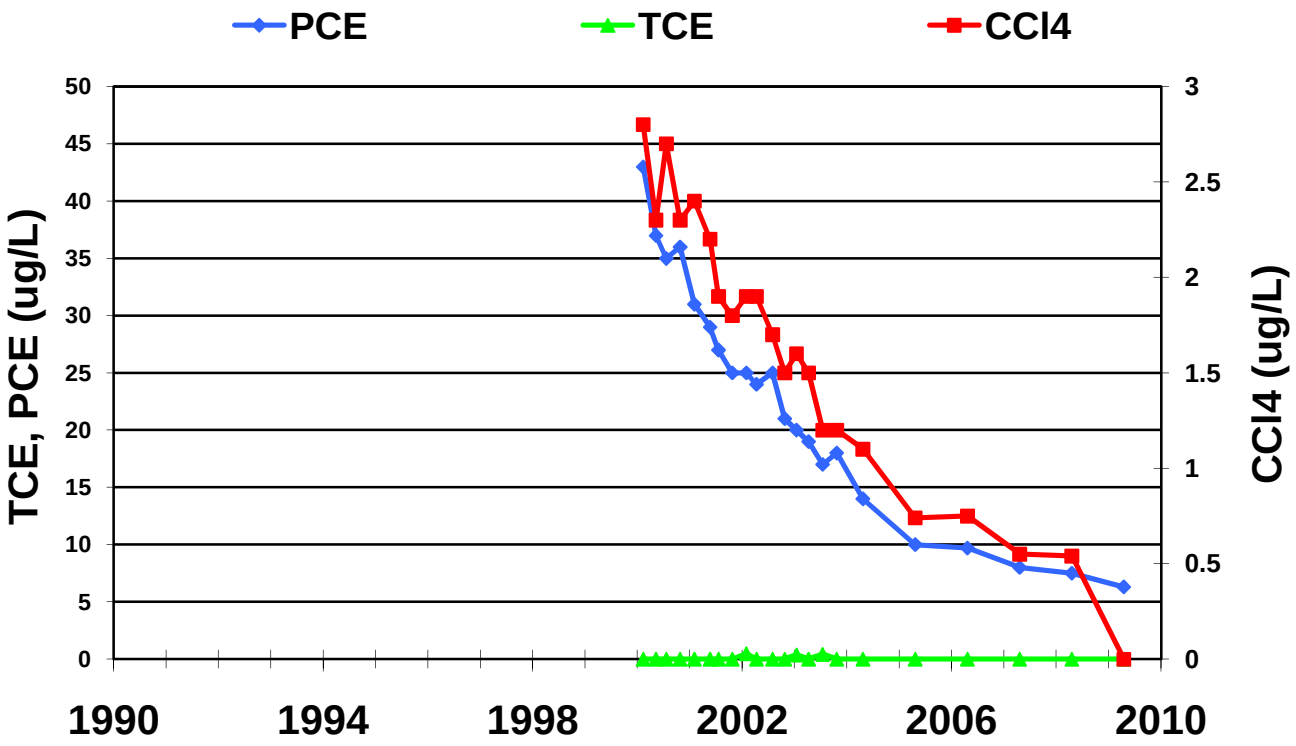
9
8
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010


MBS EW-5B
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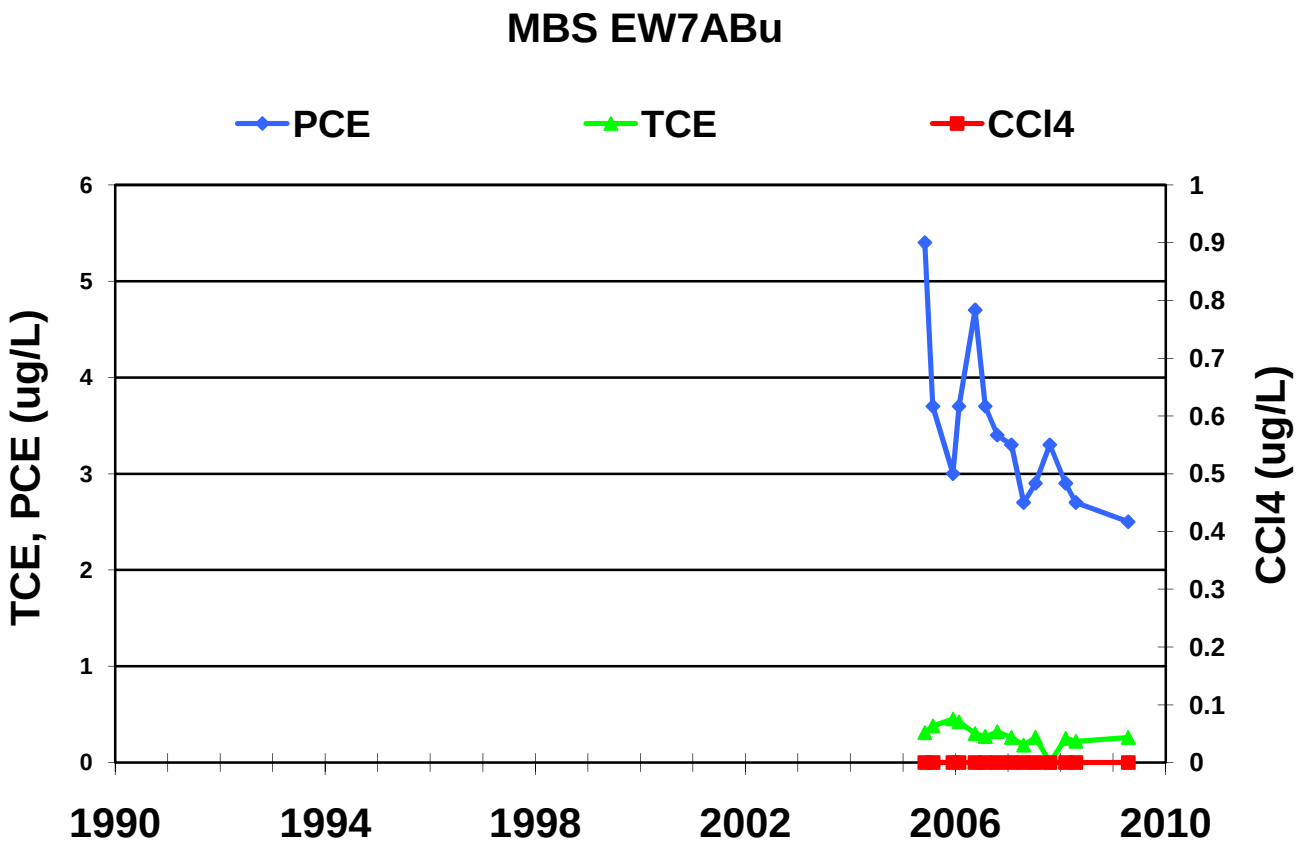
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
50
45
40
35
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010


MBS EW7ABu
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TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.1
0.2
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0.4
0.5
0.6
0.7
0.8
0.9
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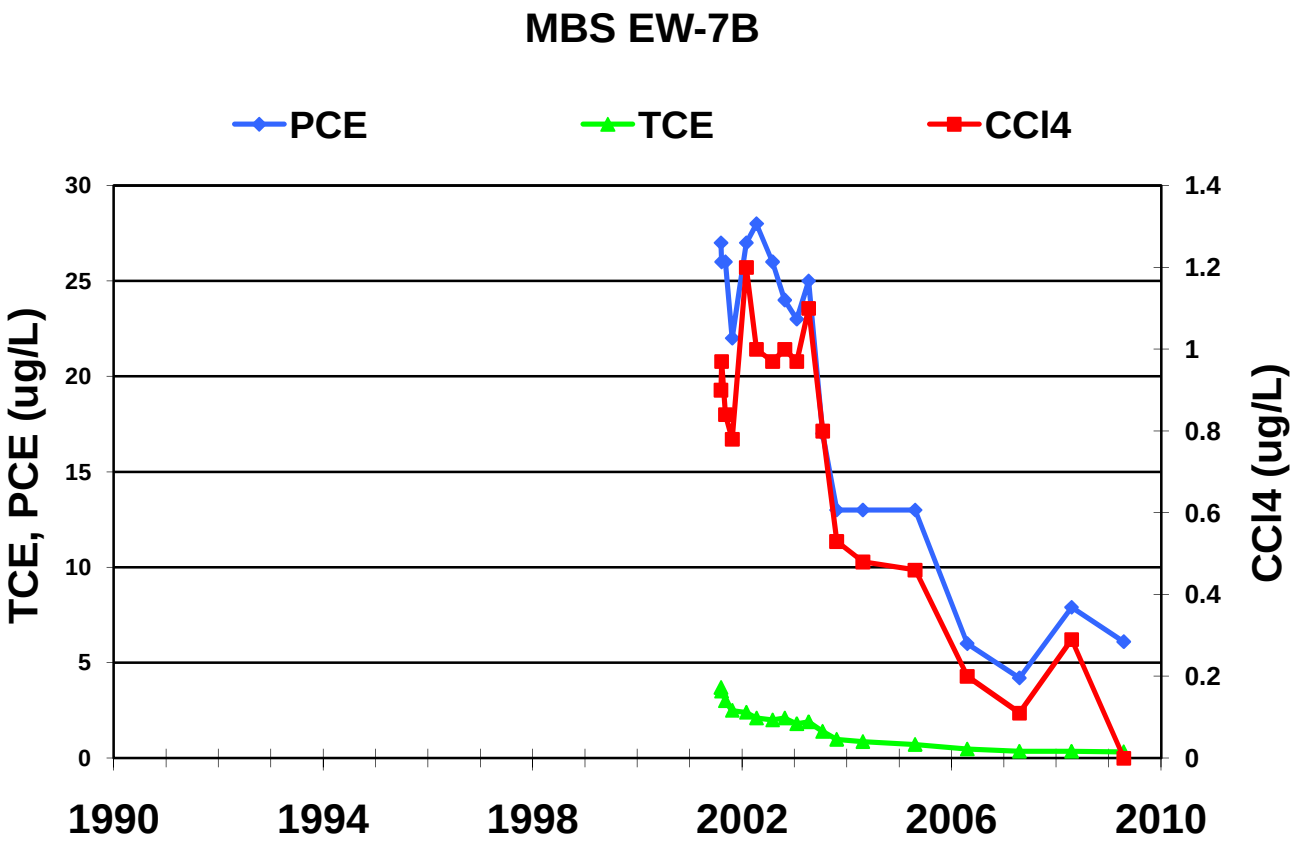
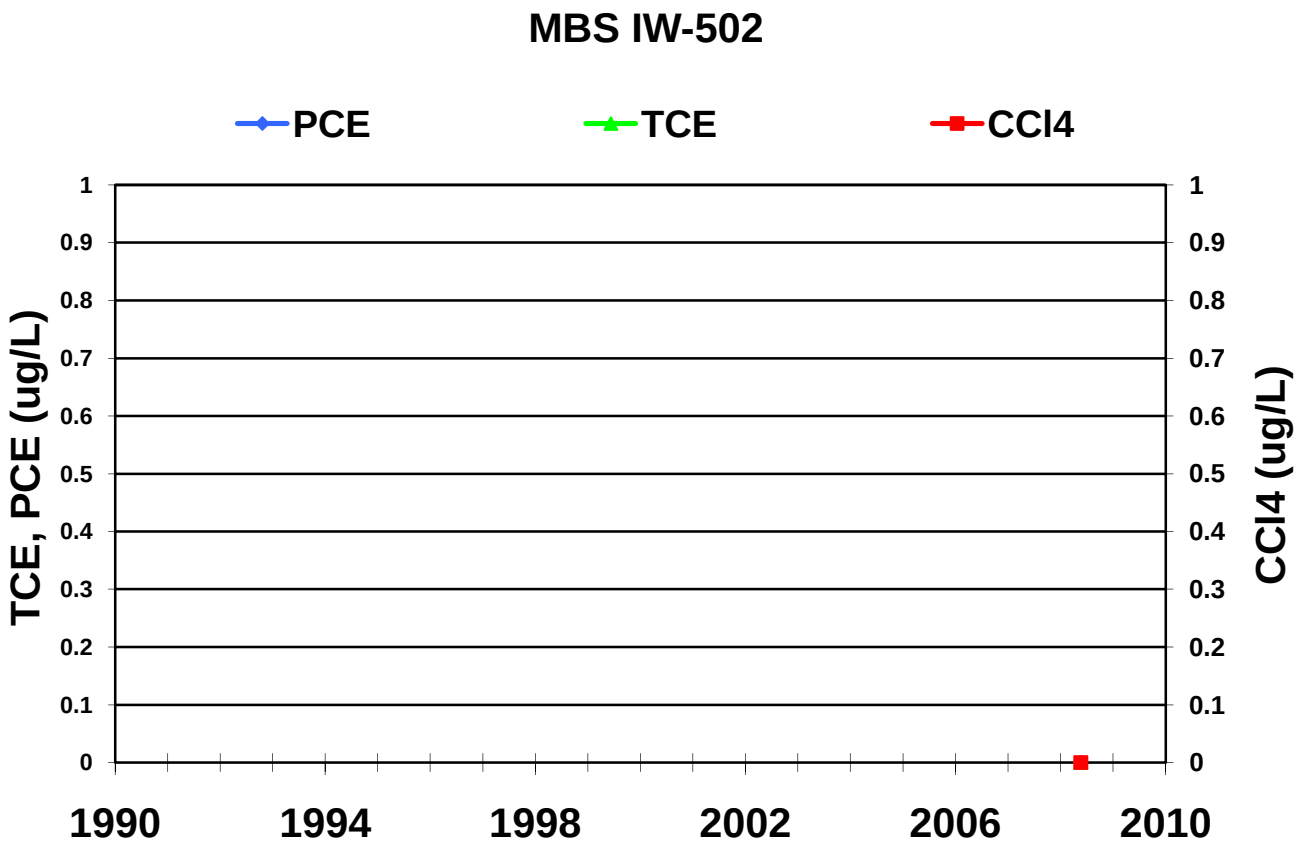
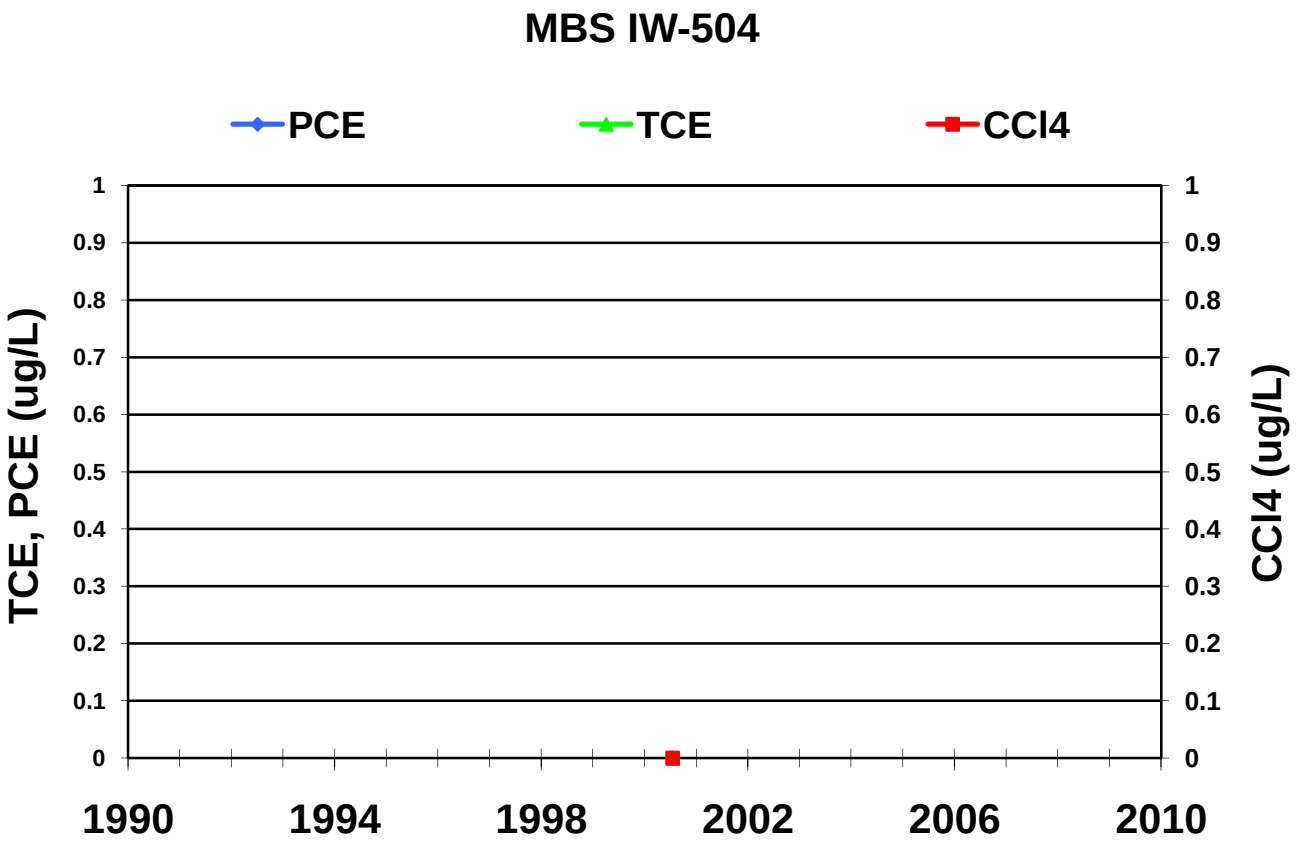
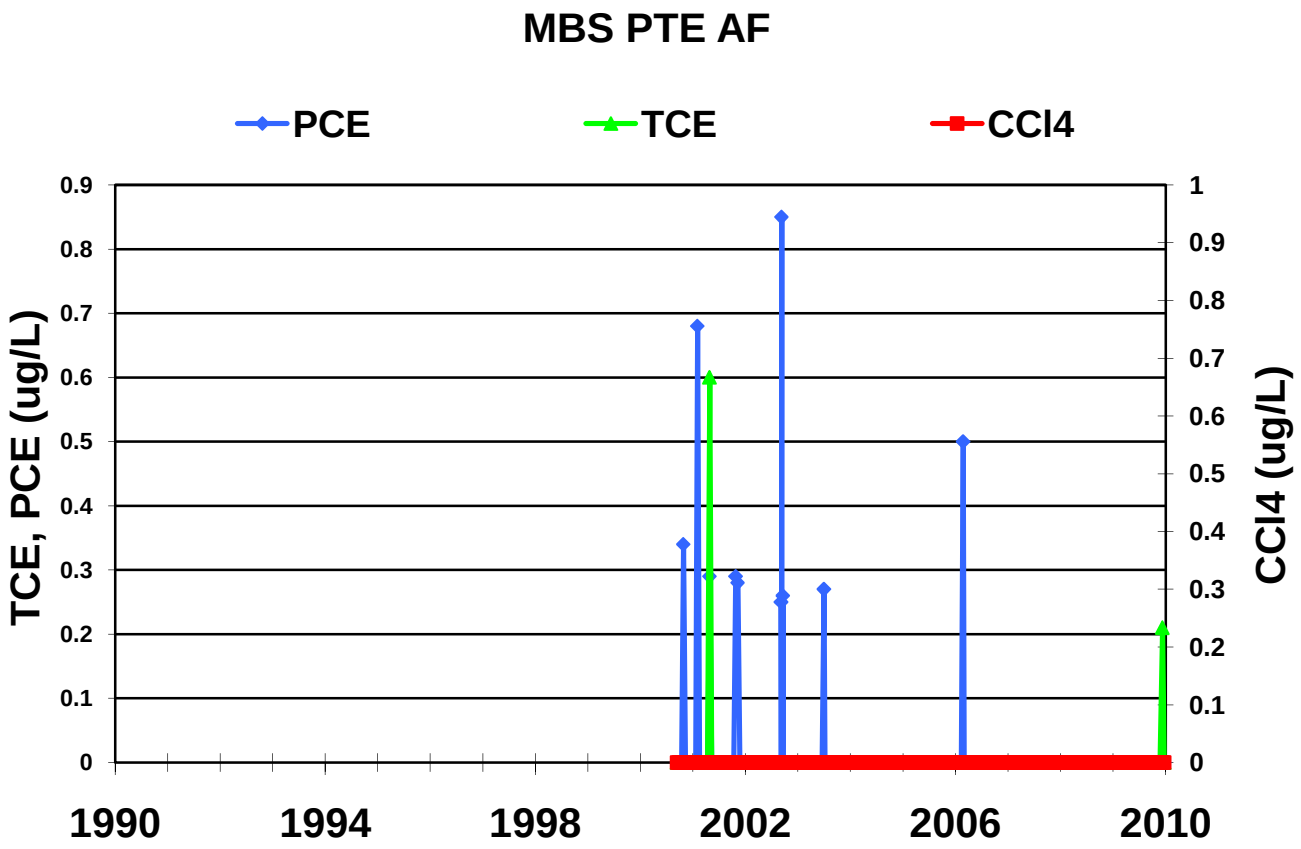
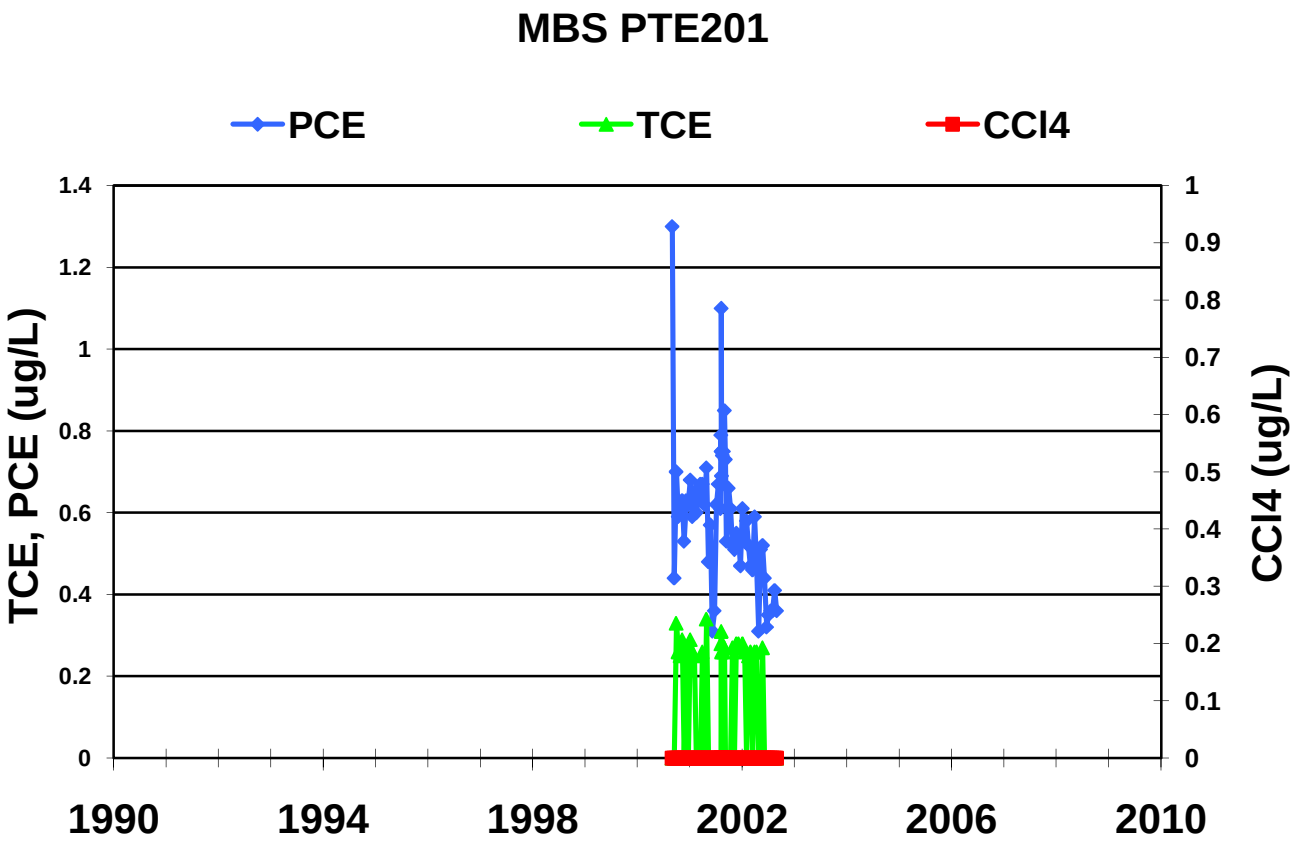
1994
1998
2002
2006
2010

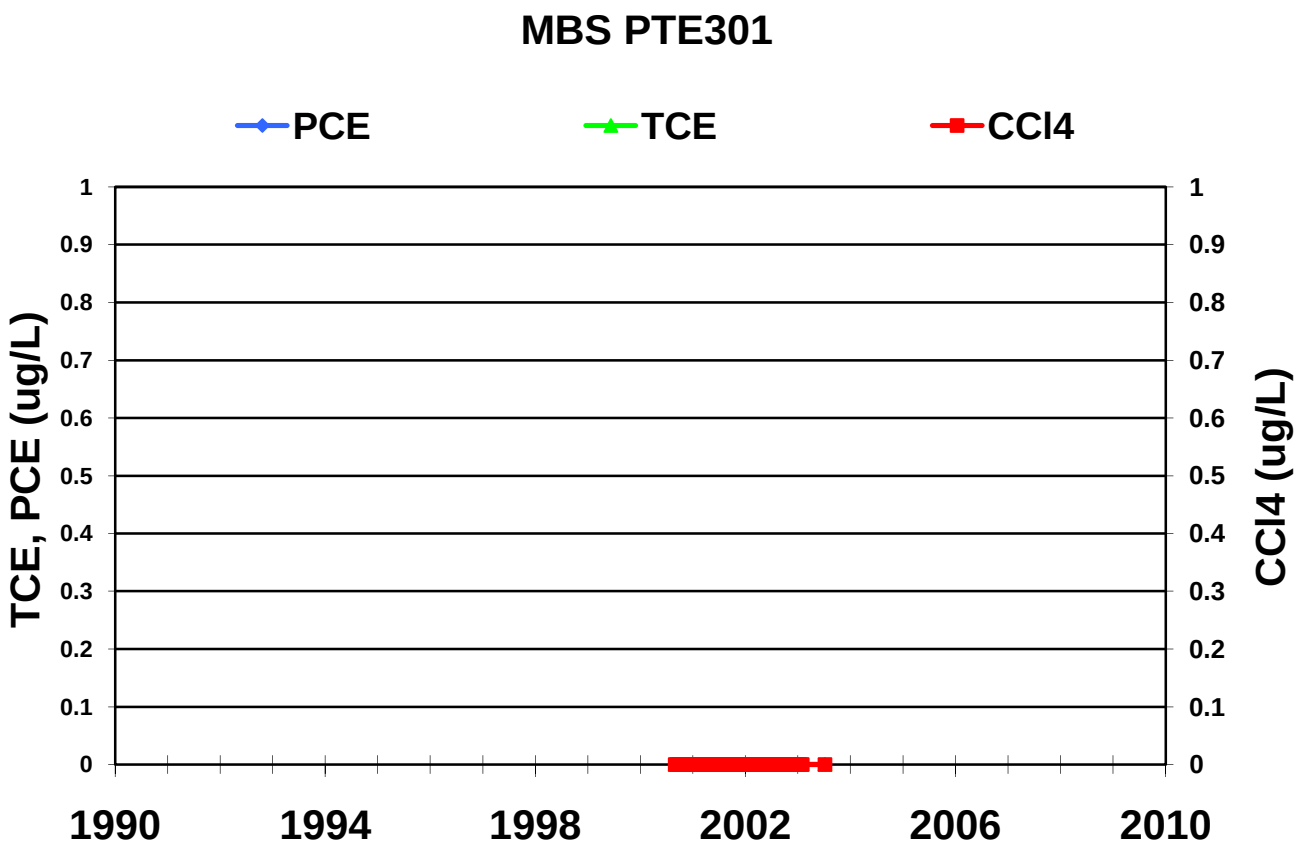

MBS EW-7B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1990
1994
1998
2002
2006
2010

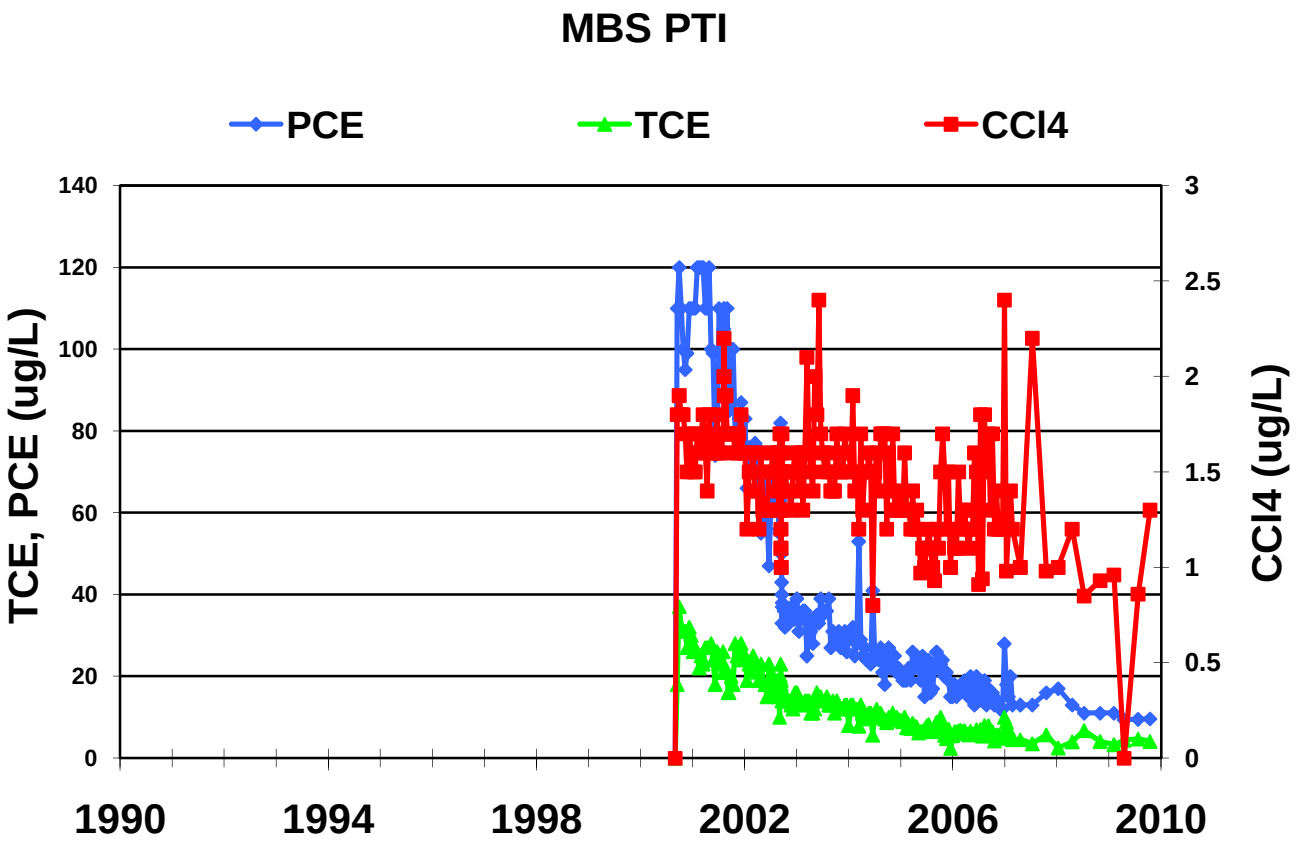

MBS IW-502
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

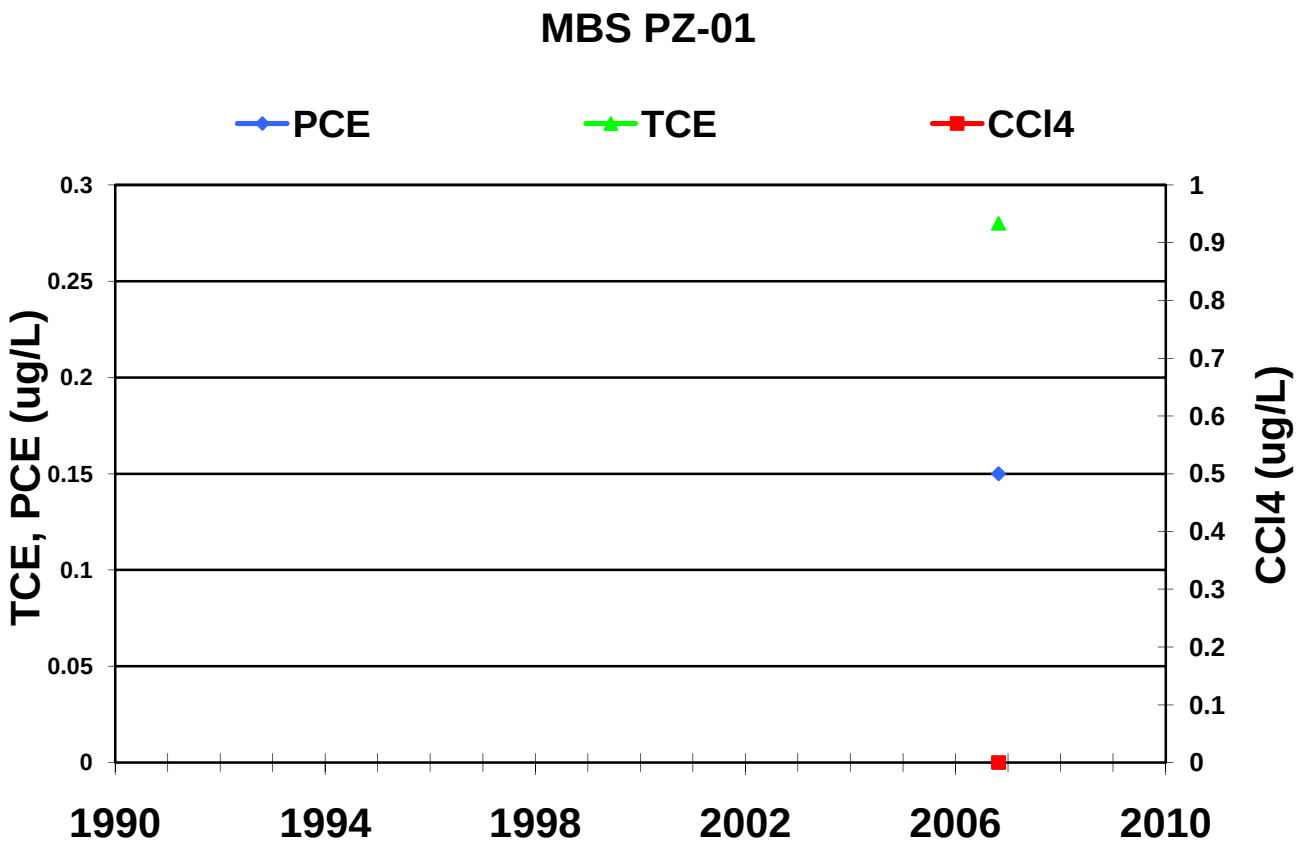

MBS IW-504
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

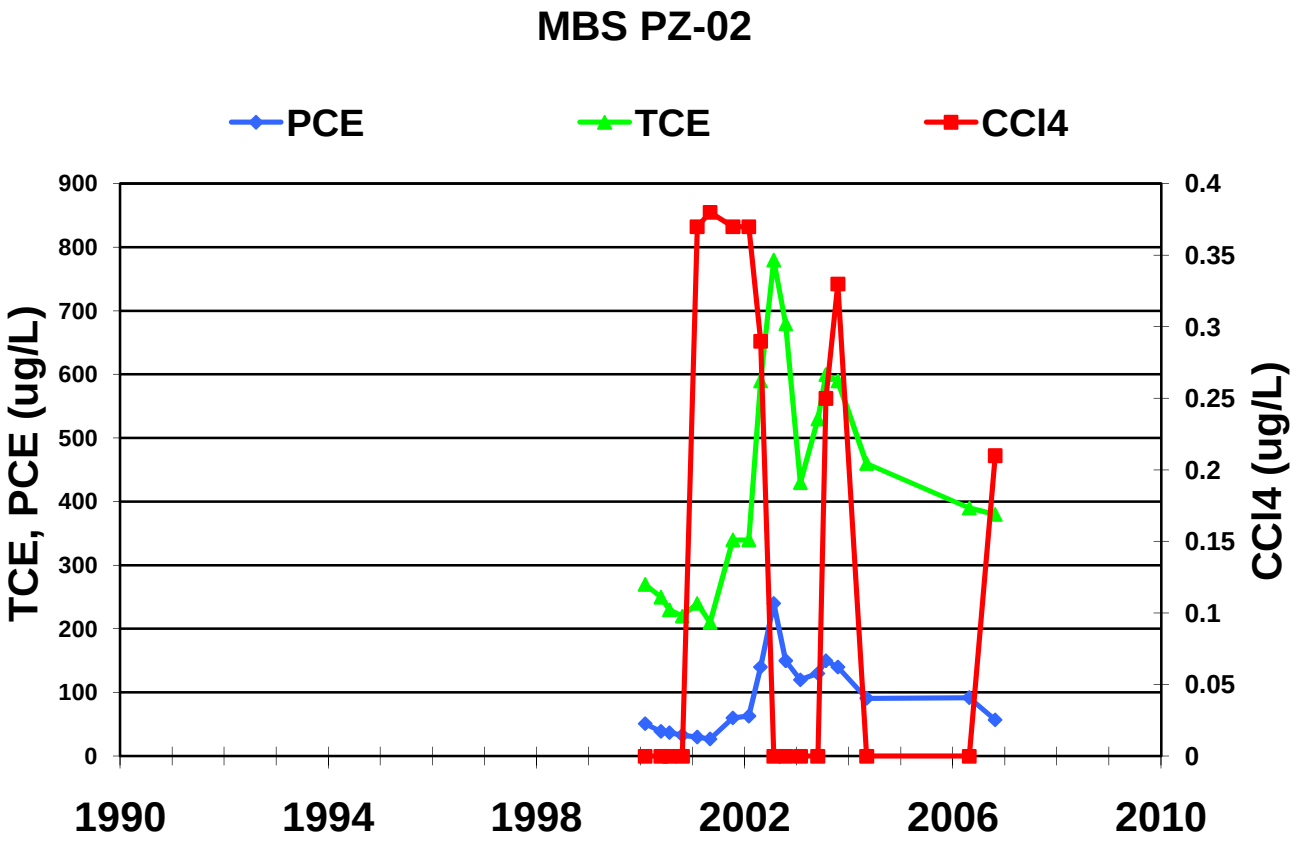

MBS PTE AF
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

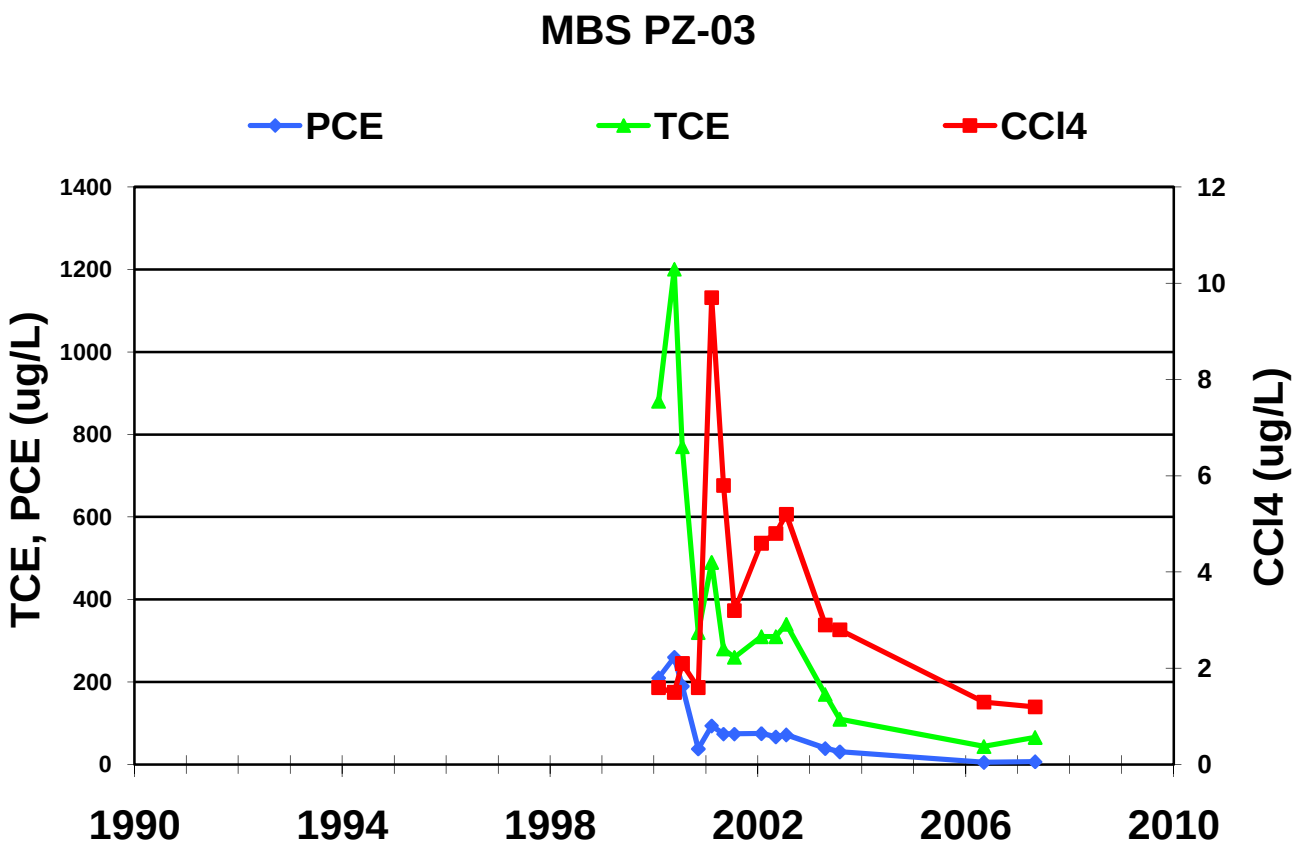

MBS PTE201
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.1
0.3
0.5
0.7
0.9
1
1990
1994
1998
2002
2006
2010

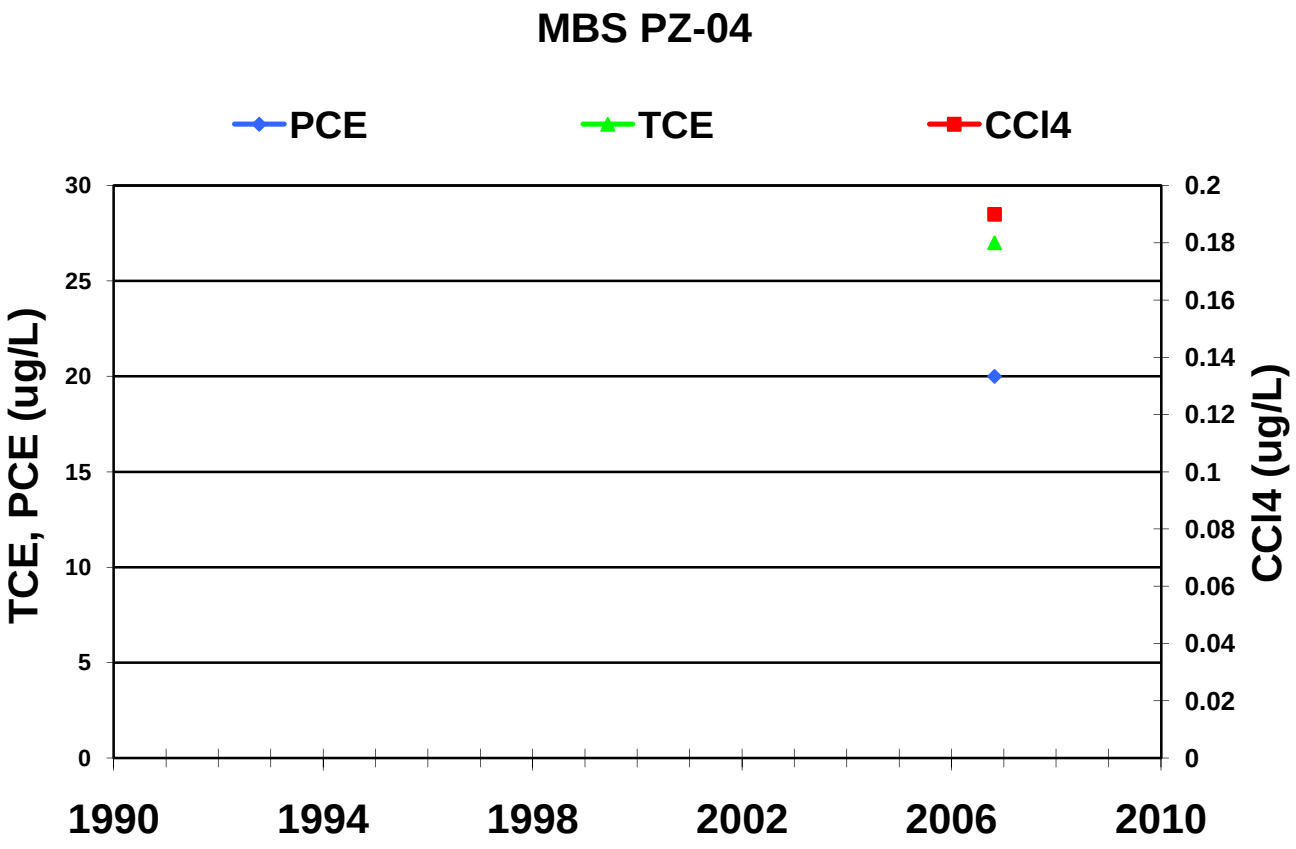

MBS PTE301
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

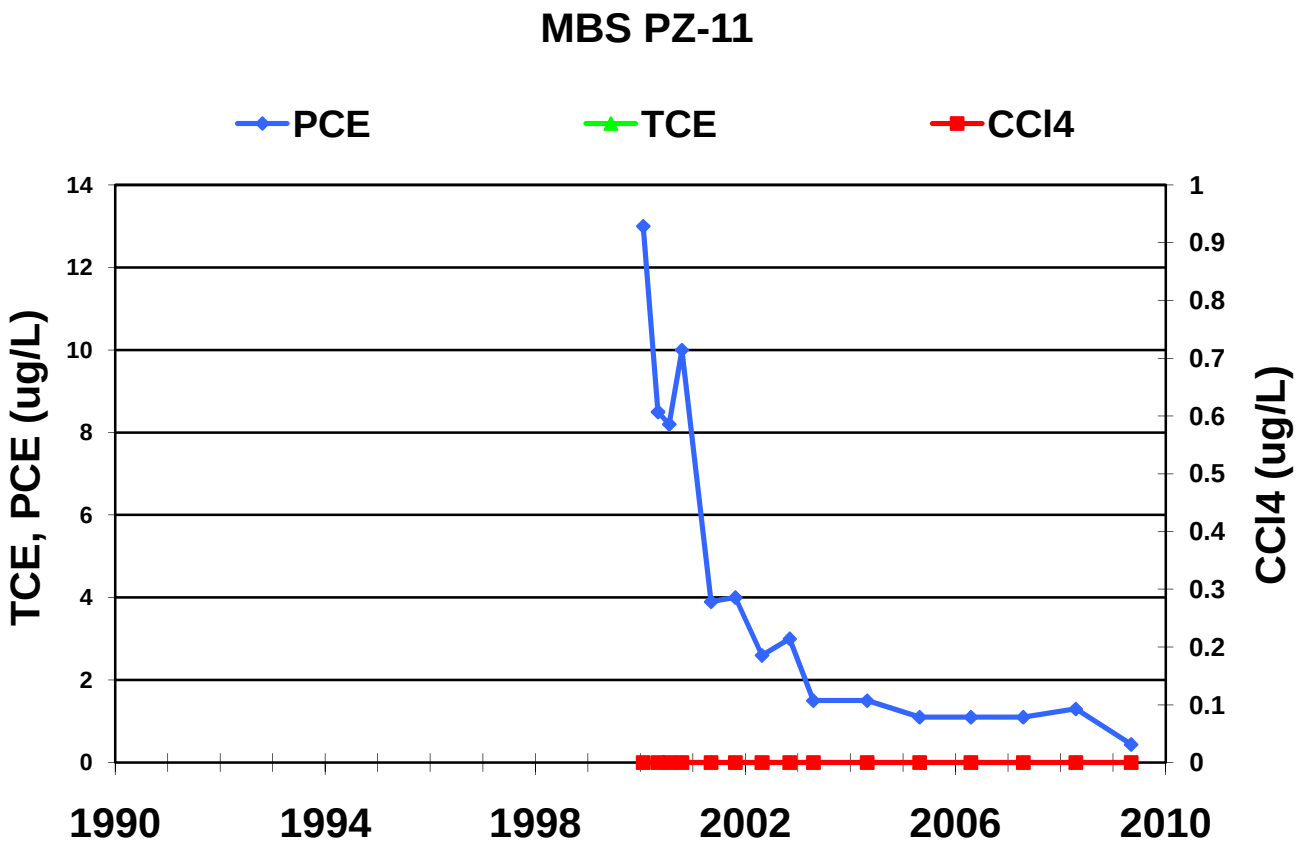

MBS PTI
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
140
120
100
80
60
40
20
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

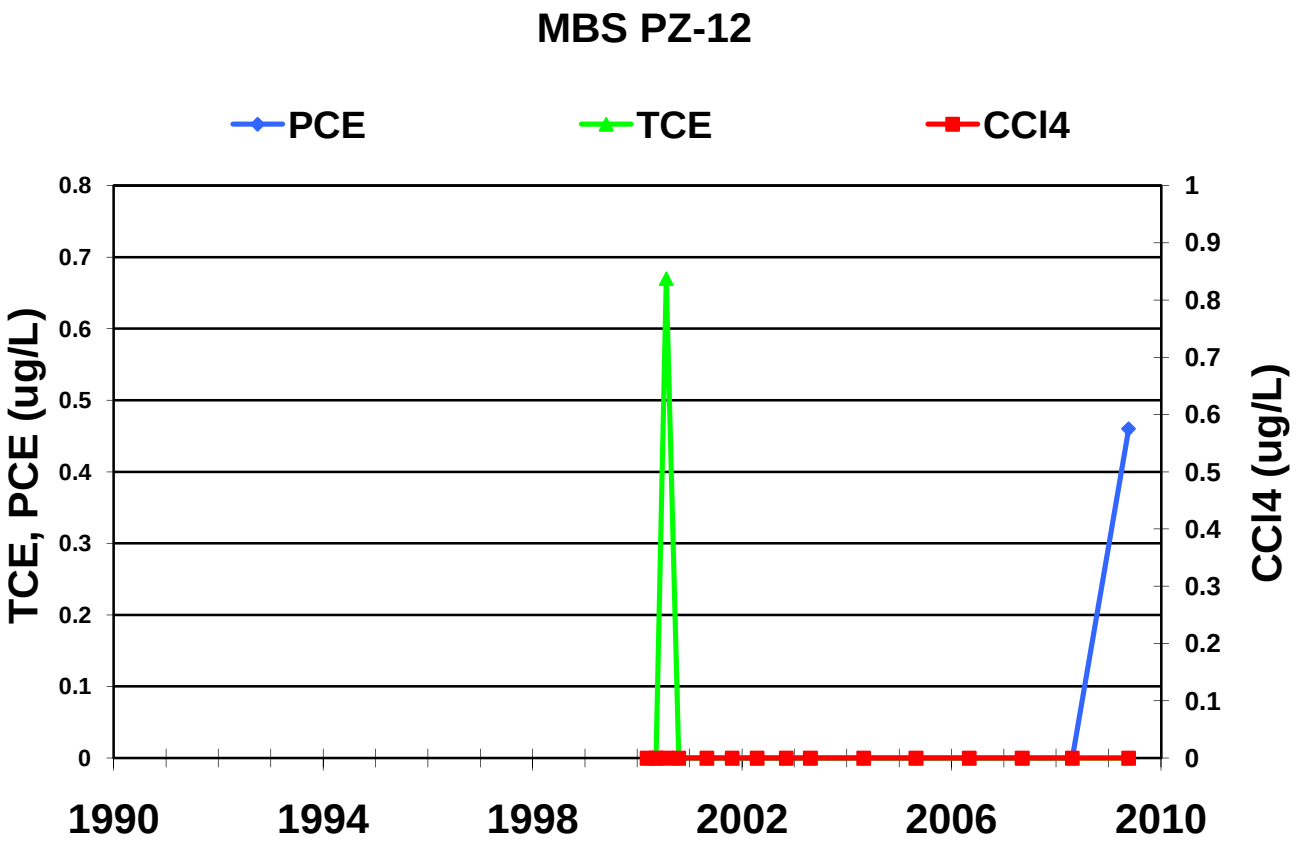

MBS PZ-01
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

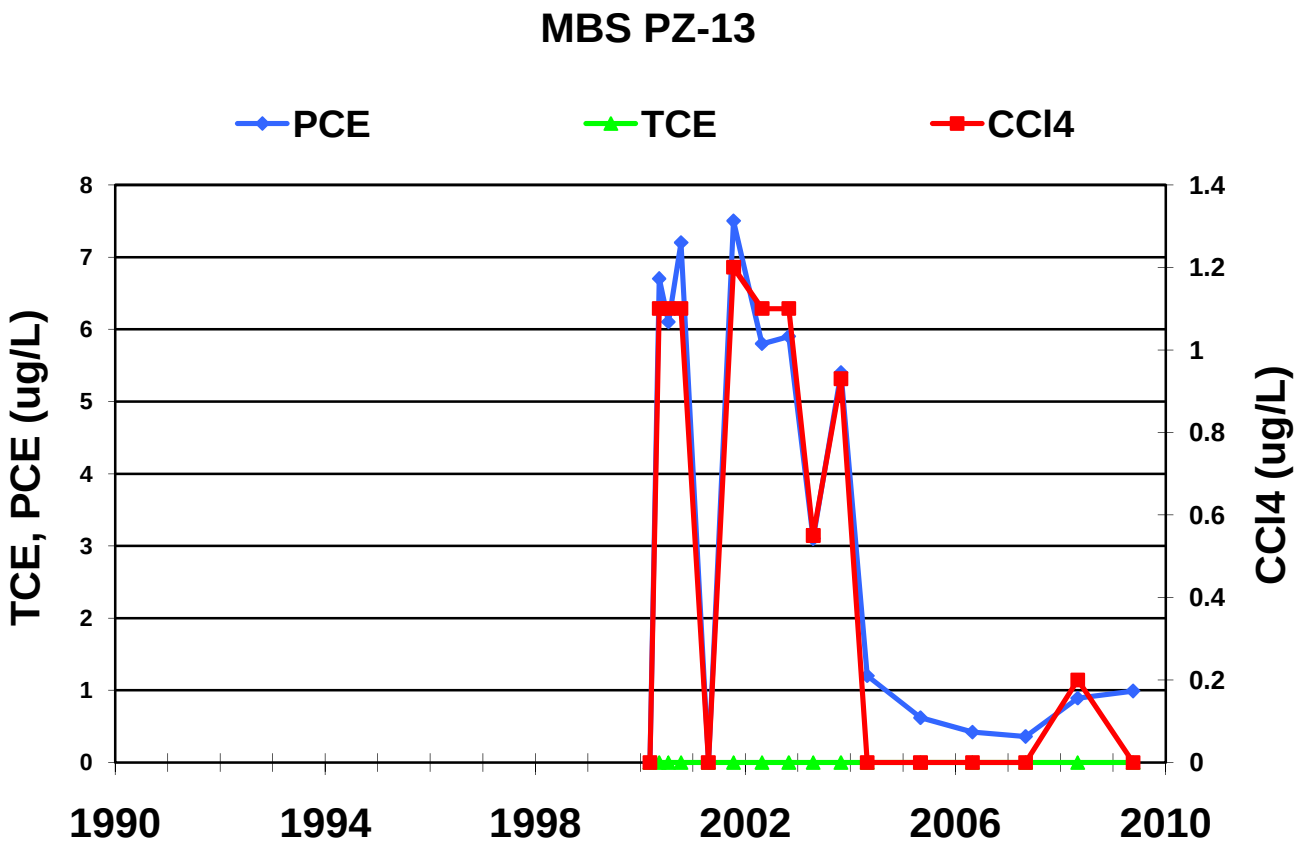

MBS PZ-02
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
900
800
700
600
500
400
300
200
100
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

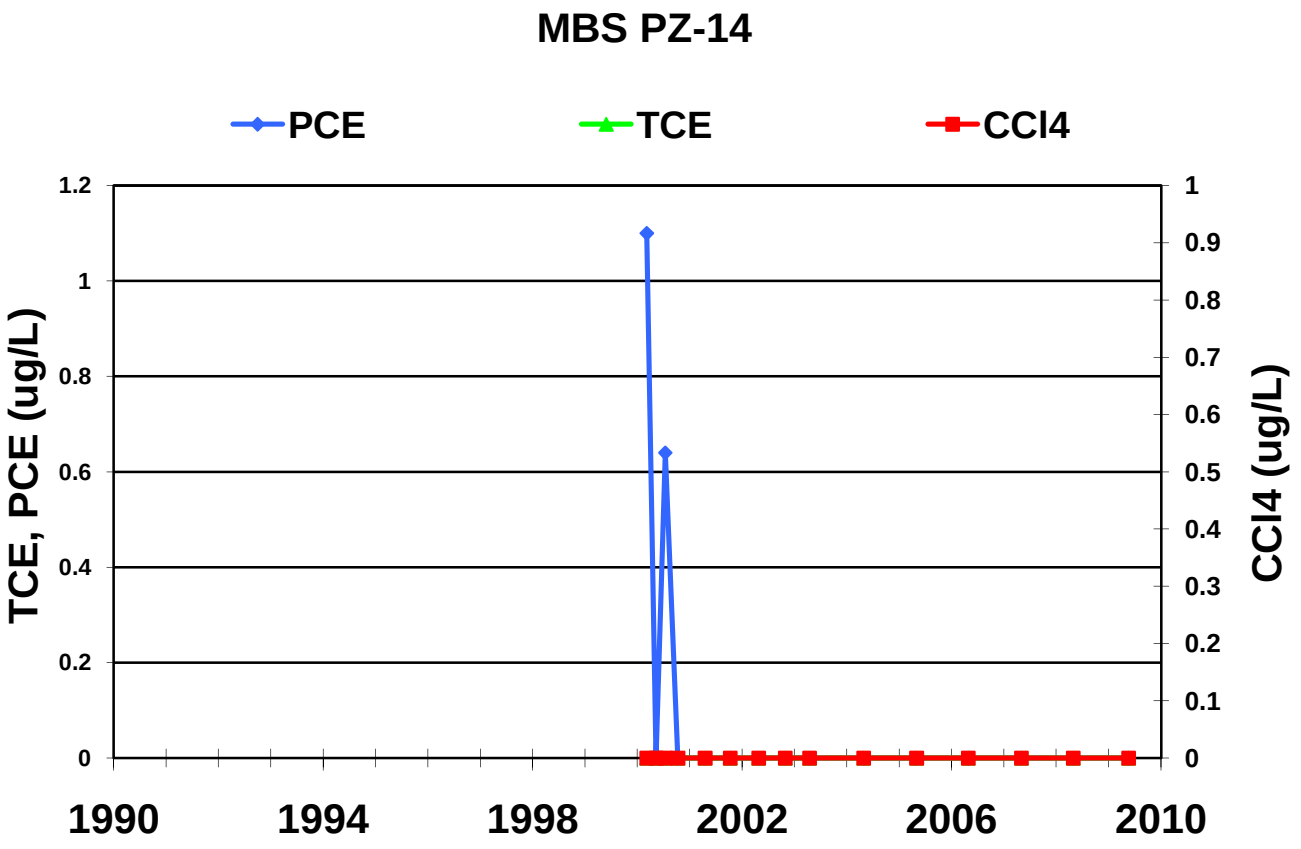

MBS PZ-03
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1400
1200
1000
800
600
400
200
0
12
10
8
6
4
2
0
1990
1994
1998
2002
2006
2010

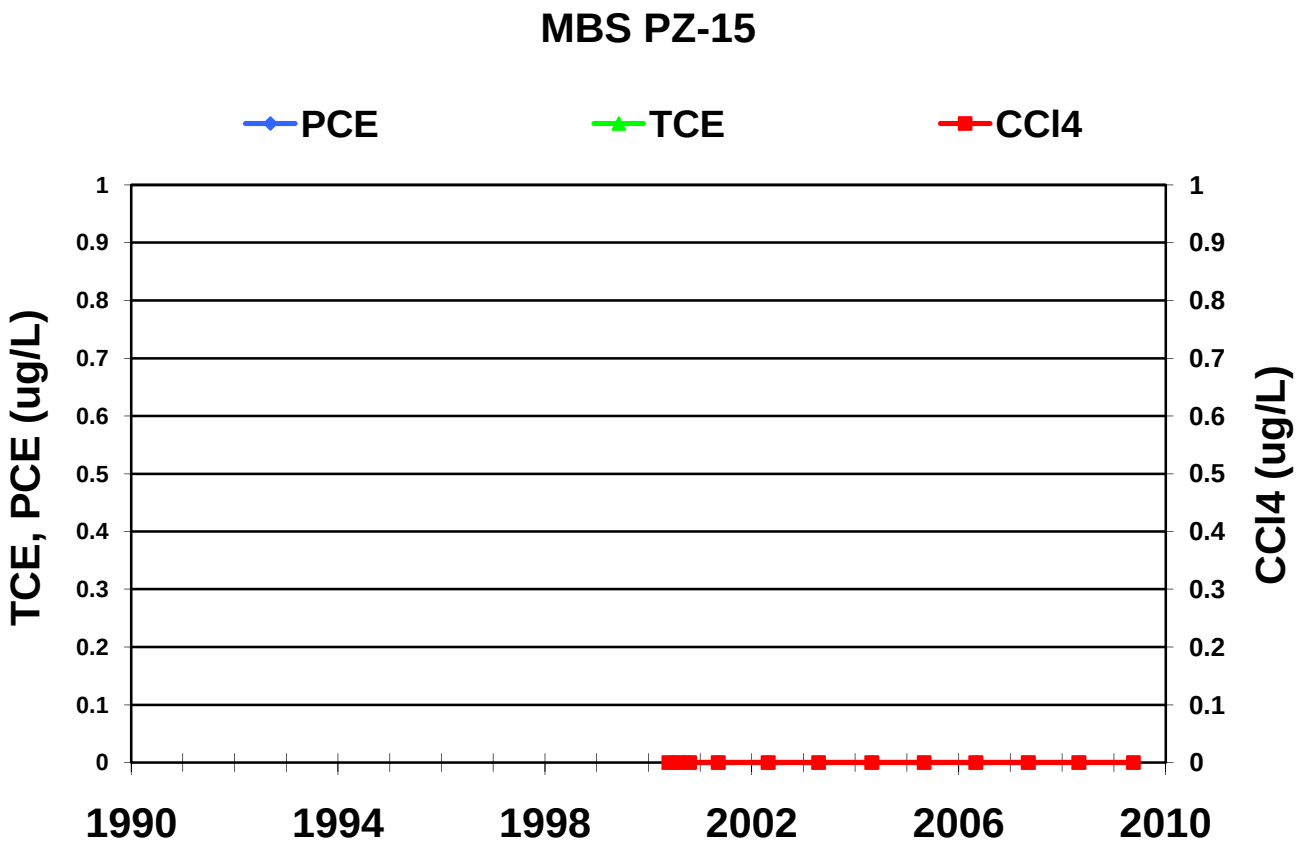

MBS PZ-04
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1990
1994
1998
2002
2006
2010

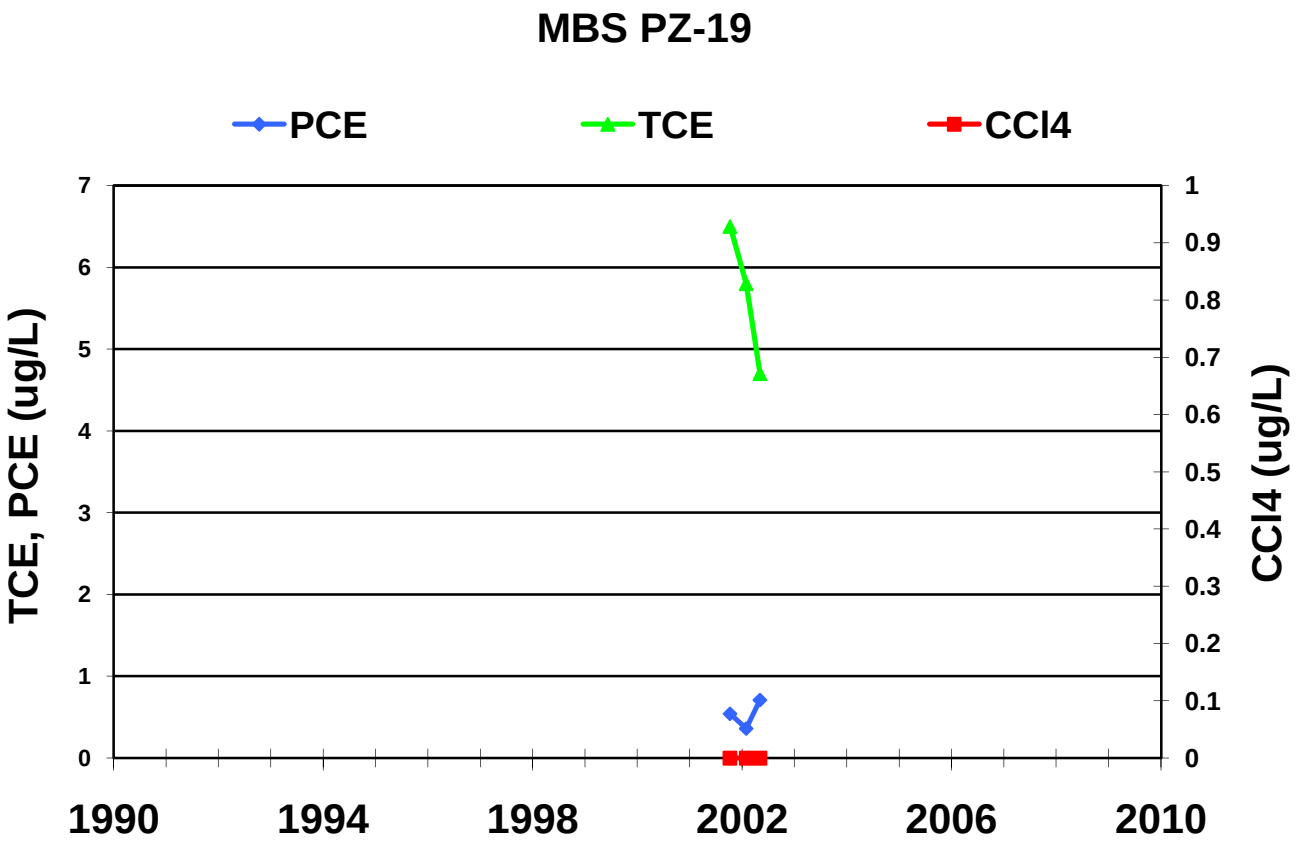

MBS PZ-11
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

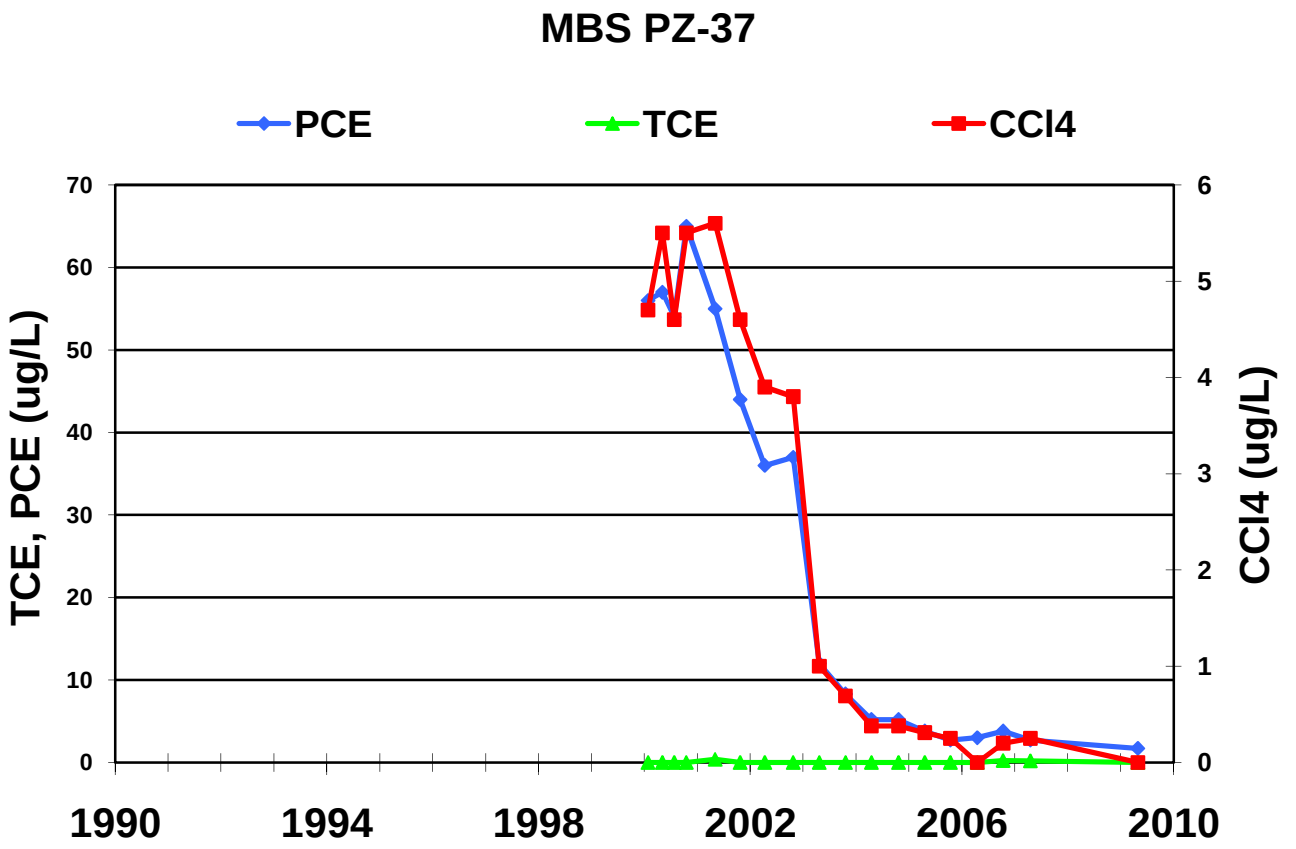

MBS PZ-12
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

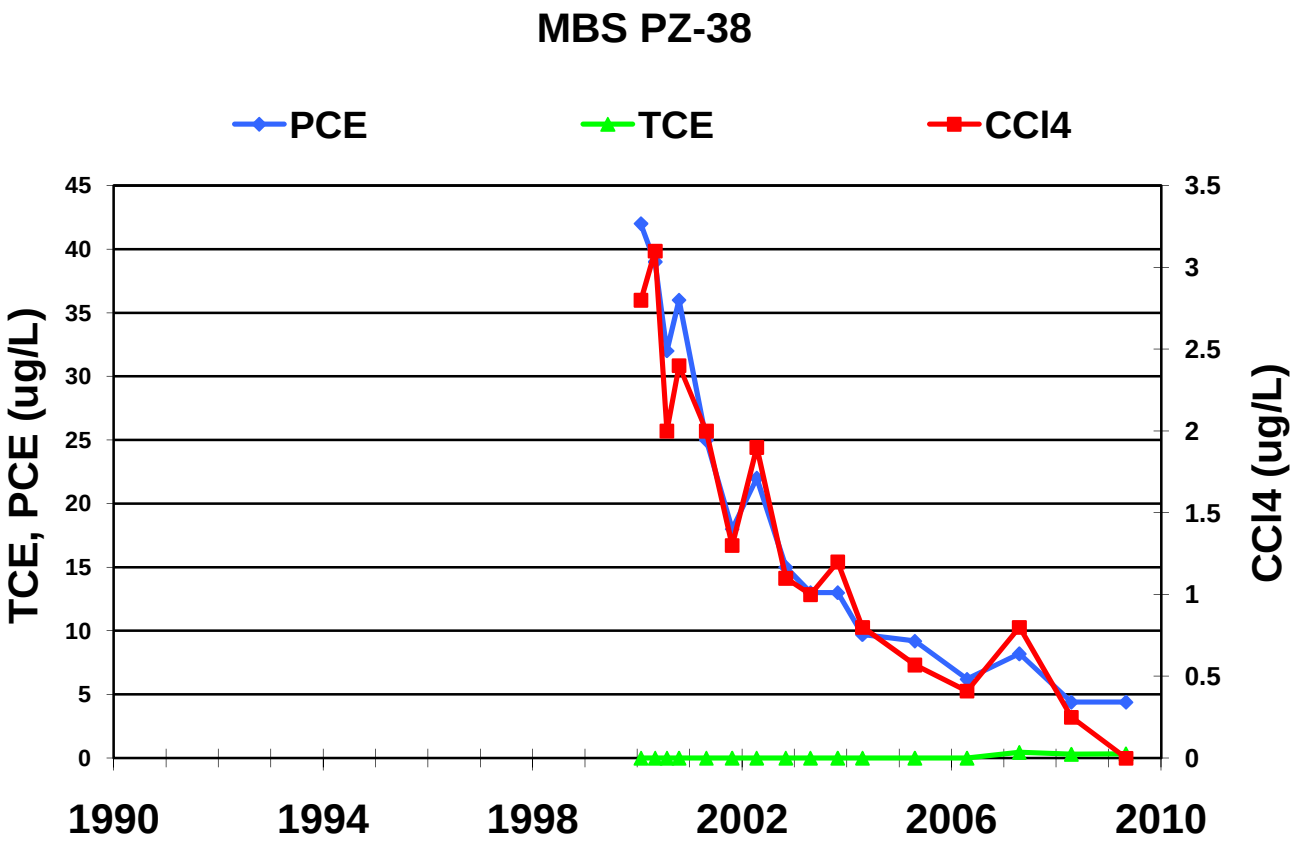

MBS PZ-13
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1990
1994
1998
2002
2006
2010

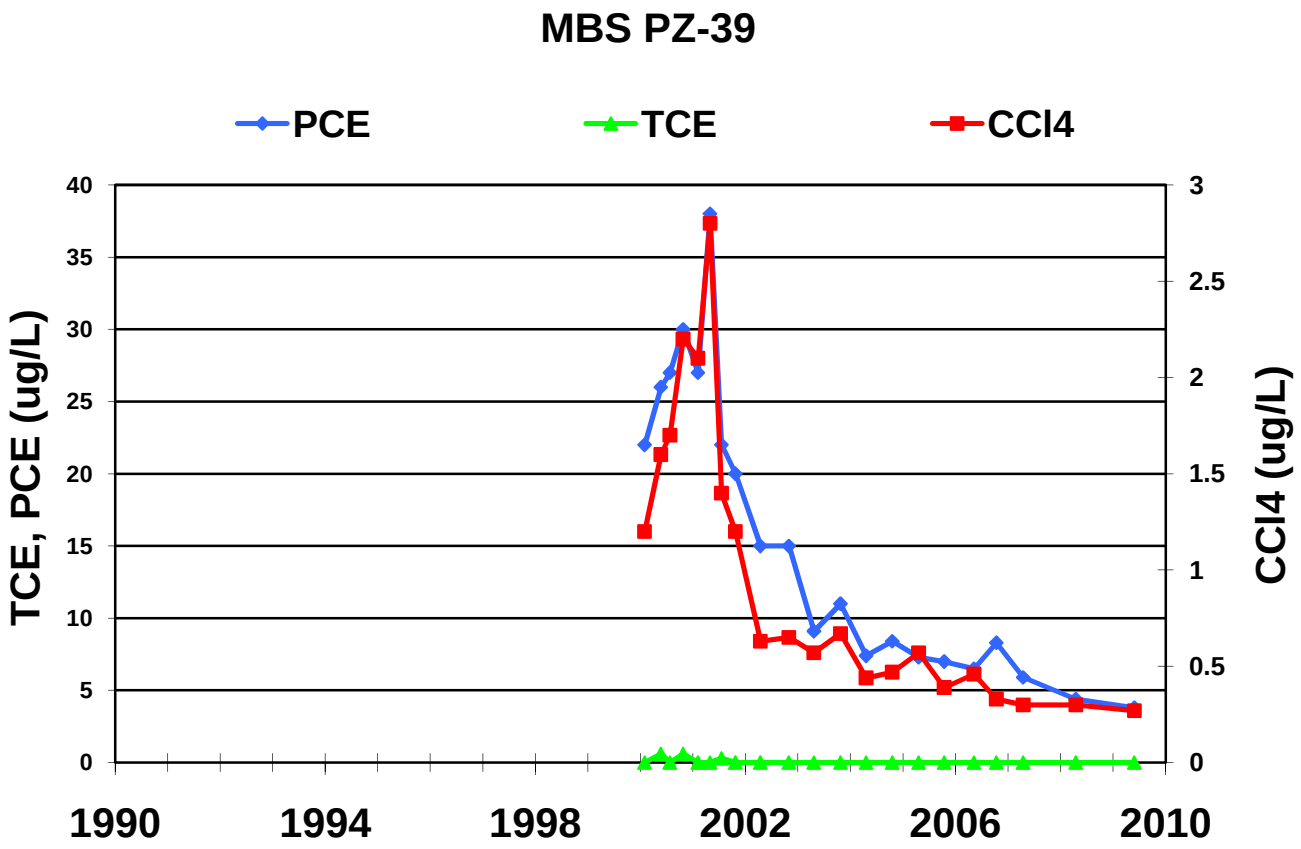

MBS PZ-14
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.2
0.4
0.6
0.8
1
1.2
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

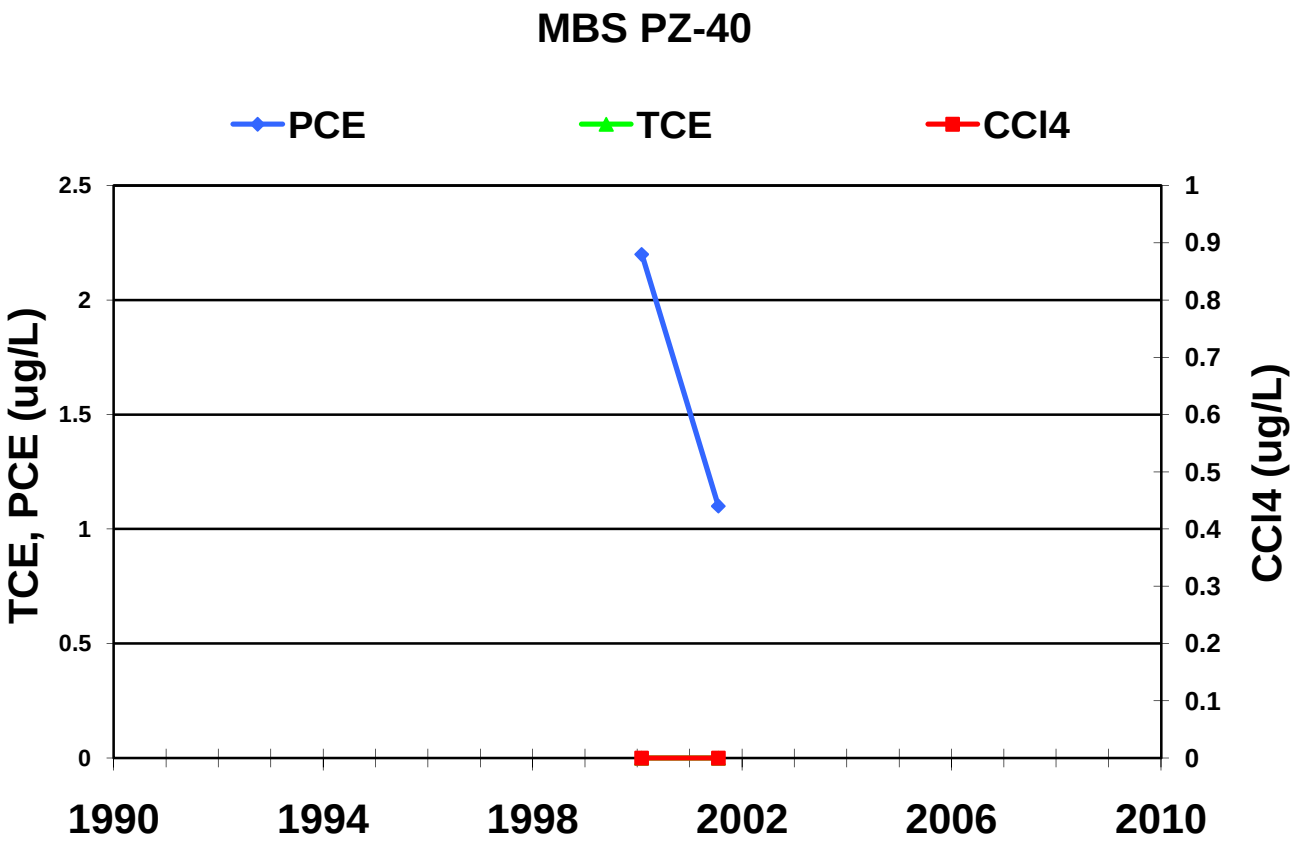

MBS PZ-15
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

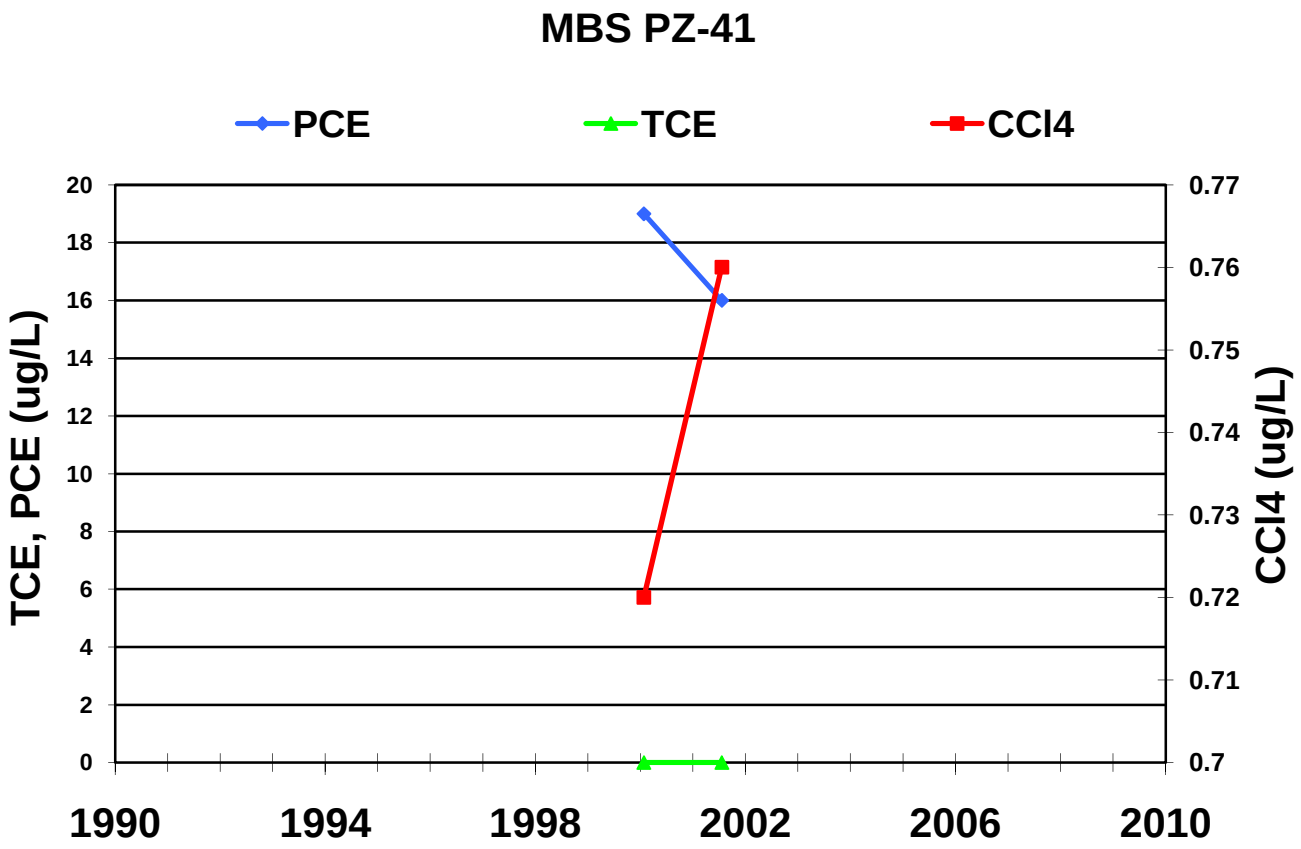

MBS PZ-19
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

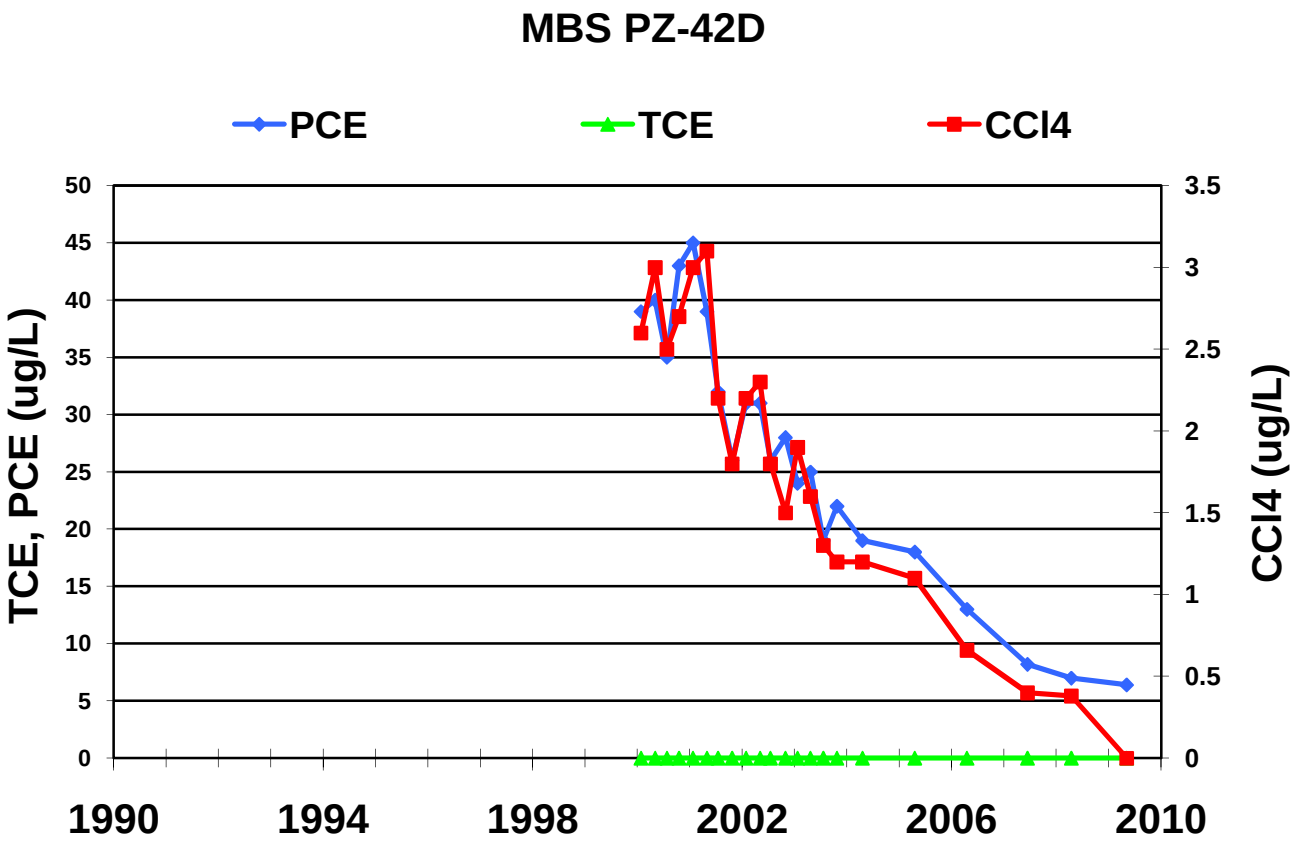

MBS PZ-37
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
70
60
50
40
30
20
10
0
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

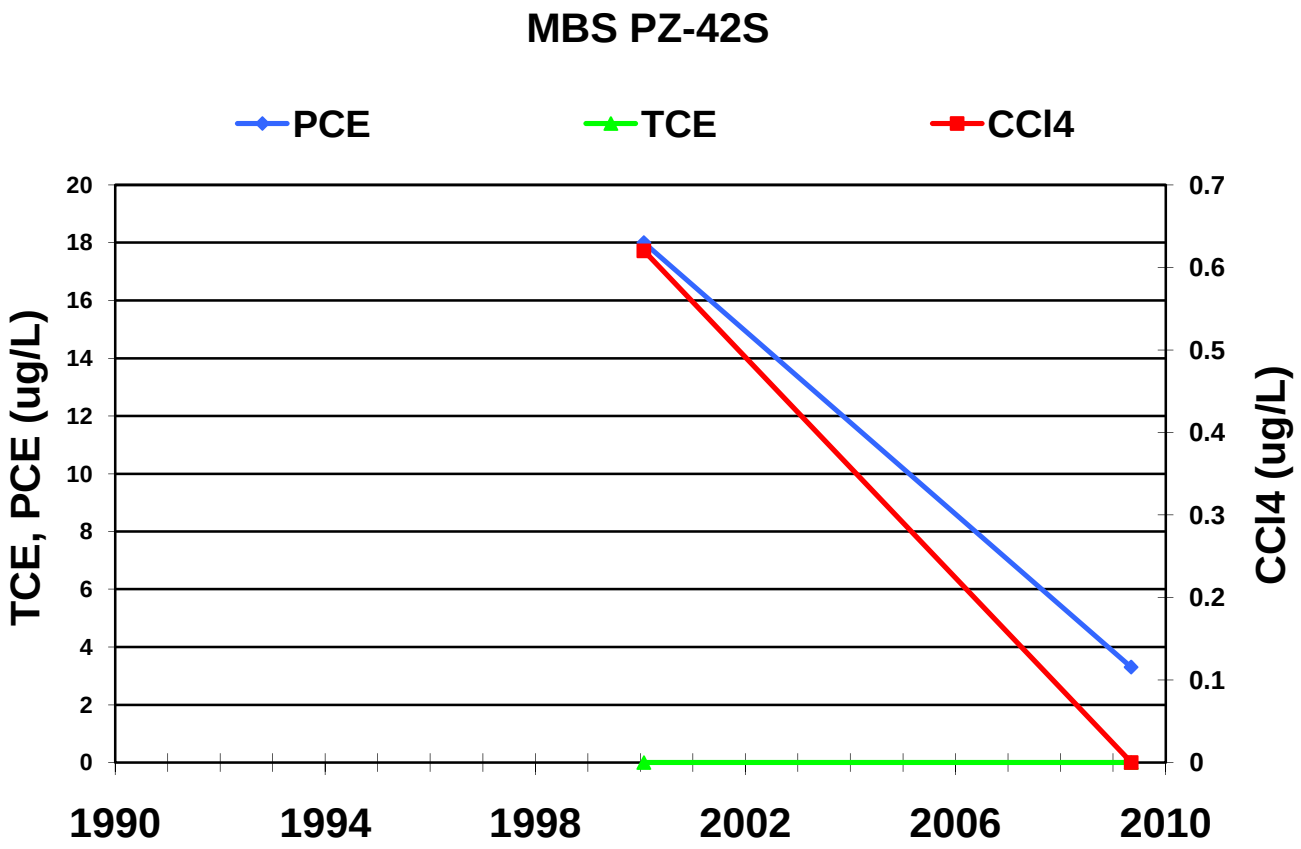

MBS PZ-38
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
45
40
35
30
25
20
15
10
5
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

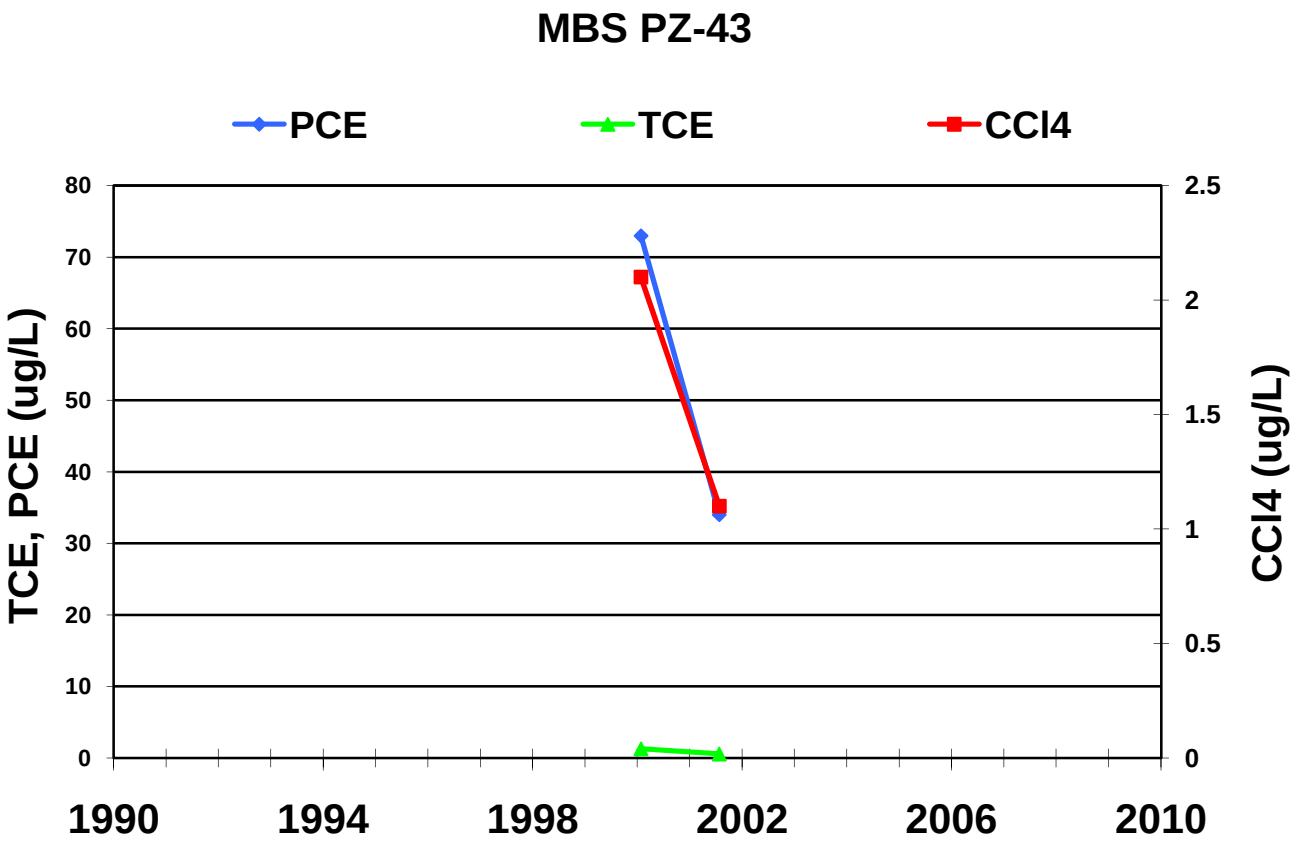

MBS PZ-39
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
0
0.5
1
1.5
2
2.5
3
1990
1994
1998
2002
2006
2010

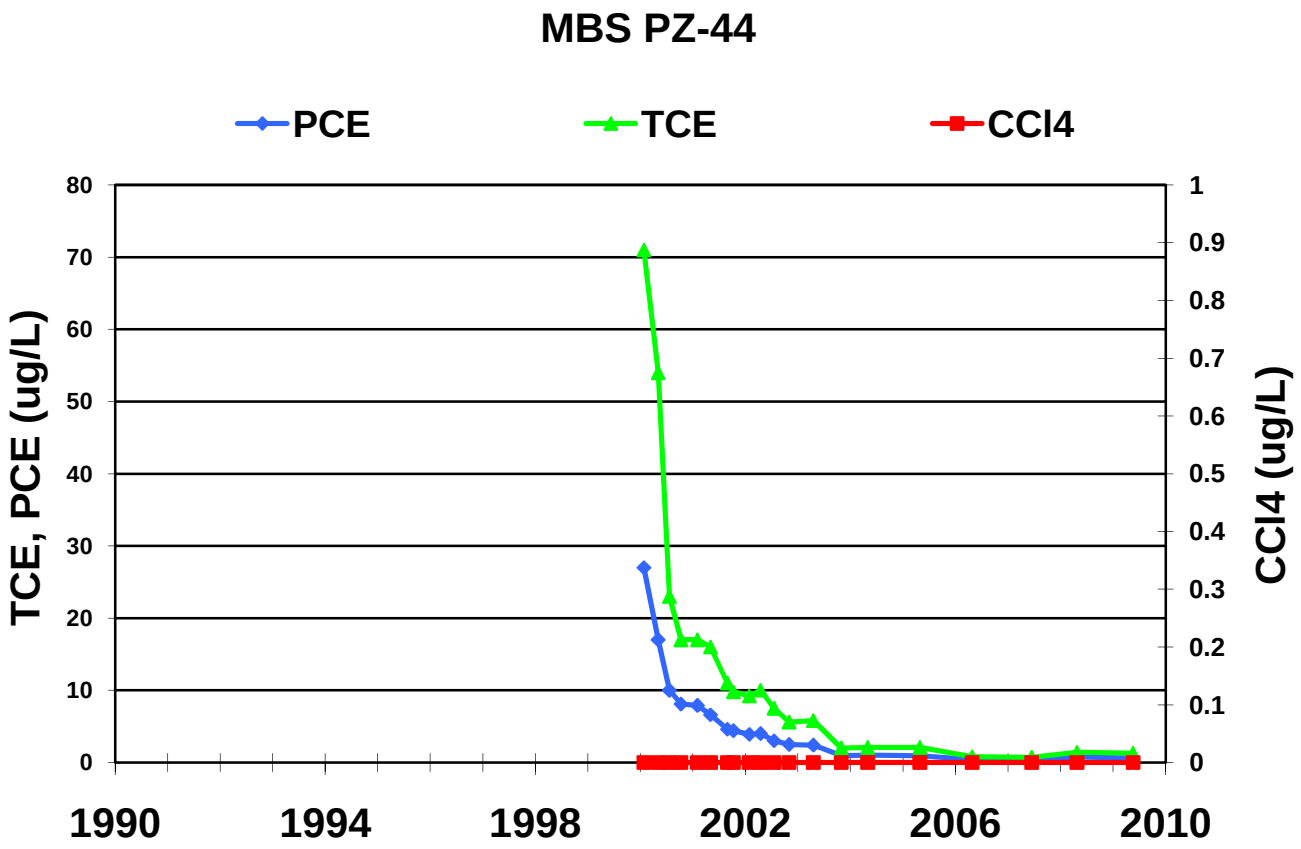

MBS PZ-40
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

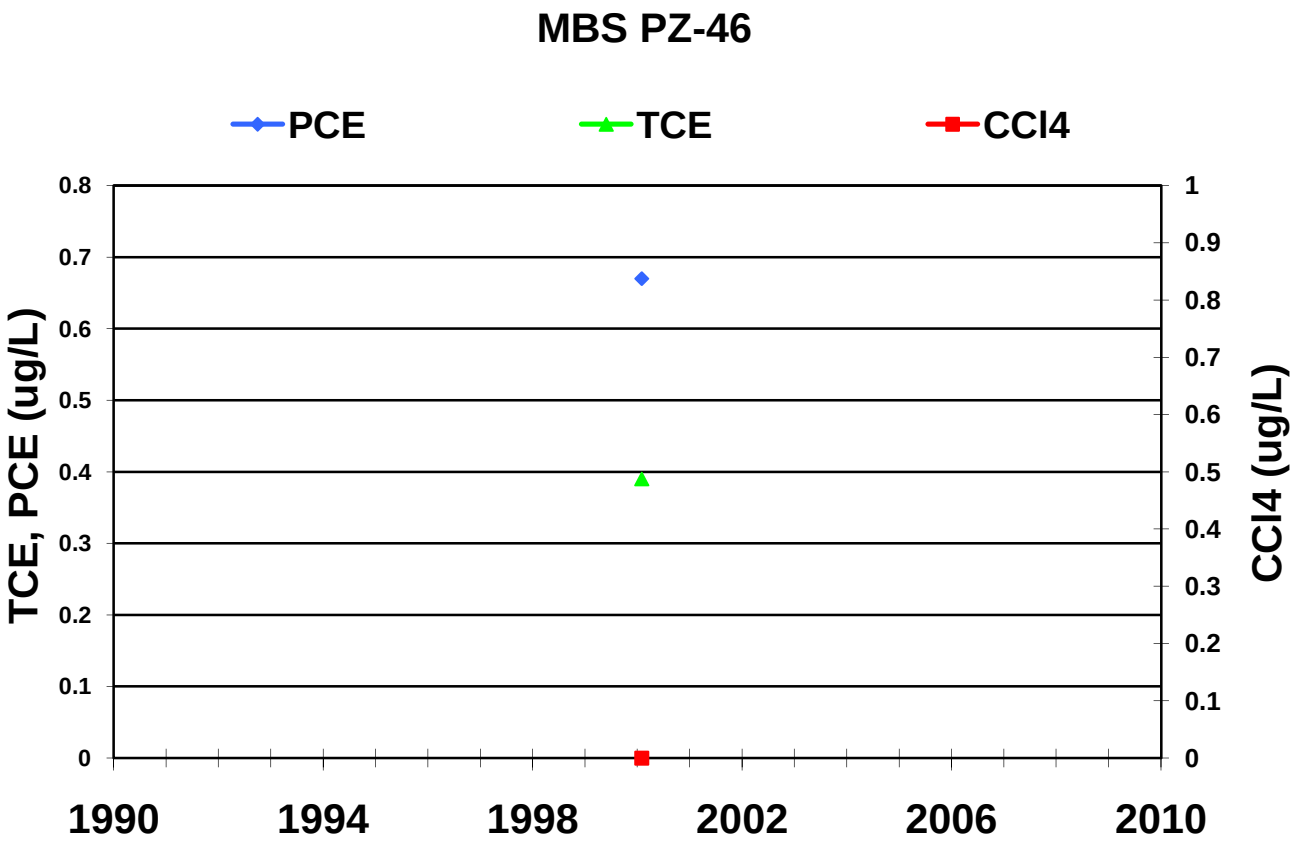

MBS PZ-41
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
18
20
0.7
0.71
0.72
0.73
0.74
0.75
0.76
0.77
1990
1994
1998
2002
2006
2010

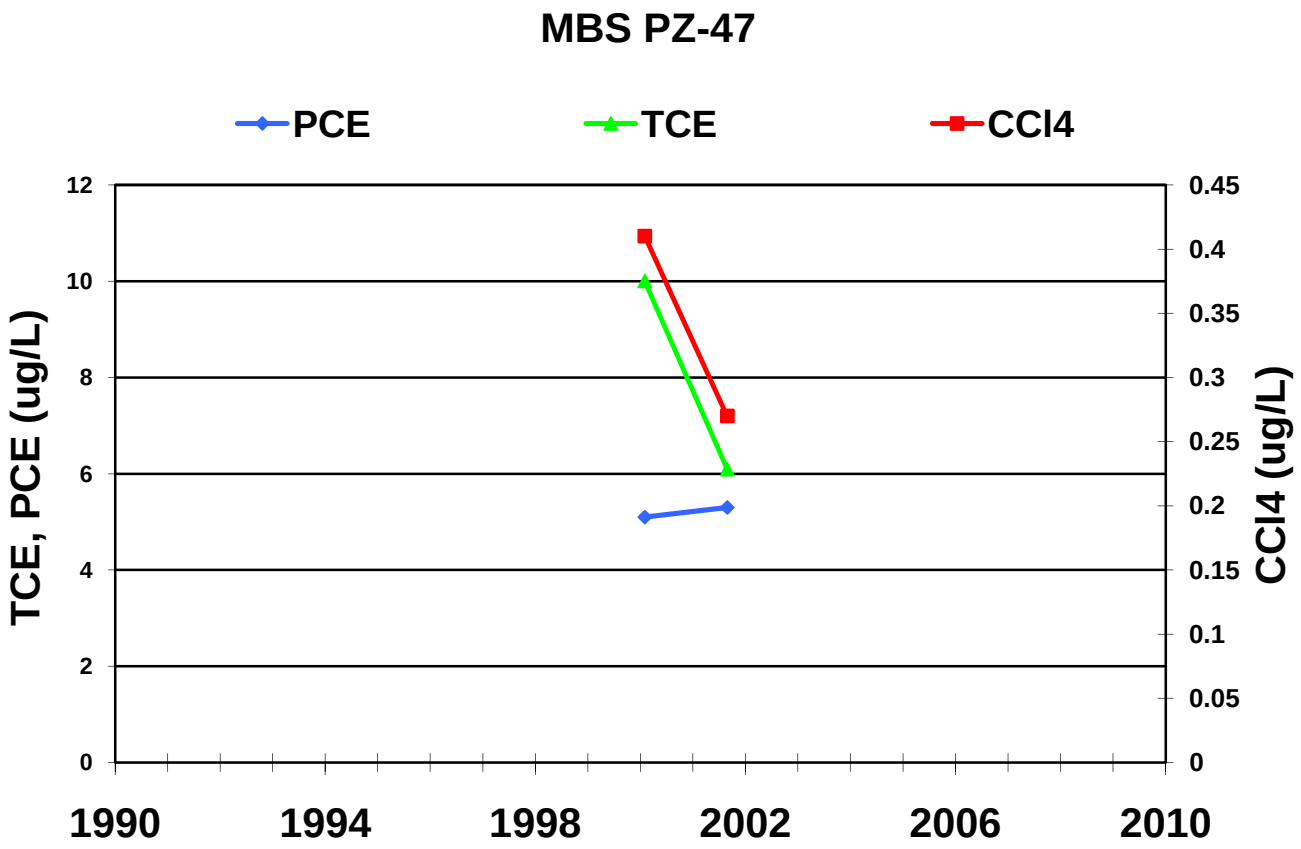

MBS PZ-42D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
40
45
50
0
0.5
1
1.5
2
2.5
3
3.5
1990
1994
1998
2002
2006
2010

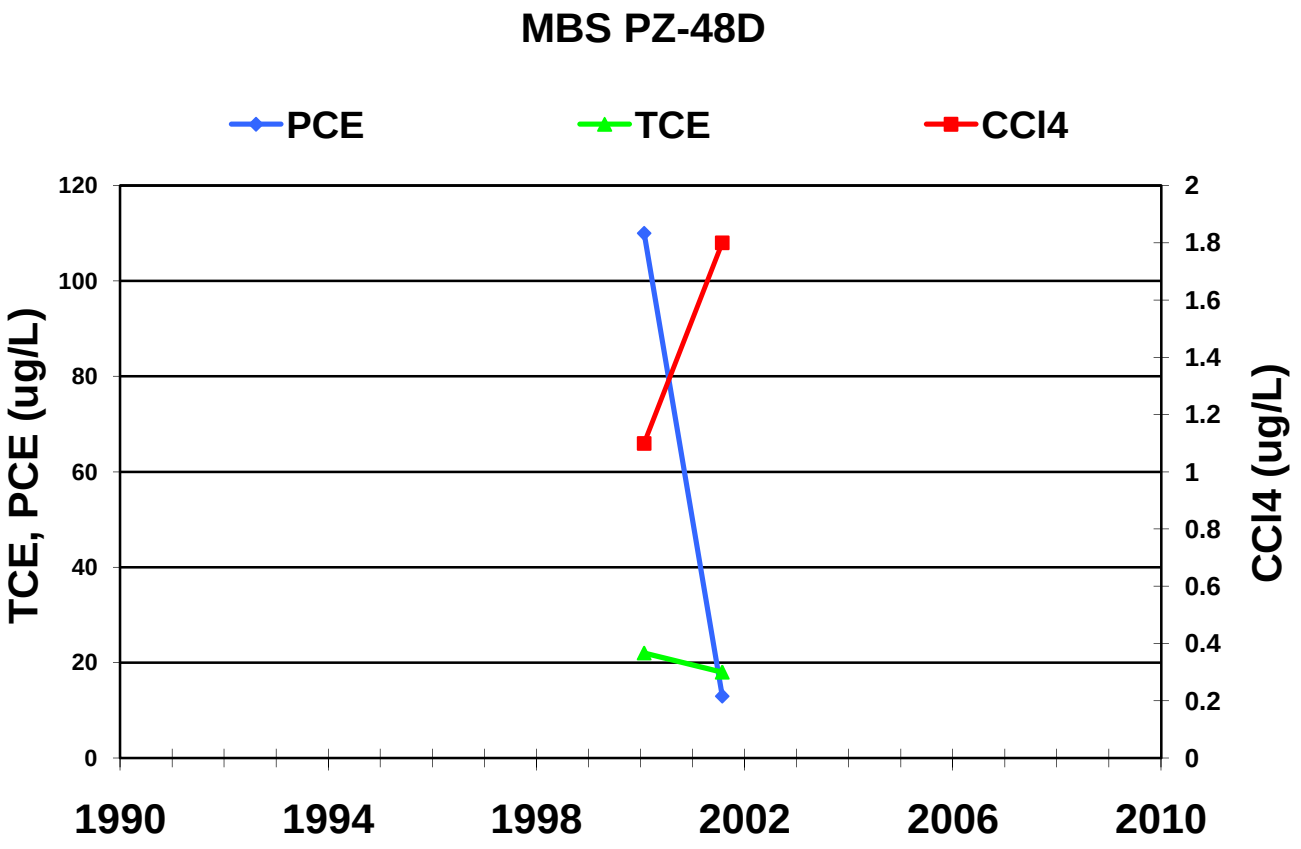

MBS PZ-42S
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
14
16
18
20
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1990
1994
1998
2002
2006
2010


MBS PZ-43
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
10
20
30
40
50
60
70
80
0
0.5
1
1.5
2
2.5
1990
1994
1998
2002
2006
2010

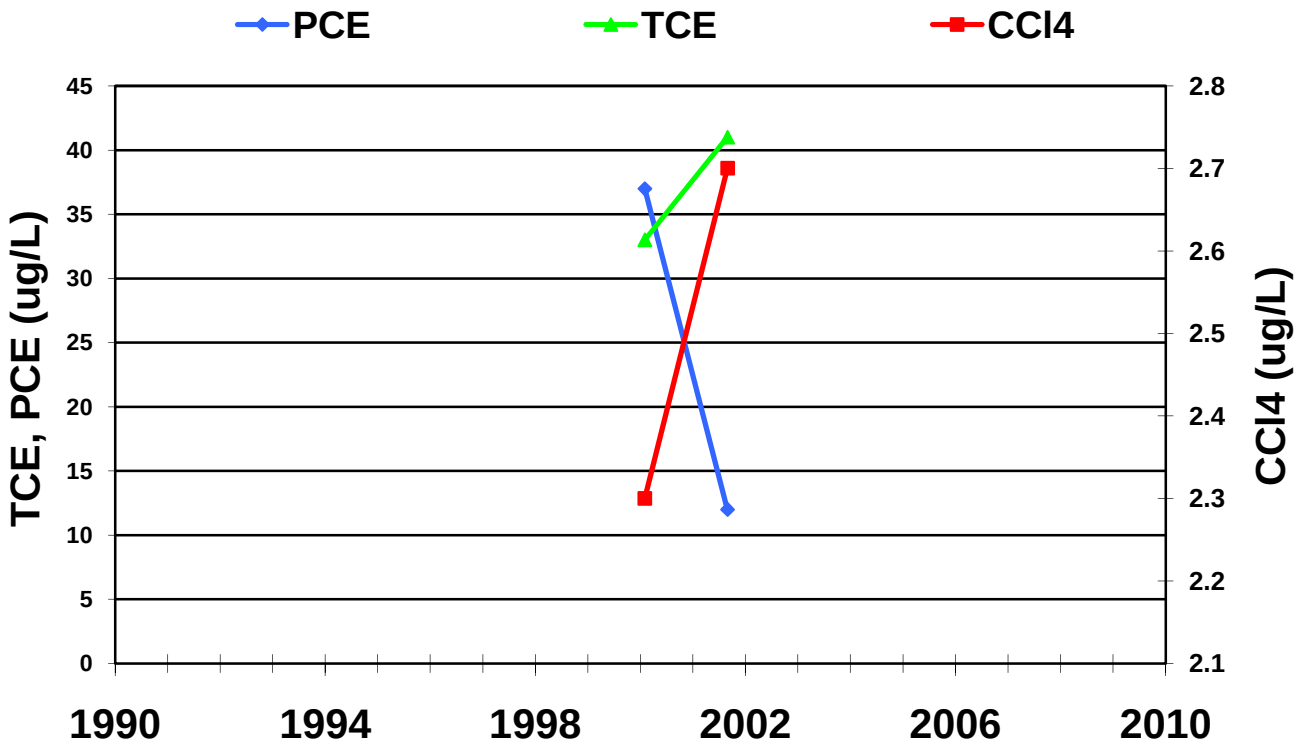

MBS PZ-44
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


MBS PZ-46
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

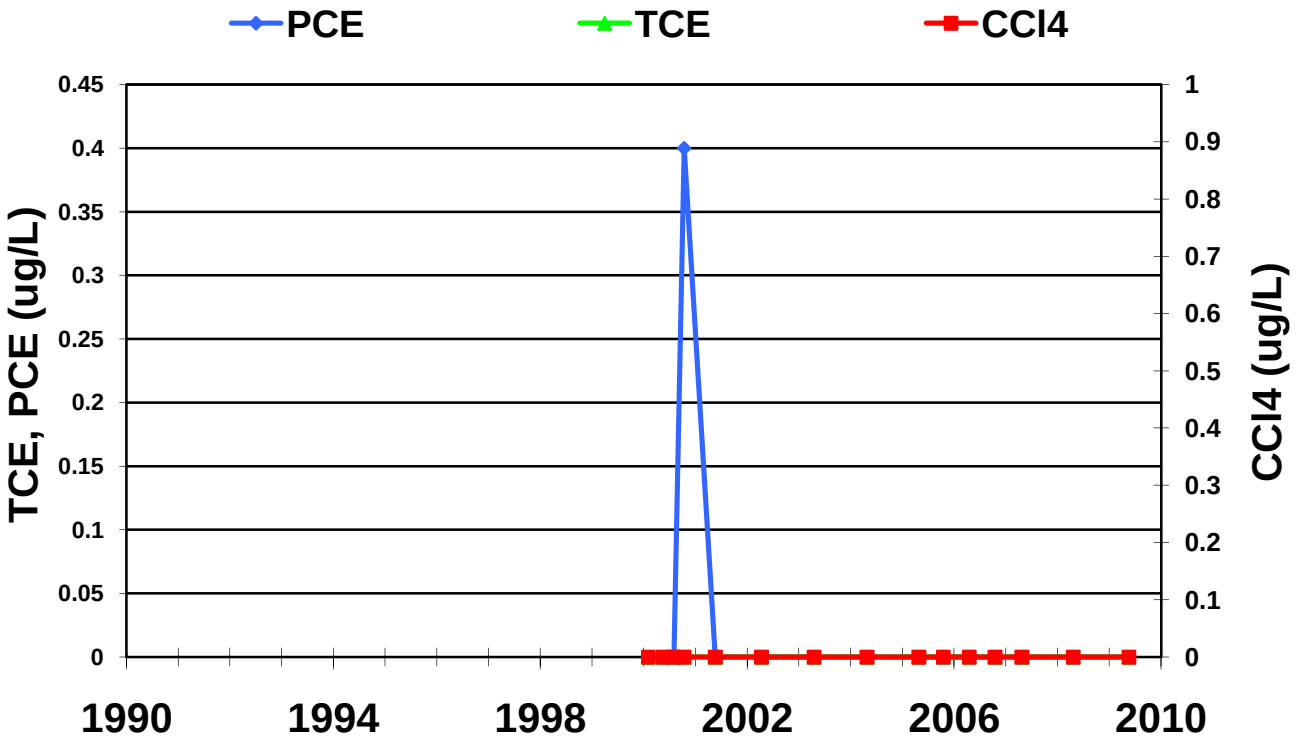

MBS PZ-47
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
2
4
6
8
10
12
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
1990
1994
1998
2002
2006
2010

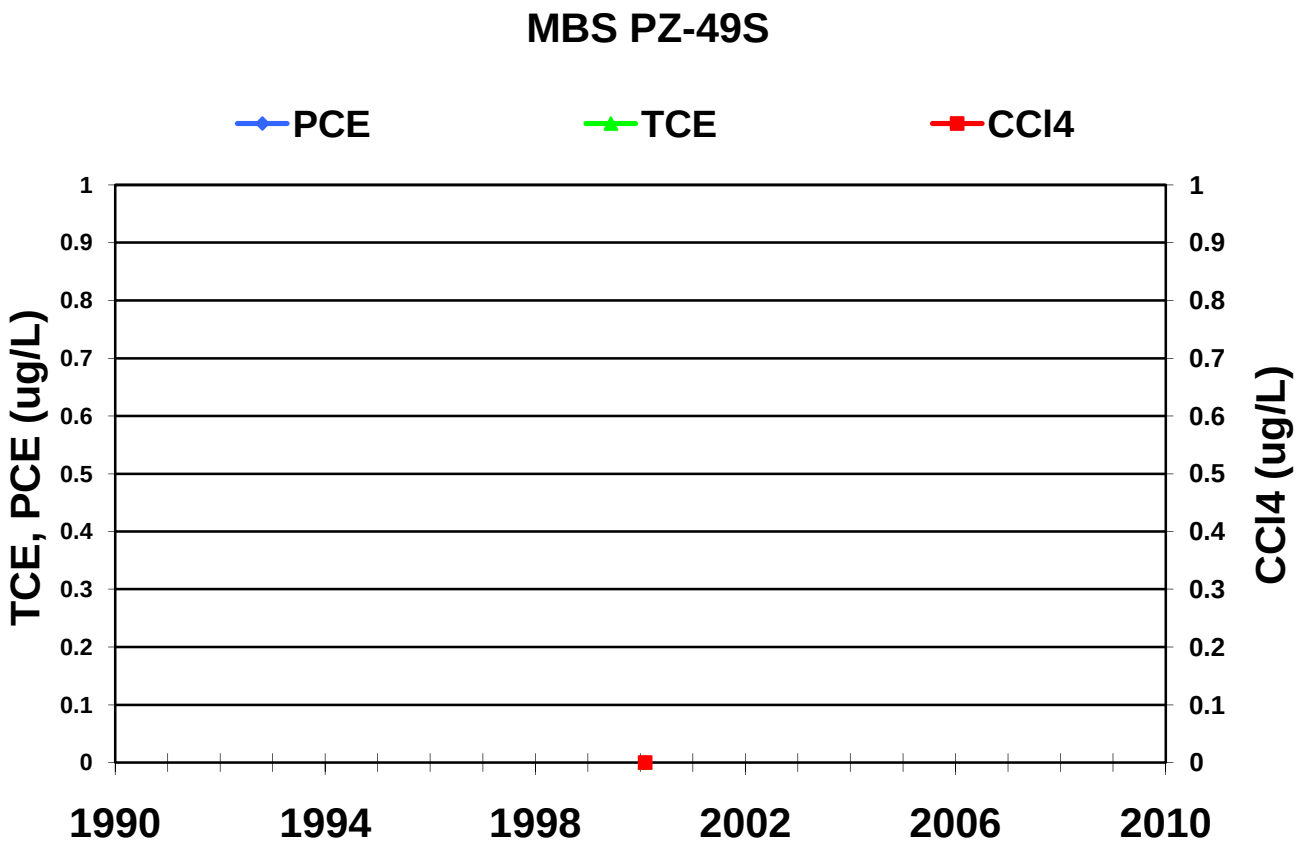

MBS PZ-48D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
20
40
60
80
100
120
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
1990
1994
1998
2002
2006
2010

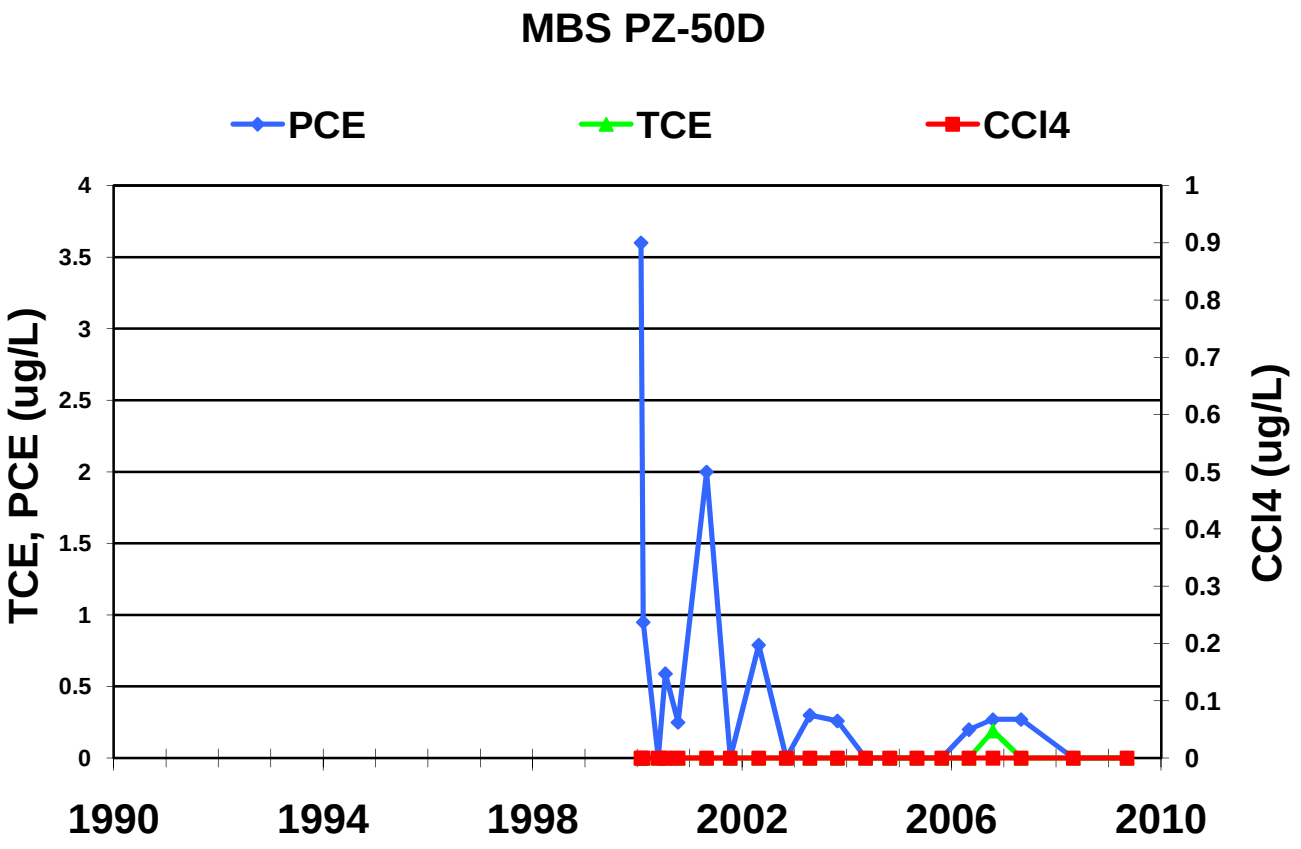
MBS PZ-48S

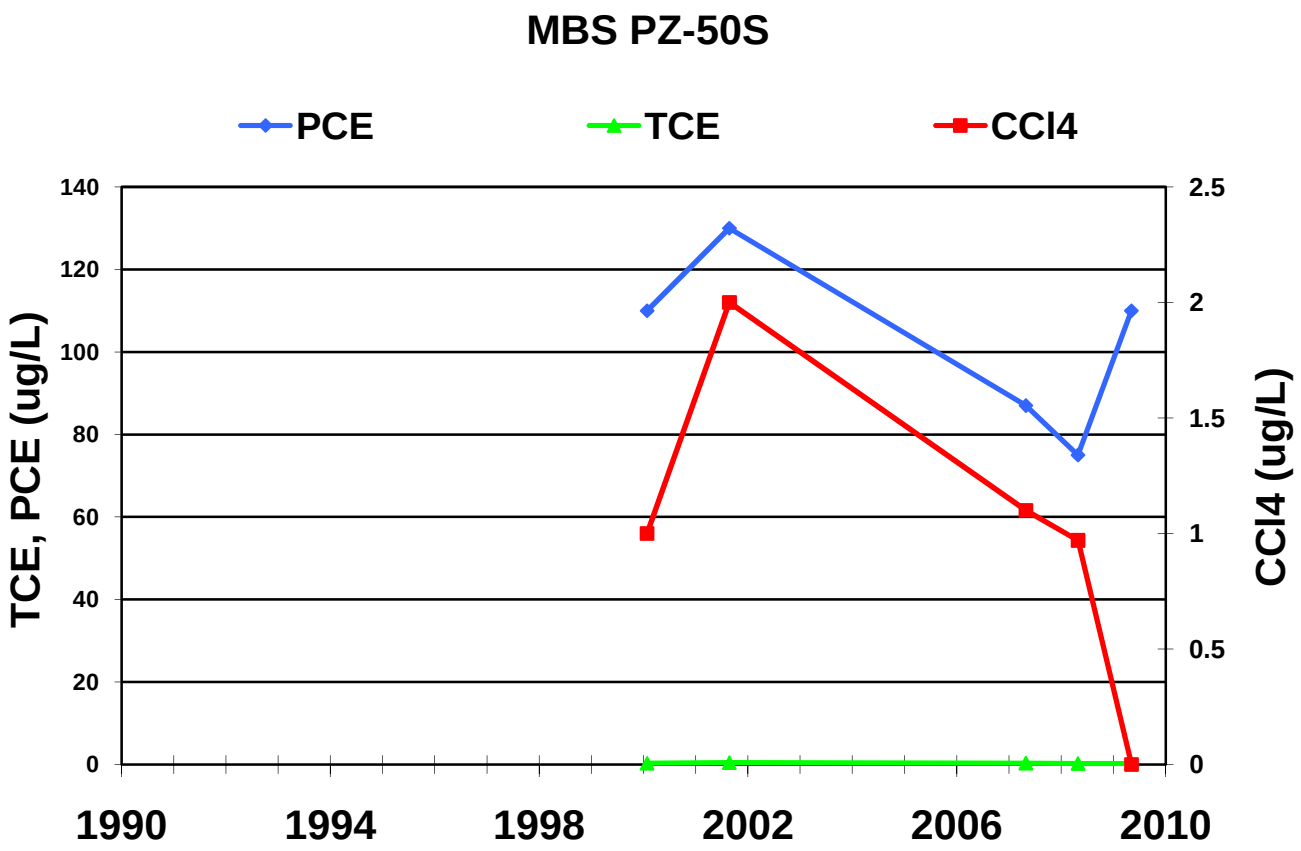


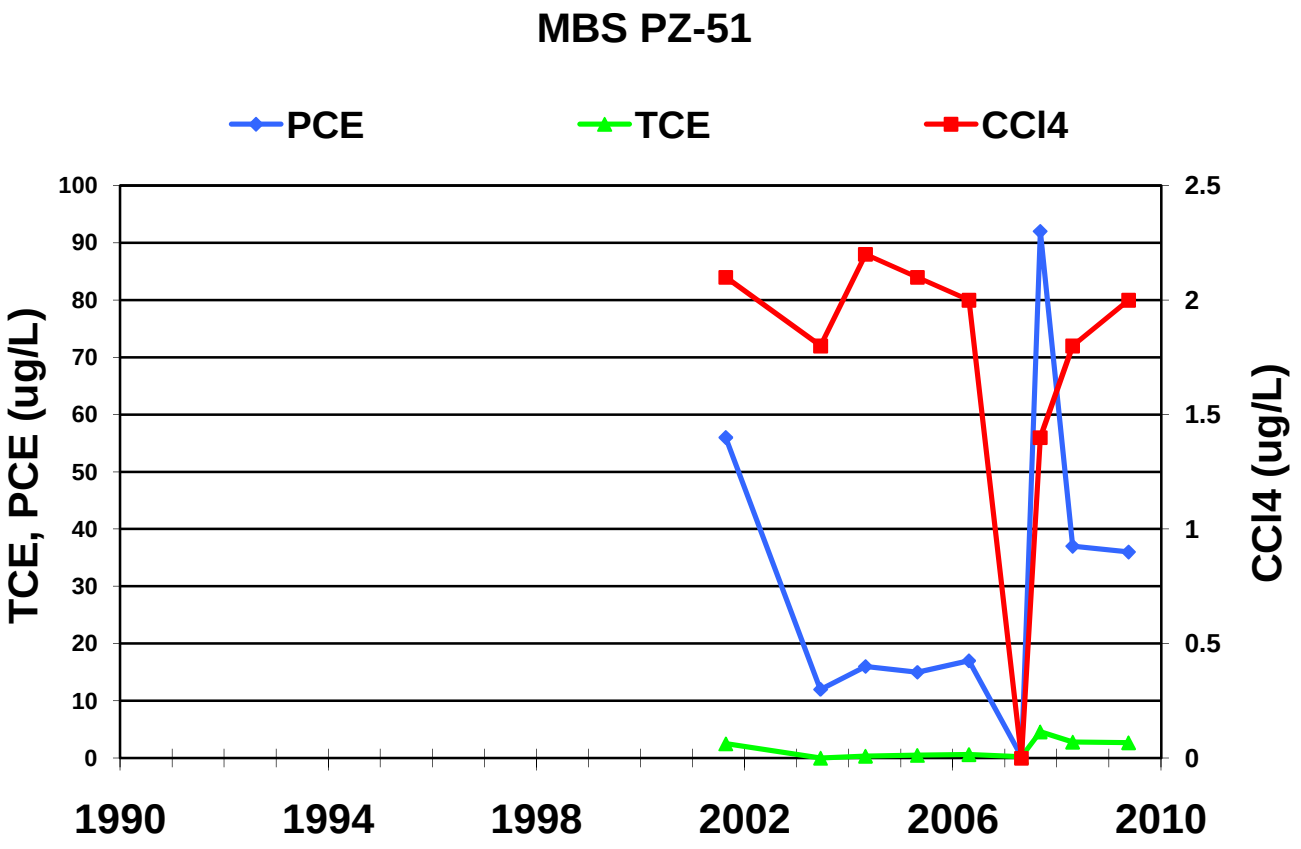
MBS PZ-49D

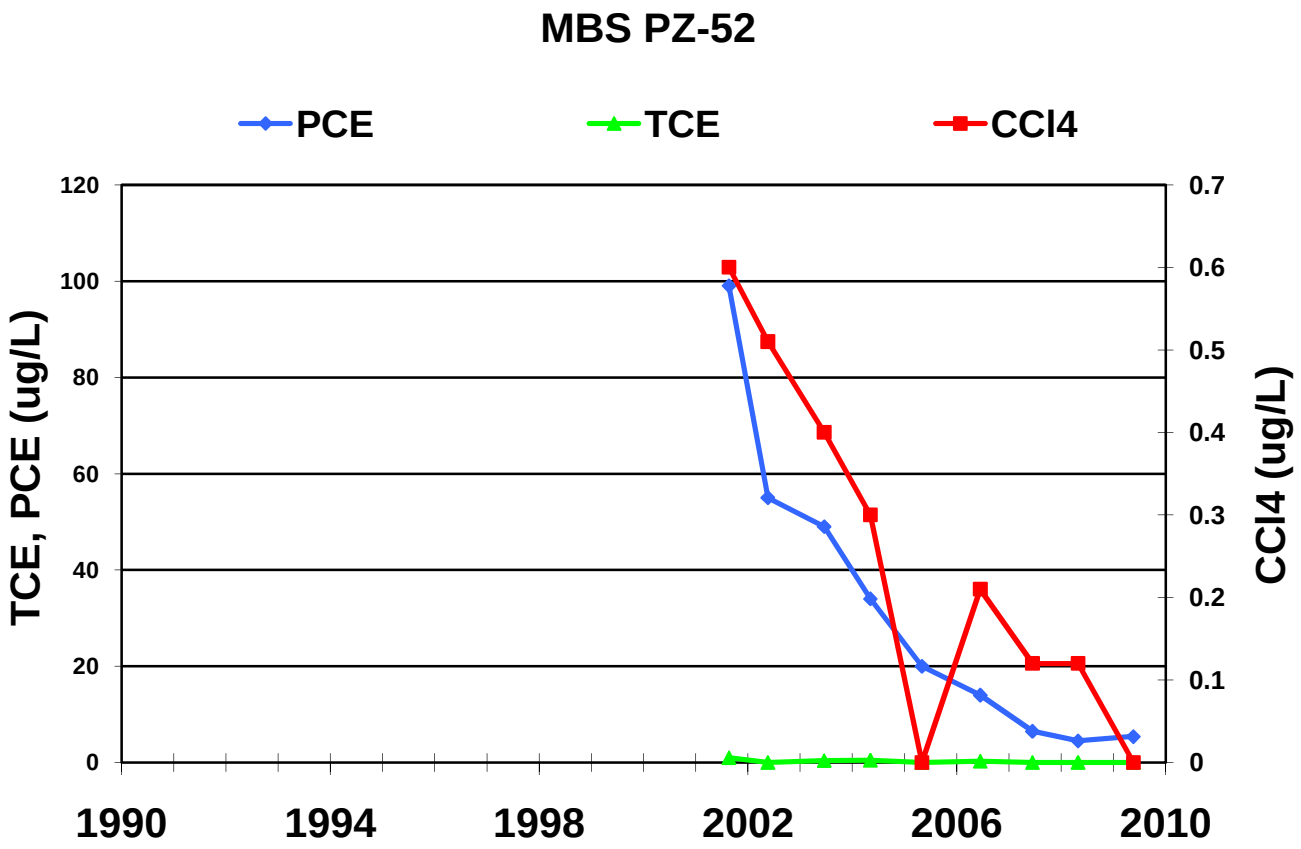


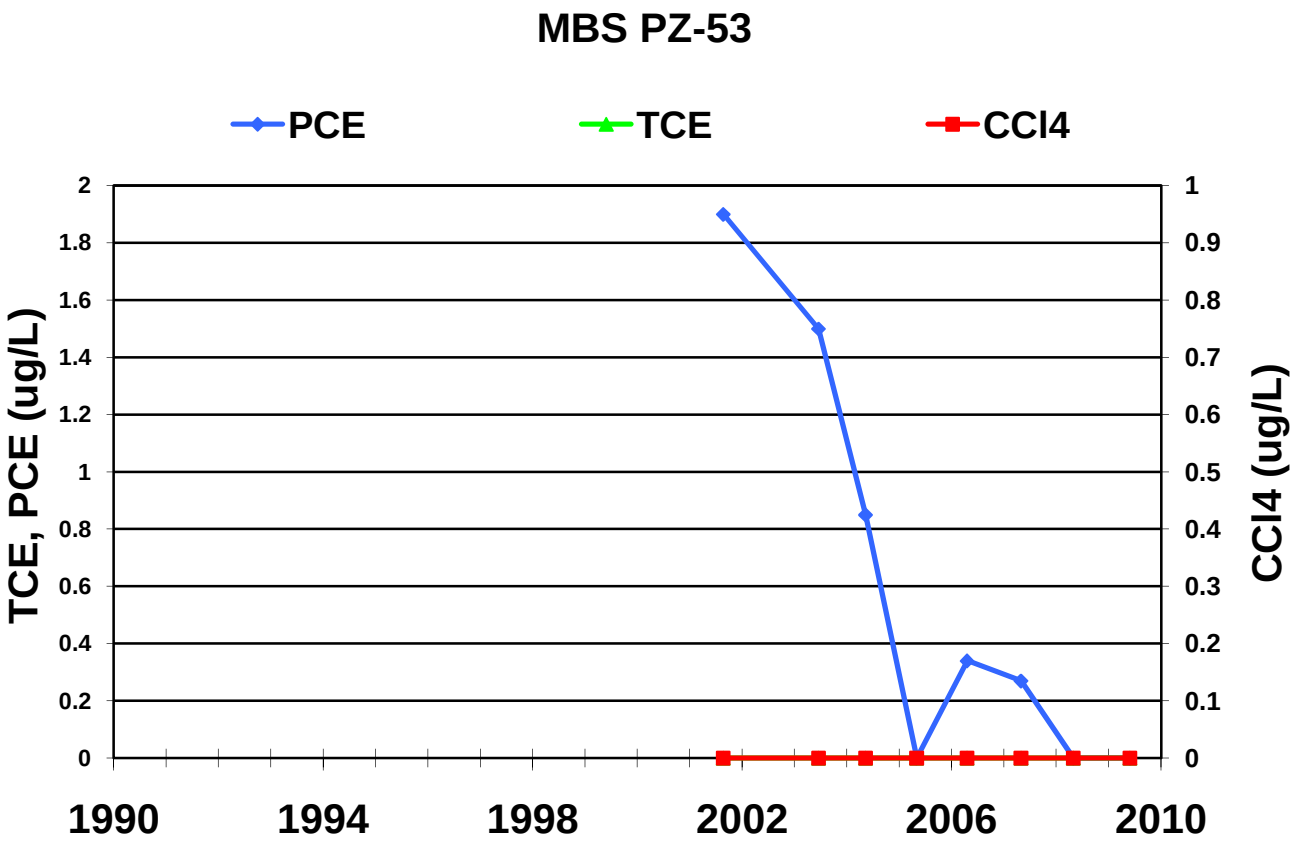

MBS PZ-49S
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

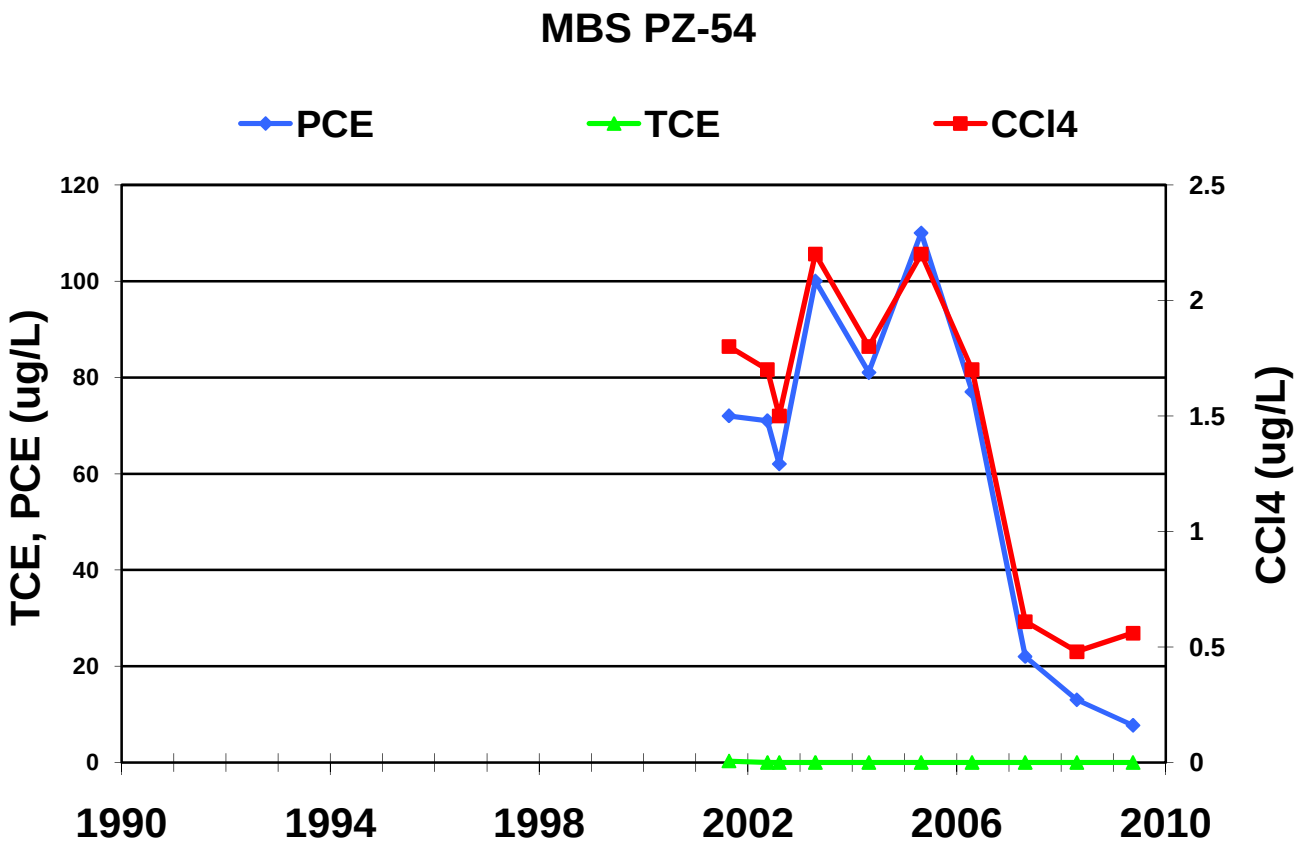

MBS PZ-50D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.5
1
1.5
2
2.5
3
3.5
4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

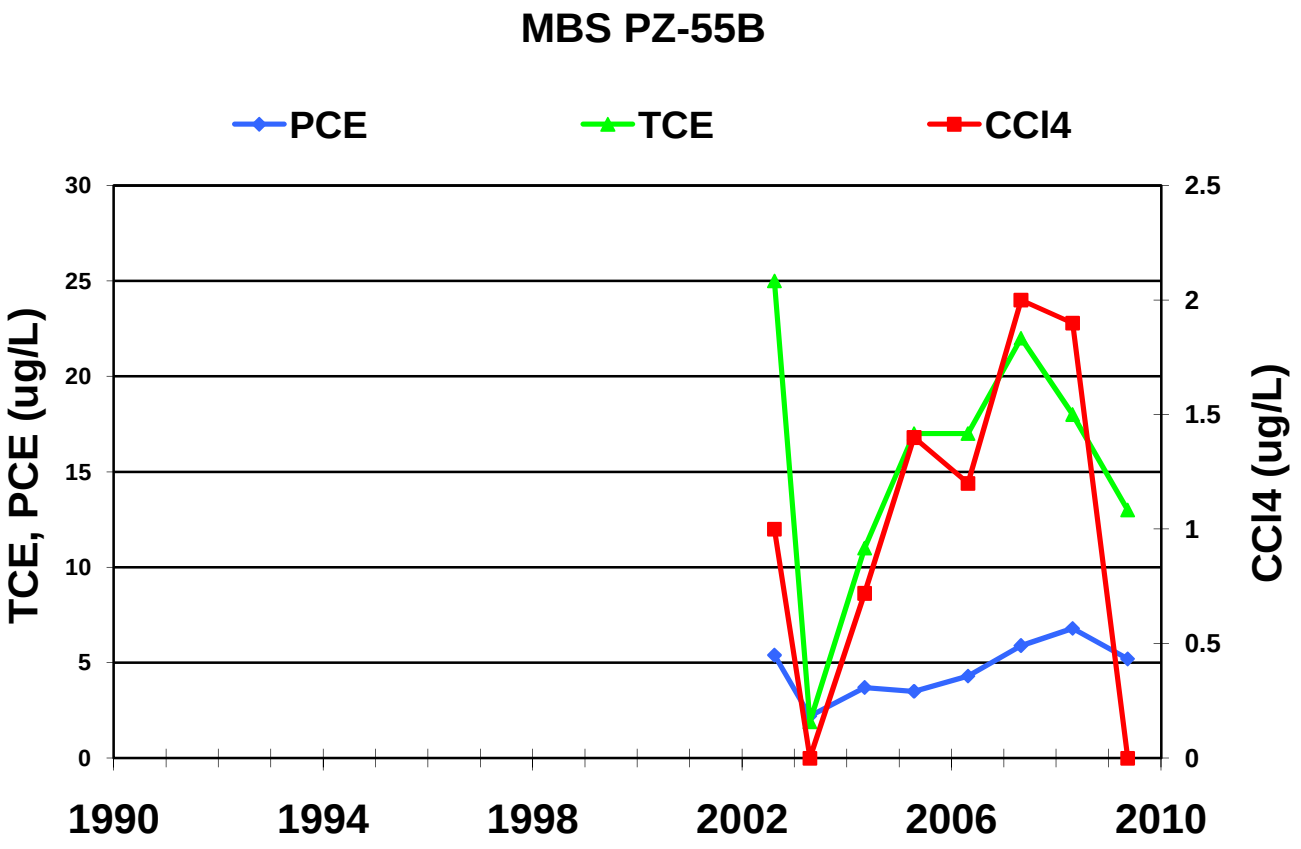

MBS PZ-50S
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
140
120
100
80
60
40
20
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

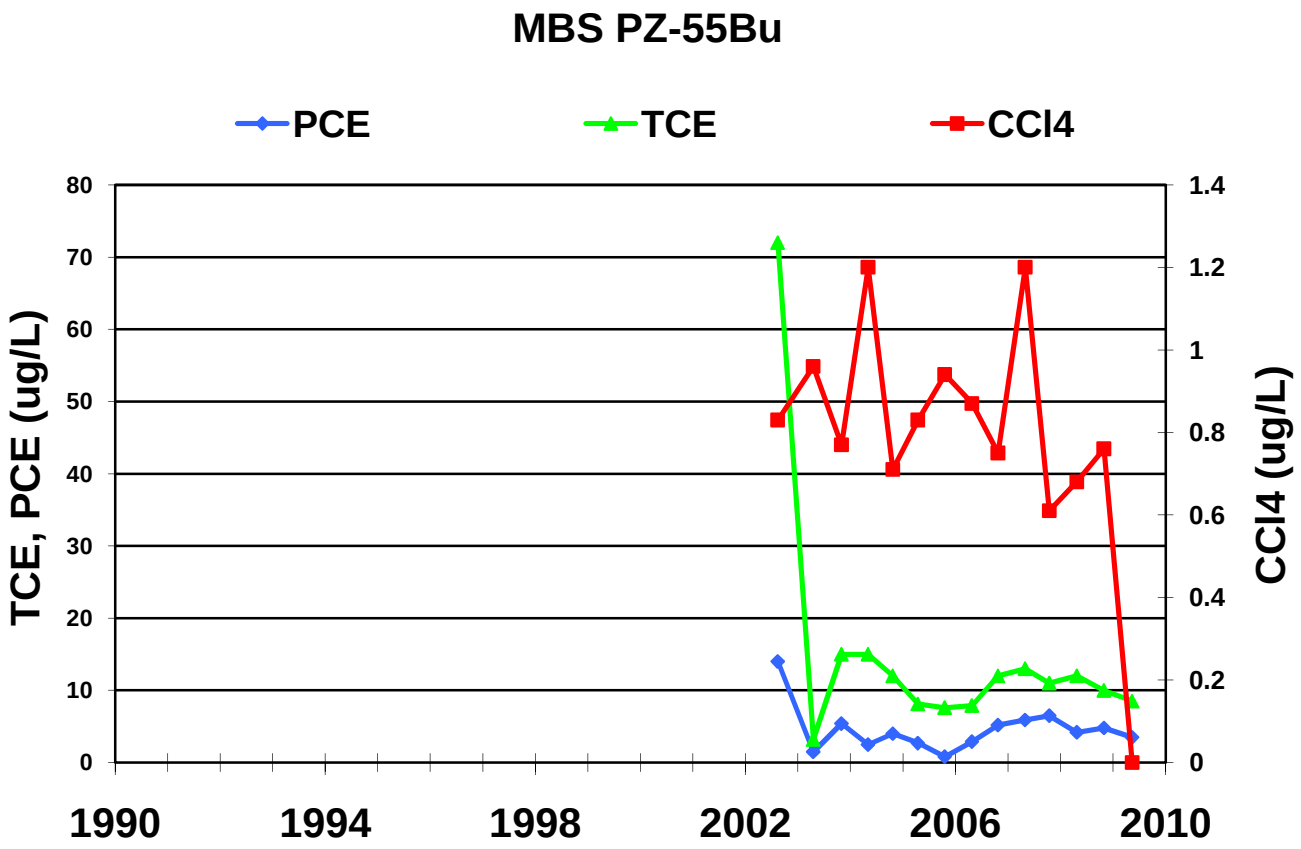

MBS PZ-51
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
100
90
80
70
60
50
40
30
20
10
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

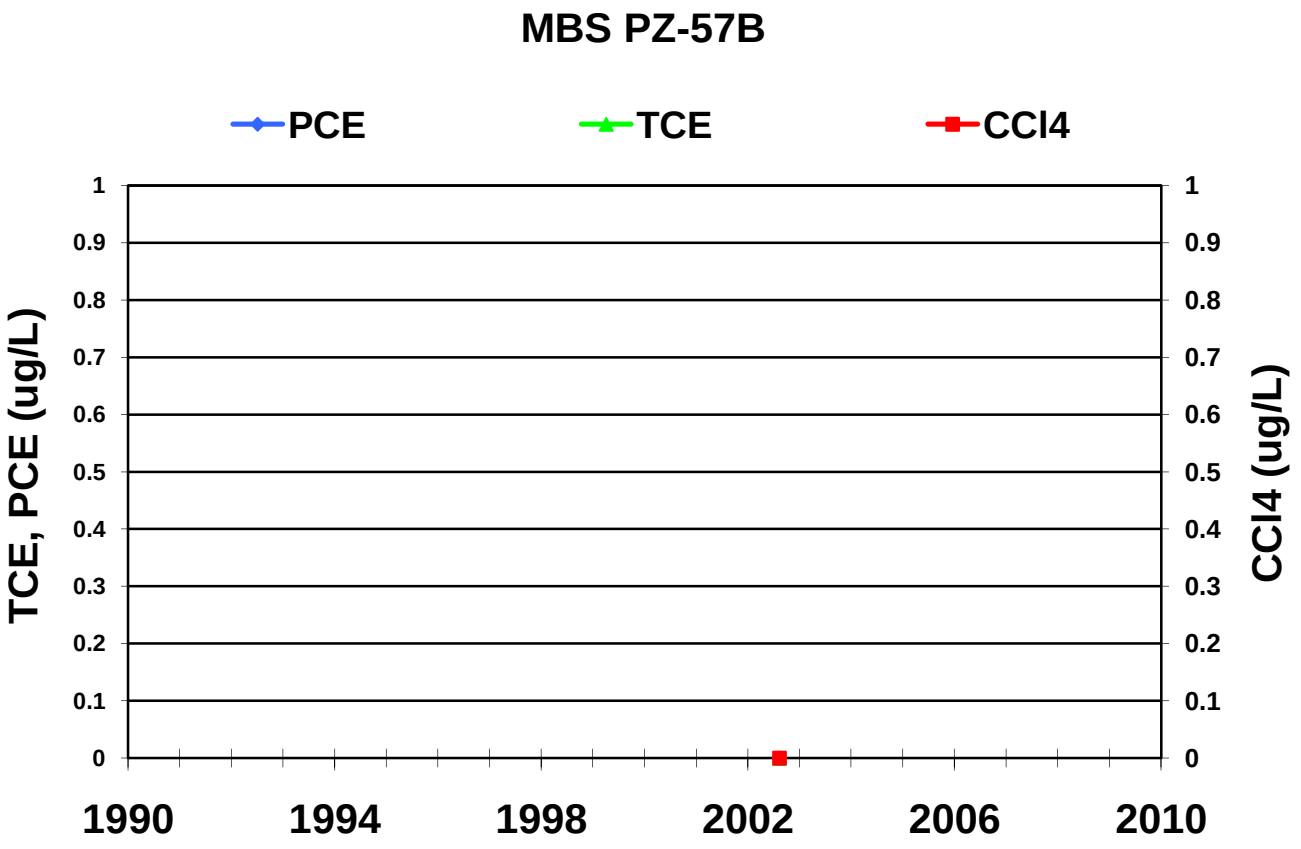

MBS PZ-52
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

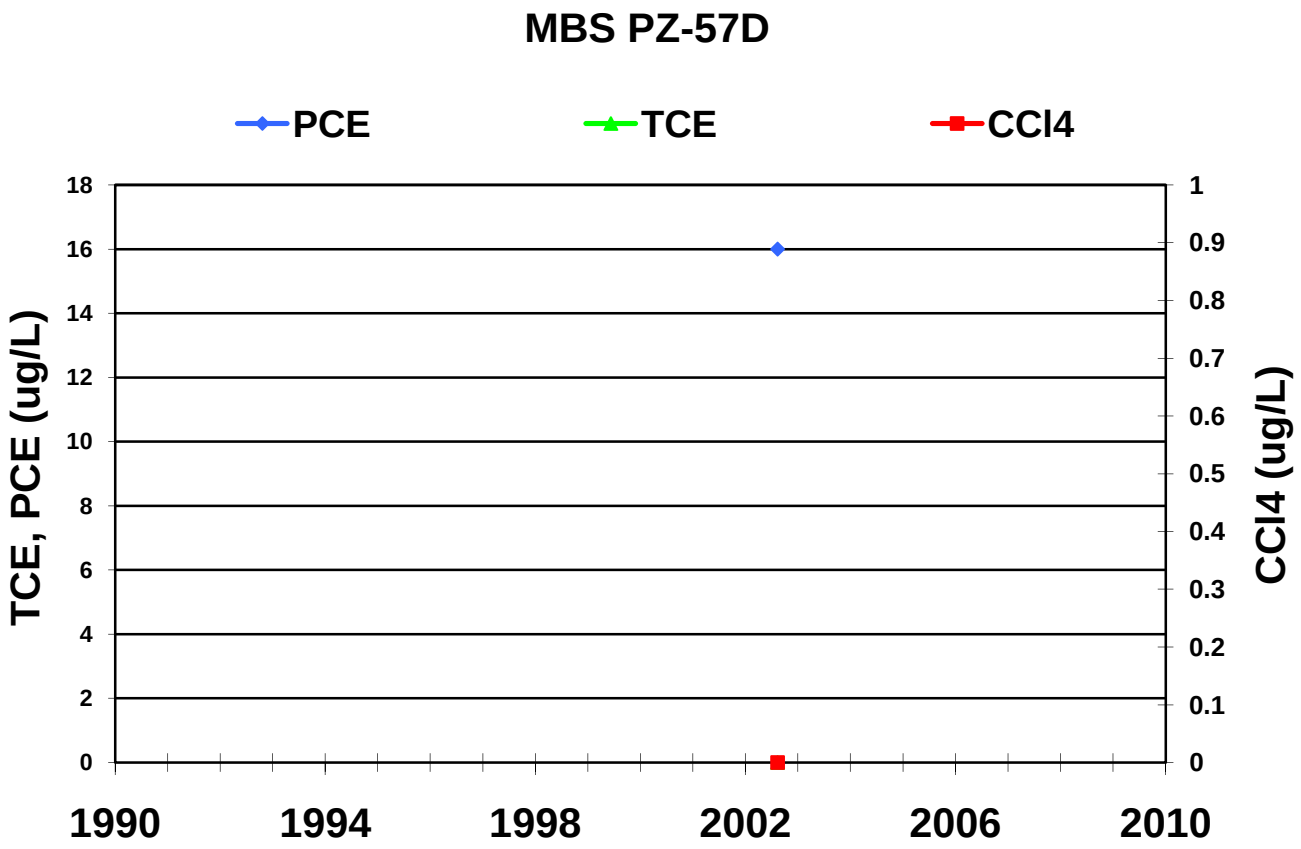

MBS PZ-53
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

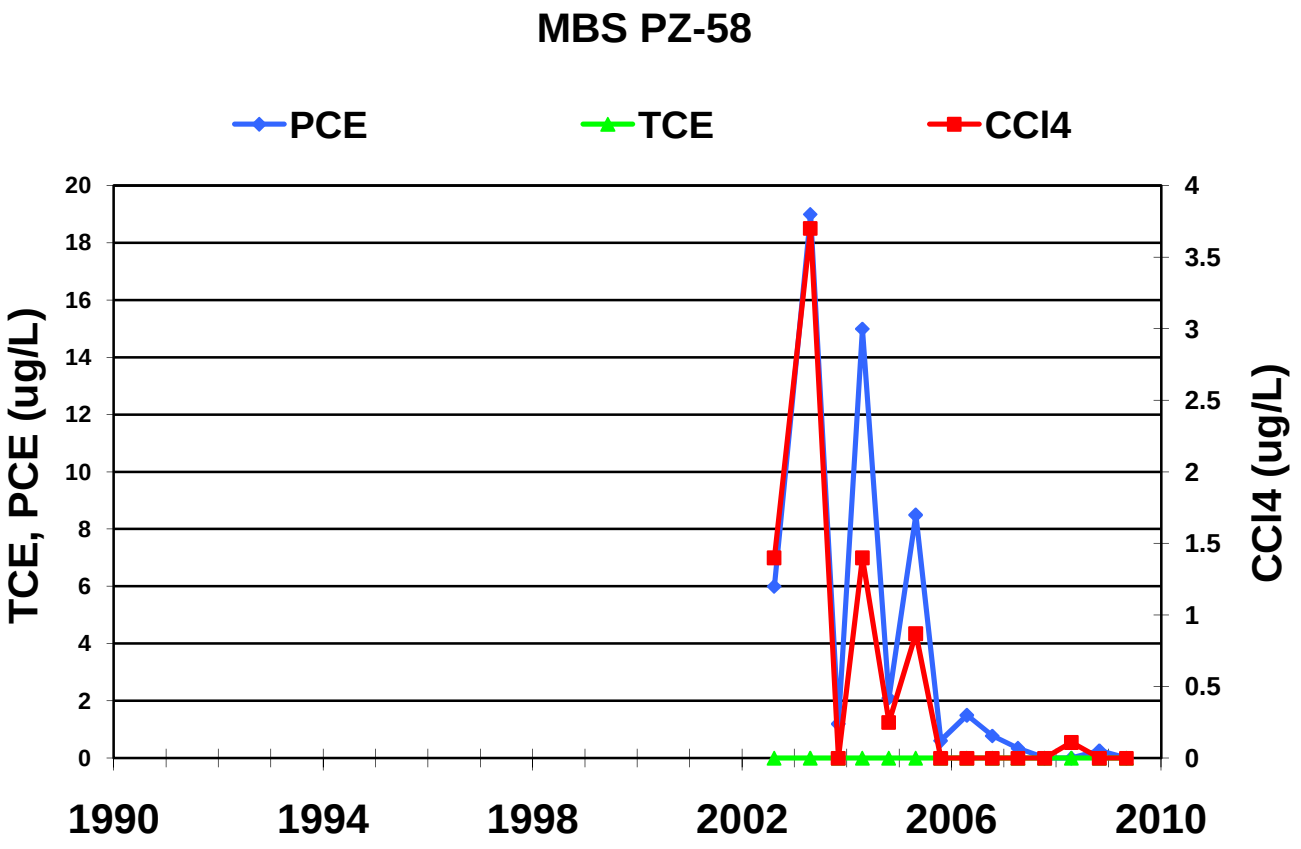

MBS PZ-54
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
120
100
80
60
40
20
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

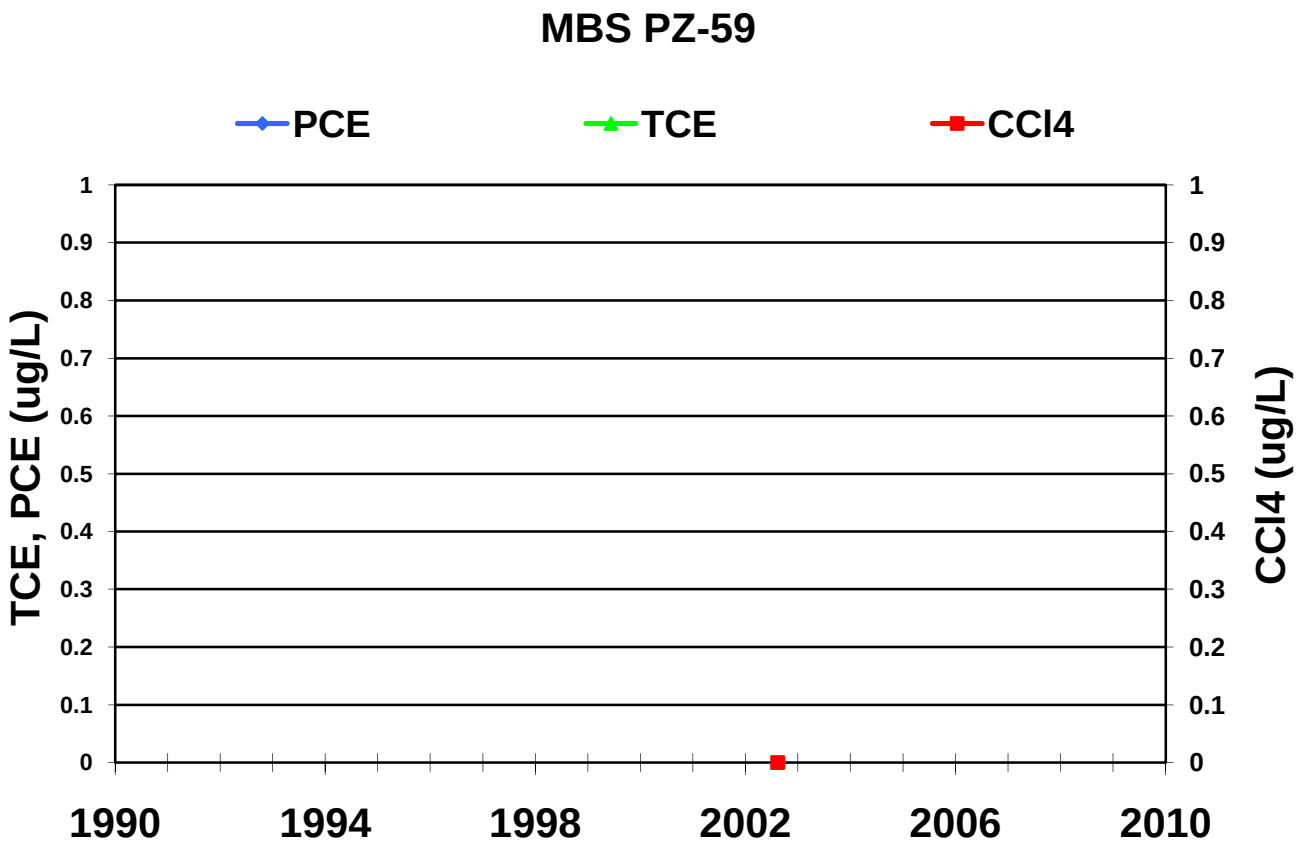

MBS PZ-55B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

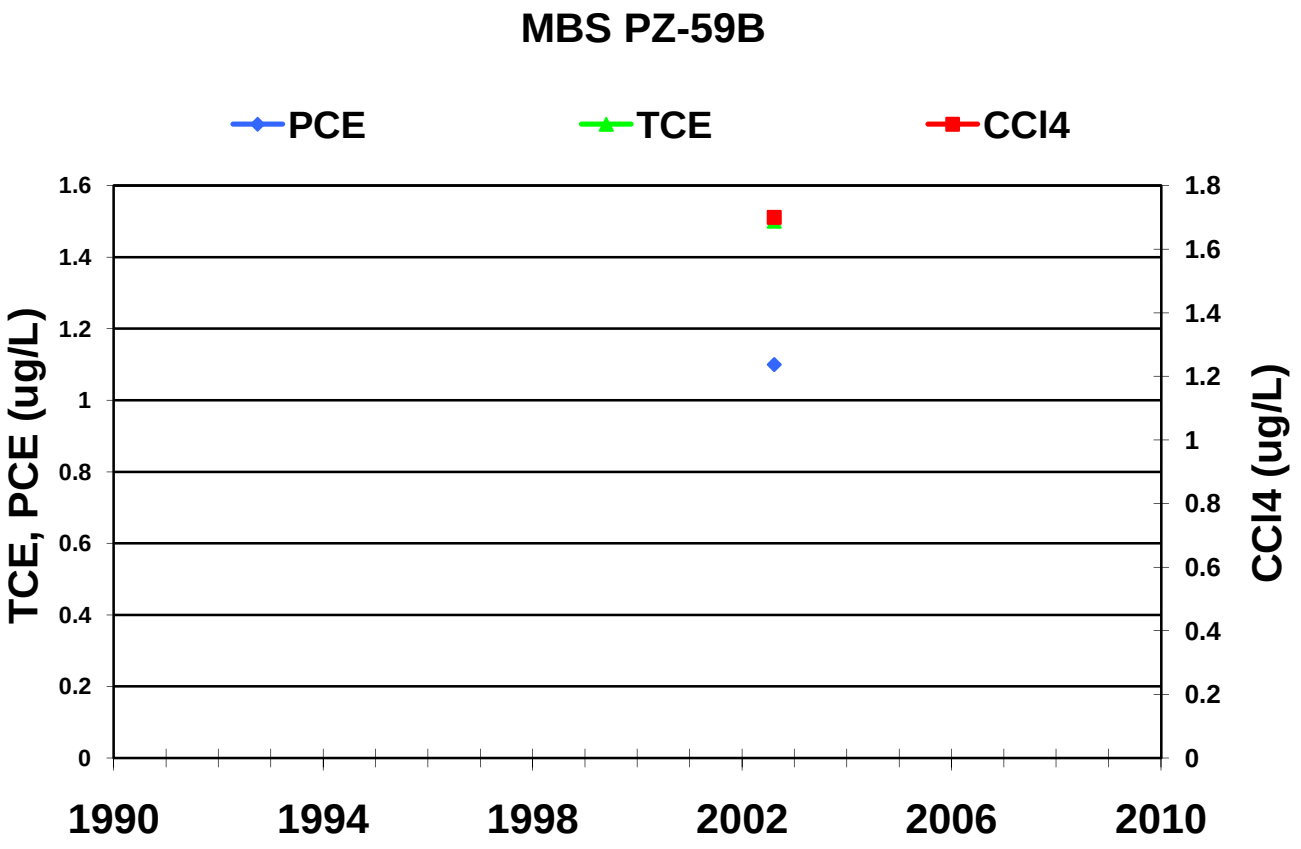

MBS PZ-55Bu
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1990
1994
1998
2002
2006
2010

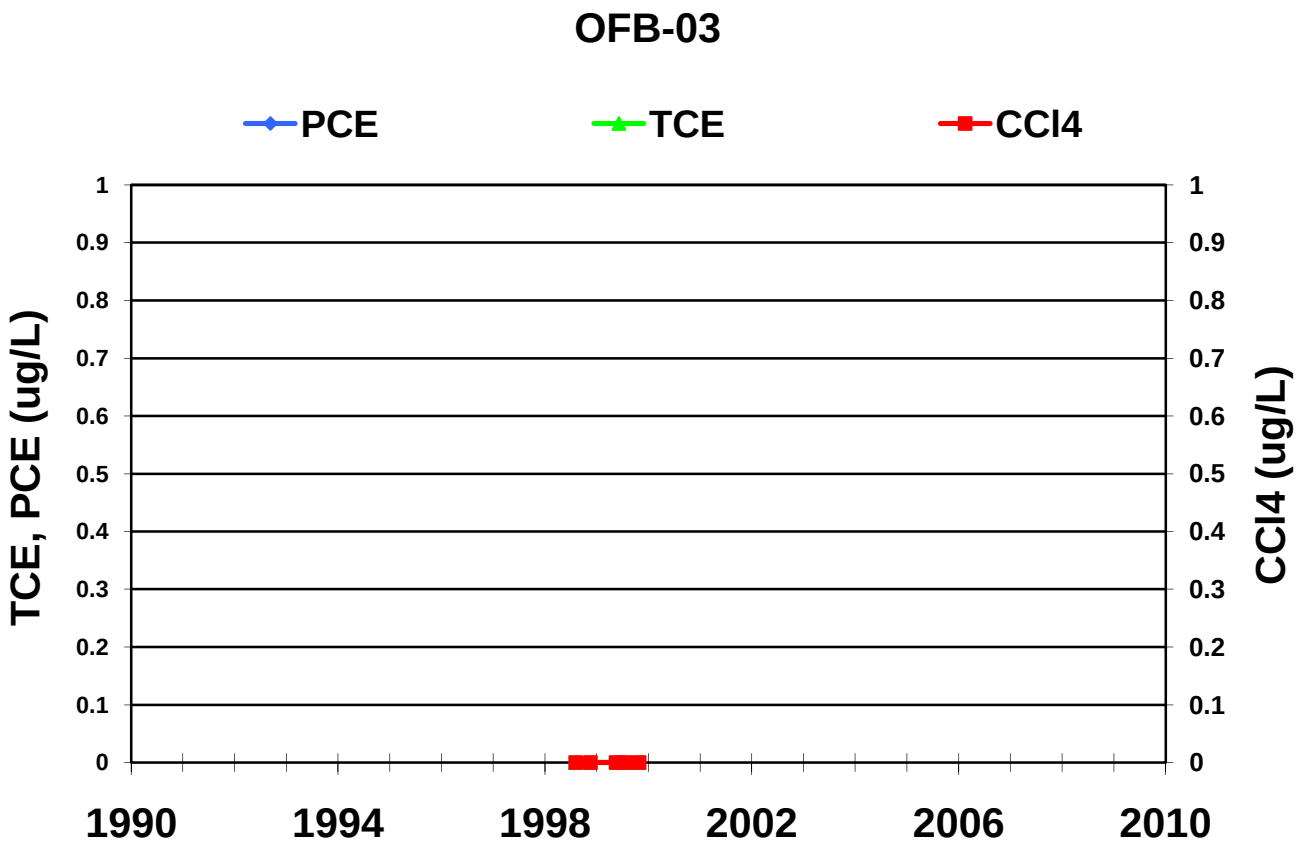

MBS PZ-57B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

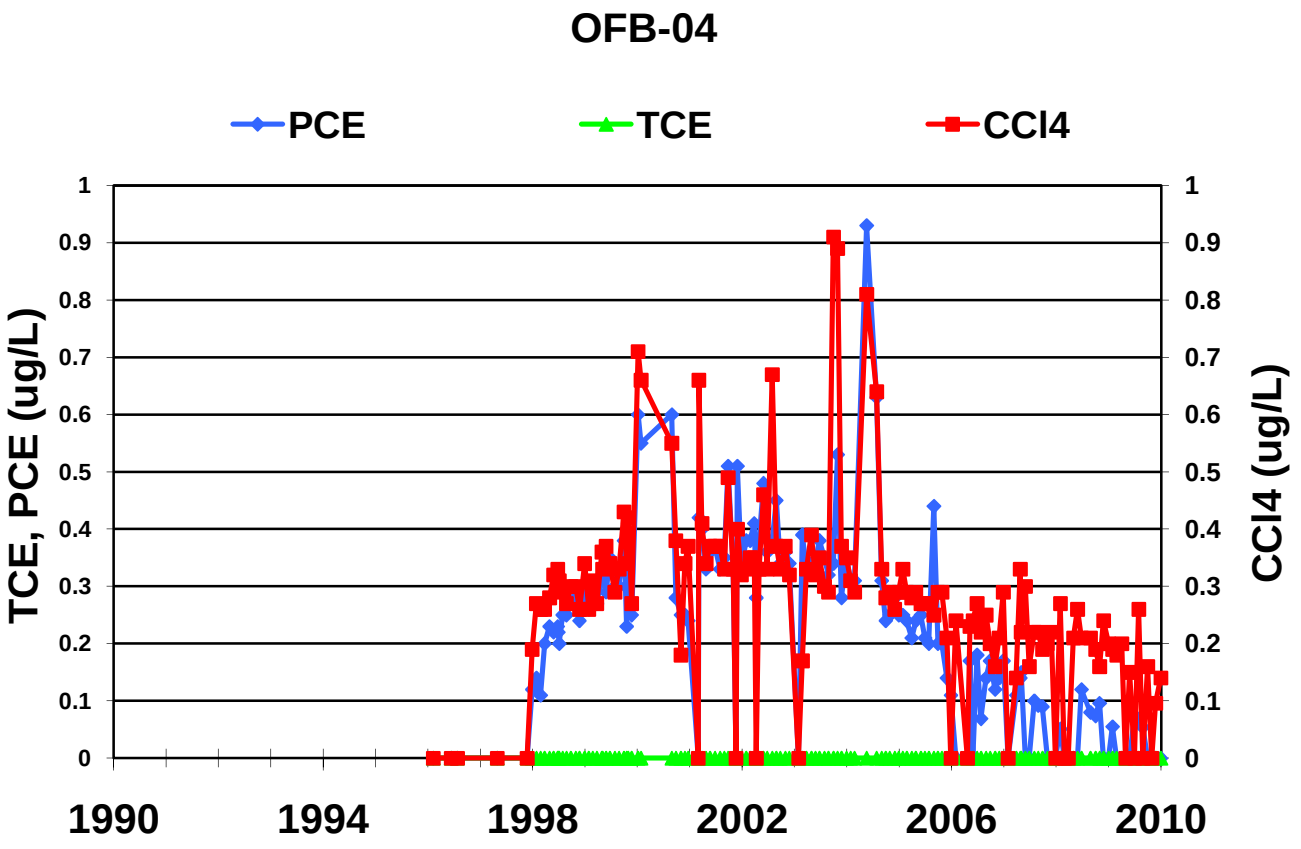

MBS PZ-57D
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
18
16
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

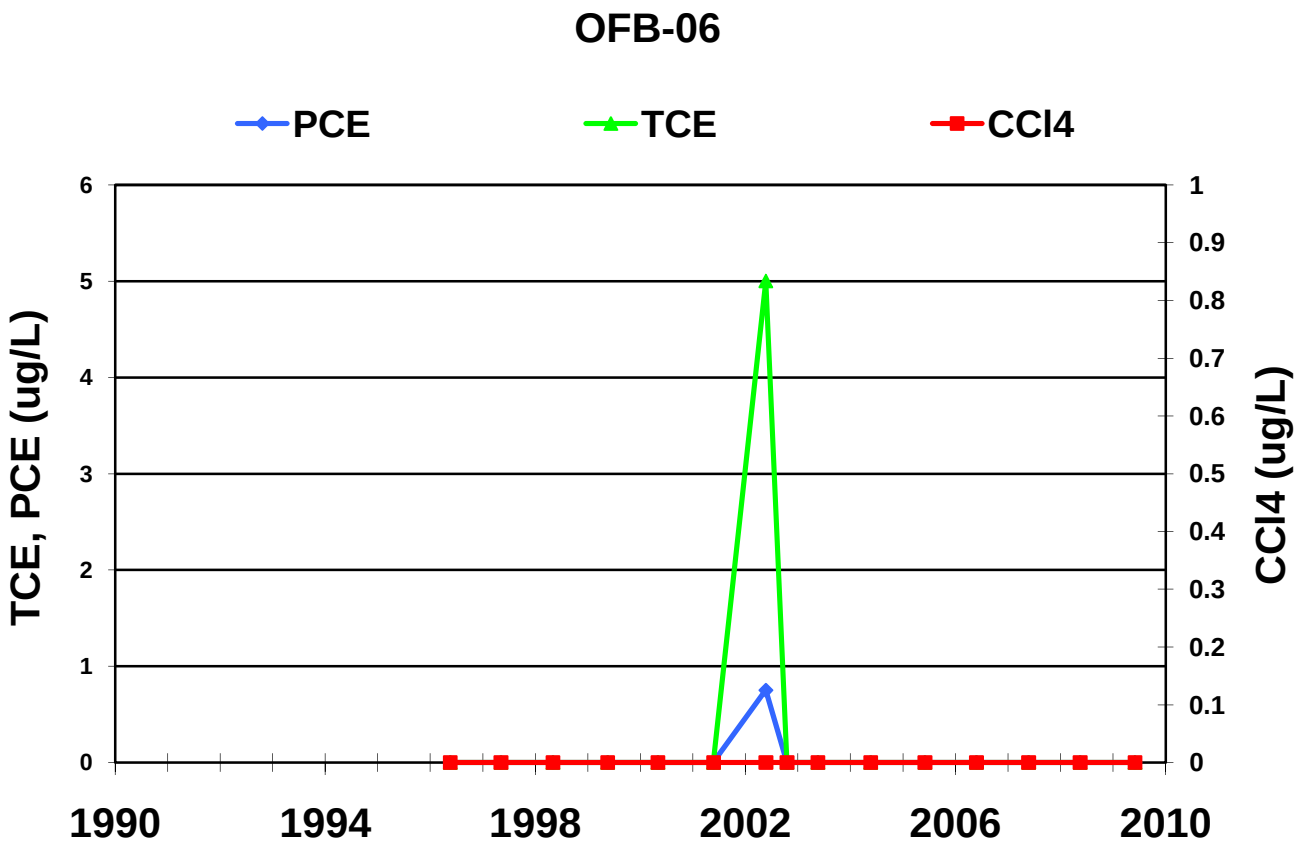

MBS PZ-58
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
20
18
16
14
12
10
8
6
4
2
0
4
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

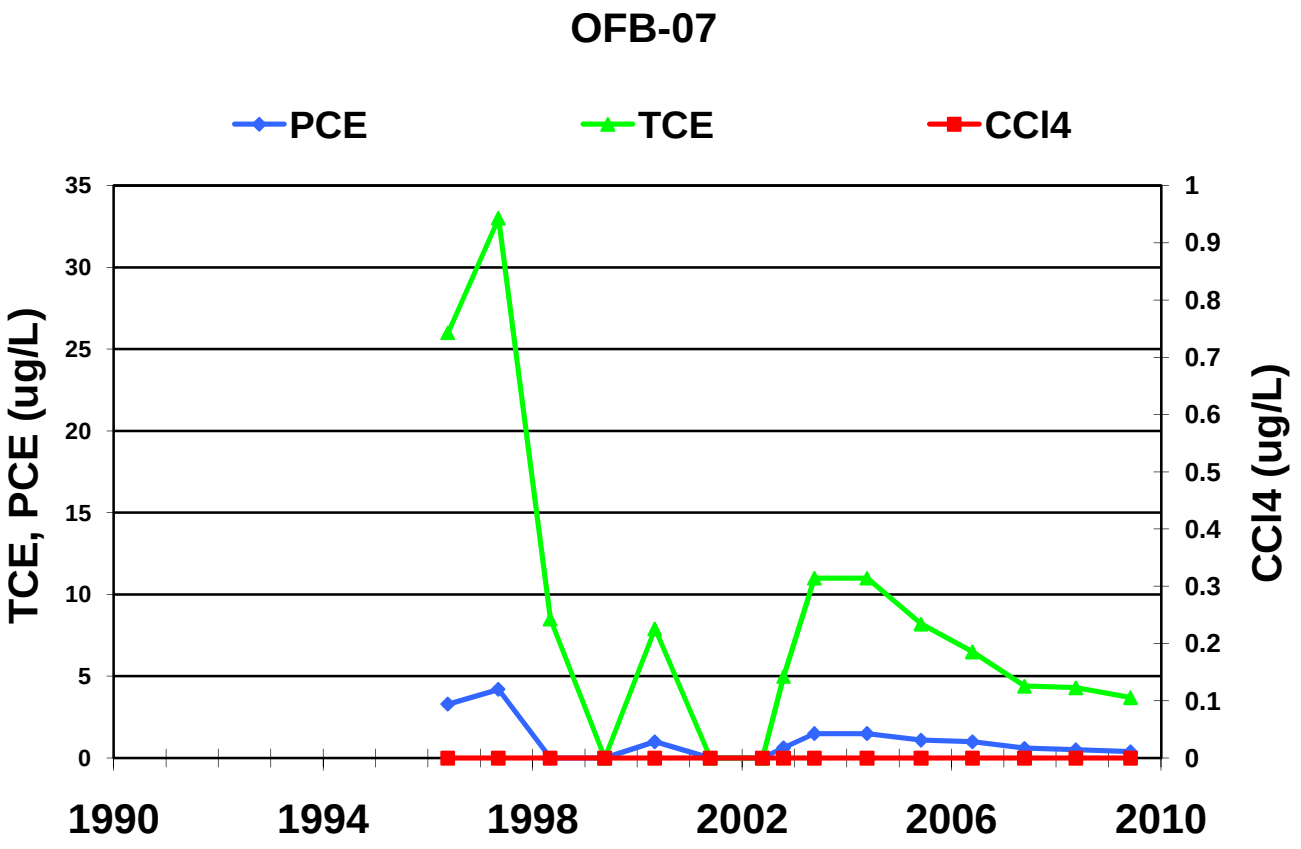

MBS PZ-59
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

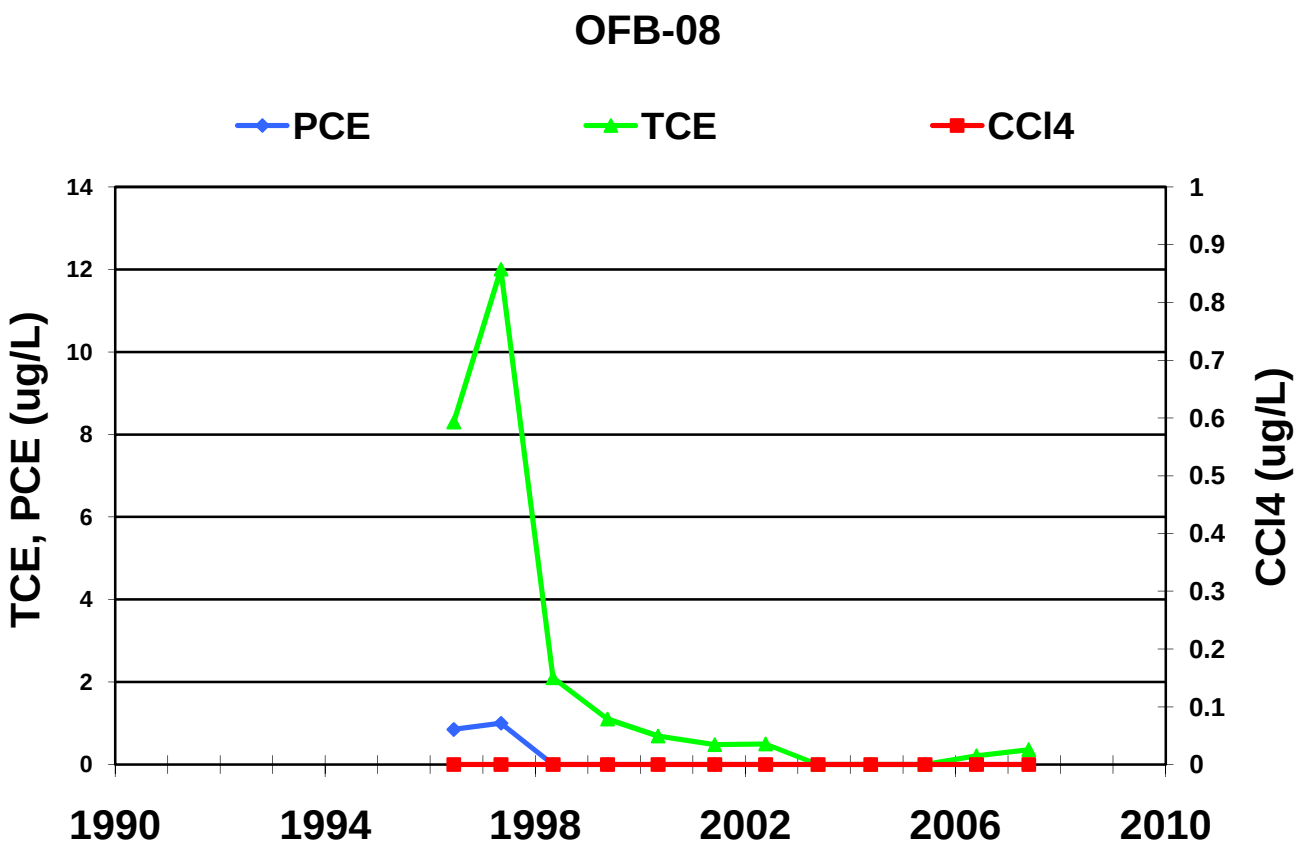

MBS PZ-59B
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1.8
1990
1994
1998
2002
2006
2010

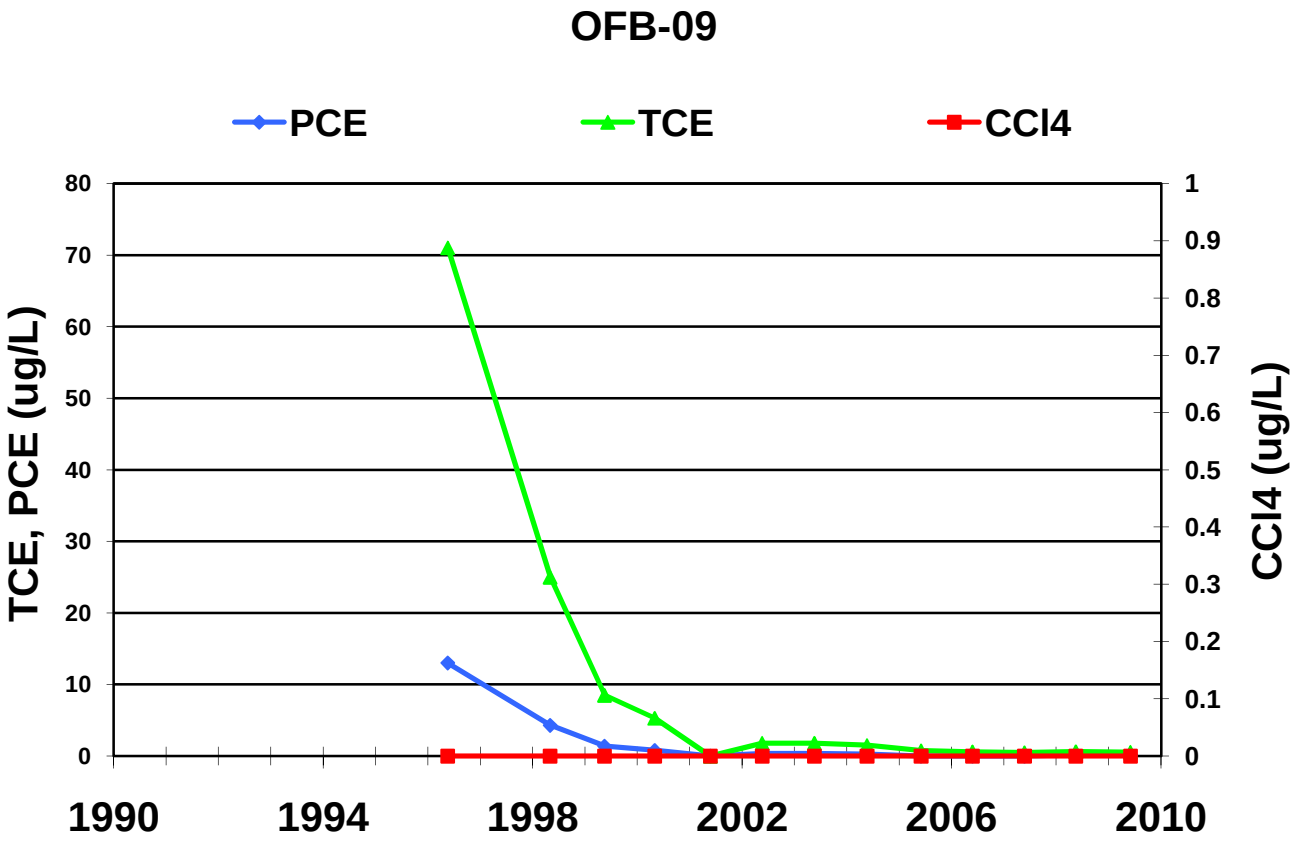

OFB-03
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

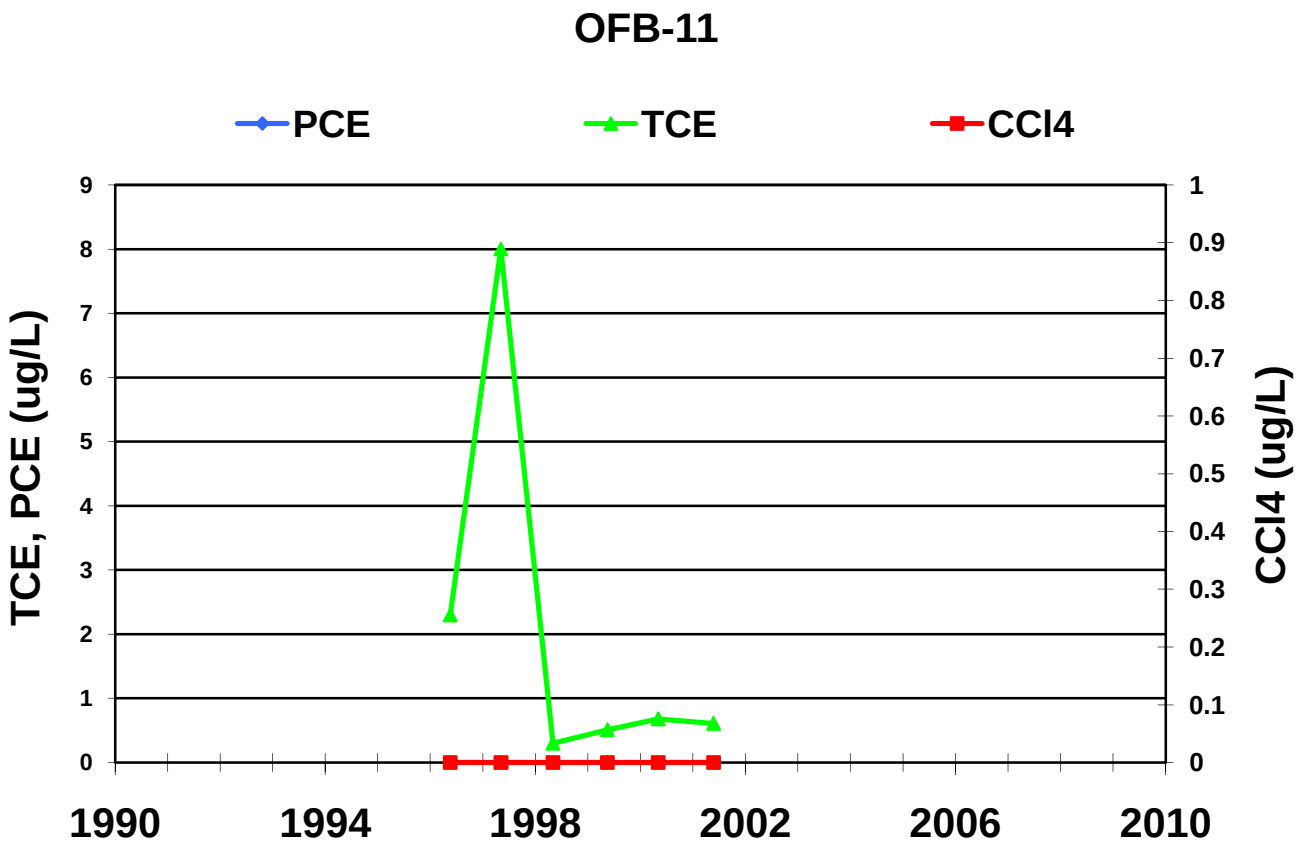

OFB-04
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

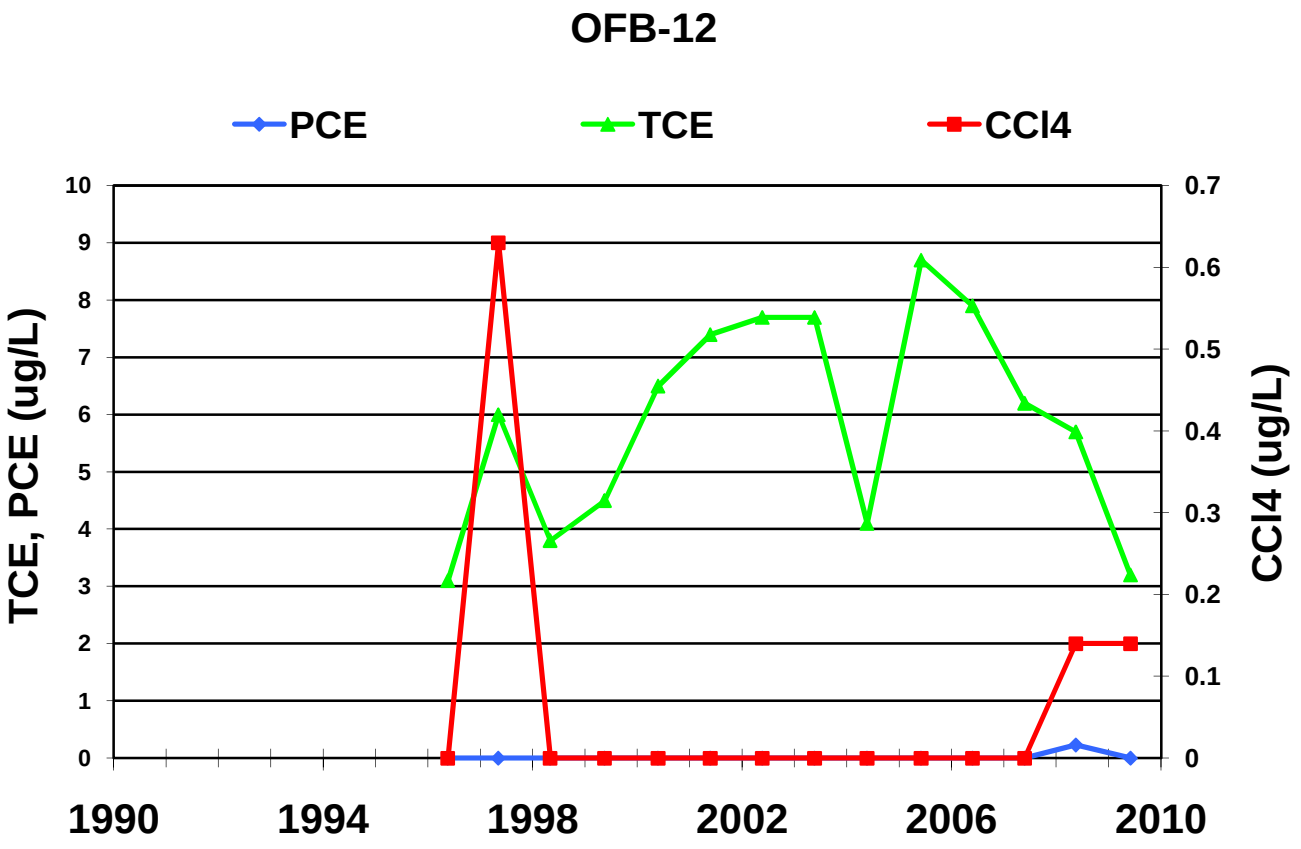

OFB-06
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

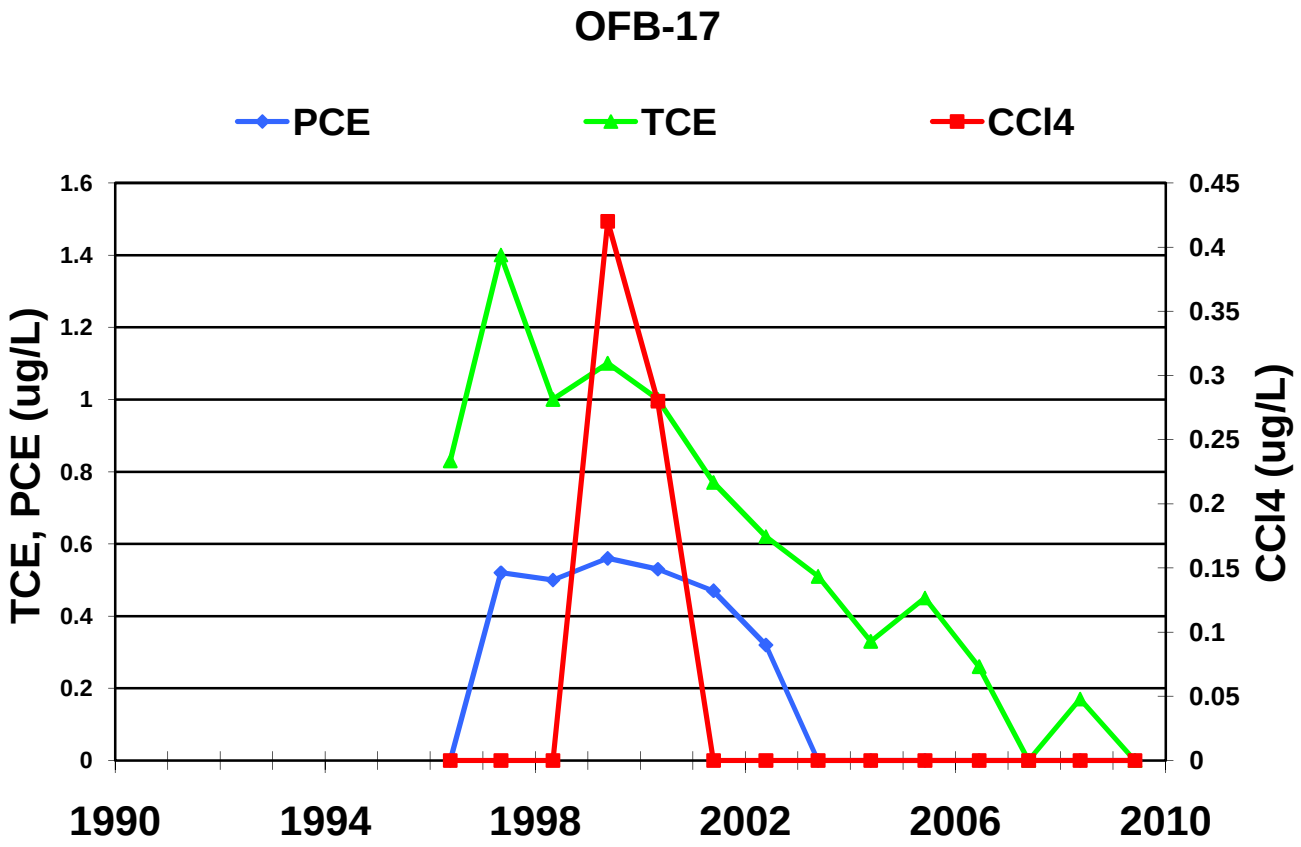

OFB-07
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
5
10
15
20
25
30
35
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

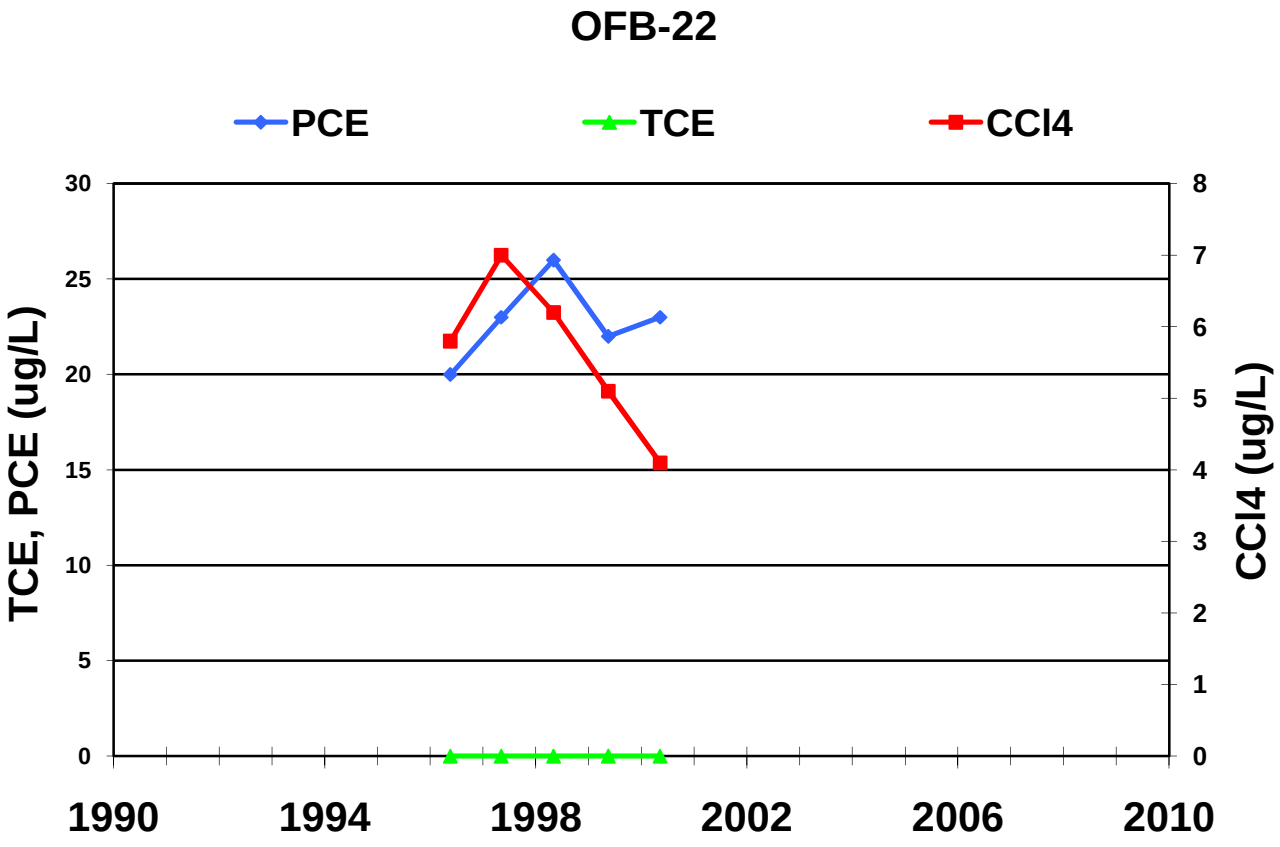

OFB-08
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
14
12
10
8
6
4
2
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

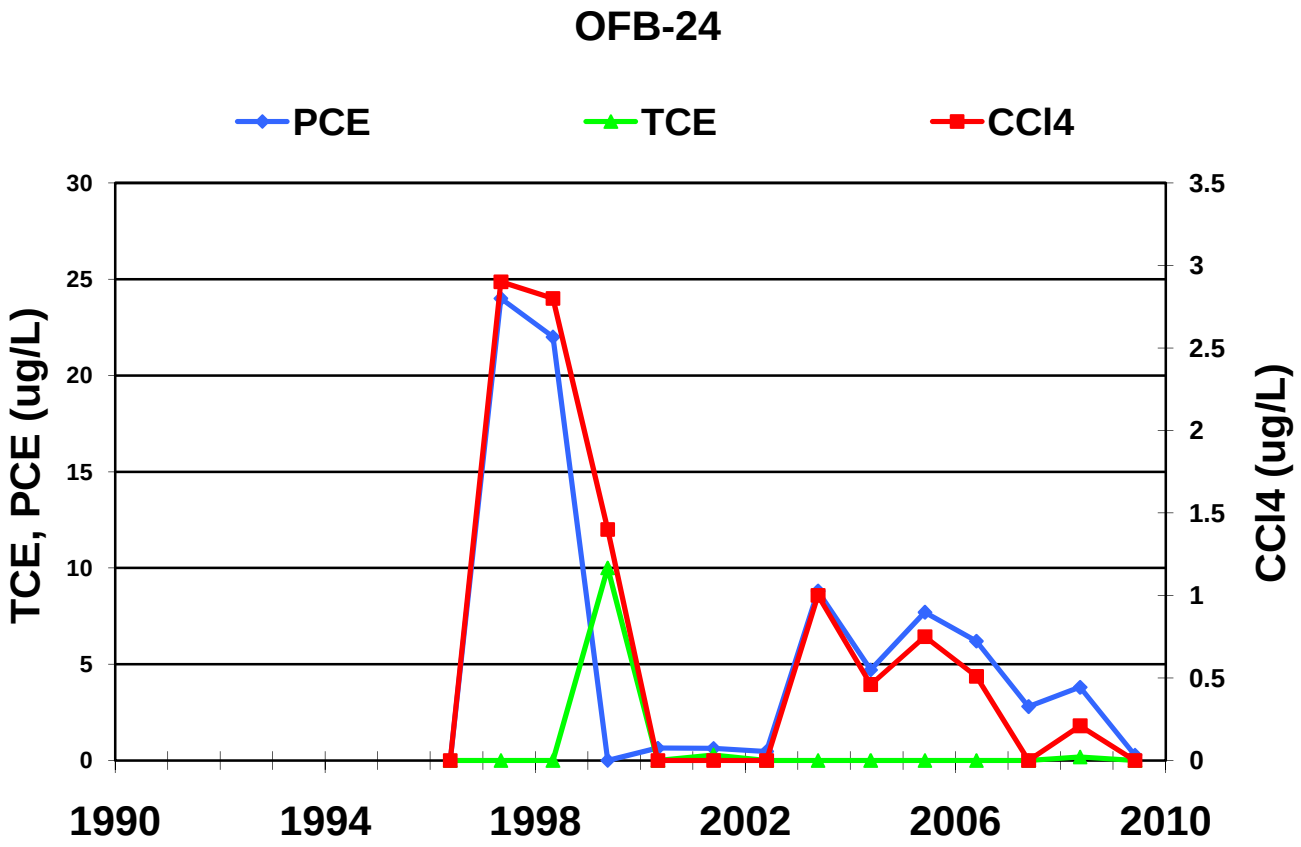

OFB-09
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

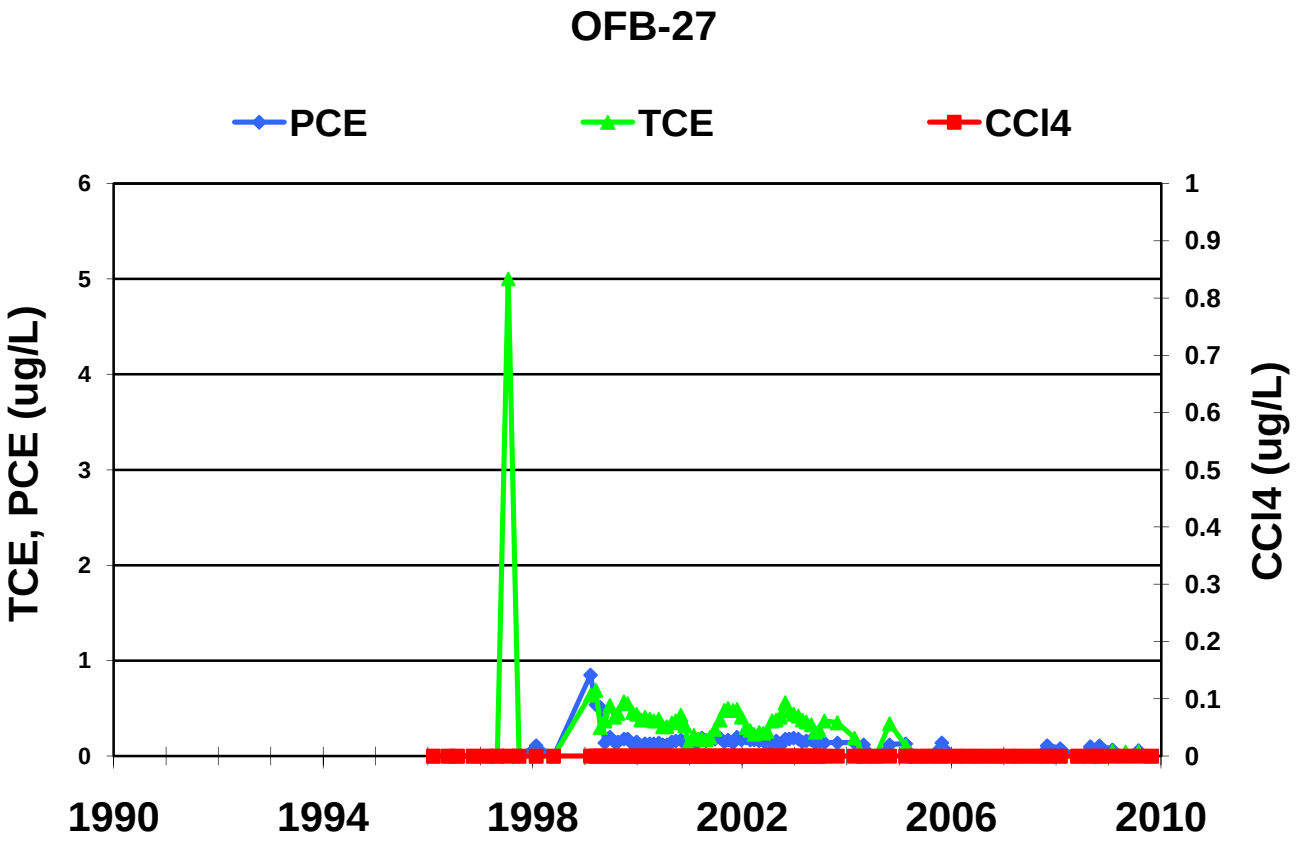

OFB-11
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010

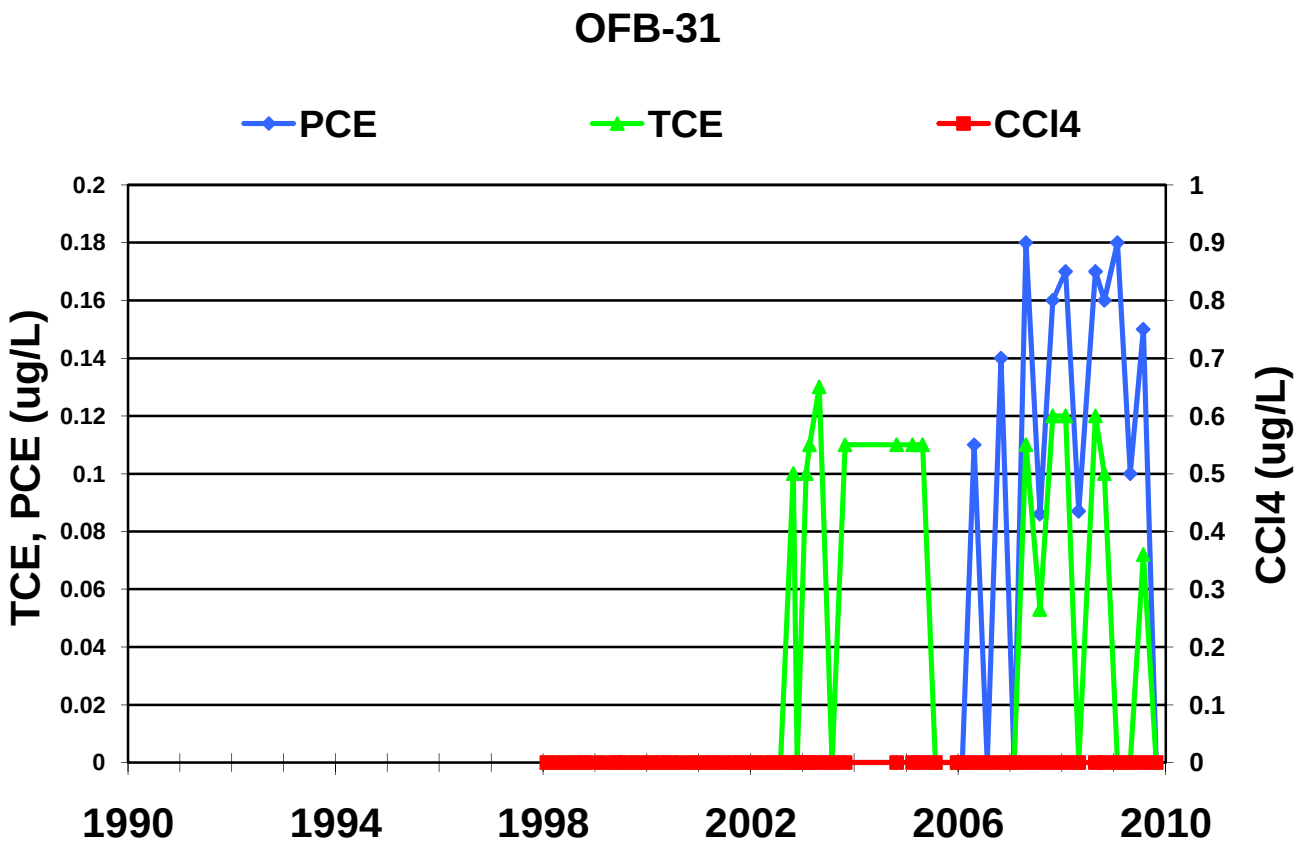

OFB-12
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
1
2
3
4
5
6
7
8
9
10
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1990
1994
1998
2002
2006
2010

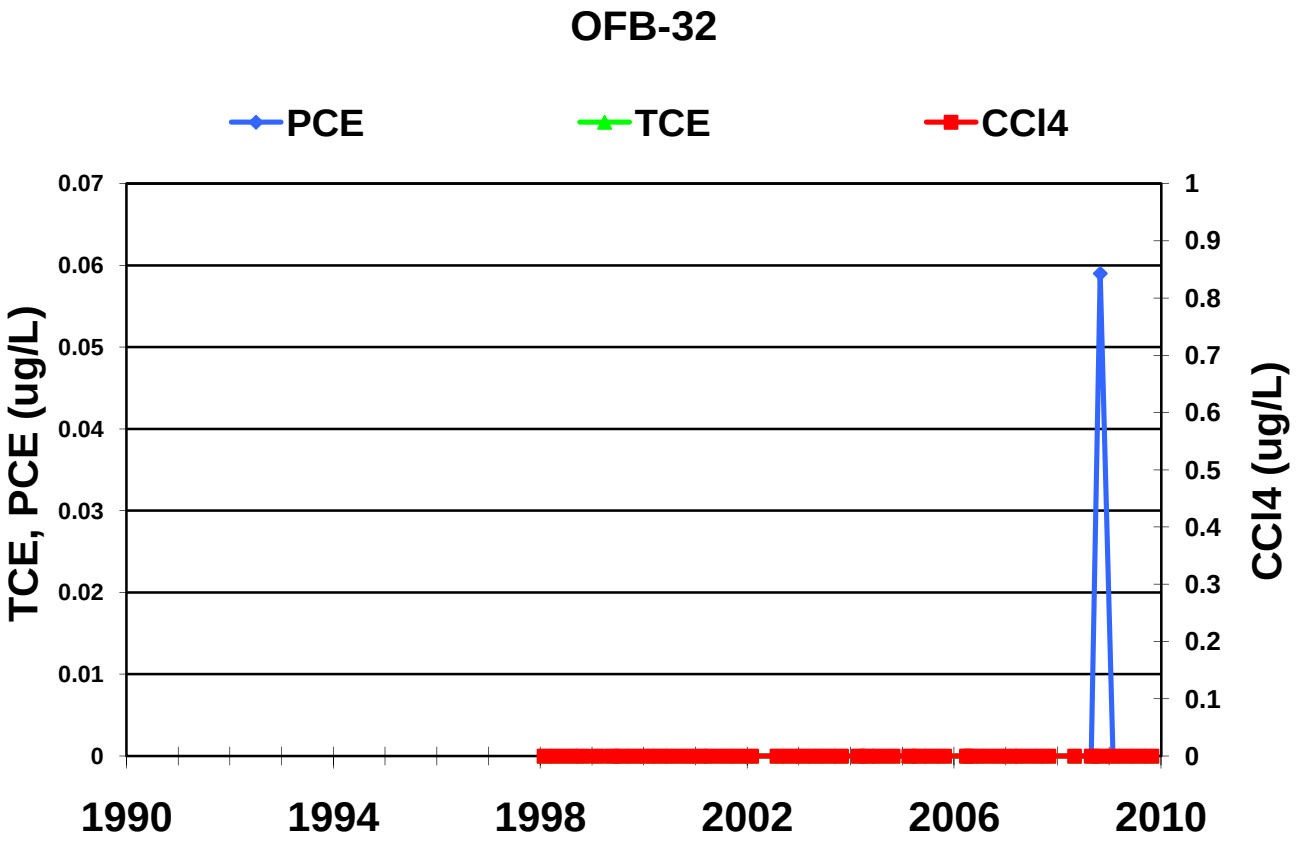

OFB-17
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1990
1994
1998
2002
2006
2010

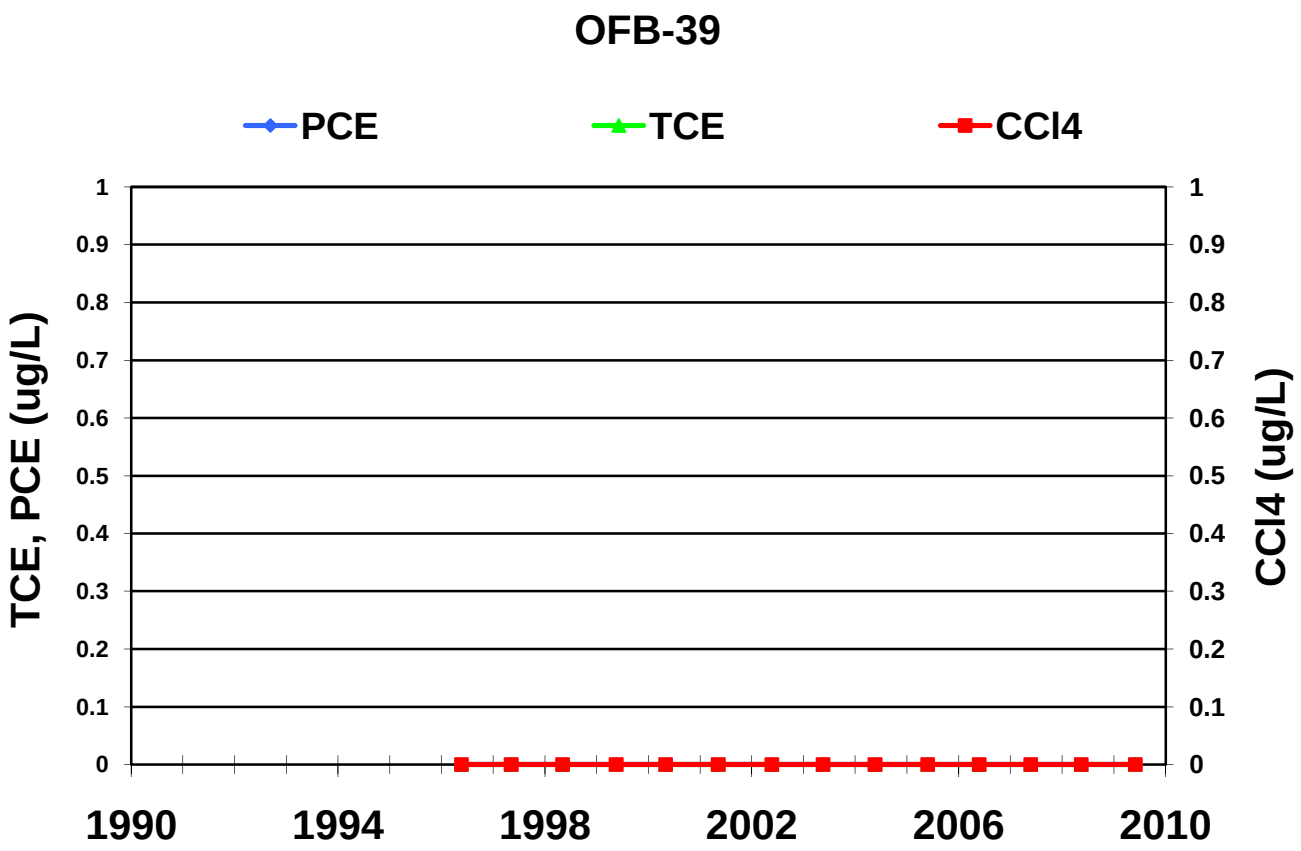

OFB-22
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
8
7
6
5
4
3
2
1
0
1990
1994
1998
2002
2006
2010

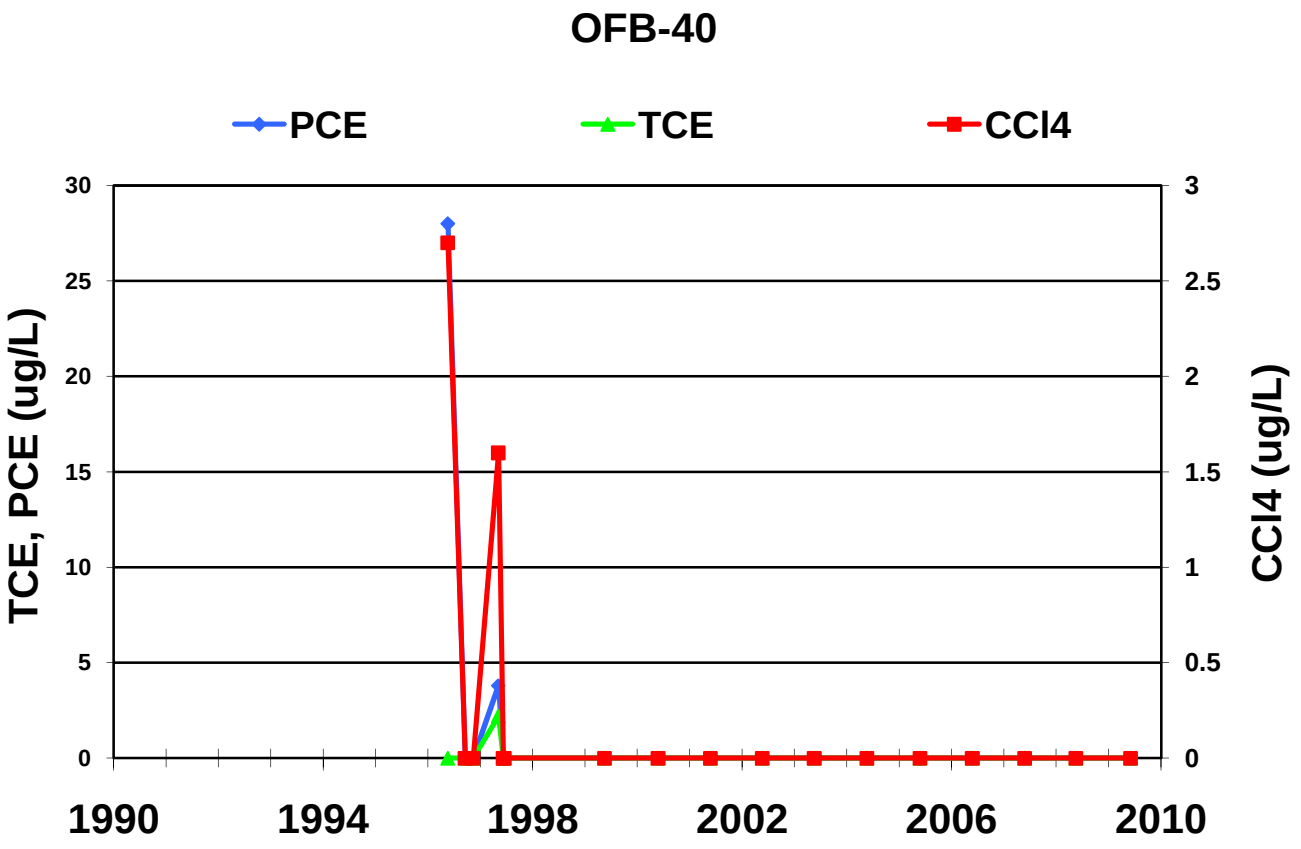

OFB-24
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
3.5
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

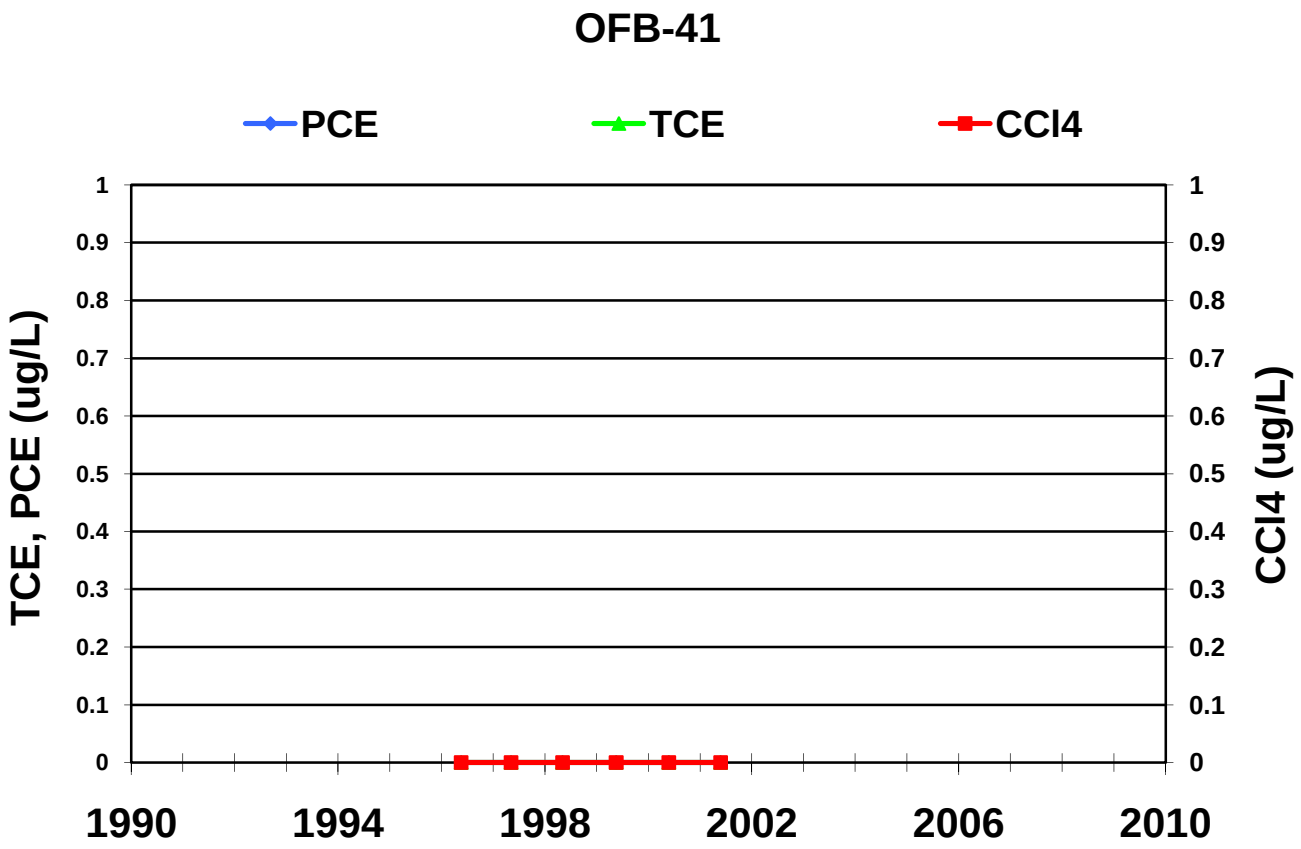

OFB-27
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

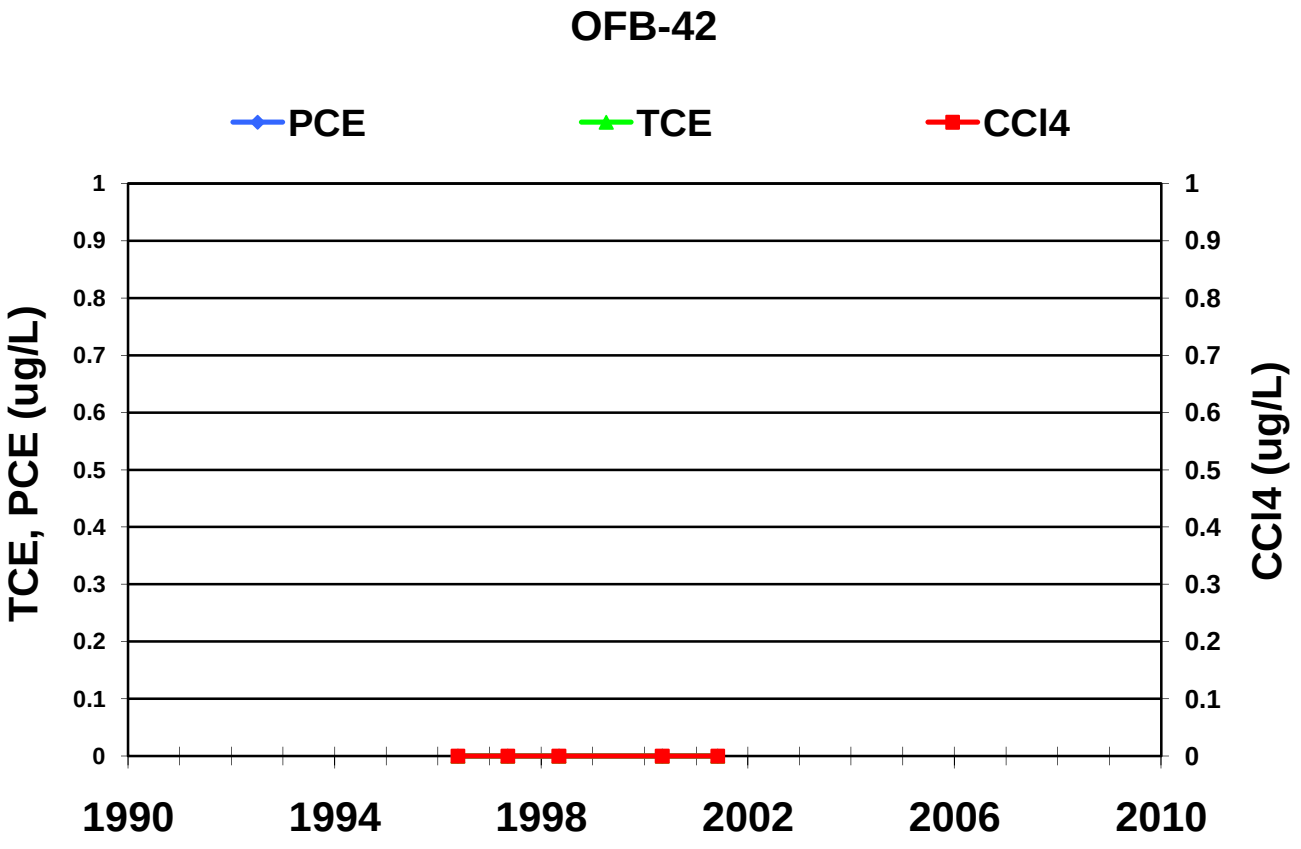

OFB-31
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

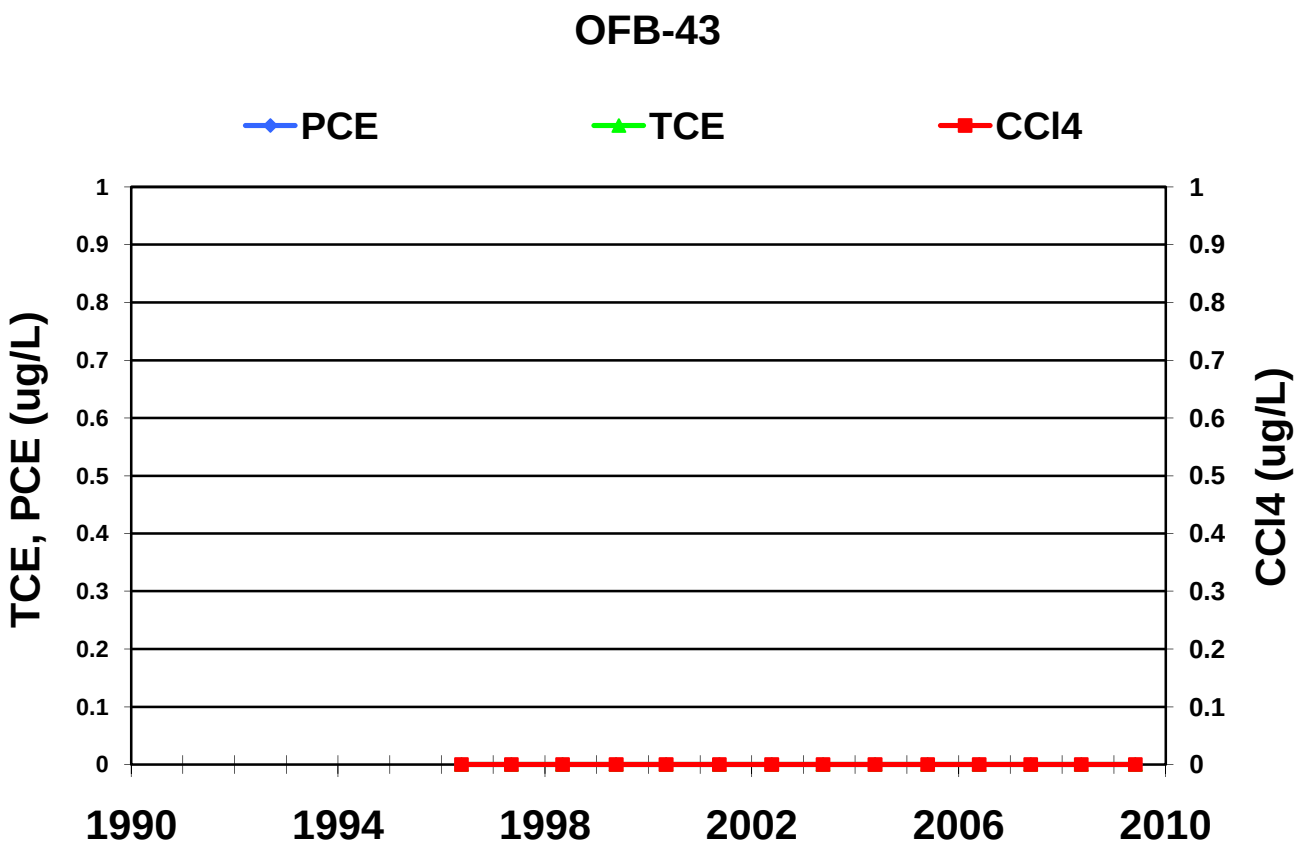

OFB-32
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

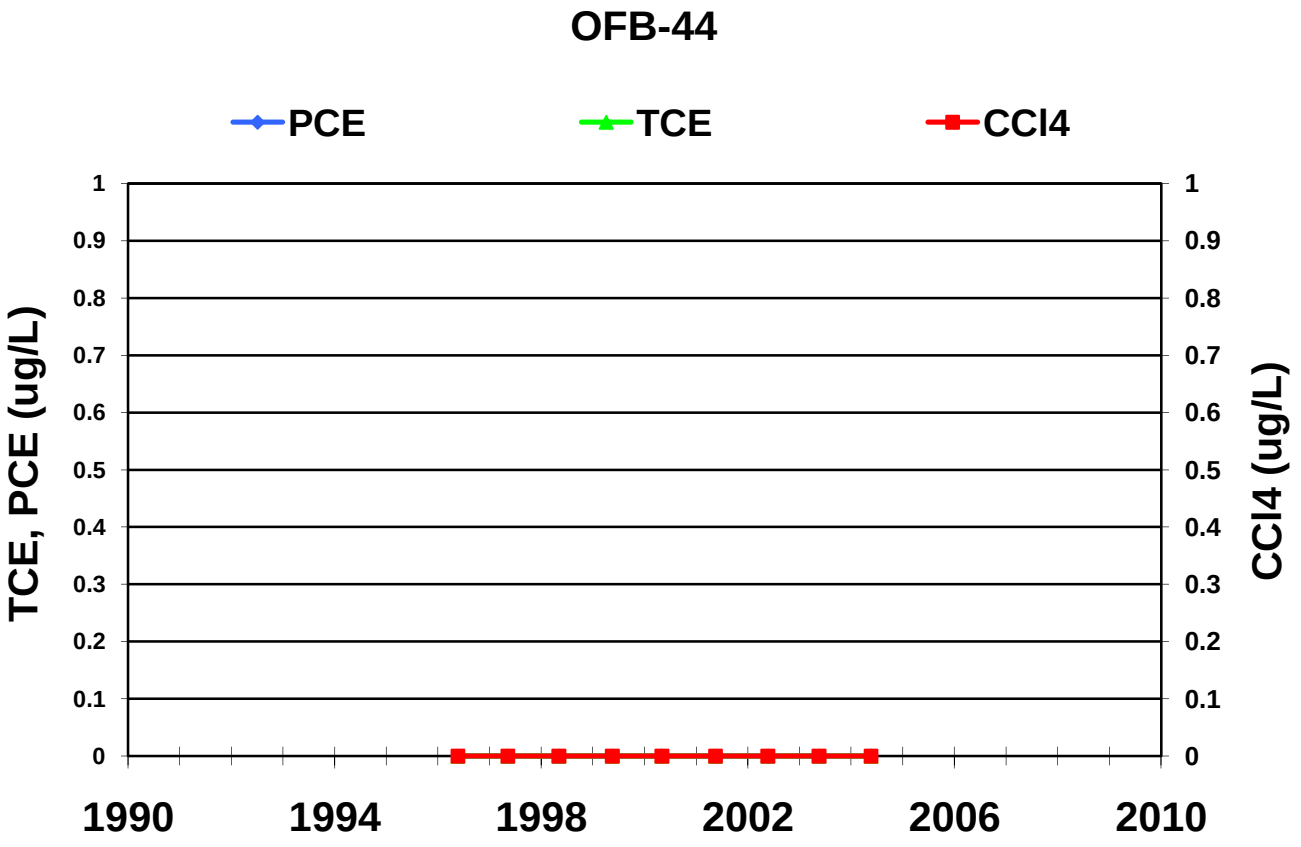

OFB-39
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

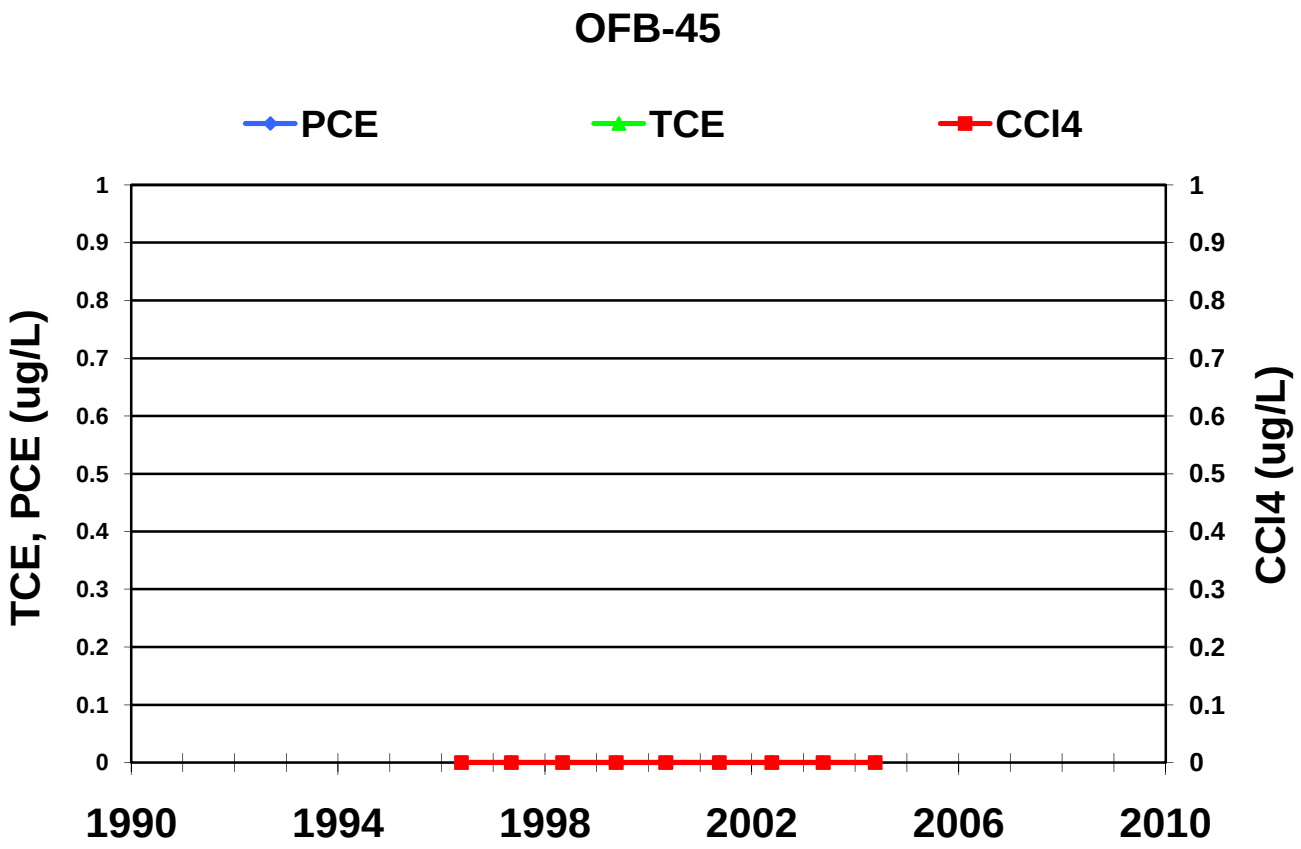

OFB-40
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
30
25
20
15
10
5
0
3
2.5
2
1.5
1
0.5
0
1990
1994
1998
2002
2006
2010

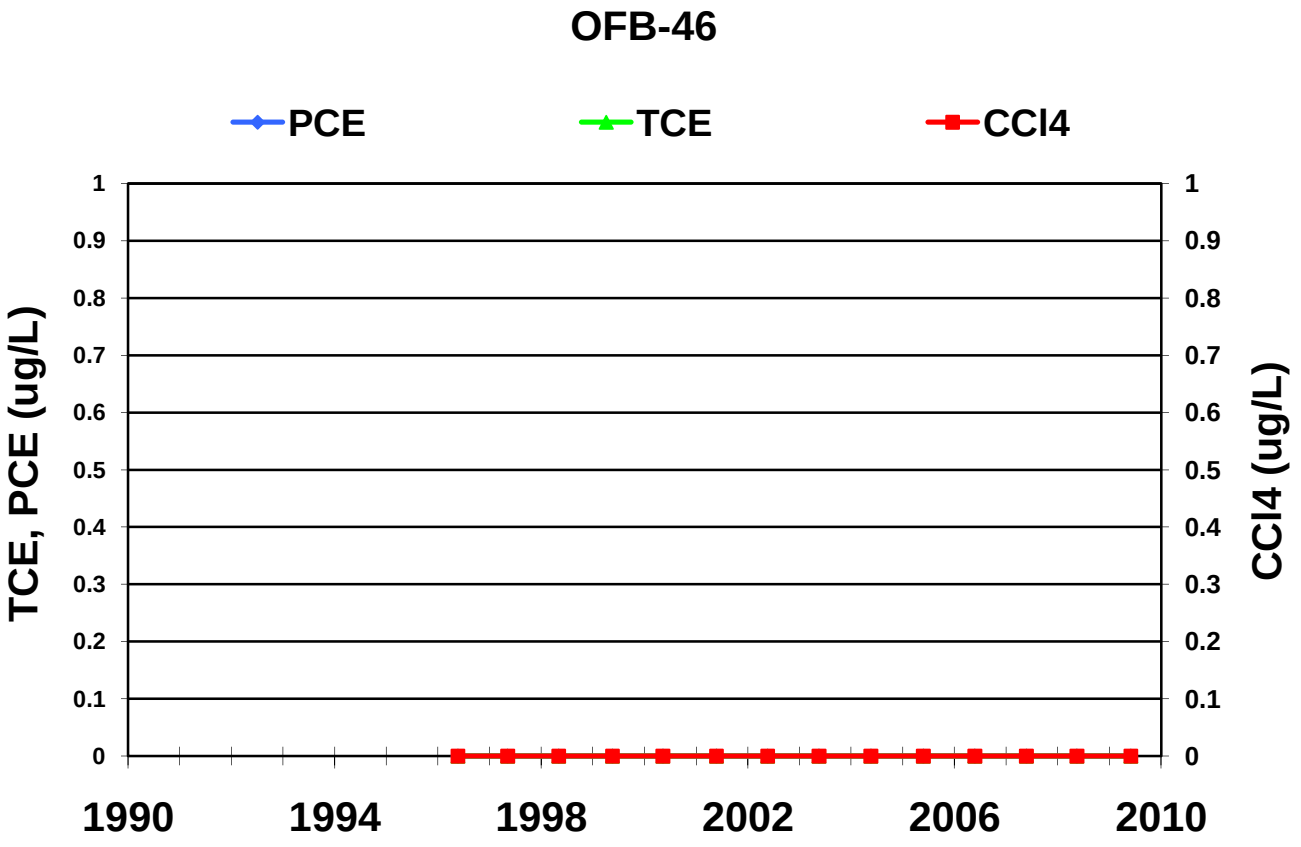

OFB-41
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

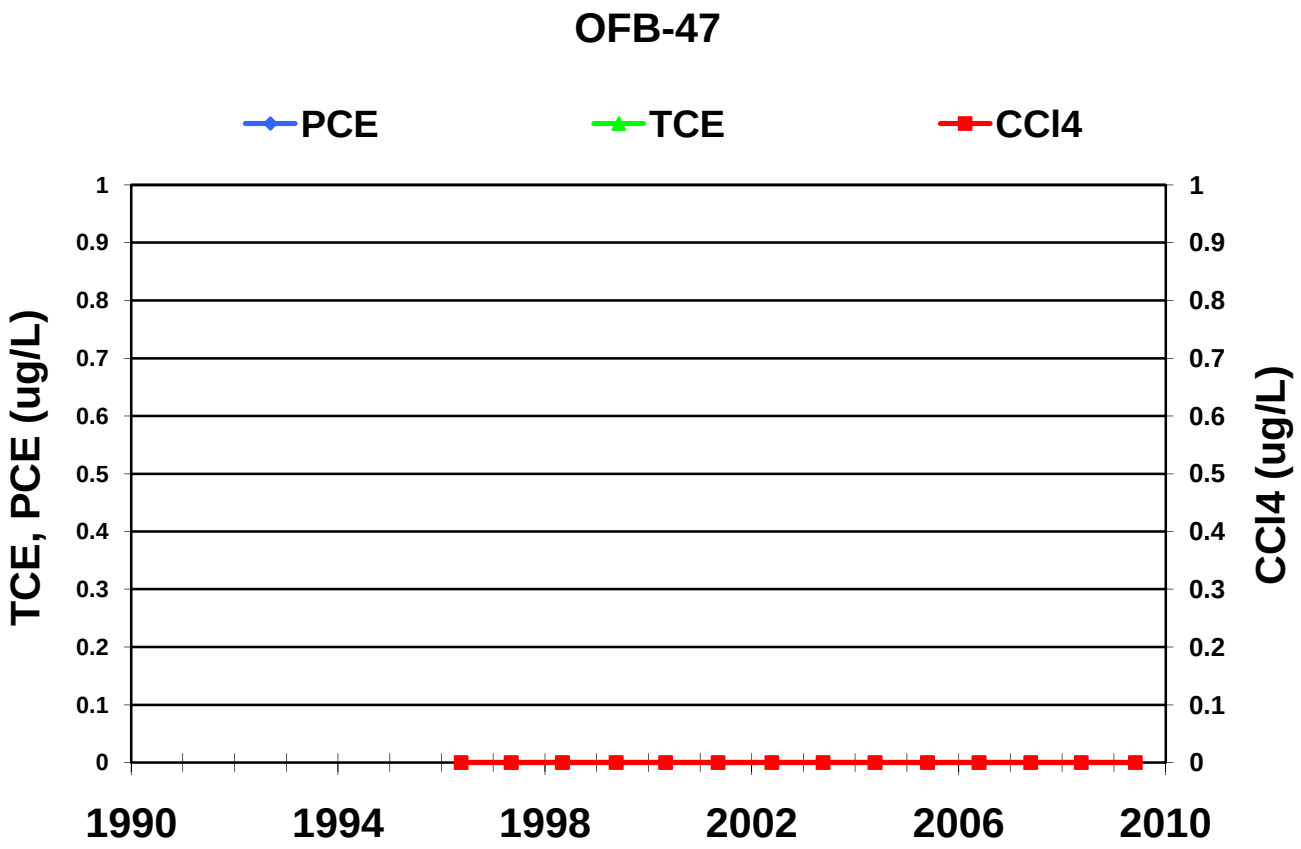

OFB-42
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

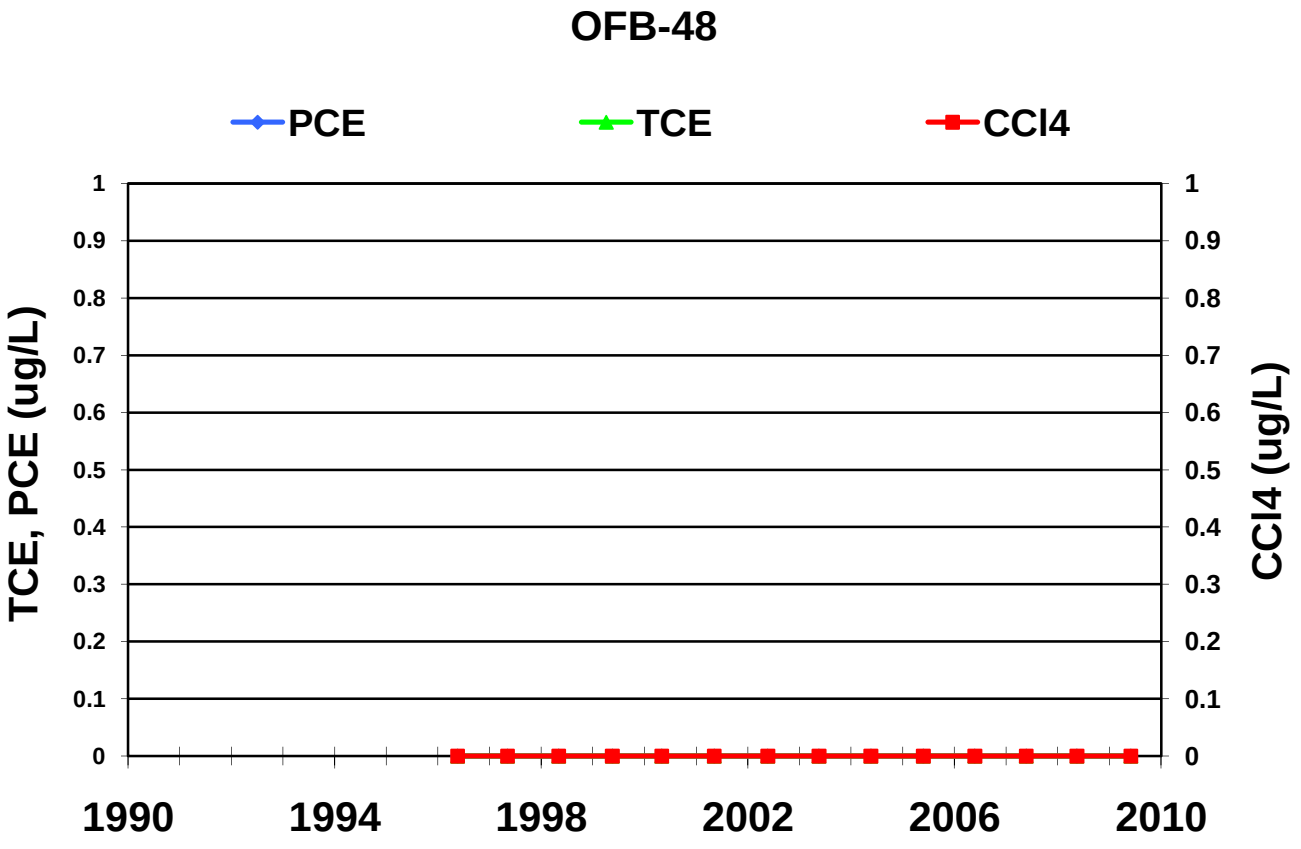

OFB-43
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

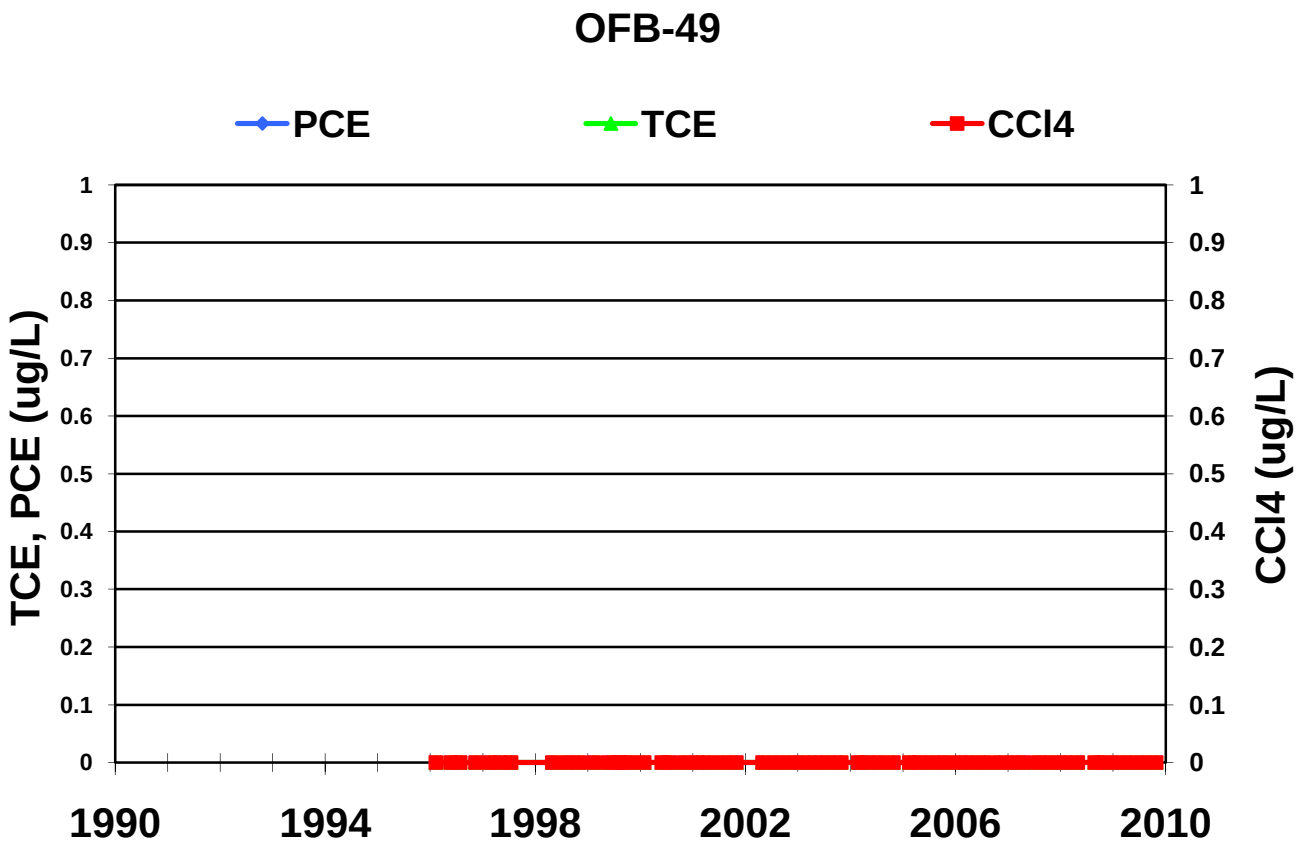

OFB-44
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

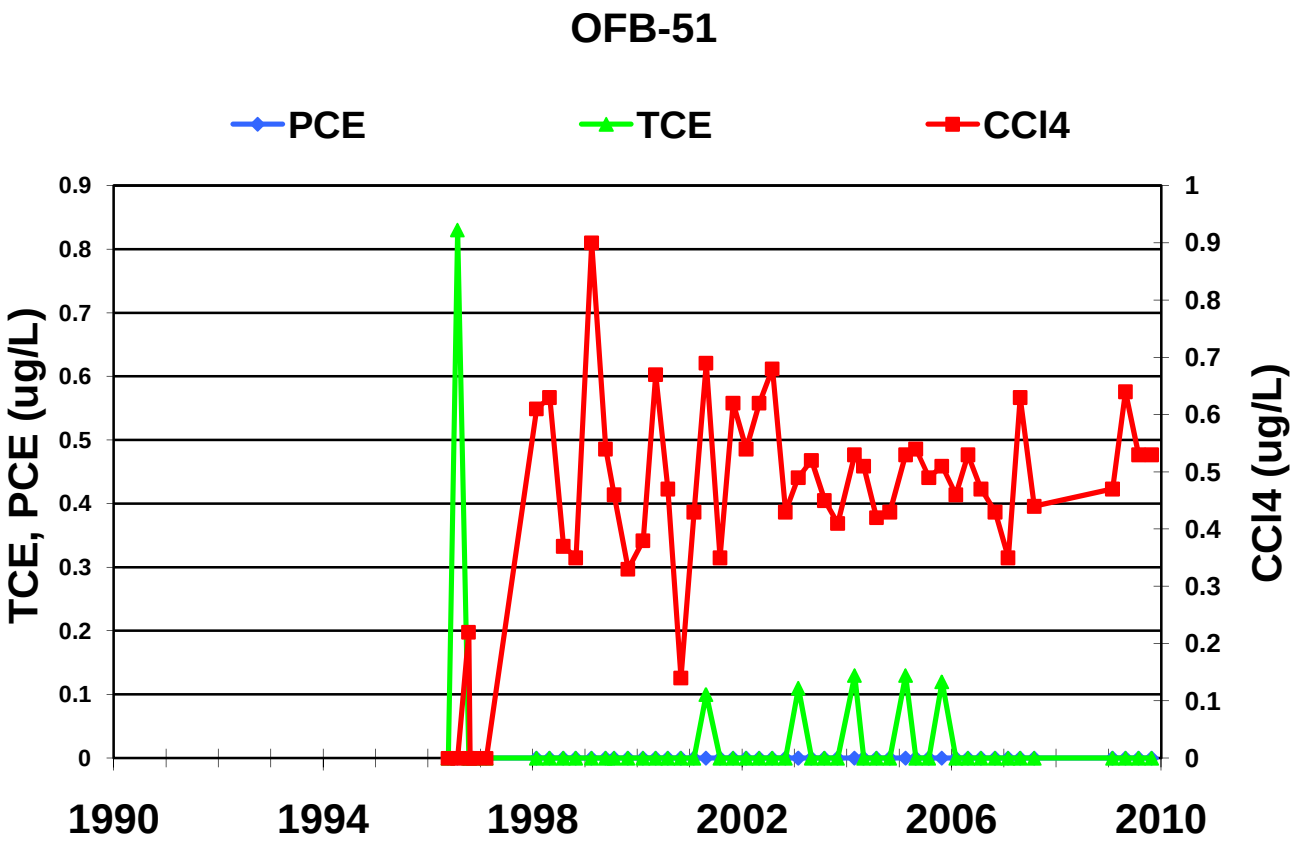

OFB-45
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

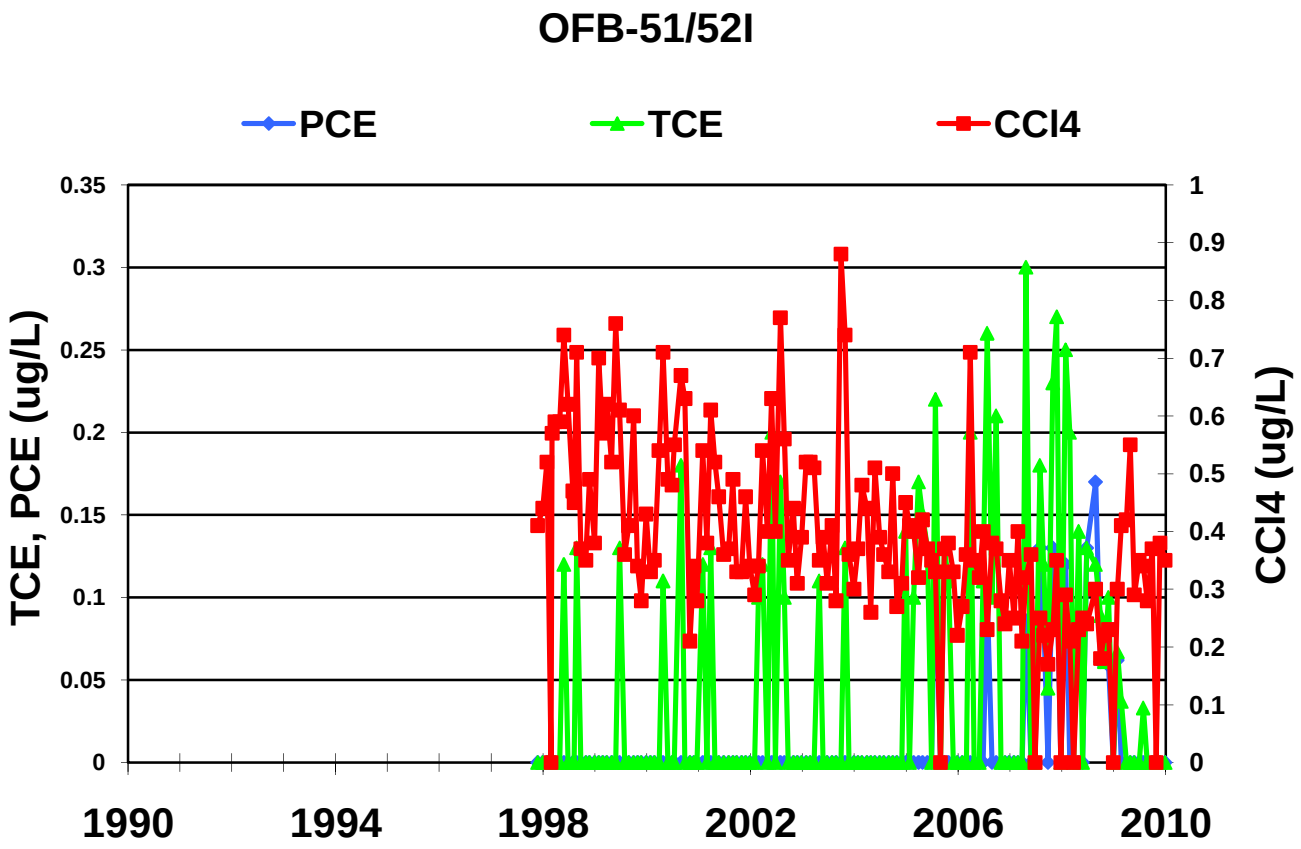

OFB-46
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-47
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-48
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-49
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010


OFB-51
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1990
1994
1998
2002
2006
2010


OFB-51/52I
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
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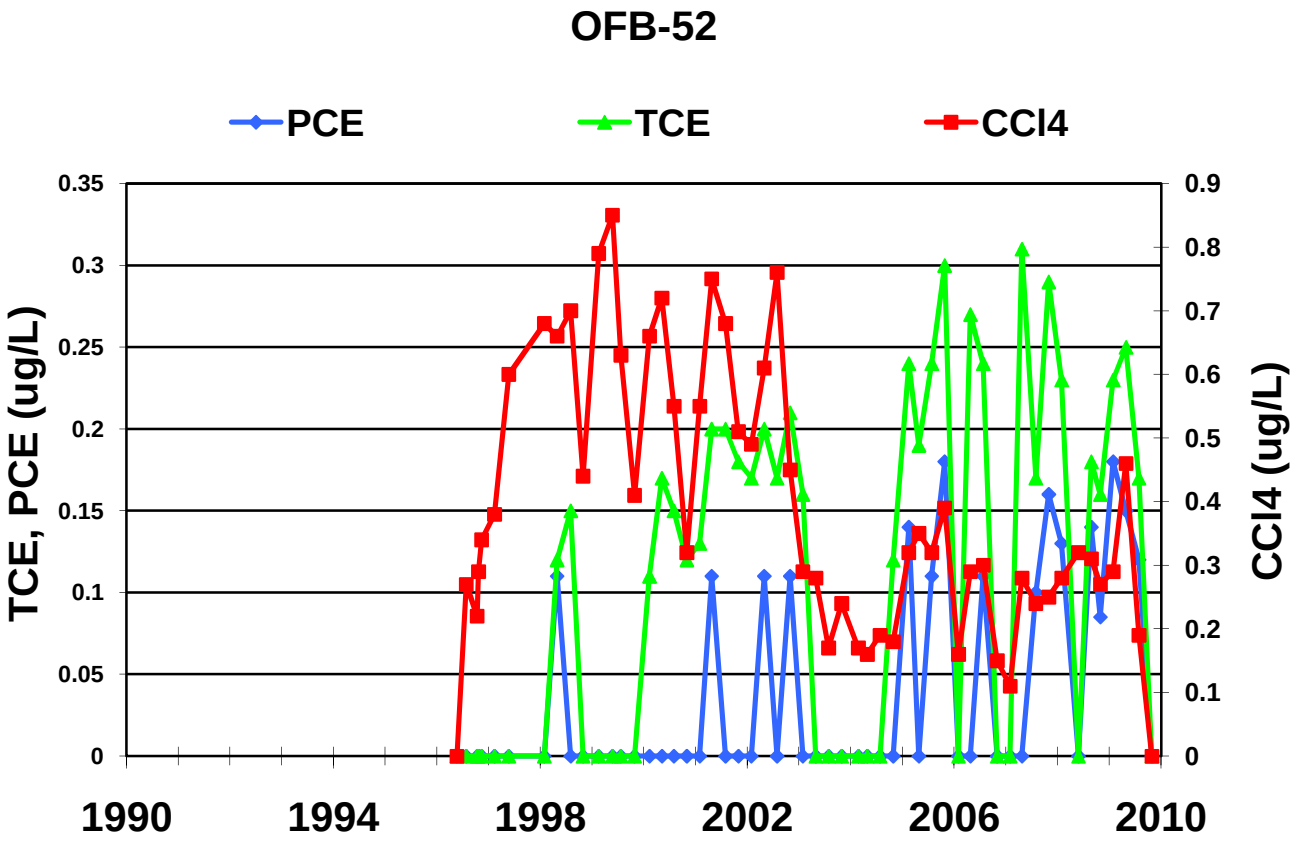
0.3
0.25
0.2
0.15
0.1
0.05
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010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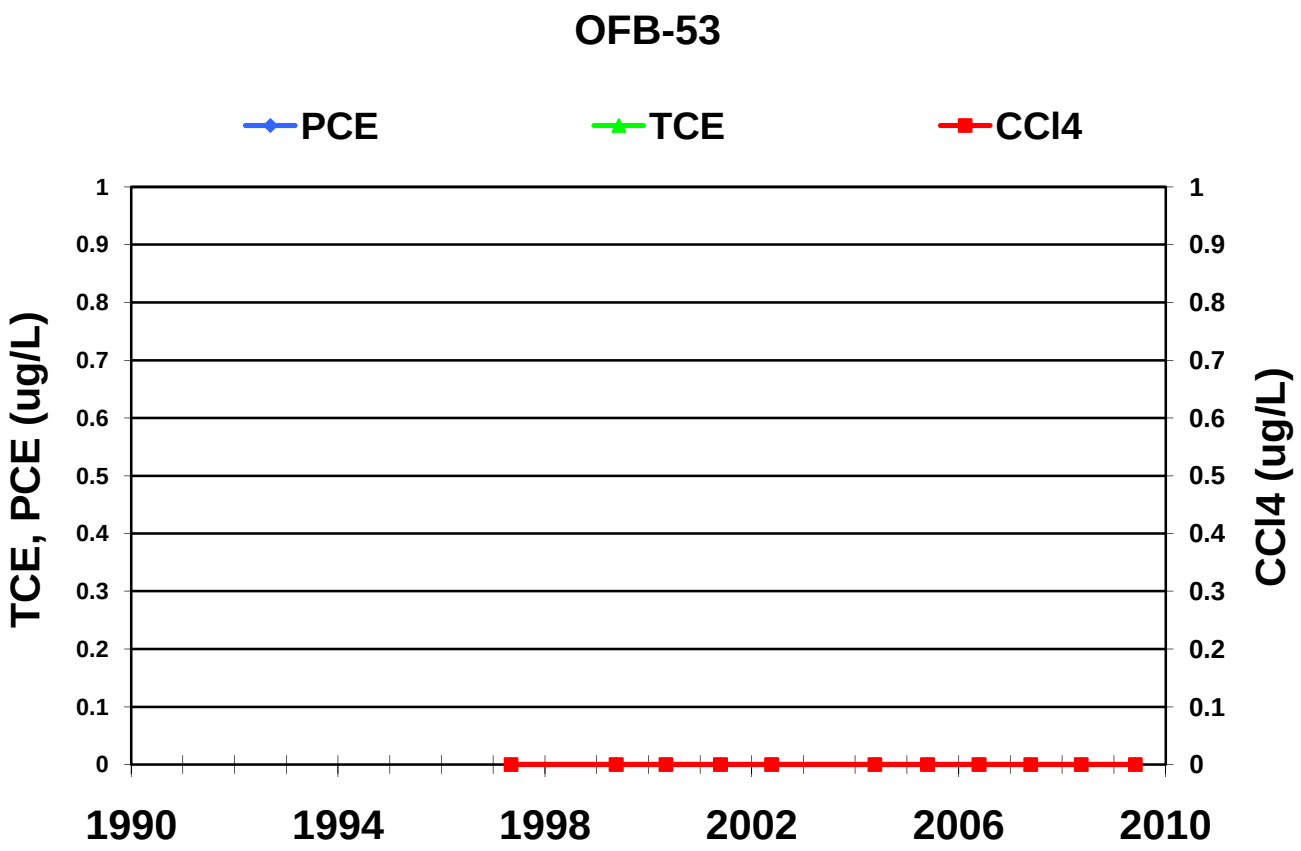
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010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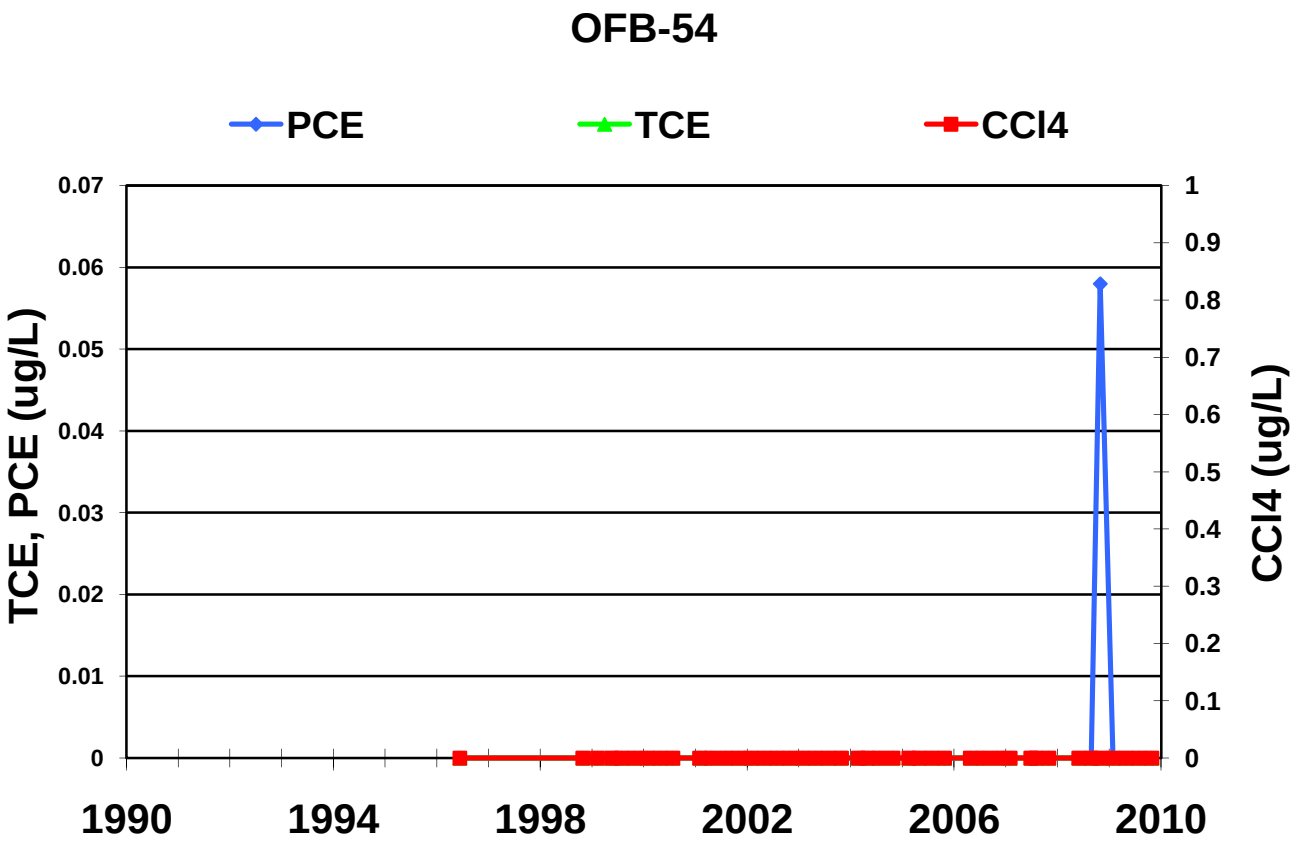
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010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PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
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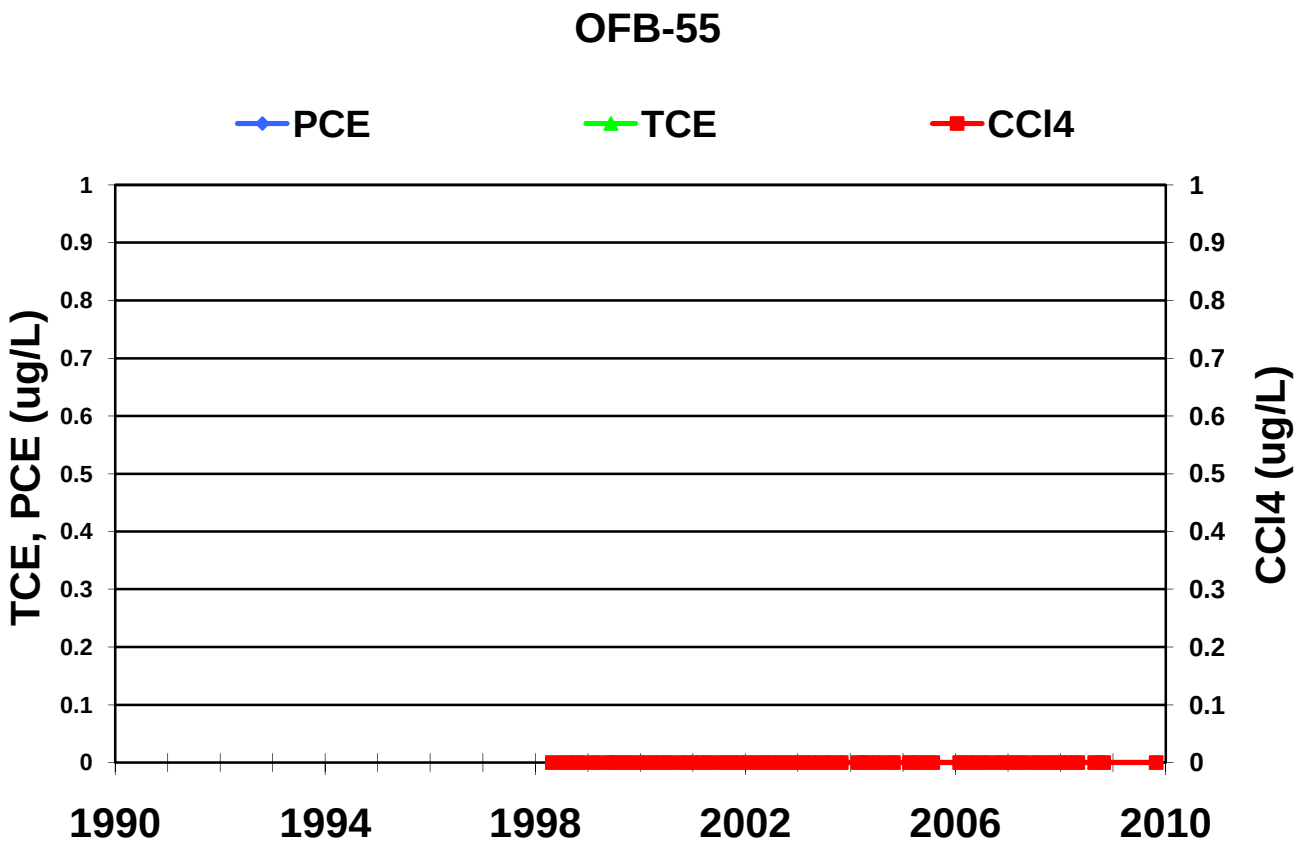
0.06
0.05
0.04
0.03
0.02
0.01
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010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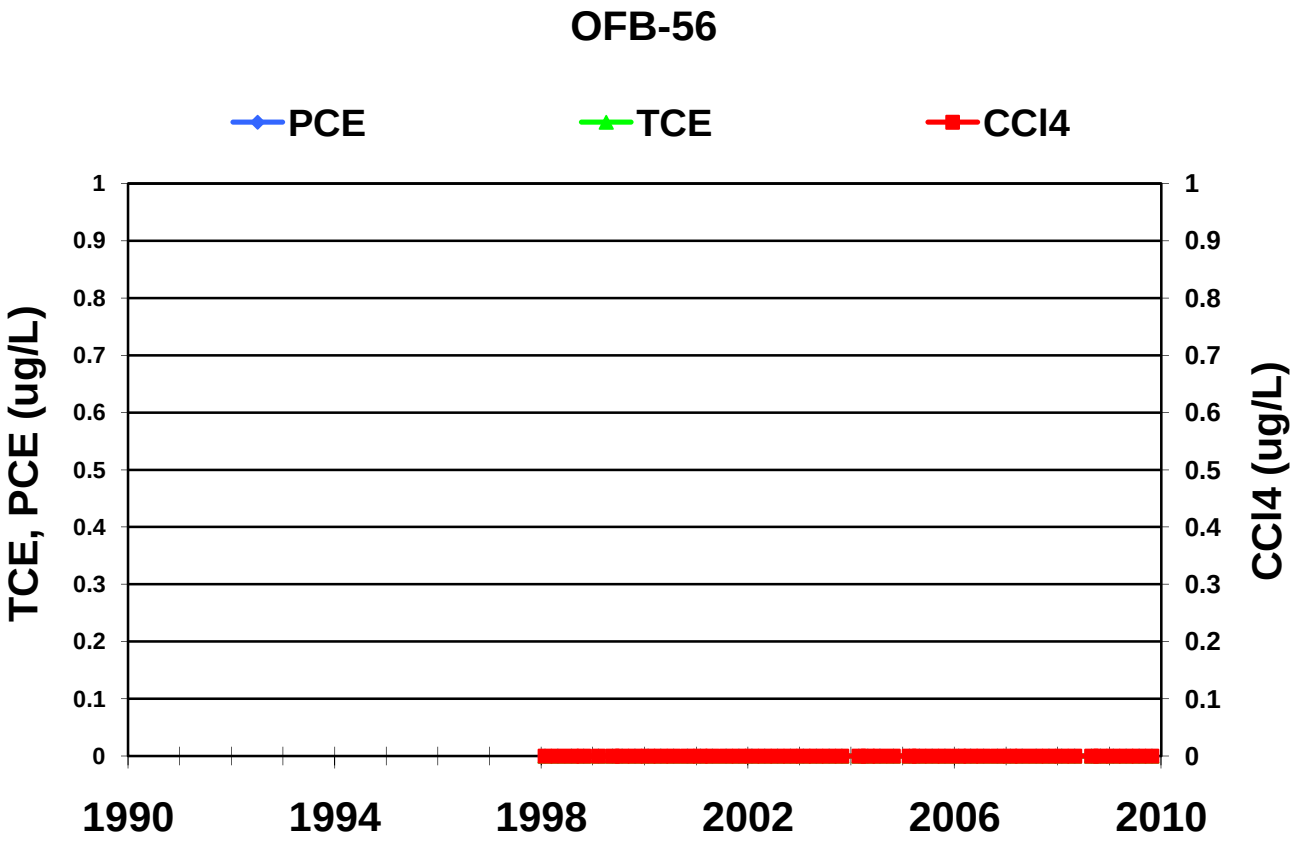
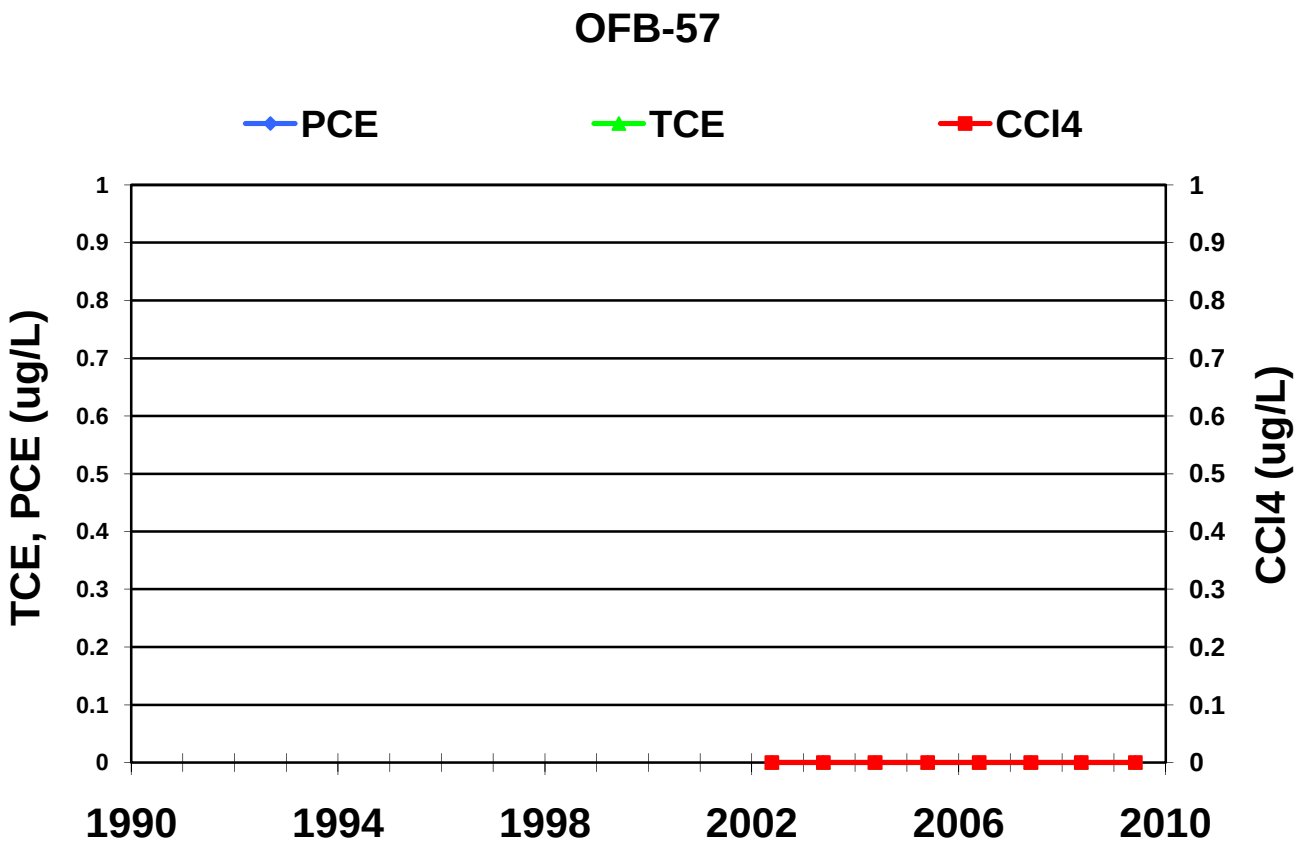
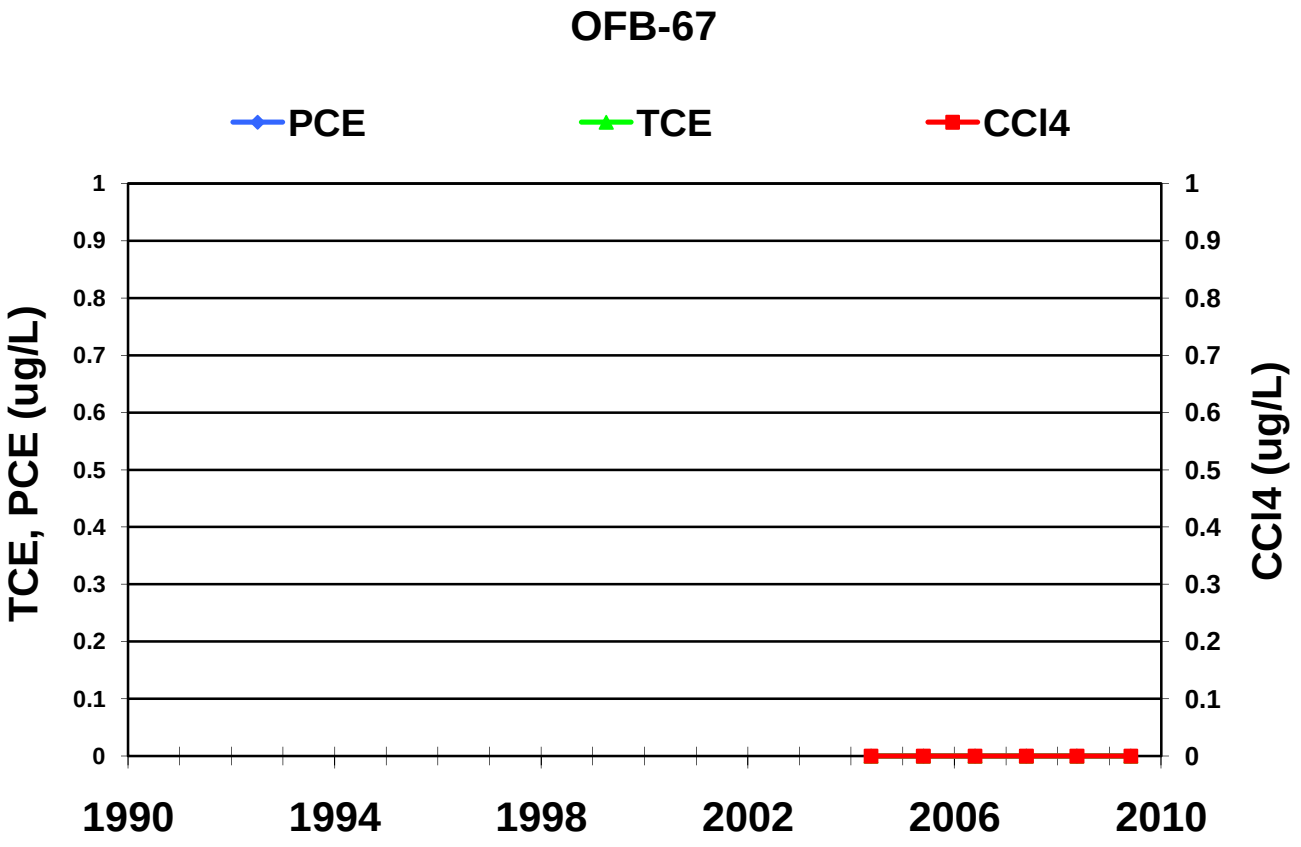
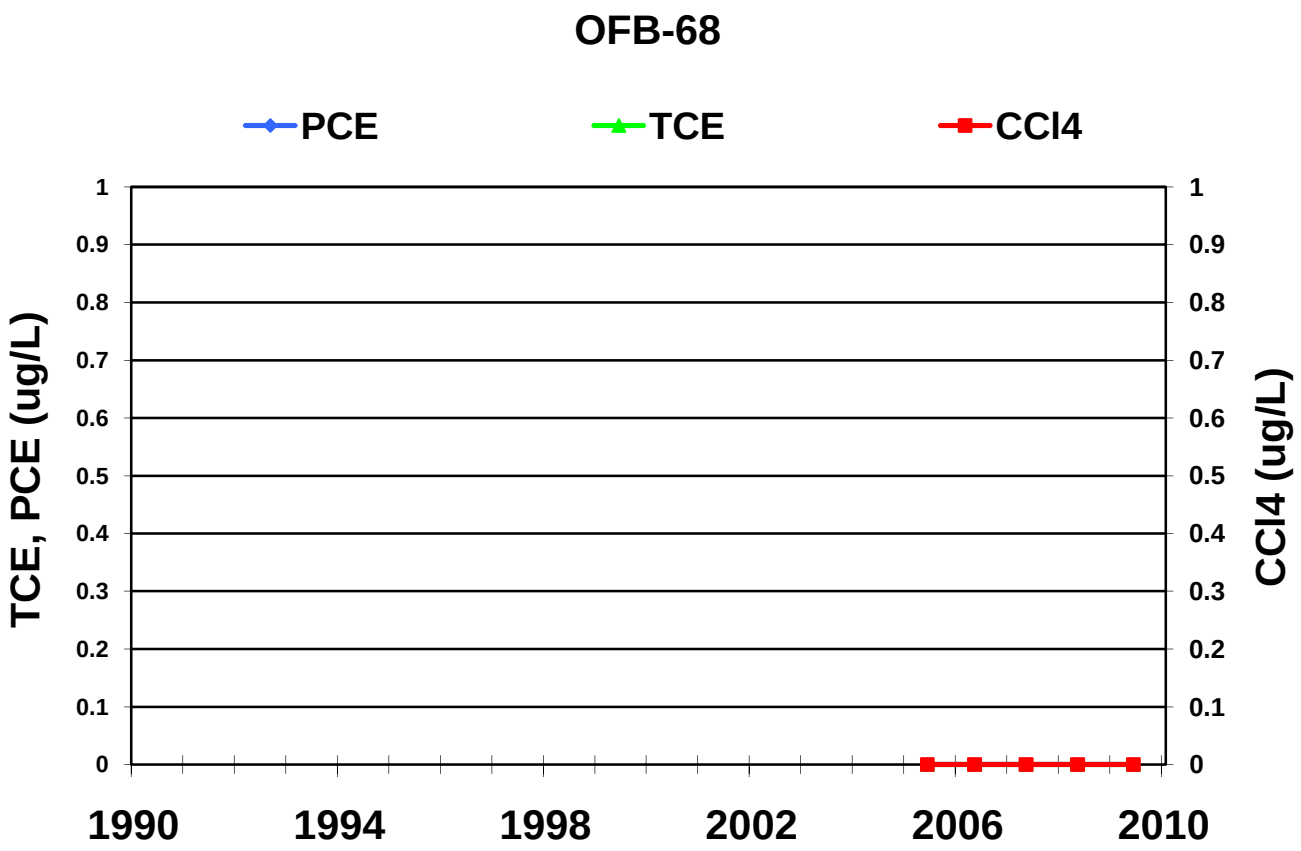
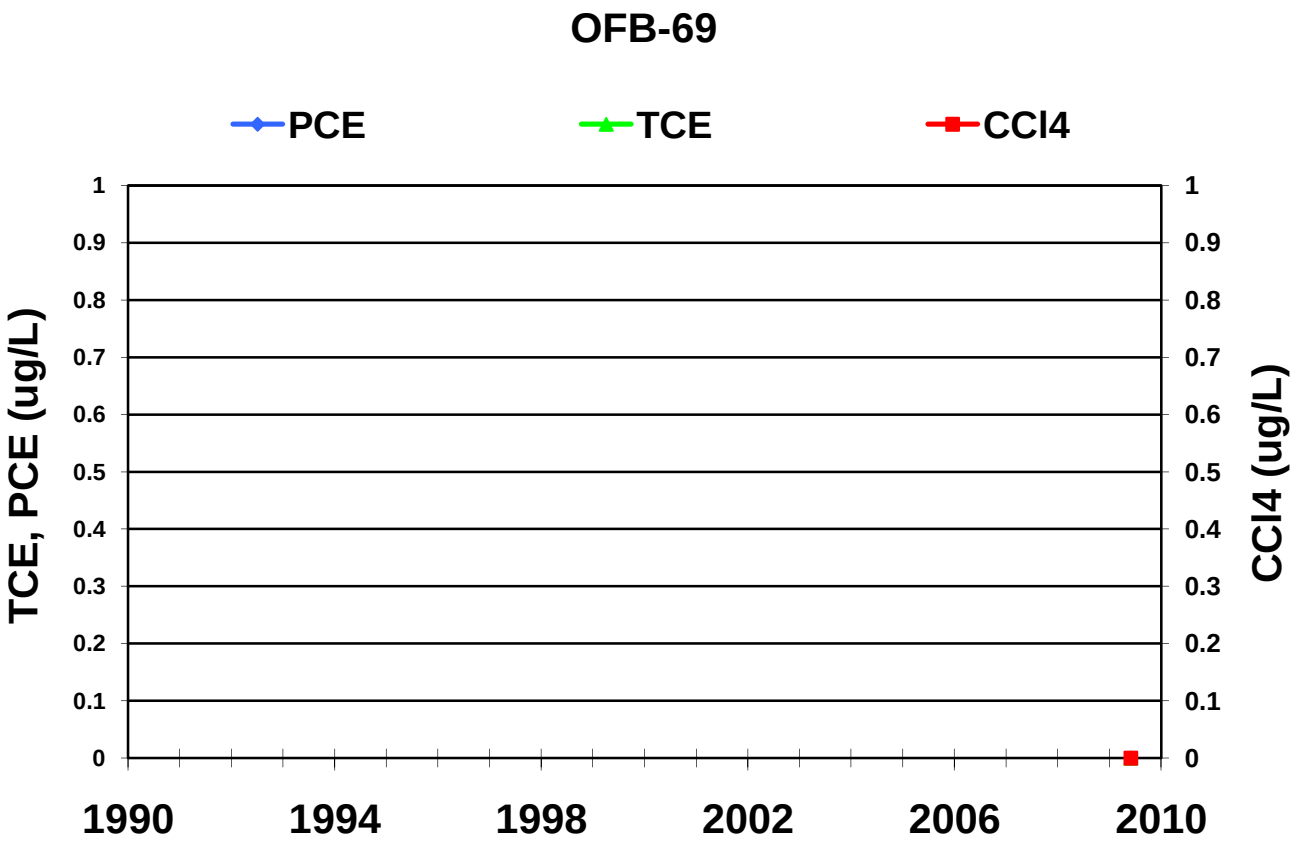
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

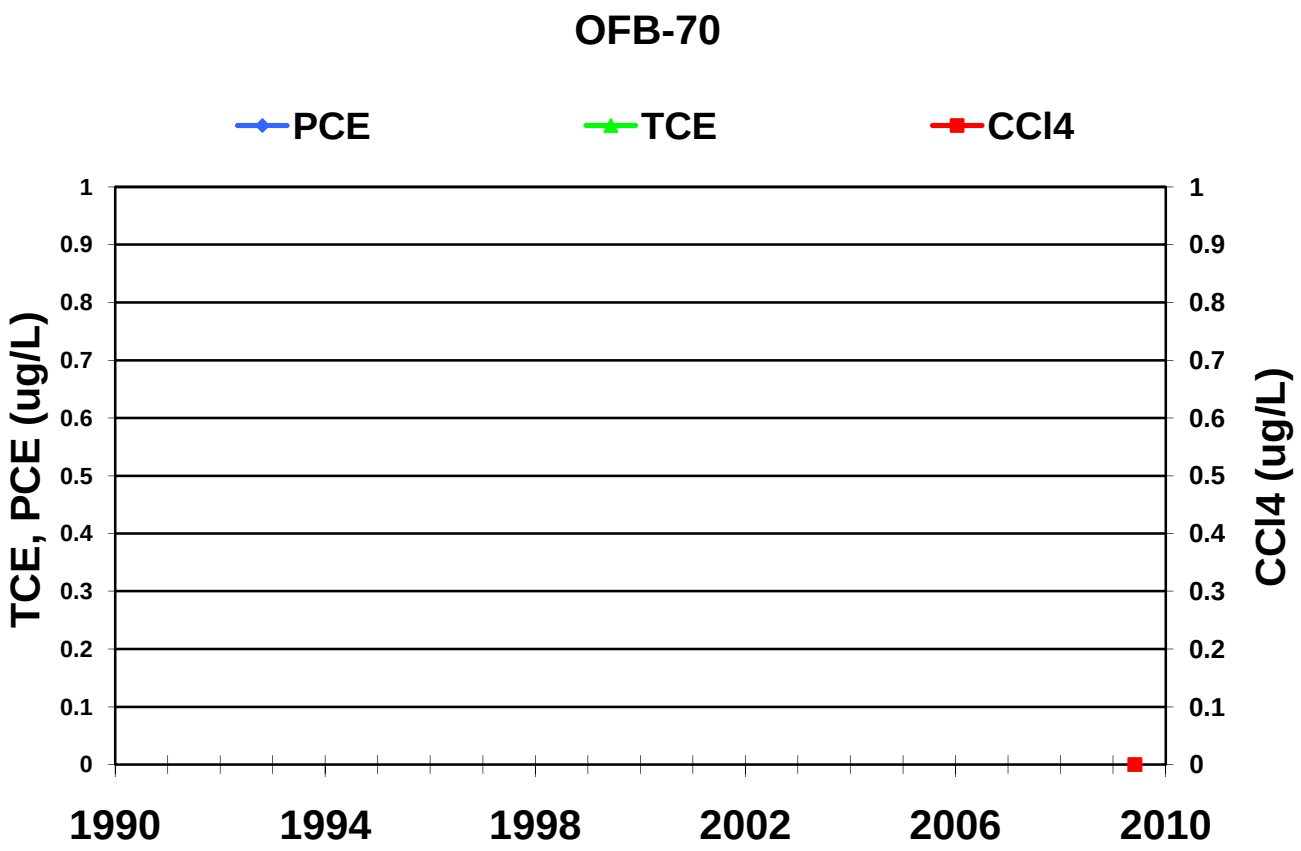

OFB-56
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

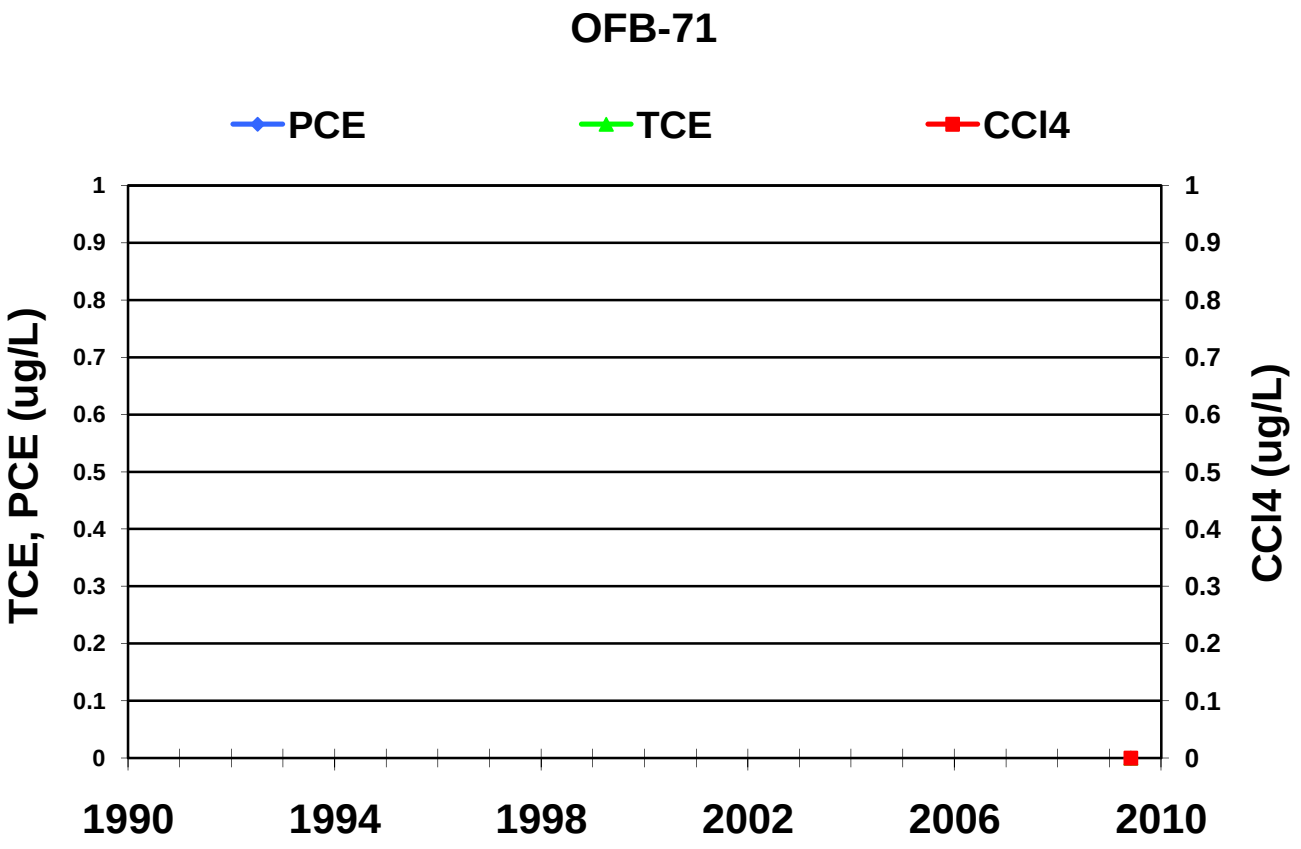

OFB-57
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

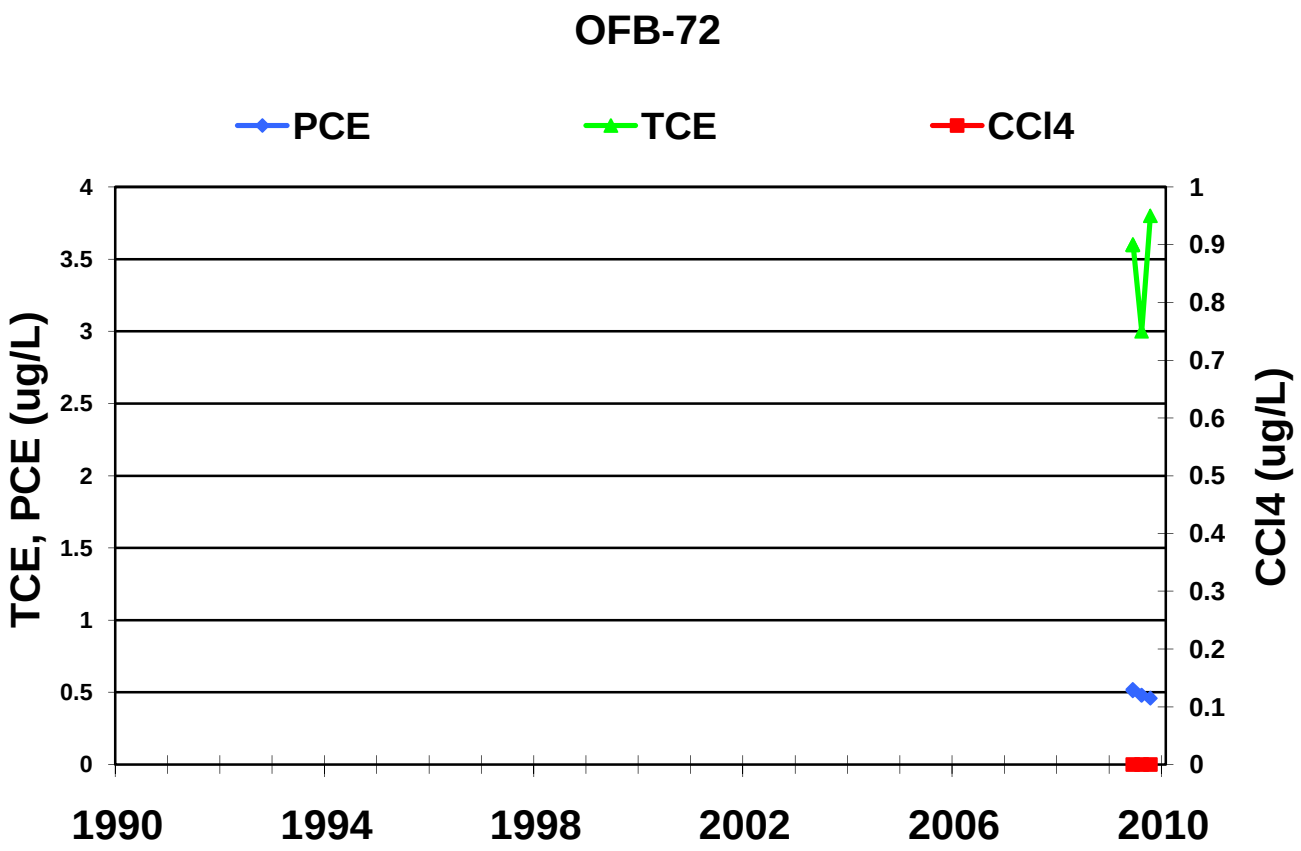

OFB-67
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

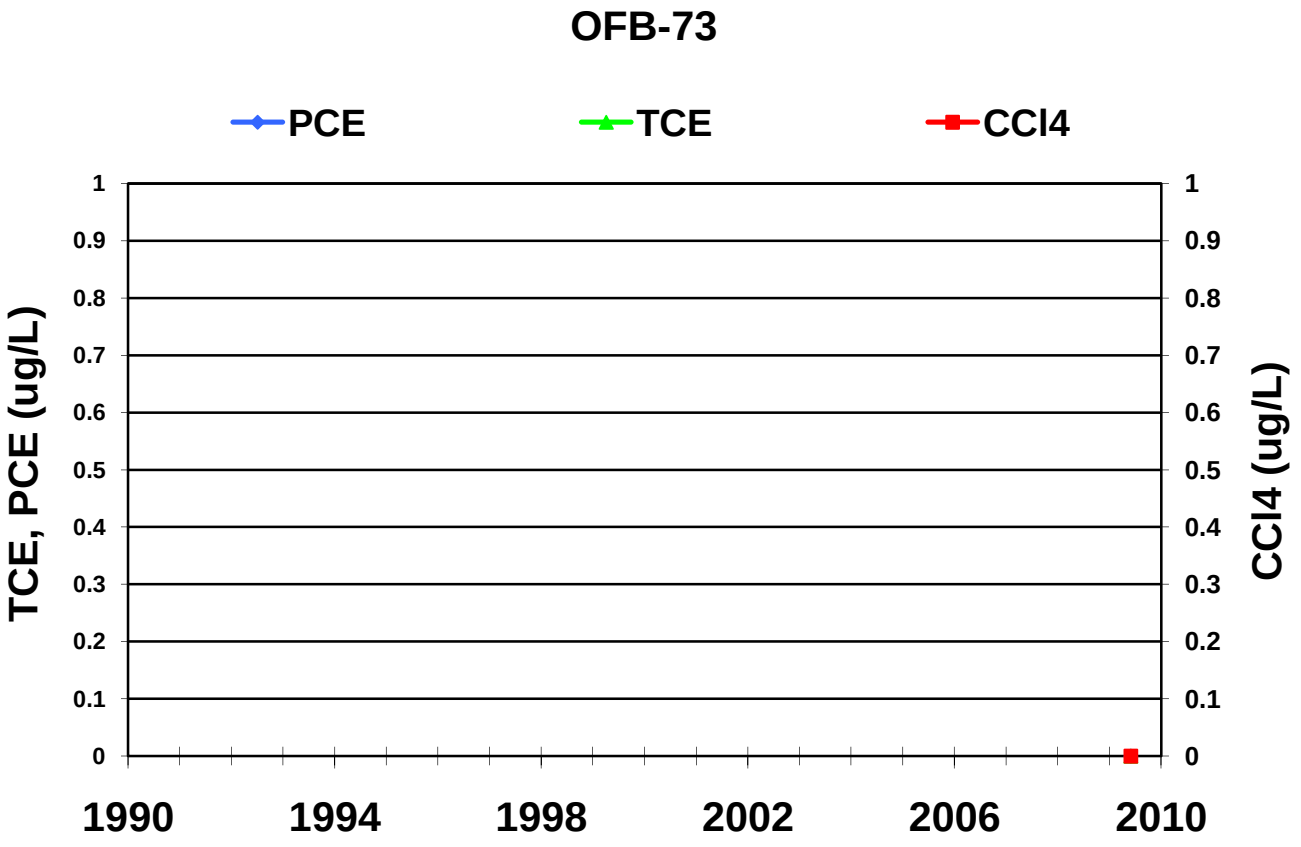

OFB-68
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

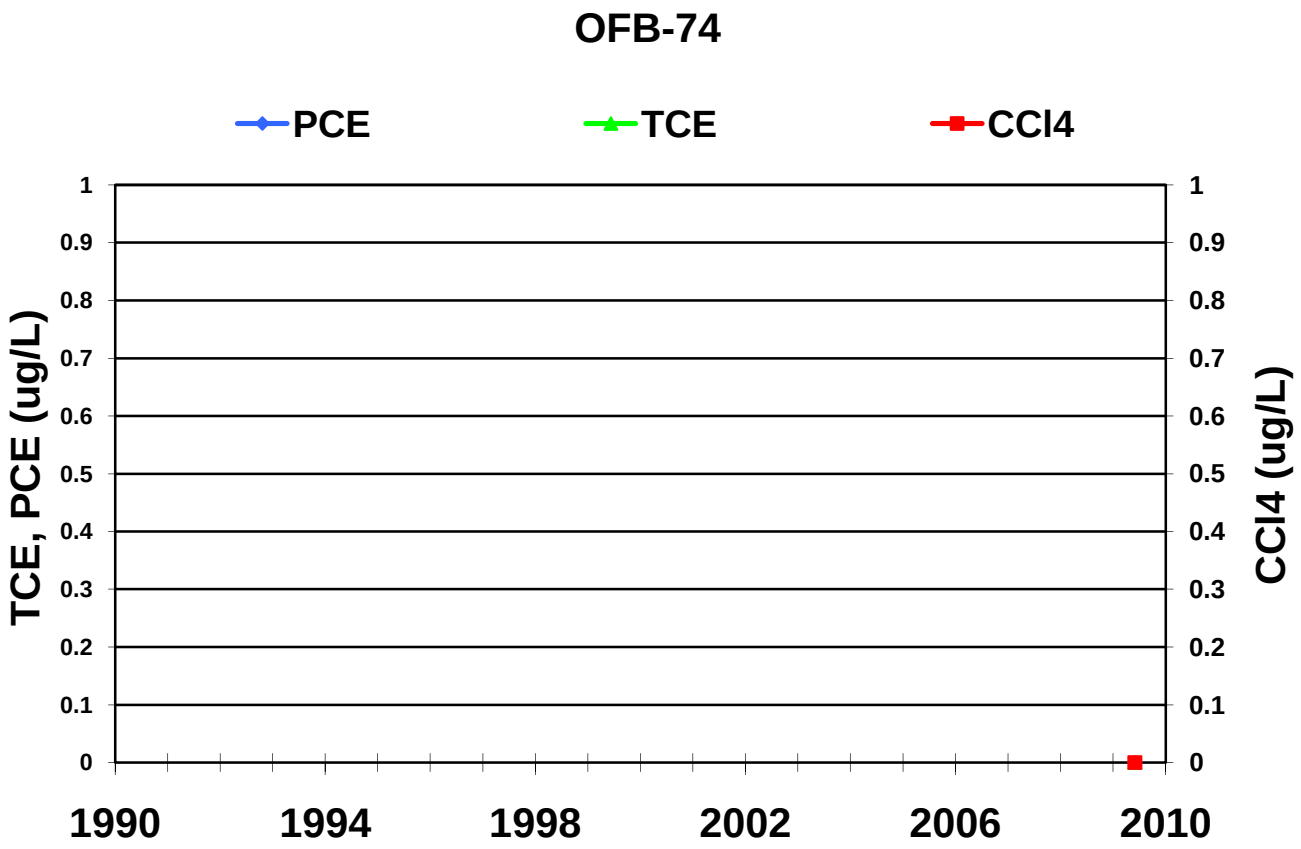

OFB-69
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

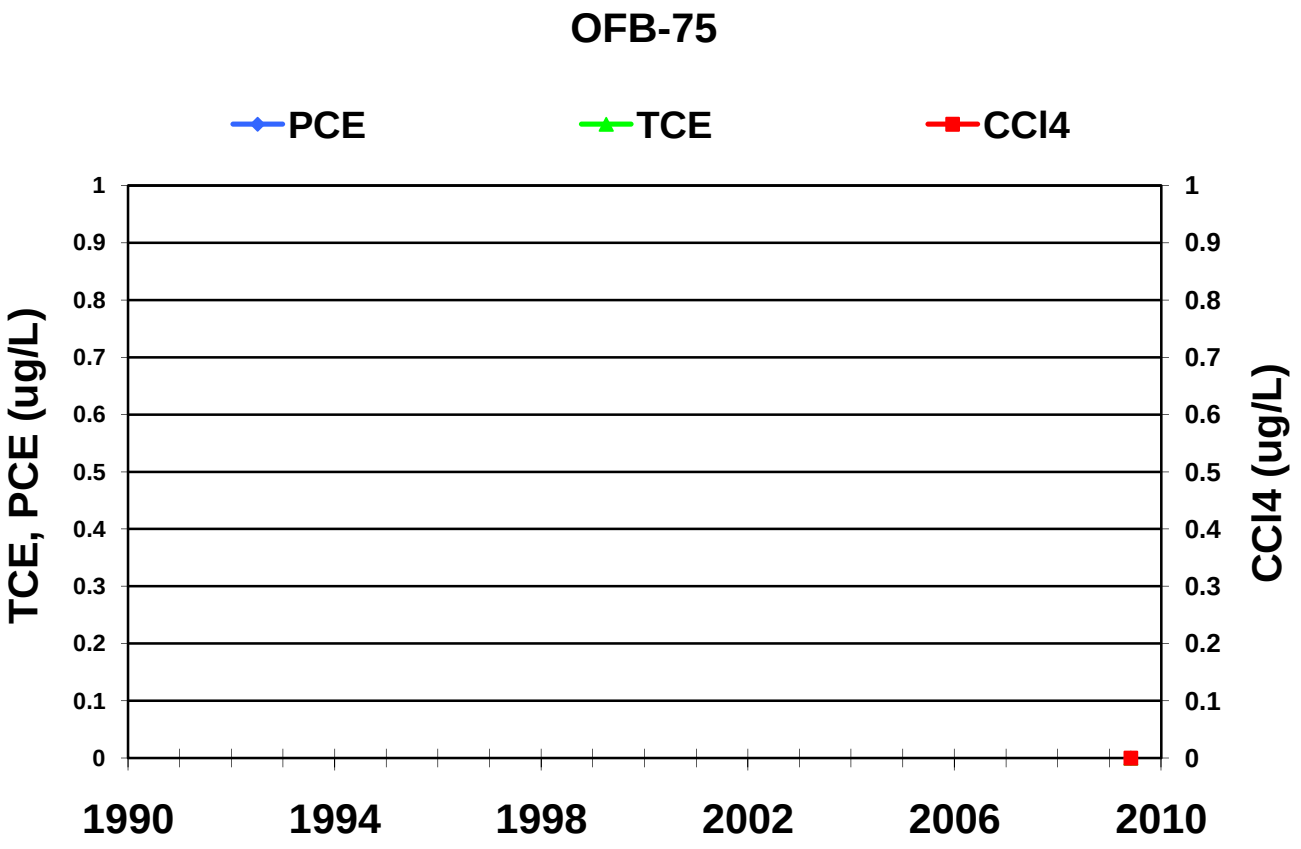

OFB-70
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

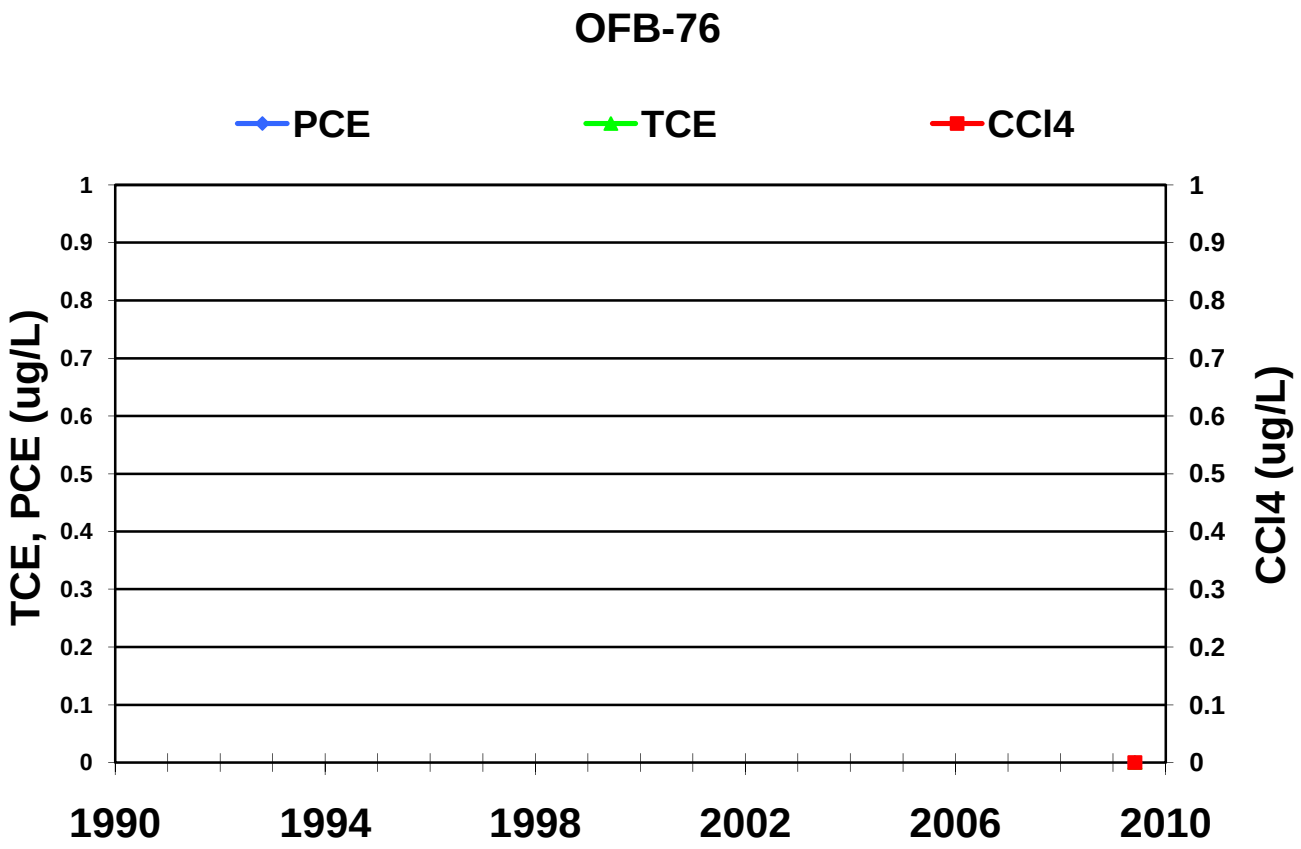

OFB-71
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

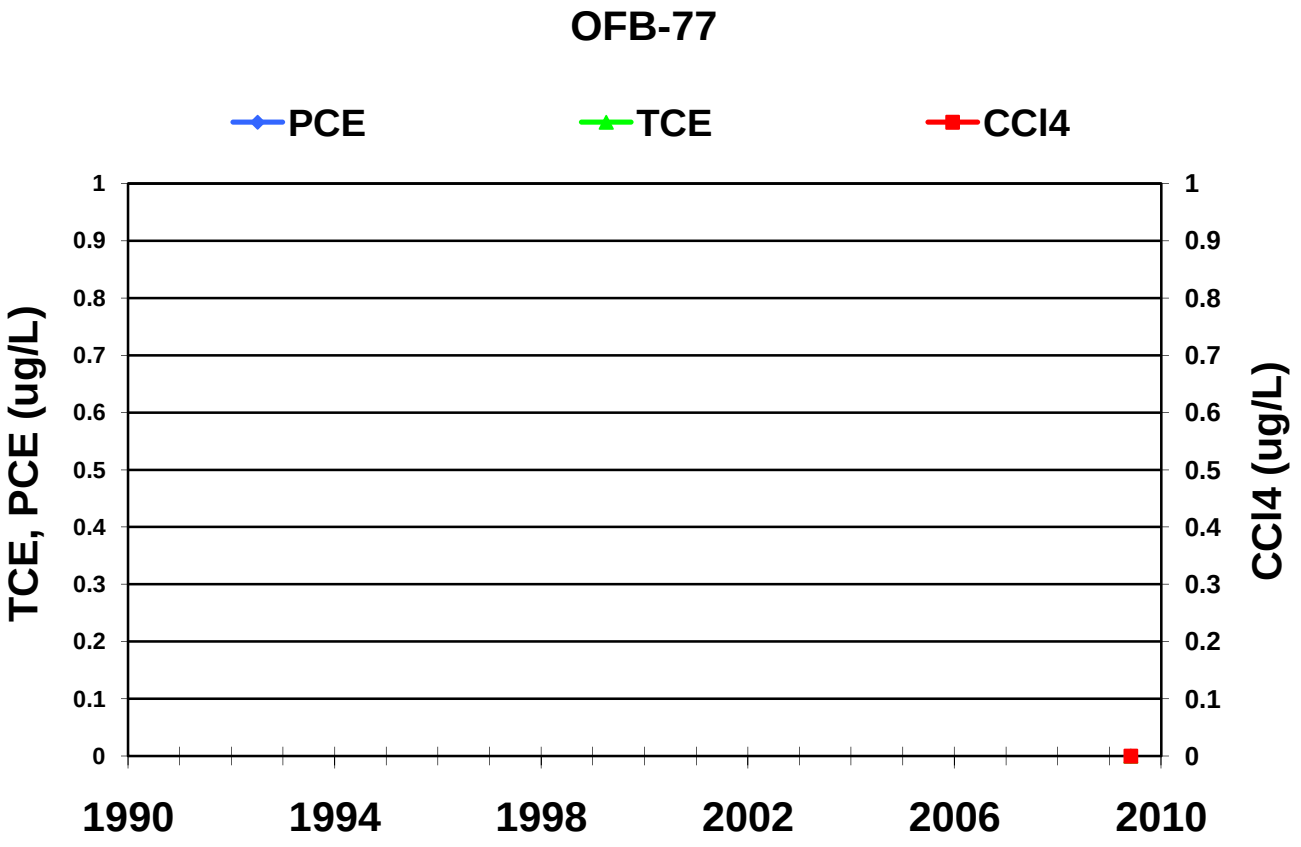

OFB-72
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

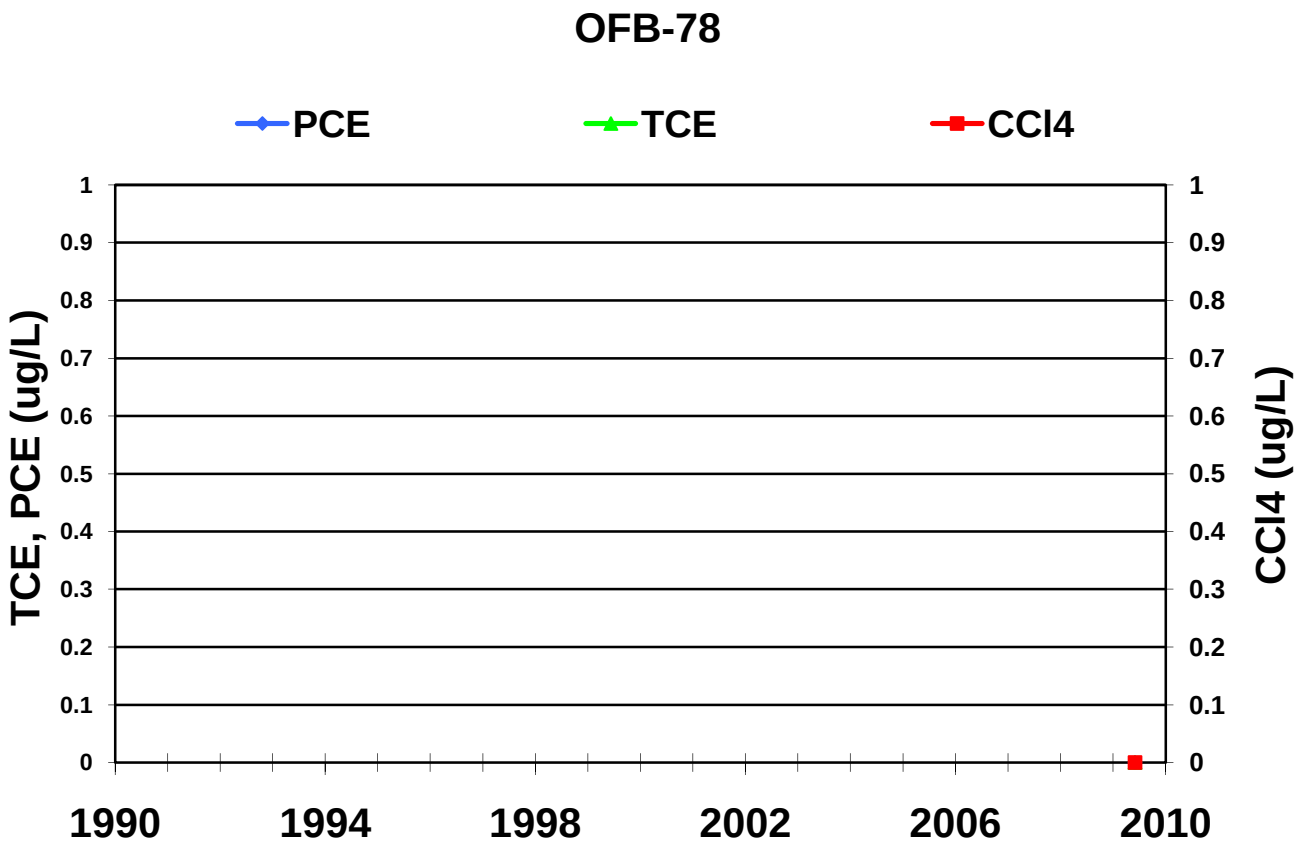

OFB-73
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

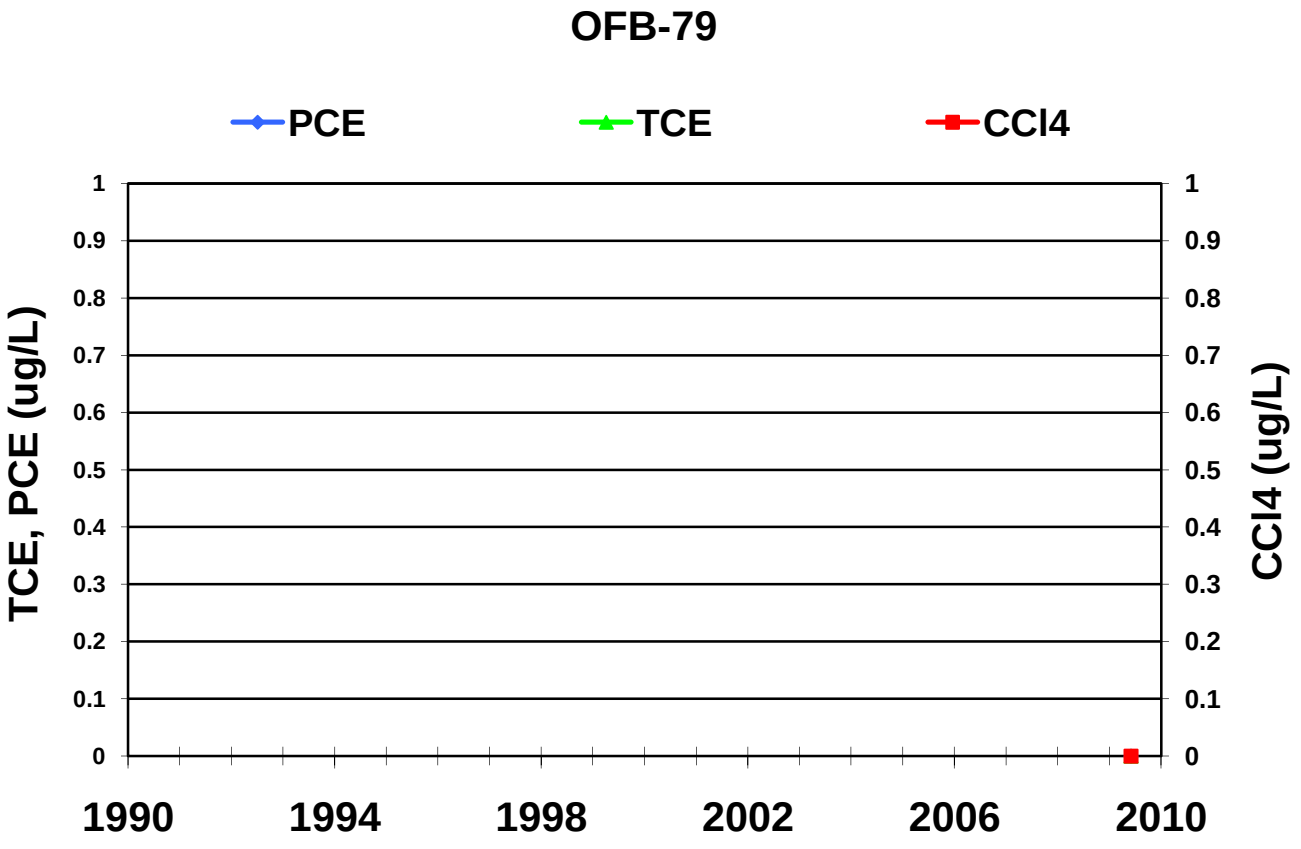

OFB-74
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

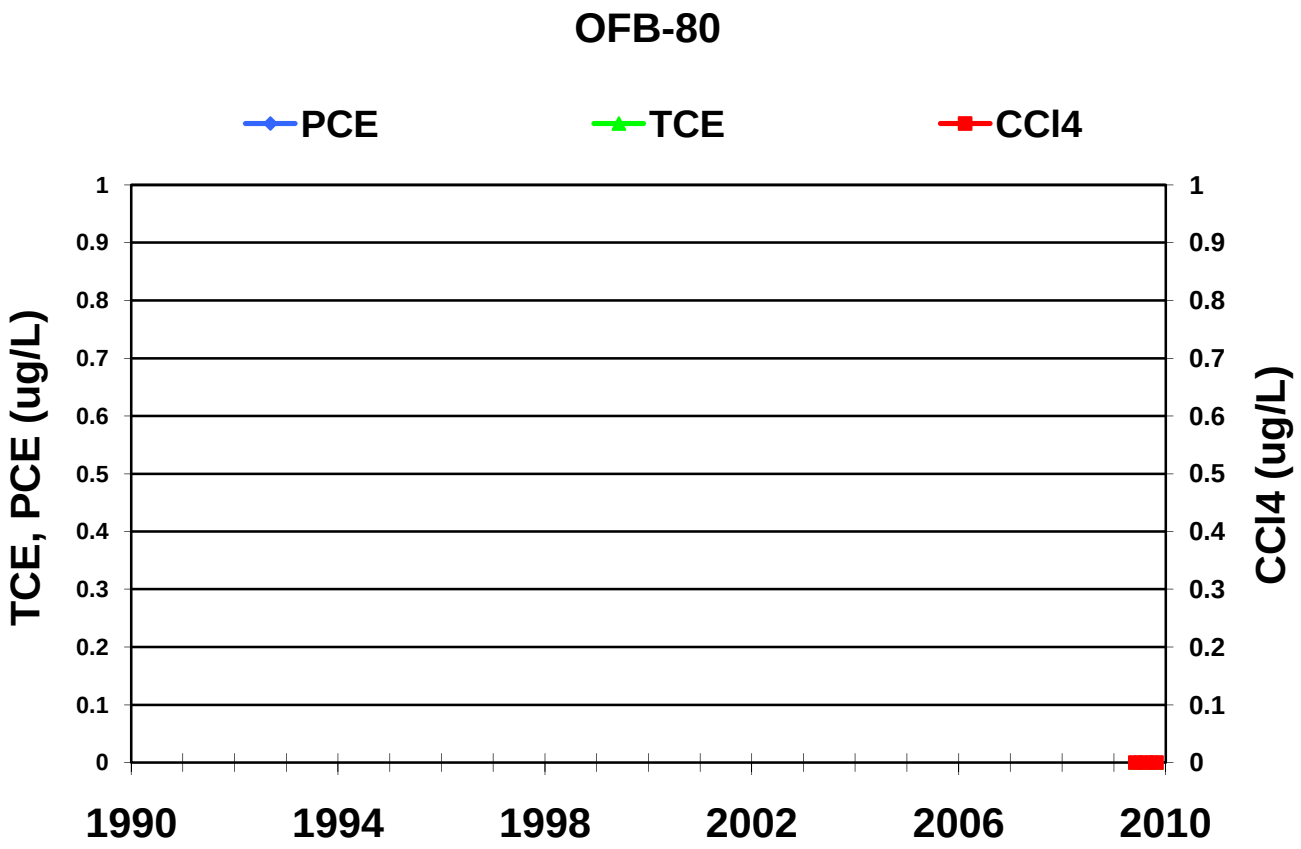

OFB-75
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-76
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-77
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-78
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-79
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-80
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
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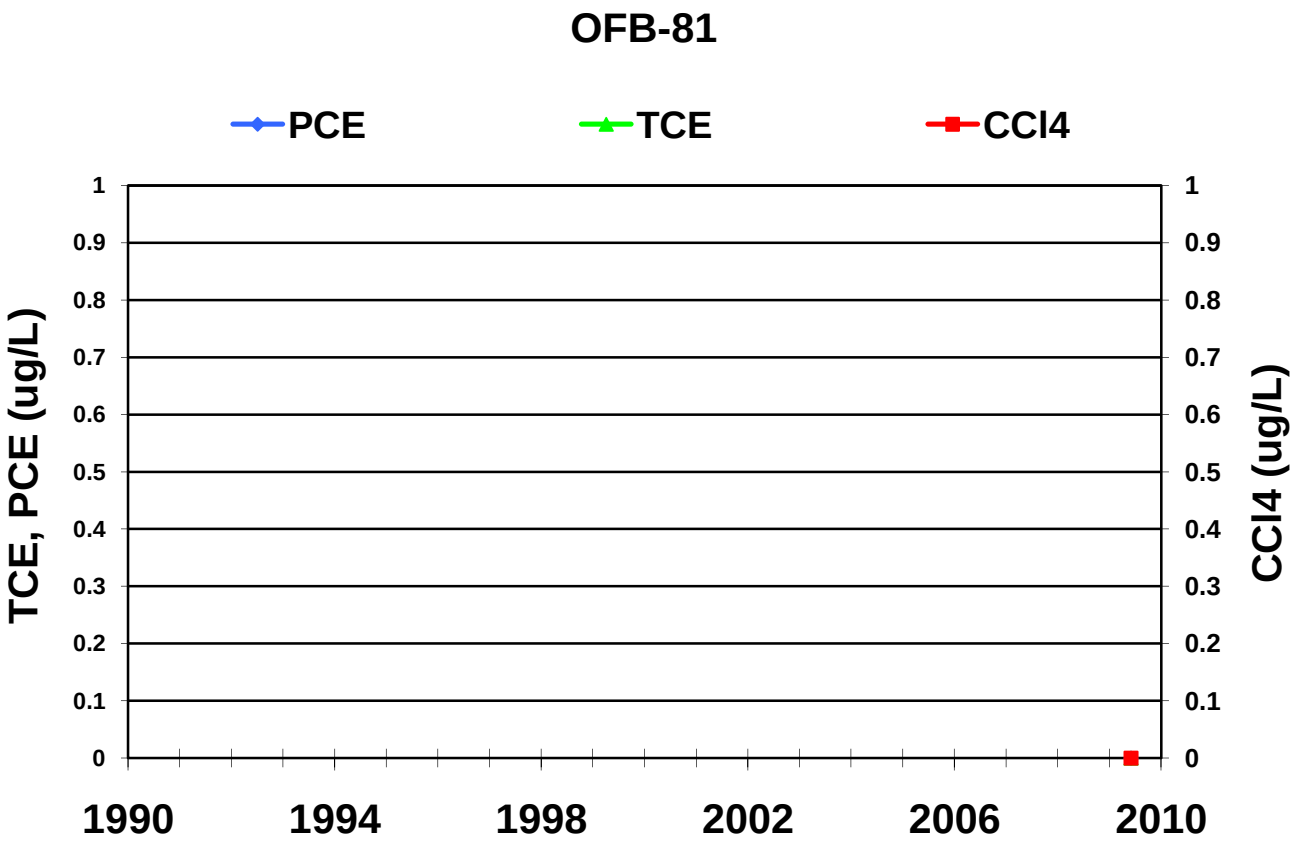
1994
1998
2002
2006
2010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PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
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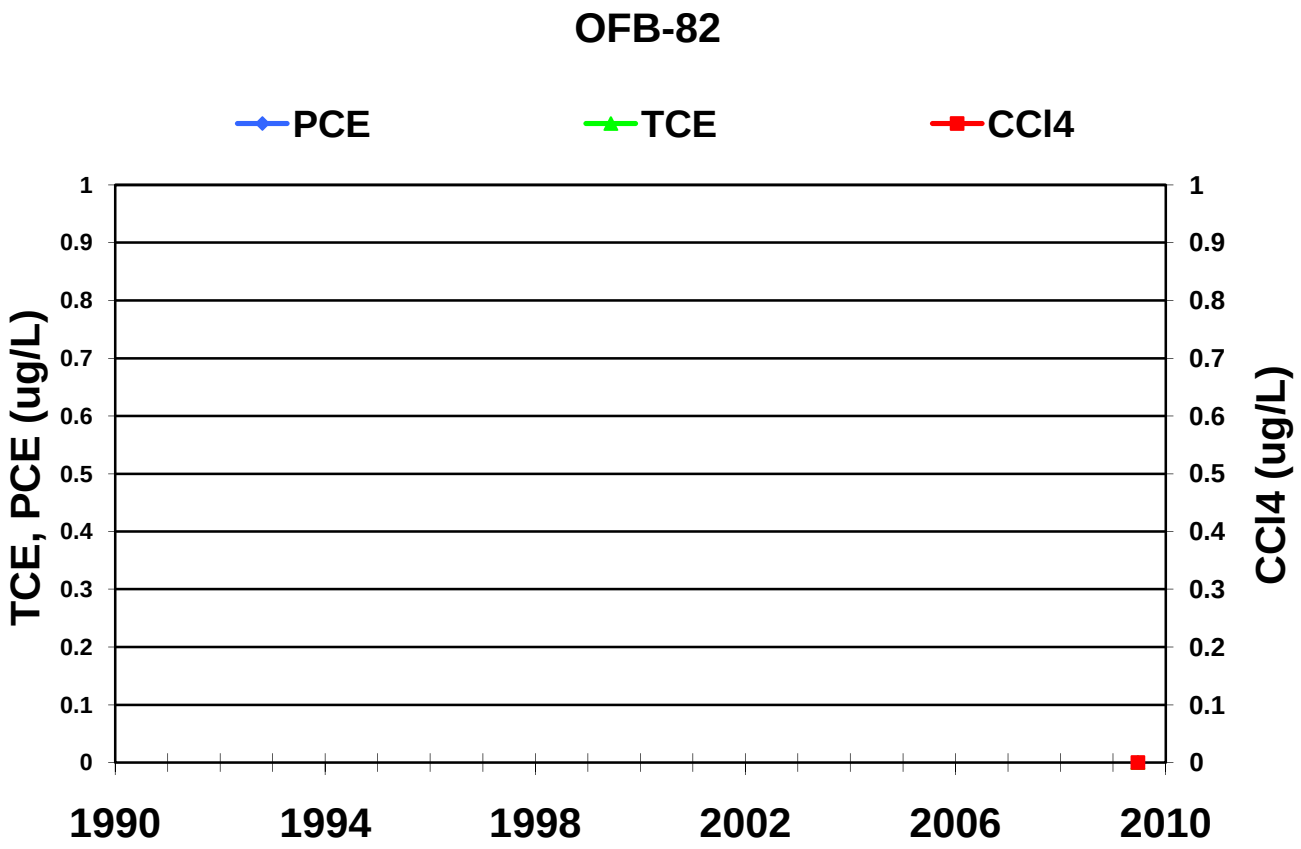
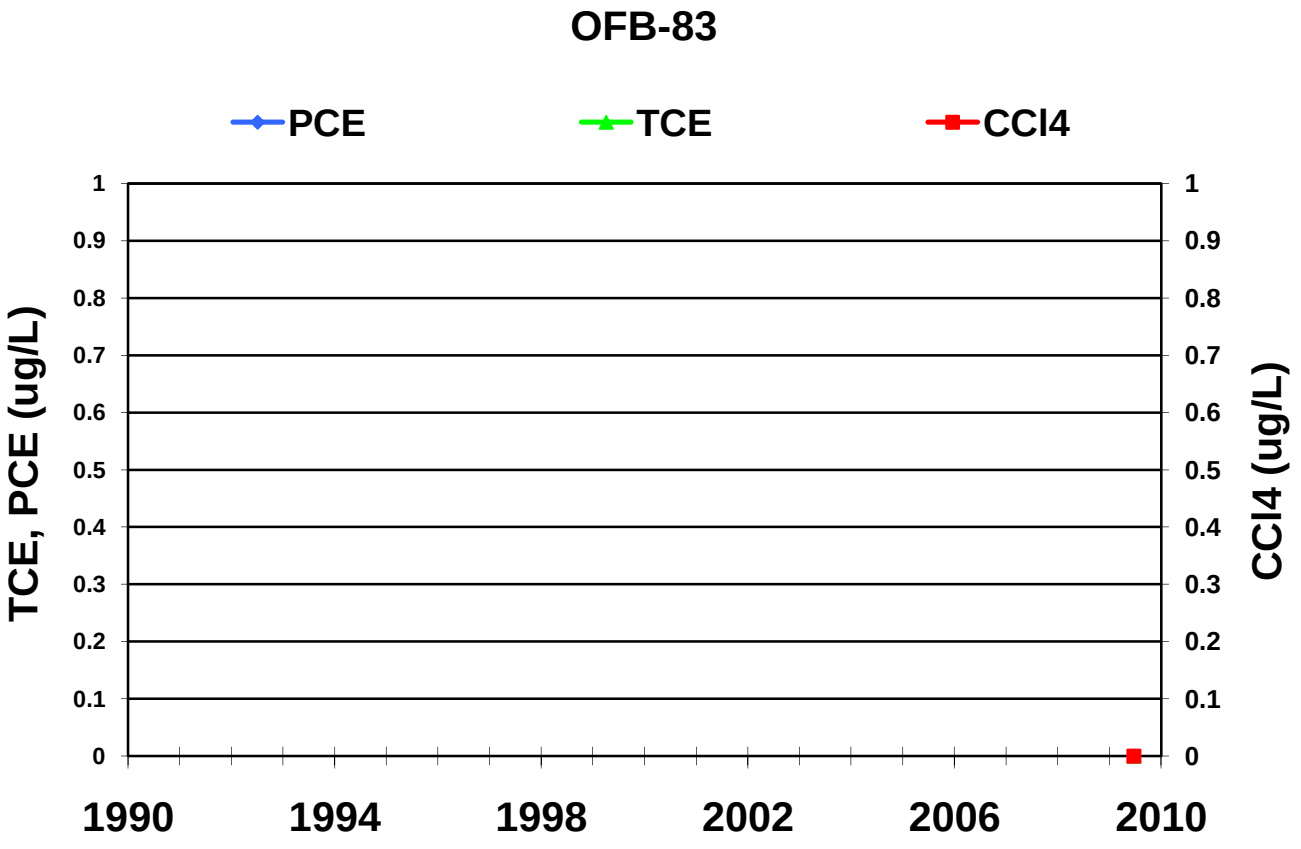
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010


OFB-82
PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010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TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
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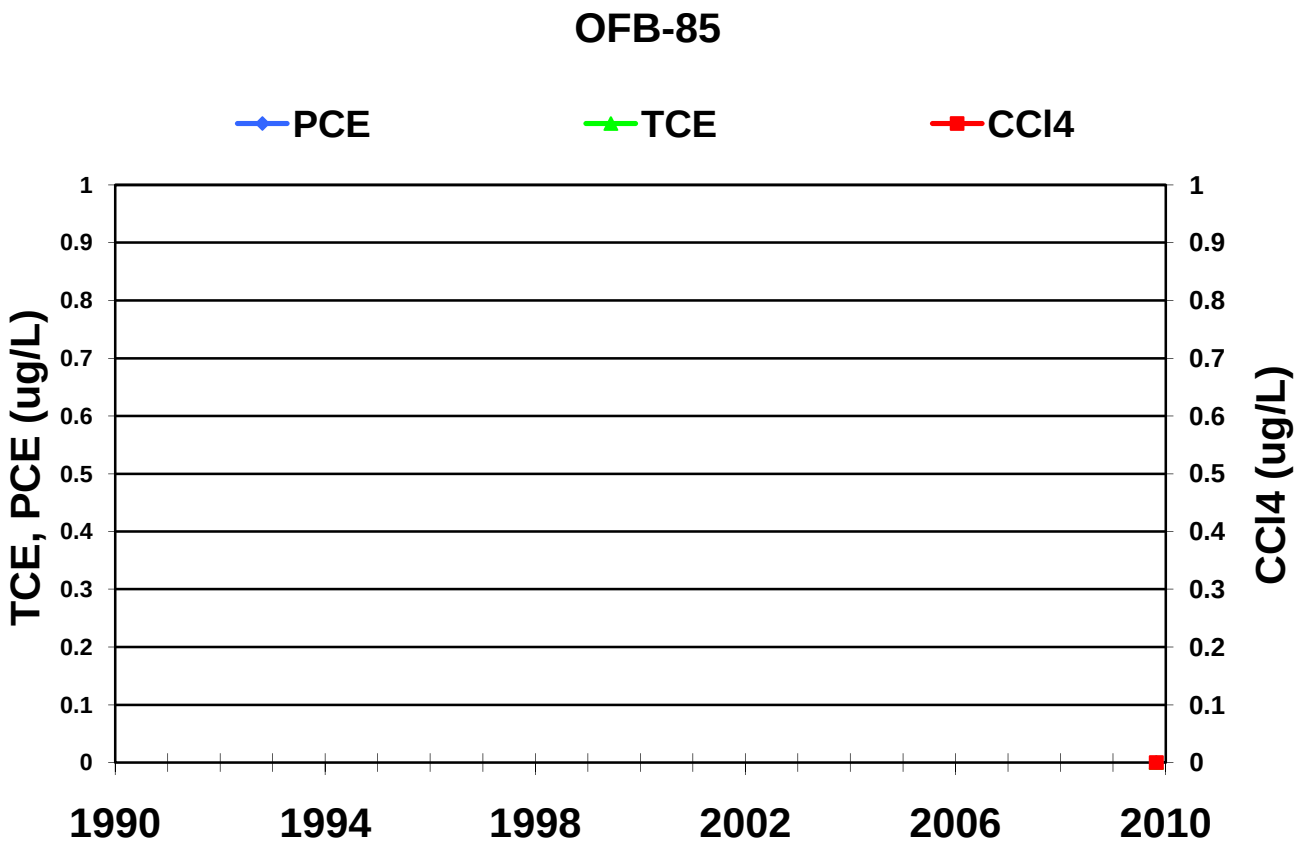
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010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PCE
TCE
CCl4
TCE, PCE (ug/L)
CCl4 (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1990
1994
1998
2002
2006
2010

APPENDIX D

MAIN BASE/SAC AREA, AC&W, AND SITE 7 PLUME TREATMENT PLANT AIR STRIPPERS: COMPLIANCE WITH AIR EMISSIONS STANDARDS

APPENDIX D
MAIN BASE/STRATEGIC AIR COMMAND AREA, AIRCRAFT CONTROL AND WARNING, AND SITE 7 PLUME TREATMENT PLANT AIR STRIPPERS: COMPLIANCE WITH AIR EMISSIONS STANDARDS

The following materials are provided in this appendix:

- Letter from the AFRPA to Sacramento Metropolitan Air Quality Management District (SMAQMD), dated 26 January 2004
- Table D-1, Emission Standard Compliance for the Main Base/SAC Area Plume Treatment System
- Table D-2, Emission Standard Compliance for the AC&W Treatment System
- Table D-3, Emission Standard Compliance for the Site 7 Treatment System

Tables D-1, D-2, and D-3 illustrate that the Main Base/SAC Area, AC&W Site, and the Site 7 groundwater treatment systems were in compliance with emission mass standards during 2009.

DEPARTMENT OF THE AIR FORCE
AIR FORCE REAL PROPERTY AGENCY

RECEIVED
FEB 2004
MONTGOMERY WATSON
FIELD OFFICE

26 Jan 2004

MEMORANDUM FOR Sacramento Metropolitan Air Quality Management District
Attn: Loni Adams
777 12th Street, 3rd Floor
Sacramento, California 95814-1908

FROM: AFRPA/DD-McClellan
3411 Olson Street, Room 105
McClellan, CA 95652

SUBJECT: Discontinuation of Air Emissions Risk Calculations for Mather Groundwater Treatment Systems

1. As requested in the meeting on July 17, 2003 between the Air Force, MWH, and SMAQMD, MWH has provided monthly air emission risk calculations for the two operating groundwater treatment systems at Mather for a three-month period (September through November 2003). Based on the calculations presented for the three-month period, the cancer risk calculated for both residential and commercial receptors from the Main Base/SAC Area and the AC&W groundwater treatment systems did not exceed $1x10^{-6}$, and are therefore consistent with the requirements of Rule 402, both by SMAQMD policy and implementing regulations of CERCLA found at 40 CFR 300.

2. With respect to the mass of ROCs emitted, the AC&W system operates under substantive requirements of the February 26, 1991, revision of Rule 202, which requires best available control technology (BACT) for all reactive organic compound emissions. At the low mass of emissions from the AC&W, SMAQMD has interpreted that emissions from the AC&W system comply with the BACT requirement without requiring treatment or capture of the ROCs, because the addition of physical emissions treatment would not be cost effective. The Main Base/SAC Area system operates under substantive requirements of the April 4, 1996 revision of Rule 202, and emits less than 10 pounds per day, which is in compliance with Section 301, Best Available Control Technology. A table is provided herein to summarize the amount of ROCs emitted in pounds per day (lbs/day) by the systems and the cumulative incremental lifetime cancer risks calculated from September through November 2003: The two risk numbers represent the estimated risk to residential receptors and commercial receptors, respectively.

3. Based on the operational data evaluated from September through November 2003 and consistent influent concentrations from both treatment systems, I anticipate the groundwater treatment systems to continue to comply with the following:

- The total reactive organic compounds (ROCs) emitted by the systems will be less than 10 lbs/day (Rule 202, Section 301, Best Available Control Technology, BACT); and
- The cancer risks will not exceed $1x10^{-6}$ (Rule 402).

	September '03		October '03		November '03	
	ROCs emitted (lbs/day)	Cumulative Cancer Risks[a]	ROCs emitted (lbs/day)	Cumulative Cancer Risks[a]	ROCs emitted (lbs/day)	Cumulative Cancer Risks[a]
AC&W	0.02	$4x10^{-9}$, $7x10^{-9}$	0.02	$2x10^{-9}$, $4x10^{-9}$	0.02	$2x10^{-9}$, $3x10^{-9}$
MBS/SAC	0.83	$2x10^{-7}$, $2x10^{-7}$	0.82	$2x10^{-7}$, $2x10^{-7}$	0.78	$1x10^{-7}$, $2x10^{-7}$

[a] First risk represents cancer risk for residential receptor and the second one denotes risk for commercial receptor

4. With your concurrence, MWH will discontinue the calculations and reporting of monthly air emissions for the AC&W and Main Base/SAC Area groundwater treatment systems. Treatment system flow rates and influent concentrations will continue to be provided in the quarterly groundwater monitoring reports, and compared to benchmark values used in the risk calculations. Should any of the input parameters used in the risk calculations deviate significantly during the operation of the treatment systems, the risk calculations will be performed.

5. Please note that the Site 7 groundwater treatment system has not been operational since April 2003 because of gravel mining in the area; therefore, we have not provided calculations for this system. We will provide these calculations accordingly when the system resumes operation, anticipated to occur in 2004.

6. If you have any questions or concerns regarding this action item list please contact Bill Hughes, CSC, at (916) 364-4007.

ANTHONY C. WONG
BRAC Environmental Coordinator

cc:
AFCEE/ERB, Attn: Stanley Pehl
AFCEE/ERB, Attn: Paul Bernheisel
CA DTSC, Attn: Tami Trearse
CA CVRWQCB, Attn: Karen Bessette
CSC, Attn: Bill Hughes
MWH, Attn: John Scott
MWH, Attn: Todd Daniels
MWH, Attn: Dean Thomas
MWH, Attn: Billy Wong
U.S. EPA Region IX, Attn: Carmen White (SFD-8-1)

TABLE D-1

EMISSION STANDARD COMPLIANCE
FOR THE PHASE IV MAIN BASE/SAC TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

	Average Incremental Treatment Rate	Trichloroethene (TCE)				Tetrachloroethene (PCE)				Carbon Tetrachloride (CCl_4)				[a] 1,1-Dichloroethene (1,1-DCE)				ROC
		Influent Concentration		Mass of TCE Removed		Influent Concentration		Mass of PCE Removed		Influent Concentration		Mass of CCl_4 Removed		Influent Concentration		Mass of 1,1-DCE Removed		
Date	(gpm)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	(lbs/day)
9/11/2003	1,520	14	14	3.5	0.2	31	29	7.4	0.5	1.4	1.4	0.4	0.03	0.64	0.5	0.1	0.01	0.74
9/23/2003	1,540	12	13	2.9	0.2	31	31	6.9	0.6	1.3	1.4	0.3	0.02	0.48	0.6	0.1	0.01	0.85
10/9/2003	1,531	14	13	3.8	0.2	30	31	9.0	0.6	1.7	1.5	0.4	0.03	0.51	0.5	0.1	0.01	0.84
10/23/2003	1,441	13	14	3.3	0.2	31	31	7.4	0.5	1.5	1.6	0.4	0.03	0.53	0.5	0.1	0.01	0.80
11/6/2003	1,555	12	13	3.3	0.2	27	29	7.6	0.5	1.5	1.5	0.4	0.03	0.49	0.5	0.1	0.01	0.81
11/20/2003	1,482	12	12	3.0	0.2	28	28	6.9	0.5	1.5	1.5	0.4	0.03	0.47	0.5	0.1	0.01	0.74
12/4/2003	1,448	13	13	3.0	0.2	31	30	7.2	0.5	1.7	1.6	0.4	0.03	0.51	0.5	0.1	0.01	0.77
12/18/2003	1,424	12	13	3.0	0.2	28	30	7.1	0.5	1.6	1.7	0.4	0.03	0.58	0.5	0.1	0.01	0.76
12/30/2003	1,455	8	10	2.1	0.2	29	29	6.0	0.5	1.6	1.6	0.3	0.03	0.30	0.4	0.1	0.01	0.71
1/15/2004	1,407	13	11	2.8	0.2	30	30	8.0	0.5	1.5	1.6	0.4	0.03	0.42	0.4	0.1	0.01	0.71
1/29/2004	1,375	13	13	3.0	0.2	32	31	7.2	0.5	1.9	1.7	0.4	0.03	0.48	0.5	0.1	0.01	0.76
2/12/2004	1,467	12	13	3.1	0.2	25	29	7.0	0.5	1.4	1.7	0.4	0.03	0.46	0.5	0.1	0.01	0.76
2/26/2004	1,185	12	12	2.4	0.2	28	27	5.3	0.4	1.5	1.5	0.3	0.02	0.49	0.5	0.1	0.01	0.58
3/11/2004	1,391	8	10	2.3	0.2	53	41	9.5	0.7	1.2	1.4	0.3	0.02	0.075	0.3	0.1	0.00	0.87
3/25/2004	1,372	13	10	2.4	0.2	29	41	9.5	0.7	1.7	1.5	0.3	0.02	0.46	0.3	0.1	0.00	0.88
4/8/2004	1,297	11	12	2.6	0.2	25	27	5.9	0.4	1.3	1.5	0.3	0.02	0.45	0.5	0.1	0.01	0.64
4/22/2004	1,402	11	11	2.6	0.2	27	26	6.1	0.4	1.5	1.4	0.3	0.02	0.82	0.6	0.1	0.01	0.66
5/6/2004	1,397	9.6	10	2.4	0.2	24	26	6.0	0.4	1.5	1.5	0.4	0.03	0.49	0.7	0.2	0.01	0.64
5/20/2004	1,500	11	10	2.6	0.2	24	24	6.1	0.4	1.6	1.6	0.4	0.03	0.46	0.5	0.1	0.01	0.66
6/3/2004	1,358	11	11	2.5	0.2	23	24	5.4	0.4	1.5	1.6	0.4	0.03	0.45	0.5	0.1	0.01	0.60
6/17/2004	1,418	6	8	2.0	0.1	41	32	7.6	0.5	0.8	1.2	0.3	0.02	0.08	0.3	0.1	0.00	0.71
7/1/2004	1,275	11	8	1.8	0.1	24	33	7.0	0.5	1.5	1.2	0.2	0.02	0.41	0.2	0.1	0.00	0.65
7/29/2004	1,473	10	11	5.2	0.2	24	24	11.9	0.4	1.4	1.5	0.7	0.03	0.29	0.4	0.2	0.01	0.64
8/12/2004	1,396	11	11	2.5	0.2	27	26	6.0	0.4	1.7	1.6	0.4	0.03	0.28	0.3	0.1	0.00	0.63
8/26/2004	1,520	10	11	2.7	0.2	21	24	6.1	0.4	1.7	1.7	0.4	0.03	0.30	0.3	0.1	0.01	0.67
9/9/2004	1,228	10	10	2.0	0.1	18	20	4.0	0.3	1.7	1.7	0.4	0.03	0.42	0.4	0.1	0.01	0.46
9/23/2004	1,462	9	9	2.2	0.2	26	22	5.4	0.4	1.2	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.58
10/7/2004	1,524	10	9	2.2	0.2	27	22	5.4	0.4	1.6	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.69
10/22/2004	1,422	10	9	2.2	0.2	22	22	5.4	0.4	1.4	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.62
11/4/2004	1,429	11	9	2.2	0.2	22	22	5.4	0.4	1.7	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.59
11/18/2004	1,441	10	9	2.2	0.2	25	22	5.4	0.4	1.3	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.62
12/2/2004	1,442	10	9	2.2	0.2	21	22	5.4	0.4	1.3	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.60
12/16/2004	1,457	9	9	2.2	0.2	22	22	5.4	0.4	1.4	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.58
12/30/2004	1,364	9	9	2.2	0.2	21	22	5.4	0.4	1.3	1.5	0.4	0.03	0.33	0.4	0.1	0.01	0.53
1/13/2005	1,531	9	9	2.3	0.2	19	20	5.2	0.4	1.3	1.3	0.3	0.02	0.30	0.4	0.1	0.01	0.57
1/27/2005	1,577	10	9	2.5	0.2	19	19	5.0	0.4	1.6	1.5	0.4	0.03	0.49	0.4	0.1	0.01	0.57
2/10/2005	1,545	7	9	2.3	0.2	19	19	4.9	0.4	1.3	1.5	0.4	0.03	0.28	0.4	0.1	0.01	0.55
2/24/2005	1,549	8	9	2.2	0.1	22	20	5.2	0.2	1.3	1.4	0.4	0.01	0.36	0.4	0.1	0.00	0.28
3/10/2005	1,537	7	8	2.0	0.1	19	21	5.3	0.4	1.2	1.3	0.3	0.02	0.27	0.3	0.1	0.01	0.55
3/24/2005	1,567	9	8	2.1	0.1	26	23	5.9	0.4	1.4	1.3	0.3	0.02	0.08	0.2	0.0	0.00	0.60
4/7/2005	1,504	8	8	2.1	0.1	22	24	6.1	0.4	1.2	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.61
4/21/2005	1,657	8	8	2.2	0.2	25	24	6.6	0.5	1.3	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.65
5/5/2005	1,422	6	7	1.7	0.1	22	24	5.6	0.4	1.2	1.3	0.3	0.02	0.28	0.2	0.0	0.00	0.54
5/20/2005	1,398	7	6	1.6	0.1	19	21	5.2	0.3	1.0	1.1	0.3	0.02	0.45	0.4	0.1	0.01	0.48
6/2/2005	1,792	7	7	1.8	0.1	25	22	6.2	0.5	1.1	1.0	0.3	0.02	0.08	0.3	0.1	0.01	0.64
6/16/2005	1,637	7	7	1.9	0.1	15	20	5.5	0.4	1.0	1.1	0.3	0.02	0.27	0.2	0.0	0.00	0.55
6/30/2005	1,586	8	7	2.0	0.1	22	19	4.9	0.4	1.1	1.1	0.3	0.02	0.25	0.3	0.1	0.00	0.52
07/14/2005	1,400	8	8	1.9	0.1	24	23	5.4	0.4	1.2	1.2	0.3	0.02	0.08	0.2	0.0	0.00	0.54
07/28/2005	1,468	7	7	1.8	0.1	16	20	4.9	0.4	1.1	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.51
08/11/2005	1,562	7	7	1.7	0.1	17	17	4.3	0.3	1.0	1.1	0.3	0.02	0.08	0.1	0.0	0.00	0.45
08/25/2005	1,369	8	7	1.6	0.1	22	20	4.5	0.3	0.9	1.0	0.2	0.02	0.08	0.1	0.0	0.00	0.45
09/08/2005	1,446	9	8	2.0	0.1	26	24	5.8	0.4	1.2	1.1	0.3	0.02	0.08	0.1	0.0	0.00	0.58
09/22/2005	1,440	7	8	1.9	0.1	22	24	5.8	0.4	1.1	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.57
10/6/2005	1,389	10	9	2.0	0.1	23	23	5.3	0.4	1.5	1.3	0.3	0.02	0.34	0.2	0.0	0.00	0.54
10/20/2005	1,273	9	9	2.0	0.1	24	24	5.0	0.4	1.7	1.6	0.3	0.02	0.38	0.4	0.1	0.01	0.53
11/3/2005	1,052	6	7	1.3	0.1	20	22	3.9	0.3	1.5	1.6	0.3	0.02	0.08	0.2	0.0	0.00	0.39
11/17/2005	1,437	5	5	1.3	0.1	21	21	5.0	0.4	1.2	1.4	0.3	0.02	0.08	0.1	0.0	0.00	0.47
12/1/2005	1,385	7	6	1.4	0.1	19	20	4.7	0.3	1.5	1.4	0.3	0.02	0.08	0.1	0.0	0.00	0.46
12/15/2005	1,643	2	5	1.3	0.1	15	17	4.7	0.3	1.0	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.46
12/29/2005	1,674	6	4	1.1	0.1	15	15	4.2	0.3	1.2	1.1	0.3	0.02	0.08	0.1	0.0	0.00	0.40
1/12/2006	1,670	7	6	1.7	0.1	18	17	4.6	0.3	1.1	1.2	0.3	0.02	0.28	0.2	0.0	0.00	0.48
1/26/2006	1,668	6	6	1.8	0.1	15	17	4.6	0.3	1.1	1.1	0.3	0.02	0.32	0.3	0.1	0.01	0.49
2/9/2006	1,663	7	7	1.8	0.1	17	16	4.5	0.3	1.5	1.3	0.4	0.03	0.34	0.3	0.1	0.01	0.48
2/23/2006	1,659	7	7	1.9	0.1	17	17	4.7	0.3	1.2	1.4	0.4	0.03	0.39	0.4	0.1	0.01	0.51
3/9/2006	1,650	7	7	1.8	0.1	17	17	4.7	0.3	1.3	1.3	0.3	0.02	0.08	0.2	0.1	0.00	0.50

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TABLE D-1

EMISSION STANDARD COMPLIANCE
FOR THE PHASE IV MAIN BASE/SAC TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

	Average Incremental Treatment Rate	Trichloroethene (TCE)				Tetrachloroethene (PCE)				Carbon Tetrachloride (CCl_4)				[a] 1,1-Dichloroethene (1,1-DCE)				ROC
		Influent Concentration		Mass of TCE Removed		Influent Concentration		Mass of PCE Removed		Influent Concentration		Mass of CCl_4 Removed		Influent Concentration		Mass of 1,1-DCE Removed		
Date	(gpm)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	Measured (µg/L)	Average (µg/L)	Incremental (lbs)	Per Day (lbs/day)	(lbs/day)
3/23/2006	1,535	7	7	1.7	0.1	19	18	4.6	0.3	1.3	1.3	0.3	0.02	0.29	0.2	0.0	0.00	0.48
4/6/2006	1,562	6	6	1.7	0.1	16	18	4.6	0.3	1.2	1.3	0.3	0.02	0.27	0.3	0.1	0.01	0.48
4/20/2006	1,628	6	6	1.6	0.1	15	16	4.2	0.3	1.1	1.2	0.3	0.02	0.08	0.2	0.0	0.00	0.44
5/4/2006	1,482	7	6	1.5	0.1	20	18	4.4	0.3	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.44
5/18/2006	1,535	6	6	1.6	0.1	16	18	4.6	0.3	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.47
6/1/2006	1,593	6	6	1.6	0.1	13	15	3.9	0.3	1.6	1.4	0.4	0.03	0.53	0.3	0.1	0.01	0.42
6/15/2006	1,434	7	7	1.6	0.1	20	17	4.0	0.3	1.5	1.6	0.4	0.03	0.58	0.6	0.1	0.01	0.43
6/29/2006	1,617	6	7	1.8	0.1	16	18	4.9	0.3	0.9	1.2	0.3	0.02	0.08	0.3	0.1	0.01	0.51
7/13/2006	1,592	7	7	1.8	0.1	18	17	4.6	0.3	1.8	1.4	0.4	0.03	0.31	0.2	0.1	0.00	0.48
7/27/2006	1,432	5	6	1.5	0.1	14	16	3.9	0.3	0.9	1.4	0.3	0.02	0.08	0.2	0.0	0.00	0.42
8/10/2006	1,437	8	7	1.6	0.1	19	17	4.0	0.3	1.8	1.4	0.3	0.02	0.42	0.2	0.1	0.00	0.44
8/24/2006	1,547	6	7	1.8	0.1	13	16	4.2	0.3	1.5	1.7	0.4	0.03	0.08	0.2	0.1	0.00	0.47
9/7/2006	1,609	8	7	1.9	0.1	17	15	4.1	0.3	1.7	1.6	0.4	0.03	0.43	0.3	0.1	0.00	0.45
9/21/2006	1,580	6	7	1.8	0.1	14	16	4.1	0.3	1.3	1.5	0.4	0.03	0.08	0.3	0.1	0.00	0.33
10/5/2006	1,571	7	6	1.6	0.1	16	15	4.0	0.3	1.7	1.5	0.4	0.03	0.08	0.1	0.0	0.00	0.58
10/19/2006	1,437	4	5	1.3	0.1	13	15	3.5	0.3	1.2	1.5	0.4	0.03	0.08	0.1	0.0	0.00	0.28
11/2/2006	1,493	6	5	1.2	0.1	14	14	3.4	0.2	1.4	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.27
11/16/2006	1,483	6	6	1.4	0.1	14	14	3.5	0.2	1.2	1.3	0.3	0.02	0.08	0.1	0.0	0.00	0.27
11/30/2006	1,535	5	5	1.4	0.1	12	13	3.4	0.2	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.26
12/14/2006	1,581	5	5	1.4	0.1	12	12	3.2	0.2	1.2	1.2	0.3	0.02	0.08	0.1	0.0	0.00	0.25
12/28/2006	1,444	10	8	1.9	0.1	26	19	4.6	0.3	2.4	1.8	0.4	0.03	0.96	0.5	0.1	0.01	0.37
1/11/2007	1,328	9	9	2.1	0.1	18	22	4.9	0.4	1.0	1.7	0.4	0.03	0.36	0.7	0.1	0.01	0.54
1/25/2007	1,432	5	7	1.6	0.1	15	17	4.0	0.3	1.2	1.1	0.3	0.02	0.08	0.2	0.1	0.00	0.42
2/8/2007	1,589	6	6	1.5	0.1	20	18	4.7	0.3	1.4	1.3	0.3	0.02	0.34	0.2	0.1	0.00	0.47
2/22/2007	1,518	5	5	1.4	0.1	13	17	4.2	0.3	1.2	1.3	0.3	0.02	0.08	0.2	0.1	0.00	0.43
4/19/2007	1,490	5	5	4.5	0.1	13	13	13.0	0.2	1.0	1.1	1.1	0.02	0.08	0.1	0.1	0.00	0.32
7/12/2007	1,289	4	4	5.2	0.1	13	13	16.9	0.2	2.2	1.6	2.1	0.02	0.08	0.1	0.1	0.00	0.29
10/18/2007	1,329	6	5	7.2	0.1	16	15	22.7	0.2	1.0	1.6	2.5	0.03	0.08	0.1	0.1	0.00	0.33
1/10/2008	1,232	3	4	5.1	0.1	17	17	20.5	0.2	1.0	1.0	1.2	0.01	0.08	0.1	0.1	0.00	0.31
4/17/2008	1,222	4	3	4.7	0.0	13	15	21.6	0.2	1.2	1.1	1.6	0.02	0.08	0.1	0.1	0.00	0.29
7/10/2008	1,035	7	5	5.6	0.1	11	12	12.5	0.1	0.9	1.0	1.1	0.01	0.08	0.1	0.1	0.00	0.23
10/30/2008	923	4	5	6.7	0.1	11	11	13.7	0.1	0.9	0.9	1.1	0.01	0.08	0.1	0.1	0.00	0.19
2/4/2009	1,469	3	4	6.3	0.1	11	11	18.8	0.2	1.0	0.9	1.6	0.02	0.08	0.1	0.1	0.00	0.28
4/16/2009	1,632	4	4	5.4	0.1	9	10	14.2	0.2	0.5	0.7	1.0	0.01	0.08	0.1	0.1	0.00	0.29
7/23/2009	1,712	5	5	9.2	0.1	10	9	19.1	0.2	0.9	0.7	1.4	0.01	0.05	0.1	0.1	0.00	0.30
10/15/2009	1,675	4	4	7.4	0.1	10	10	16.1	0.2	1.3	1.1	1.8	0.02	0.05	0.1	0.1	0.00	0.30
Average Values [a] =	**1674.9**	**4.1**				**9.6**				**1.3**				**0.1**				**0.3**
Air Emission Standards [b]:	**1465.0**	**12.0**				**27.5**				**1.5**				**NA**				**10**

Notes:
µg/L - micrograms per liter
gpm - gallons per minute
lbs - pounds
lbs/day - pounds per day
VOC - volatile organic compounds
ROC - Reactive organic compounds. Calculated from adding results from VOC detected compounds (included in this table) above PQLs
PCE - tetrachloroethene
TCE - trichloroethene
1,1-DCE - 1,1-dichloroethene. * This compound is not identified as carcinogenic and therefore is not included in TBACT calculations
CCl_4 - carbon tetrachloride.
[a] Average Values based on current quarterly data.
[b] Air Emission Standards based on calculations of excess cancer risk (Rule 402, TBACT) and ROC (Rule 202 BACT) presented to the Sacramento Metropolitan Air Quality Management District in a letter dated December 29, 2003.

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TABLE D-2

EMISSION STANDARD COMPLIANCE FOR THE AC&W TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Date	Average Incremental Treatment rate (gpm)	Air Stripper Influent TCE Concentration (mg/L)	Average Influent TCE Concentration (mg/L)	Mass Removed (lbs)	Average Mass Removal Rate (lbs per day)
12/18/03	181	21	19.5	0.567	0.041
12/30/03	142	18	19.5	0.497	0.041
1/23/04	168	16	17	0.889	0.037
2/18/04	151	19	17.5	0.908	0.035
3/04/04	157	17	18	0.490	0.033
3/18/04	169	18	17.5	0.505	0.036
4/1/04	168	19	18.5	0.531	0.038
4/9/04	168	17	18	0.291	0.036
4/23/04	168	17	17	0.481	0.034
5/7/04	167	16	16.5	0.465	0.033
5/21/04	171	17	16.5	0.475	0.034
6/4/04	187	18	17.5	0.551	0.039
6/18/04	187	15	16.5	0.519	0.037
7/2/04	186	15	15	0.469	0.034
7/30/04	186	17	16	1.000	0.036
8/13/04	186	18	17.5	0.546	0.039
8/27/04	185	18	18	0.561	0.040
9/10/04	176	15	16.5	0.490	0.035
9/24/04	184	15	15	0.463	0.033
10/8/04	183	15	15	0.462	0.033
10/22/04	183	14	14.5	0.446	0.032
11/5/04	183	14	14	0.430	0.031
11/9/04	165	15	14.5	0.403	0.101
12/3/04	180	16	15.5	0.469	0.020
2/10/05	168	14	15	2.086	0.030
4/21/05	178	13	13.5	2.024	0.029
7/28/05	178	12	12.5	2.623	0.027
10/20/05	163	11	11.5	1.897	0.023
1/26/06	180	12	11.5	2.438	0.025
4/20/06	188	11	11.5	2.179	0.026
7/27/06	182	11	11	2.353	0.024
10/19/06	187	12	11.5	2.170	0.026
1/25/07	186	12	12	2.631	0.027
4/19/07	172	18	15	2.601	0.031
7/12/07	163	8.1	13.05	2.154	0.026
10/18/07	175	9.5	8.8	1.812	0.018
1/10/08	192	8.2	8.85	1.712	0.020
4/17/08	190	6.9	7.55	1.693	0.017
7/10/08	195	7.4	7.15	1.408	0.017
10/30/08	176	6.3	6.85	1.624	0.014
2/4/09	174	5.8	6.05	1.229	0.013
4/16/09	190	5.6	5.7	0.925	0.013
7/23/09	184	6.9	6.25	1.354	0.014
10/15/09	169	6	6.45	1.103	0.013
Input parameters used in the risk calculations	188		18.5		

Notes:

Average Incremental Treatment rate was calculated using SCADA data

µg/L - micrograms per liter

TABLE D-2

EMISSION STANDARD COMPLIANCE FOR THE AC&W TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Date	Average Incremental Treatment rate (gpm)	Air Stripper Influent TCE Concentration (mg/L)	Average Influent TCE Concentration (mg/L)	Mass Removed (lbs)	Average Mass Removal Rate (lbs per day)

lbs - pounds
lbs/day - pounds per day
TCE - trichloroethene

TABLE D-3

EMISSION STANDARD COMPLIANCE FOR THE SITE 7 TREATMENT SYSTEM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Date	Average Incremental Treatment rate (gpm)	Trichloroethene (TCE) Influent Concentration Measured (µg/L)	TCE Influent Concentration Average (µg/L)	Mass of TCE Removed Incremental (lbs)	Mass of TCE Removed Per Day (lbs/day)	Tetrachloroethene (PCE)[c] Influent Concentration Measured (µg/L)	PCE Influent Concentration Average (µg/L)	Mass of PCE Removed Incremental (lbs)	Mass of PCE Removed Per Day (lbs/day)	cis-1,2-Dichloroethene (cis-1,2-DCE) Influent Concentration Measured (µg/L)	cis-1,2-DCE Influent Concentration Average (µg/L)	Mass of PCE Removed Incremental (lbs)	Mass of PCE Removed Per Day (lbs/day)	Total VOCs (lbs/day)	ROC[c] (lbs/day)
4/11/2002	-	21	28	0.33	0.020	2.3	4.0	0.05	0.003	1.4	1.4	0.02	0.001	0.023	0.021
4/26/2002	52	29	25	0.23	0.015	3.3	2.8	0.03	0.002	2.0	1.7	0.02	0.001	0.018	0.017
5/9/2002	52	26	28	0.22	0.017	3.0	3.2	0.03	0.002	1.8	1.9	0.02	0.001	0.020	0.018
5/23/2002	47	24	25	0.20	0.014	3.0	3.0	0.02	0.002	1.9	1.9	0.01	0.001	0.017	0.015
6/6/2002	51	27	26	0.22	0.016	3.2	3.1	0.03	0.002	1.9	1.9	0.02	0.001	0.019	0.017
6/20/2002	38	28	28	0.17	0.012	3.5	3.4	0.02	0.002	2.2	2.1	0.01	0.001	0.015	0.013
7/2/2002	35	26	27	0.14	0.011	3.1	3.3	0.02	0.001	1.9	2.1	0.01	0.001	0.014	0.012
7/17/2002	30	28	27	0.15	0.010	3.5	3.3	0.02	0.001	2.0	2.0	0.01	0.001	0.012	0.010
8/1/2002	53	27	28	0.26	0.018	3.6	3.6	0.03	0.002	2.0	2.0	0.02	0.001	0.021	0.019
8/15/2002	45	26	27	0.20	0.014	3.1	3.4	0.03	0.002	2.0	2.0	0.02	0.001	0.017	0.015
8/29/2002	43	27	27	0.19	0.014	3.5	3.3	0.02	0.002	1.5	1.8	0.01	0.001	0.016	0.015
9/12/2002	54	27	27	0.24	0.017	3.1	3.3	0.03	0.002	1.9	1.7	0.02	0.001	0.021	0.019
9/26/2002	50	33	30	0.25	0.018	3.8	3.5	0.03	0.002	2.2	2.1	0.02	0.001	0.021	0.019
10/10/2002	46	30	32	0.24	0.017	3.6	3.7	0.03	0.002	1.9	2.1	0.02	0.001	0.021	0.019
10/23/2002	39	30	30	0.18	0.014	3.9	3.8	0.02	0.002	1.7	1.8	0.01	0.001	0.017	0.015
11/7/2002	54	27	29	0.27	0.018	3.5	3.7	0.04	0.002	1.9	1.8	0.02	0.001	0.022	0.019
11/22/2002	40	34	31	0.22	0.015	3.8	3.7	0.03	0.002	2.1	2.0	0.01	0.001	0.017	0.016
12/5/2002	58	31	33	0.29	0.023	4.0	3.9	0.04	0.003	2.1	2.1	0.02	0.001	0.027	0.024
12/19/2002	47	30	31	0.24	0.017	4.0	4.0	0.03	0.002	2.0	2.1	0.02	0.001	0.021	0.019
1/2/2003	52	30	30	0.26	0.019	4.1	4.1	0.04	0.003	2.0	2.0	0.02	0.001	0.022	0.020
1/15/2003	52	29	30	0.24	0.018	3.4	3.8	0.03	0.002	1.9	2.0	0.02	0.001	0.022	0.020
1/29/2003	52	31	30	0.26	0.019	3.7	3.6	0.03	0.002	2.1	2.0	0.02	0.001	0.022	0.020
2/27/2003	51	32	31	0.56	0.019	4.7	4.2	0.07	0.003	2.1	2.1	0.04	0.001	0.023	0.020
3/13/2003	52	31	32	0.28	0.020	3.7	4.2	0.04	0.003	0.075	1.1	0.01	0.001	0.023	0.020
3/27/2003	52	30	31	0.27	0.019	3.9	3.8	0.03	0.002	2.2	1.1	0.01	0.001	0.022	0.020
4/10/2003	52	34	32	0.28	0.020	3.9	3.9	0.03	0.002	2.1	2.2	0.02	0.001	0.024	0.021
12/18/2006	-	44	39	0.35	0.000	6.2	5.1	0.05	0.000	2.0	2.1	0.02	0.000	0.000	0.000
12/19/2006	96	49	47	0.05	0.054	6.0	6.1	0.01	0.007	2.0	2.0	0.00	0.002	0.063	0.056
12/20/2006	96	55	52	0.06	0.060	6.6	6.3	0.01	0.007	2.2	2.1	0.00	0.002	0.070	0.063
12/28/2006	96	83	69	0.64	0.079	11.0	8.8	0.08	0.010	3.9	3.1	0.03	0.004	0.093	0.083
1/4/2007	86	38	61	0.44	0.063	5.5	8.3	0.06	0.009	2.1	3.0	0.02	0.003	0.074	0.066
1/11/2007	96	39	39	0.31	0.044	5.5	5.5	0.04	0.006	2.1	2.1	0.02	0.002	0.053	0.047
1/25/2007	63	41	40	0.42	0.030	5.9	5.7	0.06	0.004	2.2	2.2	0.02	0.002	0.036	0.032
2/22/2007	97	29	29	0.48	0.034	4.3	4.0	0.07	0.005	1.6	1.6	0.03	0.002	0.041	0.036
4/19/2007	97	63	46	3.00	0.054 #	7.5	5.9 #	0.38	0.007 #	3.7	2.7 #	0.17	0.003 #	0.064 #	0.057
7/12/2007	88	24	44	3.88	0.046 #	3.4	5.5 #	0.49	0.006 #	1.4	2.6 #	0.23	0.003 #	0.055 #	0.049
10/18/07	92	22	23	2.49	0.025 0	3.3	3.4 3	0.36	0.004 3	1.5	1.5 2	0.16	0.002 0	0.031 0	0.027
1/10/08	84	17	20	1.65	0.020	3	3.0	0.27	0.003	0.7	1.1	0.09	0.001	0.024	0.021
4/17/08	71	25	21	1.75	0.018	3.3	3.2	0.26	0.003	1.7	1.2	0.10	0.001	0.022	0.019
8/7/08	58	24	25	1.91	0.017	3.3	3.7	0.26	0.002	2.2	2.0	0.15	0.001	0.021	0.021
10/30/08	71	17	21	1.47	0.017	2	3.0	0.19	0.002	1.4	1.8	0.13	0.002	0.021	0.021
2/04/09	58	7	12	0.79	0.008	1.4	1.7	0.11	0.001	0.26	0.8	0.06	0.001	0.010	0.010
4/16/09	68	17	12	0.68	0.010	2.3	1.9	0.11	0.002	1.4	0.8	0.05	0.001	0.012	0.012
7/23/09	75	22	20	1.71	0.017	2.7	2.5	0.22	0.002	1.9	1.7	0.14	0.001	0.021	0.021
10/15/09	67	21	22	1.45	0.017	2.8	2.8	0.19	0.002	1.5	1.7	0.11	0.001	0.021	0.021
Average Values [a] =	66.8	21.0				2.8				1.5				0.021	0.021
Air Emission Standards[b] :	250	150				30				NA				10	10

Notes:
gpm - gallons per minute
µg/L - micrograms per liter
lbs - pounds
lbs/day - pounds per day
NA - not applicable
VOC - volatile organic compounds
ROC - Reactive organic compounds. Calculated from adding results from VOC detected compounds (included in this table) above PQLs. Does not include PCE as PCE is not regulated as an ROC.

PCE - tetrachloroethene
TCE - trichloroethene
1,2-DCE - 1,2-dichloroethene
[a] Average Values based on current quarterly data.
[b] Air Emission Standards based on calculations of excess cancer risk (Rule 402, Best Available Control Technology for Toxics [TBACT]) and ROC (Rule 202, Best Available Control Technology [BACT]) presented to the Sacramento Metropolitan Air Quality Management District in a letter dated February 18, 1997.
[c] PCE is not regulated as an ROC

APPENDIX E

FIRST QUARTER 2009 ANALYTICAL DATA

SITEWIDE GROUNDWATER MONITORING

MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

FIRST QUARTER 2009
ANALYTICAL DATA REPORT

Contract FA8903-08-D-8777, Task Order 34
MWH Americas, Inc. File No.: 1951161.
CDRL A001F

Prepared for:
Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas

Prepared by:

MWH Americas, Inc.
AFCEE Full Service Remedial Action Contract Management Office
Walnut Creek, California

April 2010

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1.0 INTRODUCTION

In accordance with Task Order 34, Contract No. FA8903-08-D-8777, MWH Americas, Inc., (MWH; formerly Montgomery Watson) has prepared this First Quarter 2009 Analytical Data Report (ADR) for the Mather and Landfill groundwater sampling, and AC&W, Main Base/SAC area, Site 7, and Off-Base performance monitoring at the former Mather Air Force Base (AFB), California. This ADR provides a tabular summary of the analytical data associated with routine groundwater monitoring samples as well as biweekly and monthly treatment system samples taken from January 8, 2009, through March 31, 2009. The analytical quality control (QC) program used to assess chemical data presented in this ADR is discussed in the Final Basewide Groundwater Monitoring Sampling and Analysis Plan (SAP) (Montgomery Watson, 1997a), the Final AC&W Site Sampling and Analysis Plan (Montgomery Watson, 1997b), the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling (Montgomery Watson, 1997c), the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1 (Montgomery Watson, 2000), and the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling (Montgomery Watson, 1999).

The tables presented in this ADR are grouped to correspond with the outline presented in Appendix A, Tab 6 of the AFCEE Handbook for the Installation Restoration Program (IRP) Remedial Investigations and Feasibility Studies (RI/FS) ("the Handbook") (AFCEE, 1993). The ADR table formats presented in the Handbook have been altered to facilitate more efficient data organization; however, the information presented in this ADR is equivalent to that contained in the table formats suggested by the Handbook. Differences in table format are explained in the text of each individual section. A complete list of all analytical methods utilized for this project is presented in Table 1-1.

Shaded data indicate nonconformances with project control limits.

Unless otherwise noted, all metals data is reported as dissolved metals.

TABLE 1-1

ANALYTICAL METHODS UTILIZED
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Parameter	Method	Matrix
VOCs	USEPA 8260	Water
VOCs	USEPA 524.2	Water
Purgeable TPH as Gasoline	USEPA 8015 Modified	Water
Extractable TPH as Diesel	USEPA 8015 Modified	Water
PAHs	USEPA 8270	Water
ICP Metals	USEPA 6010	Water
Thallium	USEPA 6020	Water
Mercury by Atomic Absorption	USEPA 7470	Water
Thallium by Atomic Absorption	USEPA 7841	Water
Total Alkalinity	SM 2320	Water
Hardness	USEPA 130.2	Water
Total Filterable Residue	USEPA 160.1	Water
Total Suspended Solids	USEPA 160.2	Water
Anions (Chloride, Nitrate, and Sulfate)	USEPA 300.0	Water
Perchlorate	USEPA 314.0	Water
Fluoride	USEPA 340.2	Water
Total Sulfide	USEPA 376.1	Water
Hexavalent Chromium	USEPA 7196	Water

Notes:
ICP - Inductively Coupled Plasma
PAHs - Polynuclear Aromatic Hydrocarbons
SM - Standard Methods, 19th edition
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency
VOCs - Volatile Organic Compounds

2.0 ANALYTICAL RESULTS

The tables presented in this section correspond to Table A-4 of the Handbook (Appendix A, Tab 6).

Table A-4 of the Handbook has been separated into two distinct table types for this report. The Analytical Data Summary (Tables 2-1.1 through 2-1.18) contains the results for all environmental field samples and field sample duplicates. Trip blank sample results are also included in these 18 tables. The Surrogate Percent Recovery Summary (Tables 2-2.1 through 2-2.5) separates surrogate recovery information from all other analytical data.

All results have been subjected to data verification. Results determined to be not detected, but estimated, have been flagged with a "UJ." Results determined to be estimated values have been flagged with a "J." Results considered not usable have been flagged with an "R." Results reported between the method detection limit and the practical quantitation limit have been flagged with an "F." Results determined to have matrix effects have been flagged with an "M." Results for analytes found in associated method or trip blanks, as well as in the associated sample, have been flagged with a "B."

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-PZ-37		7-PZ-37P		7-PZ-37P (FD)		ACW PZ-05	ACW R2	MAFB-132	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		NA	NA	NA	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		NA	NA	NA	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		NA	NA	NA	
1,1-Dichloroethane	2.1	M	2.3	M	2.3	M	NA	NA	NA	
1,1-Dichloroethene	< 0.50		0.34	F	0.37	F	< 0.50	< 0.50	< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		NA	NA	NA	
1,2-Dichloroethane	1.2		< 0.50		< 0.50		< 0.50	< 0.50	0.15	F
1,2-Dichloropropane	0.92	F	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		NA	NA	NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		NA	NA	NA	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		NA	NA	NA	
Bromoform	< 2.0		< 2.0		< 2.0		NA	NA	NA	
Bromomethane	< 10		< 10		< 10		NA	NA	NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		NA	NA	NA	
Chloroethane	< 5.0		< 5.0		< 5.0		NA	NA	NA	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	0.099	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	
cis-1,2-Dichloroethene	0.70		1.3		1.5		< 0.50	< 0.50	21	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		NA	NA	NA	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		NA	NA	NA	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		NA	NA	NA	
Ethylbenzene	< 1.0		< 1.0		< 1.0		NA	NA	NA	
Methylene chloride	< 2.0		< 2.0		< 2.0		NA	NA	NA	
Tetrachloroethene	2.4		4.5		4.6		< 0.50	< 0.50	14	
Toluene	< 1.0		< 1.0		< 1.0		NA	NA	NA	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		NA	NA	NA	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		NA	NA	NA	
Trichloroethene	19		5.9		6.2		0.73	< 0.50	3.9	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		NA	NA	NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		NA	NA	NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-133		MAFB-133 (FD)		MAFB-136		MAFB-149		MAFB-284		MAFB-293	
1,1,1-Trichloroethane	NA		NA		NA		NA		< 1.0		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		< 1.0		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		< 1.0		NA	
1,1-Dichloroethane	NA		NA		NA		NA		< 1.0	M	NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		0.42	F	< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		< 2.0		NA	
1,2-Dichloroethane	< 0.50		< 0.50		0.17	F	< 0.50		0.26	F	< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		0.25	F	< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		< 3.0		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		< 0.50		NA	
Bromodichloromethane	NA		NA		NA		NA		< 1.0		NA	
Bromoform	NA		NA		NA		NA		< 2.0		NA	
Bromomethane	NA		NA		NA		NA		< 10		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.32	F
Chlorobenzene	NA		NA		NA		NA		< 2.5		NA	
Chloroethane	NA		NA		NA		NA		< 5.0		NA	
Chloroform	0.11	F	0.13	F	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	2.2		2.3		6.4		< 0.50		0.25	F	< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		< 1.0		NA	
Dibromochloromethane	NA		NA		NA		NA		< 1.0		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		< 4.0		NA	
Ethylbenzene	NA		NA		NA		NA		< 1.0		NA	
Methylene chloride	NA		NA		NA		NA		< 2.0		NA	
Tetrachloroethene	4.7		4.6		8.2		0.24	F	0.61		0.22	F
Toluene	NA		NA		NA		NA		< 1.0		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		< 1.0		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		< 1.0		NA	
Trichloroethene	0.85		0.89		2.1		< 0.50		3.4		< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		< 1.0		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		< 1.0		NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-318		MAFB-354B	MAFB-354D	MAFB-378B		MAFB-378B (FD)		MAFB-378D
1,1,1-Trichloroethane	NA		NA	NA	NA		NA		NA
1,1,2,2-Tetrachloroethane	NA		NA	NA	NA		NA		NA
1,1,2-Trichloroethane	NA		NA	NA	NA		NA		NA
1,1-Dichloroethane	NA		NA	NA	NA		NA		NA
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
1,2-Dichlorobenzene	NA		NA	NA	NA		NA		NA
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0
1,3-Dichlorobenzene	NA		NA	NA	NA		NA		NA
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Benzene	NA		NA	NA	NA		NA		NA
Bromodichloromethane	NA		NA	NA	NA		NA		NA
Bromoform	NA		NA	NA	NA		NA		NA
Bromomethane	NA		NA	NA	NA		NA		NA
Carbon tetrachloride	3.1		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Chlorobenzene	NA		NA	NA	NA		NA		NA
Chloroethane	NA		NA	NA	NA		NA		NA
Chloroform	0.25	F	< 0.50	< 0.50	0.41	F	0.39	F	< 0.50
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
cis-1,3-Dichloropropene	NA		NA	NA	NA		NA		NA
Dibromochloromethane	NA		NA	NA	NA		NA		NA
Dichlorodifluoromethane	NA		NA	NA	NA		NA		NA
Ethylbenzene	NA		NA	NA	NA		NA		NA
Methylene chloride	NA		NA	NA	NA		NA		NA
Tetrachloroethene	1.7		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Toluene	NA		NA	NA	NA		NA		NA
trans-1,2-Dichloroethene	NA		NA	NA	NA		NA		NA
trans-1,3-Dichloropropene	NA		NA	NA	NA		NA		NA
Trichloroethene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Trichlorofluoromethane	NA		NA	NA	NA		NA		NA
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Xylenes, total	NA		NA	NA	NA		NA		NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-388Ds	MAFB-397	MAFB-413		MAFB-424		MAFB-426		MAFB-432	
1,1,1-Trichloroethane	NA	NA	< 1.0		< 1.0		NA		< 1.0	
1,1,2,2-Tetrachloroethane	NA	NA	< 1.0		< 1.0		NA		< 1.0	
1,1,2-Trichloroethane	NA	NA	< 1.0		< 1.0		NA		< 1.0	M
1,1-Dichloroethane	NA	NA	< 1.0	M	< 1.0	M	NA		< 1.0	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50		0.95		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA	NA	< 2.0		< 2.0		NA		< 2.0	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA	NA	< 3.0		< 3.0		NA		< 3.0	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA	NA	< 0.50		< 0.50		NA		< 0.50	
Bromodichloromethane	NA	NA	< 1.0		< 1.0		NA		< 1.0	
Bromoform	NA	NA	< 2.0		< 2.0		NA		< 2.0	
Bromomethane	NA	NA	< 10		< 10		NA		< 10	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50		< 0.50		0.6		< 0.50	
Chlorobenzene	NA	NA	< 2.5		< 2.5		NA		< 2.5	
Chloroethane	NA	NA	< 5.0		< 5.0		NA		< 5.0	
Chloroform	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		0.18	F
cis-1,3-Dichloropropene	NA	NA	< 1.0		< 1.0		NA		< 1.0	
Dibromochloromethane	NA	NA	< 1.0		< 1.0		NA		< 1.0	
Dichlorodifluoromethane	NA	NA	< 4.0		< 4.0		NA		< 4.0	
Ethylbenzene	NA	NA	< 1.0		< 1.0		NA		< 1.0	
Methylene chloride	NA	NA	< 2.0		< 2.0		NA		< 2.0	
Tetrachloroethene	< 0.50	< 0.50	< 0.50		0.28	F	0.15	F	< 0.50	
Toluene	NA	NA	< 1.0		< 1.0		NA		< 1.0	
trans-1,2-Dichloroethene	NA	NA	< 1.0		< 1.0		NA		< 1.0	
trans-1,3-Dichloropropene	NA	NA	< 1.0		< 1.0		NA		< 1.0	
Trichloroethene	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		9.3	
Trichlorofluoromethane	NA	NA	< 1.0		18		NA		< 1.0	
Vinyl chloride	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA	NA	< 1.0		< 1.0		NA		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-433		MAFB-433 (FD)		MAFB-434Bd	MAFB-434Bs	MAFB-434Bu	MAFB-434Bu (FD)
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	M	< 1.0	M	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10		< 10		< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5		< 2.5		< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50		0.62	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50		< 0.50		1.3	< 0.50	< 0.50	< 0.50
Toluene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	0.25	F	0.19	F	8.9	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-435		MAFB-437Dd		MAFB-437Ds		MAFB-438		MAFB-439		MAFB-440	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	M
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	1.6		< 0.50		< 0.50		< 0.50		7.1		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	0.13	F	< 0.50		0.22	F	< 0.50		0.79		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		1.3		0.23	F	< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	13		< 0.50		0.56		2.4		49		0.63	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50		< 0.50		0.48	F	0.27	F	< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-440P		MAFB-441	MAFB-442	MAFB-443		MAFB-444		MAFB-445	
1,1,1-Trichloroethane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0	M	< 1.0	< 1.0	< 1.0		< 1.0	UJ	< 1.0	UJ
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0	< 3.0	< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10	< 10	< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	
Chloroform	0.51		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0	< 4.0	< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0	< 2.0	0.39	F	< 2.0		< 2.0	
Tetrachloroethene	0.56		< 0.50	< 0.50	< 0.50		0.34	F	0.55	
Toluene	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50	< 0.50	< 0.50		1.6		3.6	
Trichlorofluoromethane	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-446		MAFB-446 (FD)		MAFB-447		MAFB-448		MAFB-449Bd	MAFB-449Bs
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	UJ	2.6	J	< 1.0	UJ	< 1.0	UJ	< 1.0	< 1.0
1,1-Dichloroethene	0.92		0.84		0.33	F	< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	0.28	F	0.30	F	< 2.0		< 2.0		< 2.0	< 2.0
1,2-Dichloroethane	0.46	F	0.40	F	< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0
Bromomethane	< 10		< 10		< 10		< 10		< 10	< 10
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	< 2.5
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	< 5.0
Chloroform	< 0.50		< 0.50		0.098	F	< 0.50		< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	1.7		1.7		0.38	F	0.19	F	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	< 4.0
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0
Tetrachloroethene	6.6		6.6		1.5		1.2		< 0.50	< 0.50
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
Trichloroethene	48		49		15		7.5		< 0.50	< 0.50
Trichlorofluoromethane	0.42	F	0.51	F	< 1.0		< 1.0		< 1.0	< 1.0
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-450	MAFB-451	MAFB-452B	MAFB-452Bu	MAFB-453	MAFB-453C
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 M	< 1.0 M
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	0.69	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	2.8	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	0.18 F	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	0.78	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	3.1	11	3.3	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	0.62 F	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	13	40	9.9	1.2	0.23 F
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-454		MAFB-454C		MAFB-455		MAFB-456		MAFB-456C		MAFB-457Bd	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		0.32	F	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.17	F
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		0.57		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	0.89		4.1		< 0.50		0.28	F	1.4		0.26	F
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-457Bs	MAFB-457Bs (FD)	MAFB-458Bd	MAFB-458Bs		MAFB-459D	MAFB-459Dd
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	< 10		< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	0.56	0.61	0.71	0.55		< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0		< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
Tetrachloroethene	1.1	0.90	1.1	0.47	F	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Trichloroethene	9.4	9.2	11	4.5		< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS EW-13BuB		TB-01/08/09	TB-01/22/09	TB-01/26/09	TB-01/28/09	TB-01/29/09
1,1,1-Trichloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	NA
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0		< 3.0	< 3.0	< 3.0	< 3.0	NA
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	NA
Bromodichloromethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	NA
Bromomethane	< 10		< 10	< 10	< 10	< 10	NA
Carbon tetrachloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	NA
Chloroethane	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	NA
Chloroform	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
Dibromochloromethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichlorodifluoromethane	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	NA
Ethylbenzene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
Methylene chloride	< 2.0		5.0	< 2.0	< 2.0	< 2.0	NA
Tetrachloroethene	3.1		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
trans-1,2-Dichloroethene	0.27	F	< 1.0	< 1.0	< 1.0	< 1.0	NA
trans-1,3-Dichloropropene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	15		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-01/30/09	TB-02/03/09	TB-02/04/09		TB-02/09/09	TB-02/19/09	TB-03/05/09	TB-03/19/09	TB-03/25/09
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	0.26	F	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	0.36	F	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	0.52	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	0.57	F	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	0.32	F	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.2

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	01/08/09 ACW PTE		01/22/09 ACW PTE		02/04/09 ACW PTE		02/04/09 ACW PTI		02/04/09 ACW PTI (FD)		02/19/09 ACW PTE		03/05/09 ACW PTE		03/19/09 ACW PTE	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		0.20	F	< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		0.18	F	0.21	F	< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		0.24	F	< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50		< 0.50		5.8		5.7		< 0.50		< 0.50		< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	01/08/09	01/22/09	02/04/09				02/19/09	03/05/09	03/19/09
	MBS PTE AF	MBS PTE AF	MBS PTE AF	MBS PTI		MBS PTI (FD)	MBS PTE AF	MBS PTE AF	MBS PTE AF
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	0.96		0.97	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	0.22	F	0.22 F	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	11		10	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	< 0.50	3.3		3.5	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.4

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	01/08/09	01/22/09	02/04/09				02/19/09	03/05/09	03/19/09
	7-PTE	7-PTE	7-PTE	7-PTI		7-PTI (FD)	7-PTE	7-PTE	7-PTE
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	0.19	F	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	0.26	F	0.25 F	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0		0.36 F	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	1.4		1.4	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	< 0.50	6.5		6.7	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0		0.20 F	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 22)

Analyte (µg/L)	MAFB-271		MAFB-319		MAFB-319 (FD)		MAFB-321	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	0.084	F	< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.38	F	0.33	F	0.30	F	< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	0.16 (a)	BFM	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.32		0.57		0.55		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 22)

Analyte (µg/L)	MAFB-271	MAFB-319	MAFB-319 (FD)	MAFB-321
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 22)

Analyte (µg/L)	MAFB-322		MAFB-324		MAFB-324 (FD)		MAFB-326	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		0.11	F	0.085	F	< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.13	F	0.41	F	0.35	F	< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	0.40 (a)	BFM
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		0.23		0.15	F	< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 22)

Analyte (µg/L)	MAFB-322	MAFB-324	MAFB-324 (FD)	MAFB-326
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 22)

Analyte (µg/L)	MAFB-328		MAFB-337		MAFB-338		OFB-04 01/27/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		0.15	F	< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	0.071	F	< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		0.19	F
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.34	F	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	0.20 (a)	BFM	< 0.50	M	0.19 (a)	BFM	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.21		< 0.20		< 0.20		0.055	FM

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 22)

Analyte (μg/L)	MAFB-328	MAFB-337	MAFB-338		OFB-04 01/27/09
Toluene	< 0.50	< 0.50	0.16	F	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50		< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20		< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50		< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50		< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50		< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
μg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 μg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 22)

Analyte (µg/L)	OFB-04 02/24/09		OFB-04 03/31/09		OFB-04E 02/04/09		OFB-04E 02/24/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.18	F	0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20	M

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-04 02/24/09	OFB-04 03/31/09	OFB-04E 02/04/09	OFB-04E 02/24/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-04M 01/27/09		OFB-04M 02/04/09		OFB-04M 03/31/09		OFB-27	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.21		0.22		0.11	F	< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		0.23	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	0.058	F	< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	M	< 0.20	M	< 0.20	M	0.066	FM

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-04M 01/27/09	OFB-04M 02/04/09	OFB-04M 03/31/09	OFB-27	
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20	< 0.20	< 0.20	0.051	F
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-27 (FD)		OFB-31		OFB-32		OFB-49	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		0.16	F	< 0.50		< 0.50	
Bromoform	< 0.50		0.87		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.20	F	0.29	F	0.042	F	2.0	
Chloromethane	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		0.38	F	< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.072	FM	0.18	F	< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 22)

Analyte (µg/L)	OFB-27 (FD)		OFB-31	OFB-32	OFB-49
Toluene	< 0.50		< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50		< 0.50	< 0.50	< 0.50
Trichloroethene	0.087	F	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50		< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50		< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 22)

Analyte (µg/L)	OFB-51		OFB-51/52E 01/14/09		OFB-51/52E 01/27/09		OFB-51/52I 01/27/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.47		< 0.20		< 0.20		0.3	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.080	F	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	M	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20	M	< 0.20	M	0.062	FM

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-51	OFB-51/52E 01/14/09	OFB-51/52E 01/27/09	OFB-51/52I 01/27/09	
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20	< 0.20	< 0.20	0.067	F
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-51/52I 02/24/09		OFB-51/52I 03/31/09		OFB-51/52M 01/14/09		OFB-51/52M 01/27/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		0.11	F
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.41		0.42		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		0.12	F	0.12	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		0.12	F	< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		0.071	F	< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20	M

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-51/52I 02/24/09		OFB-51/52I 03/31/09	OFB-51/52M 01/14/09	OFB-51/52M 01/27/09
Toluene	< 0.50		< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50		< 0.50	< 0.50	< 0.50
Trichloroethene	0.037	F	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50		< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50		< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 22)

Analyte (µg/L)	OFB-51/52M 02/24/09		OFB-51/52M 03/31/09		OFB-52		OFB-52 (FD)	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		0.29		0.24	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.11	F	0.15	F	< 0.50		0.064	F
Chloromethane	< 0.50		< 0.50		< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	0.082	F	0.086	F	0.34	F	0.31	F
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	M	< 0.20	M	0.18	F	0.18	F

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-51/52M 02/24/09	OFB-51/52M 03/31/09	OFB-52	OFB-52 (FD)
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	0.23	0.24
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-54		OFB-56		TB-01/14/09		TB-01/27/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	0.23	F	< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	OFB-54	OFB-56	TB-01/14/09	TB-01/27/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte (µg/L)	TB-02/03/09	TB-02/04/09		TB-02/24/09	TB-03/31/09	
1,1,1,2-Tetrachloroethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,1-Trichloroethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2-Trichloroethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethene	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloropropene	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichloropropane	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trichlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trimethylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	< 2.0		< 2.0	< 2.0	
1,2-Dibromoethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloroethane	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 0.50	< 0.50		< 0.50	< 0.50	
1,3,5-Trimethylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichloropropane	< 0.50	< 0.50		< 0.50	< 0.50	
1,4-Dichlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
2,2-Dichloropropane	< 0.50	< 0.50		< 0.50	< 0.50	
2-Chlorotoluene	< 0.50	< 0.50		< 0.50	< 0.50	
4-Chlorotoluene	< 0.50	< 0.50		< 0.50	< 0.50	
Benzene	< 0.50	< 0.50		< 0.50	< 0.50	
Bromobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Bromochloromethane	< 1.0	< 1.0		< 1.0	< 1.0	
Bromodichloromethane	< 0.50	< 0.50		< 0.50	< 0.50	
Bromoform	< 0.50	< 0.50		< 0.50	< 0.50	
Bromomethane	< 0.50	< 0.50		< 0.50	< 0.50	
Carbon tetrachloride	< 0.20	< 0.20		< 0.20	< 0.20	
Chlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Chloroethane	< 1.0	< 1.0		< 1.0	< 1.0	
Chloroform	< 0.50	< 0.50		< 0.50	< 0.50	
Chloromethane	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,3-Dichloropropene	< 0.50	< 0.50		< 0.50	< 0.50	
Dibromochloromethane	< 0.50	< 0.50		< 0.50	< 0.50	
Dibromomethane	< 0.50	< 0.50		< 0.50	< 0.50	
Dichlorodifluoromethane	< 0.50	< 0.50		< 0.50	< 0.50	
Ethylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Hexachlorobutadiene	< 0.50	< 0.50		< 0.50	< 0.50	
Isopropylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Methylene chloride	< 0.50	0.27 (a)	BF	< 0.50	0.37	F
n-Butylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
n-Propylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Naphthalene	< 0.50	< 0.50		< 0.50	< 0.50	
p-Isopropyltoluene	< 0.50	< 0.50		< 0.50	< 0.50	
sec-Butylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Styrene	< 0.50	< 0.50		< 0.50	< 0.50	
t-Butylbenzene	< 0.50	< 0.50		< 0.50	< 0.50	
Tetrachloroethene	< 0.20	< 0.20		< 0.20	< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 22 of 22)

Analyte (µg/L)	TB-02/03/09	TB-02/04/09	TB-02/24/09	TB-03/31/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-02/05/09 contained 0.34 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-PZ-37		7-PZ-37P	7-PZ-37P (FD)	MAFB-149	MAFB-284	MAFB-413	MAFB-439		TB-01/08/09	TB-01/22/09
TPH, diesel-range	< 50		< 50	< 50	< 50	< 50	< 50	< 50		NA	NA
TPH, gasoline-range	11	F	< 50	< 50	< 50	< 50	< 50	21	F	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-01/26/09	TB-01/28/09	TB-01/30/09	TB-02/04/09	TB-02/19/09	TB-03/05/09	TB-03/19/09
TPH, diesel-range	NA	NA	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.7

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	02/04/09	
	ACW PTE	ACW PTE (FD)
TPH, diesel-range	< 50	< 50

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.8

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	02/04/09				
	MBS PTE AF	MBS PTI		MBS PTI (FD)	
TPH, diesel-range	< 50	< 50		< 50	
TPH, gasoline-range	< 50	12	F	11	F

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.9

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	01/08/09	01/22/09	02/04/09			02/19/09
	7-PTE	7-PTE	7-PTE	7-PTI	7-PTI (FD)	7-PTE
TPH, diesel-range	NA	NA	< 50	< 50	< 50	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
FD - Field Duplicate
μg/L - Micrograms per liter
NA - Not Applicable

There were no analytes detected in associated method and trip blanks.

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TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-440	MAFB-440 (FD)	MAFB-440P
2-Methylnaphthalene	< 10	< 10	< 10
Acenaphthene	< 10	< 10	< 10
Acenaphthylene	< 10	< 10	< 10
Anthracene	< 10	< 10	< 10
Benzo(a)anthracene	< 10	< 10	< 10
Benzo(a)pyrene	< 10	< 10	< 10
Benzo(b)fluoranthene	< 10	< 10	< 10
Benzo(g,h,i)perylene	< 10	< 10	< 10
Benzo(k)fluoranthene	< 10	< 10	< 10
Chrysene	< 10	< 10	< 10
Dibenz(a,h)anthracene	< 10	< 10	< 10
Fluoranthene	< 10	< 10	< 10
Fluorene	< 10	< 10	< 10
Indeno(1,2,3-c,d)pyrene	< 10	< 10	< 10
Naphthalene	< 10	< 10	< 10
Phenanthrene	< 10	< 10	< 10
Pyrene	< 10	< 10	< 10

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 4)

Analyte (µg/L)	7-PZ-37		7-PZ-37P		7-PZ-37P (FD)		MAFB-111	
USEPA 6010								
Antimony	NA		NA		NA		NA	
Arsenic	NA		NA		NA		NA	
Barium	NA		NA		NA		NA	
Beryllium	NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA	
Chromium	NA		NA		NA		2.1	F
Cobalt	NA		NA		NA		NA	
Copper	NA		NA		NA		NA	
Lead	2.4	F	2.3	F	2.4	F	NA	
Manganese	NA		4,680	JM	4,720	JM	NA	
Nickel	NA		NA		NA		< 40	
Selenium	NA		NA		NA		NA	
Silver	NA		NA		NA		NA	
Vanadium	NA		NA		NA		NA	
Zinc	NA		NA		NA		NA	
USEPA 7470								
Mercury	NA		NA		NA		NA	
USEPA 7841								
Thallium	NA		NA		NA		NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 4)

Analyte (µg/L)	MAFB-129		MAFB-132		MAFB-133		MAFB-133 (FD)	
USEPA 6010								
Antimony	NA		< 60		< 60		< 60	
Arsenic	NA		< 5.0		< 5.0		< 5.0	
Barium	NA		67.2	J	20.4		20.1	
Beryllium	NA		< 3.0		< 3.0		< 3.0	
Cadmium	NA		< 5.0		< 5.0		< 5.0	
Chromium	3.8	F	12.3		2.7	F	2.7	F
Cobalt	NA		2.2	F	< 50		< 50	
Copper	NA		< 10		1.1	F	< 10	
Lead	NA		< 3.0		1.9	F	1.6	F
Manganese	NA		44.2	J	< 15		< 15	
Nickel	< 40		337	J	2.5	F	2.8	F
Selenium	NA		< 5.0		< 5.0		< 5.0	
Silver	NA		< 10		< 10		< 10	
Vanadium	NA		3.5	F	7.8	F	7.6	F
Zinc	NA		10.8	F	6.3	F	6.0	F
USEPA 7470								
Mercury	NA		< 0.20	M	0.18	FM	0.077	FM
USEPA 7841								
Thallium	NA		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 4)

Analyte (µg/L)	MAFB-136		MAFB-288		MAFB-400	MAFB-400 (FD)
USEPA 6010						
Antimony	3.0	F	NA		NA	NA
Arsenic	< 5.0		NA		NA	NA
Barium	78.5		NA		NA	NA
Beryllium	< 3.0		NA		NA	NA
Cadmium	< 5.0		NA		NA	NA
Chromium	201		2.9	F	< 10	< 10
Cobalt	9.5	F	NA		NA	NA
Copper	3.9	F	NA		NA	NA
Lead	< 3.0		NA		NA	NA
Manganese	315	J	NA		NA	NA
Nickel	293		< 40		< 40	< 40
Selenium	< 5.0		NA		NA	NA
Silver	< 10		NA		NA	NA
Vanadium	2.3	F	NA		NA	NA
Zinc	9.2	F	NA		NA	NA
USEPA 7470						
Mercury	< 0.20	M	NA		NA	NA
USEPA 7841						
Thallium	< 1.0		NA		NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 4)

Analyte (µg/L)	MAFB-413	MAFB-424		MAFB-439
USEPA 6010				
Antimony	NA	< 60		NA
Arsenic	NA	< 5.0		NA
Barium	NA	18.3	F	NA
Beryllium	NA	< 3.0		NA
Cadmium	NA	< 5.0		NA
Chromium	NA	5.8	F	NA
Cobalt	NA	< 50		NA
Copper	NA	< 10		NA
Lead	< 3.0	< 3.0		< 3.0
Manganese	NA	< 15	JM	NA
Nickel	NA	< 40		NA
Selenium	NA	< 5.0		NA
Silver	NA	< 10		NA
Vanadium	NA	13.5	F	NA
Zinc	NA	4.1	F	NA
USEPA 7470				
Mercury	NA	< 0.20	M	NA
USEPA 7841				
Thallium	NA	< 1.0		NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	02/04/09 ACW PTE		ACW PTI		ACW PTI (FD)	
USEPA 6010						
Calcium	9,270	JM	22,000	JM	9,220	JM
Copper	< 10		< 10		< 10	
Iron	20.5	F	7.7	F	16.4	F
Magnesium	4,650	JM	9,160	JM	4,640	JM
Manganese	< 15		< 15		< 15	
Sodium	8,460	JM	12,400	JM	8,450	JM
Zinc	4.8	F	2.7	F	12.1	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.13

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	02/04/09					
	MBS PTE AF		MBS PTI		MBS PTI (FD)	
USEPA 6010						
Antimony	< 60		< 60		< 60	
Arsenic	< 5.0		< 5.0		< 5.0	
Barium	59.4		59.1		57.8	
Beryllium	< 3.0		< 3.0		< 3.0	
Cadmium	< 5.0		< 5.0		< 5.0	
Chromium	4.1	F	4.5	F	4.1	F
Cobalt	< 50		< 50		< 50	
Copper	< 10		< 10		< 10	
Lead	< 3.0		< 3.0		< 3.0	
Manganese	< 15		< 15		< 15	
Nickel	< 40.0		2.5	F	0.83	F
Selenium	< 5.0		< 5.0		< 5.0	
Silver	< 10		< 10		< 10	
Vanadium	10.2	F	10.6	F	10.5	F
Zinc	< 50		2.9	F	2.4	F
USEPA 6020						
Thallium	< 1.0		< 1.0		< 1.0	
USEPA 7470						
Mercury	< 0.20		< 0.20		< 0.20	

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.14

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	02/04/09					
	7-PTE		7-PTI		7-PTI (FD)	
USEPA 6010						
Calcium	22,300	J	21,900	J	22,600	J
Copper	< 10		< 10		< 10	
Iron	8.8	F	< 70		5.9	F
Magnesium	11,500	J	11,400	J	11,500	J
Manganese	< 15		< 15		< 15	
Sodium	12,200	R	12,000	R	12,200	R
Zinc	15.9	F	7.0	F	8.5	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.15

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Analyte (mg/L)	MAFB-132		MAFB-133	MAFB-133 (FD)	MAFB-136
SM 2320					
Total Alkalinity	276		110	107	208
Alkalinity, bicarbonate	276		110	107	208
Alkalinity, carbonate	< 1.0		< 1.0	< 1.0	< 1.0
USEPA 160.1					
Total Filterable Residue	344		168	172	292
USEPA 300.0					
Chloride	46.8		4.0	4.1	41.4
Sulfate	4.5		8.6	8.5	11.8
USEPA 340.2					
Fluoride	0.17		0.22	0.22	0.18
USEPA 376.1					
Sulfide, total	< 0.20	UJ	< 0.20	< 0.20	< 0.20
USEPA 7196					
Hexavalent Chromium	NA		NA	NA	NA

Notes:
FD - Field Duplicate
mg/L - Milligrams per liter
NA - Not Applicable
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method blanks.

TABLE 2-1.15

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Analyte (mg/L)	MAFB-424	MAFB-424 (FD)
SM 2320		
Total Alkalinity	50.9	NA
Alkalinity, bicarbonate	50.9	NA
Alkalinity, carbonate	< 1.0	NA
USEPA 160.1		
Total Filterable Residue	128	NA
USEPA 300.0		
Chloride	2.9	NA
Sulfate	6.2	NA
USEPA 340.2		
Fluoride	0.19	NA
USEPA 376.1		
Sulfide, total	< 0.20	NA
USEPA 7196		
Hexavalent Chromium	< 0.020	< 0.020

Notes:
FD - Field Duplicate
mg/L - Milligrams per liter
NA - Not Applicable
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	02/04/09			
		ACW PTE	ACW PTE (FD)	ACW PTI	ACW PTI (FD)
SM 2320					
Total Alkalkinity	mg/L	74.1	NA	73.6	74.8
Alkalinity, bicarbonate	mg/L	74.1	NA	73.6	74.8
Alkalinity, carbonate	mg/L	< 1.0	NA	< 1.0	< 1.0
Alkalinity, hydroxide	mg/L	< 1.0	NA	< 1.0	< 1.0
USEPA 130.2					
Hardness as CaCO3	mg/L	60.2	NA	40.1	44.1
USEPA 160.1					
Total Filterable Residue	mg/L	122	NA	115	125
USEPA 300.0					
Chloride	mg/L	3.4	NA	3.4	3.4
Nitrate (as N)	mg/L	2.6	NA	2.6	2.6
Sulfate	mg/L	2.1	NA	2.1	2.1
USEPA 314.0					
Perchlorate	µg/L	< 3.0	< 3.0	NA	NA

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

TABLE 2-1.17

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	02/04/09			
		MBS PTE AF	MBS PTE AF (FD)	MBS PTI	MBS PTI (FD)
SM 2320					
Total Alkalinity	mg/L	143	NA	136	142
Alkalinity, bicarbonate	mg/L	143	NA	136	142
Alkalinity, carbonate	mg/L	< 1.0	NA	< 1.0	< 1.0
Alkalinity, hydroxide	mg/L	< 1.0	NA	< 1.0	< 1.0
USEPA 130.2					
Hardness as CaCO3	mg/L	88.3	NA	108	92.3
USEPA 160.1					
Total Filterable Residue	mg/L	175	NA	154	170
USEPA 160.2					
Total Suspended Solids	mg/L	< 10	NA	< 10	< 10
USEPA 300.0					
Chloride	mg/L	6.8	NA	6.8	6.8
Nitrate (as N)	mg/L	3.2	NA	3.2	3.2
Sulfate	mg/L	9.6	NA	9.5	9.3
USEPA 314.0					
Perchlorate	µg/L	< 3.0	< 3.0	NA	NA

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

TABLE 2-1.18

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	02/04/09		
	7-PTE	7-PTI	7-PTI (FD)
SM 2320			
Total Alkalinity	155	148	149
Alkalinity, bicarbonate	155	148	149
Alkalinity, carbonate	< 1.0	< 1.0	< 1.0
Alkalinity, hydroxide	< 1.0	< 1.0	< 1.0
USEPA 130.2			
Hardness as CaCO3	108	140	124
USEPA 160.1			
Total Filterable Residue	195	208	207
USEPA 300.0			
Chloride	8.6	8.6	8.5
Nitrate (as N)	2.7	2.7	2.7
Sulfate	9.7	9.7	9.7

Notes:
FD - Field Duplicate
mg/L - Milligrams per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.9

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	03/05/09 7-PTE	03/19/09 7-PTE
TPH, diesel-range	NA	NA
TPH, gasoline-range	< 50	< 50

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable

There were no analytes detected in associated method and trip blanks.

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TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
7-PTE-01/08/09	101	yes	96	yes	96	yes	96	yes
7-PTE-01/22/09	98	yes	99	yes	98	yes	101	yes
7-PTE-02/04/09	114	yes	117	yes	105	yes	111	yes
7-PTE-02/19/09	94	yes	96	yes	98	yes	95	yes
7-PTE-03/05/09	118	yes	103	yes	105	yes	99	yes
7-PTE-03/19/09	90	yes	85	yes	95	yes	90	yes
7-PTI-02/04/09	83	yes	98	yes	90	yes	110	yes
7-PTI-02/04/09 (FD)	84	yes	99	yes	94	yes	111	yes
7-PTI-02/04/09 (MS)	85	yes	96	yes	94	yes	108	yes
7-PTI-02/04/09 (MSD)	86	yes	98	yes	98	yes	106	yes
7-PZ-37	89	yes	90	yes	95	yes	101	yes
7-PZ-37P	93	yes	91	yes	99	yes	103	yes
7-PZ-37P (FD)	97	yes	91	yes	101	yes	100	yes
7-PZ-37P (MS)	96	yes	91	yes	103	yes	97	yes
7-PZ-37P (MSD)	91	yes	92	yes	100	yes	101	yes
ACW PTE-01/08/09	109	yes	90	yes	98	yes	90	yes
ACW PTE-01/22/09	103	yes	102	yes	102	yes	103	yes
ACW PTE-02/04/09	121	no	117	yes	110	yes	102	yes
ACW PTE-02/19/09	99	yes	102	yes	100	yes	102	yes
ACW PTE-03/05/09	113	yes	100	yes	105	yes	95	yes
ACW PTE-03/19/09	84	yes	84	yes	92	yes	92	yes
ACW PTI-02/04/09	86	yes	100	yes	93	yes	114	yes
ACW PTI-02/04/09 (FD)	81	yes	98	yes	90	yes	110	yes
ACW PTI-02/04/09 (MS)	80	yes	92	yes	89	yes	107	yes
ACW PTI-02/04/09 (MSD)	81	yes	96	yes	93	yes	110	yes
ACW PZ-05	102	yes	91	yes	106	yes	98	yes
ACW R2	89	yes	98	yes	98	yes	107	yes
MAFB-132	93	yes	90	yes	98	yes	101	yes
MAFB-133	91	yes	90	yes	95	yes	102	yes
MAFB-133 (FD)	99	yes	94	yes	100	yes	103	yes
MAFB-133 (MS)	93	yes	96	yes	101	yes	101	yes
MAFB-133 (MSD)	96	yes	92	yes	100	yes	96	yes
MAFB-136	96	yes	94	yes	98	yes	102	yes
MAFB-149	95	yes	92	yes	97	yes	99	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-284	91	yes	91	yes	99	yes	101	yes
MAFB-293	99	yes	90	yes	98	yes	99	yes
MAFB-318	93	yes	90	yes	96	yes	102	yes
MAFB-354B	102	yes	89	yes	100	yes	98	yes
MAFB-354D	94	yes	90	yes	95	yes	103	yes
MAFB-378B	102	yes	92	yes	98	yes	100	yes
MAFB-378B (FD)	92	yes	89	yes	91	yes	102	yes
MAFB-378D	97	yes	93	yes	99	yes	102	yes
MAFB-378D (MS)	97	yes	98	yes	101	yes	102	yes
MAFB-378D (MSD)	92	yes	92	yes	99	yes	100	yes
MAFB-388Ds	89	yes	89	yes	92	yes	102	yes
MAFB-397	100	yes	105	yes	107	yes	111	yes
MAFB-413	99	yes	94	yes	99	yes	101	yes
MAFB-424	94	yes	91	yes	99	yes	101	yes
MAFB-426	101	yes	94	yes	99	yes	102	yes
MAFB-432	95	yes	92	yes	105	yes	103	yes
MAFB-433	102	yes	94	yes	106	yes	98	yes
MAFB-433 (FD)	97	yes	89	yes	105	yes	100	yes
MAFB-434Bd	100	yes	110	yes	109	yes	113	yes
MAFB-434Bs	99	yes	105	yes	107	yes	106	yes
MAFB-434Bs (MS)	103	yes	106	yes	112	yes	105	yes
MAFB-434Bs (MSD)	97	yes	101	yes	105	yes	99	yes
MAFB-434Bu	115	yes	99	yes	94	yes	96	yes
MAFB-434Bu (FD)	111	yes	96	yes	94	yes	94	yes
MAFB-435	114	yes	98	yes	97	yes	95	yes
MAFB-437Dd	94	yes	106	yes	104	yes	106	yes
MAFB-437Ds	112	yes	98	yes	92	yes	95	yes
MAFB-438	111	yes	98	yes	95	yes	93	yes
MAFB-439	104	yes	96	yes	93	yes	94	yes
MAFB-440	97	yes	93	yes	98	yes	100	yes
MAFB-440P	94	yes	90	yes	99	yes	103	yes
MAFB-441	101	yes	91	yes	93	yes	90	yes
MAFB-442	94	yes	91	yes	98	yes	101	yes
MAFB-443	95	yes	89	yes	97	yes	101	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-444	97	yes	90	yes	103	yes	99	yes
MAFB-445	93	yes	89	yes	100	yes	100	yes
MAFB-446	98	yes	92	yes	103	yes	99	yes
MAFB-446 (FD)	95	yes	89	yes	105	yes	101	yes
MAFB-447	92	yes	89	yes	100	yes	101	yes
MAFB-448	99	yes	91	yes	102	yes	98	yes
MAFB-449Bd	97	yes	92	yes	102	yes	101	yes
MAFB-449Bs	97	yes	93	yes	104	yes	101	yes
MAFB-450	102	yes	94	yes	91	yes	90	yes
MAFB-451	103	yes	90	yes	90	yes	89	yes
MAFB-452B	100	yes	97	yes	100	yes	94	yes
MAFB-452Bu	95	yes	93	yes	99	yes	93	yes
MAFB-453	98	yes	102	yes	99	yes	97	yes
MAFB-453C	98	yes	100	yes	98	yes	95	yes
MAFB-454	100	yes	102	yes	104	yes	96	yes
MAFB-454C	101	yes	99	yes	101	yes	93	yes
MAFB-455	96	yes	99	yes	98	yes	97	yes
MAFB-456	92	yes	98	yes	97	yes	94	yes
MAFB-456C	96	yes	96	yes	96	yes	91	yes
MAFB-457Bd	97	yes	91	yes	101	yes	98	yes
MAFB-457Bs	94	yes	89	yes	99	yes	99	yes
MAFB-457Bs (FD)	107	yes	97	yes	98	yes	95	yes
MAFB-458Bd	99	yes	92	yes	104	yes	98	yes
MAFB-458Bs	89	yes	90	yes	97	yes	100	yes
MAFB-459D	101	yes	94	yes	91	yes	97	yes
MAFB-459Dd	96	yes	93	yes	90	yes	91	yes
MBS EW-13BuB	100	yes	96	yes	104	yes	92	yes
MBS PTE AF-01/08/09	104	yes	92	yes	97	yes	91	yes
MBS PTE AF-01/22/09	100	yes	96	yes	98	yes	97	yes
MBS PTE AF-02/04/09	111	yes	120	no	103	yes	100	yes
MBS PTE AF-02/19/09	92	yes	100	yes	95	yes	99	yes
MBS PTE AF-03/05/09	112	yes	98	yes	108	yes	98	yes
MBS PTE AF-03/19/09	91	yes	86	yes	98	yes	92	yes
MBS PTI-02/04/09	88	yes	91	yes	99	yes	103	yes

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TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MBS PTI-02/04/09 (FD)	88	yes	96	yes	99	yes	107	yes
MBS PTI-02/04/09 (MS)	81	yes	100	yes	92	yes	113	yes
MBS PTI-02/04/09 (MSD)	81	yes	96	yes	91	yes	111	yes
TB-01/08/09	110	yes	95	yes	100	yes	92	yes
TB-01/22/09	104	yes	104	yes	102	yes	104	yes
TB-01/26/09	100	yes	93	yes	101	yes	100	yes
TB-01/28/09	99	yes	91	yes	101	yes	99	yes
TB-01/29/09	90	yes	88	yes	96	yes	100	yes
TB-01/30/09	98	yes	90	yes	89	yes	91	yes
TB-02/03/09	109	yes	97	yes	103	yes	96	yes
TB-02/04/09	90	yes	107	yes	96	yes	117	yes
TB-02/09/09	102	yes	113	yes	115	yes	114	yes
TB-02/19/09	93	yes	101	yes	97	yes	100	yes
TB-03/05/09	102	yes	96	yes	100	yes	95	yes
TB-03/19/09	98	yes	89	yes	100	yes	93	yes
TB-03/25/09	100	yes	98	yes	102	yes	95	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 72-119%)
(b) 4-Bromofluorobenzene (control limits: 76-119%)
(c) Dibromofluoromethane (control limits: 85-115%)
(d) Toluene-d8 (control limits: 81-120%)

Shaded data indicate nonconformances with project control limits.

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
MAFB-271	91	yes	100	yes
MAFB-319	102	yes	108	yes
MAFB-319 (FD)	91	yes	104	yes
MAFB-321	90	yes	101	yes
MAFB-322	86	yes	97	yes
MAFB-324	86	yes	102	yes
MAFB-324 (FD)	91	yes	101	yes
MAFB-324 (MS)	102	yes	96	yes
MAFB-324 (MSD)	104	yes	100	yes
MAFB-326	90	yes	107	yes
MAFB-328	86	yes	100	yes
MAFB-337	98	yes	101	yes
MAFB-338	91	yes	96	yes
OFB-04-01/27/09	90	yes	99	yes
OFB-04-02/24/09	96	yes	92	yes
OFB-04-03/31/09	94	yes	87	yes
OFB-04E-02/04/09	86	yes	100	yes
OFB-04E-02/24/09	98	yes	93	yes
OFB-04M-01/27/09	92	yes	89	yes
OFB-04M-02/04/09	88	yes	101	yes
OFB-04M-03/31/09	99	yes	91	yes
OFB-27	96	yes	102	yes
OFB-27 (FD)	95	yes	99	yes
OFB-27 (MS)	108	yes	102	yes
OFB-27 (MSD)	104	yes	99	yes
OFB-31	89	yes	93	yes
OFB-32	93	yes	101	yes
OFB-49	93	yes	99	yes
OFB-51	97	yes	95	yes
OFB-51/52E-01/14/09	90	yes	96	yes
OFB-51/52E-01/27/09	84	yes	96	yes
OFB-51/52I-01/27/09	92	yes	97	yes
OFB-51/52I-02/24/09	95	yes	96	yes
OFB-51/52I-03/31/09	100	yes	88	yes
OFB-51/52M-01/14/09	82	yes	93	yes
OFB-51/52M-01/27/09	96	yes	93	yes
OFB-51/52M-02/24/09	91	yes	92	yes
OFB-51/52M-03/31/09	100	yes	91	yes
OFB-52	93	yes	98	yes
OFB-52 (FD)	96	yes	102	yes
OFB-54	92	yes	101	yes
OFB-56	87	yes	98	yes
TB-01/14/09	90	yes	98	yes
TB-01/27/09	100	yes	102	yes
TB-02/03/09	101	yes	109	yes

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
TB-02/04/09	91	yes	107	yes
TB-02/24/09	93	yes	92	yes
TB-03/31/09	95	yes	83	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 50-150%)
(b) 4-Bromofluorobenzene (control limits: 50-150%)

TABLE 2-2.3

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability
7-PTE-01/08/09	118	yes
7-PTE-01/22/09	102	yes
7-PTE-02/04/09	97	yes
7-PTE-02/19/09	103	yes
7-PTE-03/05/09	83	yes
7-PTE-03/19/09	101	yes
7-PTI-02/04/09	119	yes
7-PTI-02/04/09 (FD)	79	yes
7-PTI-02/04/09 (MS)	90	yes
7-PTI-02/04/09 (MSD)	83	yes
7-PZ-37	108	yes
7-PZ-37P	102	yes
7-PZ-37P (FD)	103	yes
7-PZ-37P (MS)	103	yes
7-PZ-37P (MSD)	100	yes
MAFB-149	103	yes
MAFB-284	101	yes
MAFB-413	100	yes
MAFB-439	97	yes
MBS PTE AF-02/04/09	85	yes
MBS PTI-02/04/09	85	yes
MBS PTI-02/04/09 (FD)	97	yes
MBS PTI-02/04/09 (MS)	81	yes
MBS PTI-02/04/09 (MSD)	78	yes
TB-01/08/09	115	yes
TB-01/22/09	101	yes
TB-01/26/09	99	yes
TB-01/28/09	101	yes
TB-01/30/09	94	yes
TB-02/04/09	93	yes
TB-02/19/09	101	yes
TB-03/05/09	90	yes
TB-03/19/09	91	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 4-Bromofluorobenzene (control limits: 75-125%)

TABLE 2-2.4

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
7-PTE-02/04/09	76	yes	82	yes
7-PTI-02/04/09	73	yes	79	yes
7-PTI-02/04/09 (FD)	75	yes	80	yes
7-PTI-02/04/09 (MS)	76	yes	83	yes
7-PTI-02/04/09 (MSD)	75	yes	89	yes
7-PZ-37	91	yes	80	yes
7-PZ-37P	87	yes	80	yes
7-PZ-37P (FD)	87	yes	81	yes
7-PZ-37P (MS)	86	yes	81	yes
7-PZ-37P (MSD)	93	yes	90	yes
ACW PTE-02/04/09	65	yes	69	yes
ACW PTE-02/04/09 (FD)	75	yes	82	yes
ACW PTE-02/04/09 (MS)	81	yes	87	yes
ACW PTE-02/04/09 (MSD)	81	yes	89	yes
MAFB-149	90	yes	85	yes
MAFB-284	88	yes	82	yes
MAFB-413	92	yes	84	yes
MAFB-439	56	yes	69	yes
MBS PTE AF-02/04/09	61	yes	68	yes
MBS PTI-02/04/09	66	yes	74	yes
MBS PTI-02/04/09 (FD)	77	yes	82	yes
MBS PTI-02/04/09 (MS)	59	yes	66	yes
MBS PTI-02/04/09 (MSD)	79	yes	88	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) n-Octacosane (control limits: 26-152%)
(b) o-Terphenyl (control limits: 57-132%)

TABLE 2-2.5

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability
MAFB-440	55	yes	62	yes	71	yes
MAFB-440 (FD)	60	yes	74	yes	71	yes
MAFB-440 (MS)	62	yes	62	yes	72	yes
MAFB-440 (MSD)	61	yes	72	yes	82	yes
MAFB-440P	55	yes	65	yes	72	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) 2-Fluorobiphenyl (control limits: 48-120%)
(b) Nitrobenzene-d5 (control limits: 41-120%)
(c) Terphenyl-d14 (control limits: 51-135%)

3.0 CROSS-REFERENCE TABLE

The table presented in this section (Table 3-1) corresponds to Table A-5 of the Handbook (Appendix A, Tab 6). Table 3-1 provides a cross-reference between laboratory sample and field sample identifications.

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 4)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
ACW PTE	ACW PTE	AX89600	01/08/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX89601	01/08/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX89602	01/08/09	001A	Pump and Treat Effluent
TB-01/08/09	7-PTT	AX89603	01/08/09	001A	Trip Blank
7-PTE	7-PTE	AX89612	01/08/09	001A	Pump and Treat Effluent
OFB-51/52M	JH-MID GAC	AX89772	01/14/09	001A	Mid-GAC
OFB-51/52E	JH-EFFLUENT	AX89773	01/14/09	001A	GAC Effluent
TB-01/14/09	OFB-FB-1	AX89774	01/14/09	001A	Trip Blank
ACW PTE	ACW PTE	AX90026	01/22/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX90027	01/22/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX90028	01/22/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX90029	01/22/09	001A	Pump and Treat Effluent
TB-01/22/09	7-PTT	AX90030	01/22/09	001A	Trip Blank
MAFB-293	MAFB-293	AX90175	01/26/09	001A	Groundwater
MAFB-318	MAFB-318	AX90176	01/26/09	001A	Groundwater
MAFB-354B	MAFB-354(B)	AX90177	01/26/09	001A	Groundwater
MAFB-354D	MAFB-354(D)	AX90178	01/26/09	001A	Groundwater
MAFB-378B	MAFB-378(B)DF	AX90179	01/26/09	001A	Groundwater
MAFB-378D	MAFB-378(D)DF	AX90180	01/26/09	001A	Groundwater
MAFB-378D (MS)	MAFB-378(D)DF	AX90180	01/26/09	001A	Matrix Spike
MAFB-378D (MSD)	MAFB-378(D)DF	AX90180	01/26/09	001A	Matrix Spike Duplicate
MAFB-388Ds	MAFB-388(Ds)DF	AX90181	01/26/09	001A	Groundwater
MAFB-426	MAFB-426DF	AX90182	01/26/09	001A	Groundwater
MAFB-442	MAFB-442DF	AX90183	01/26/09	001A	Groundwater
MAFB-443	MAFB-443DF	AX90184	01/26/09	001A	Groundwater
MAFB-378B (FD)	MAFB-934	AX90185	01/26/09	001A	Field Duplicate
MAFB-133	MAFB-133L	AX90186	01/26/09	001A	Groundwater
MAFB-133 (MS)	MAFB-133L	AX90186	01/26/09	001A	Matrix Spike
MAFB-133 (MSD)	MAFB-133L	AX90186	01/26/09	001A	Matrix Spike Duplicate
MAFB-440	MAFB-440	AX90187	01/26/09	001A	Groundwater
MAFB-440 (MS)	MAFB-440	AX90187	01/26/09	001A	Matrix Spike
MAFB-440 (MSD)	MAFB-440	AX90187	01/26/09	001A	Matrix Spike Duplicate
MAFB-440P	MAFB-440(P)	AX90188	01/26/09	001A	Groundwater
MAFB-133 (FD)	MAFB-948	AX90189	01/26/09	001A	Field Duplicate
MAFB-440 (FD)	MAFB-984	AX90190	01/26/09	001A	Field Duplicate
7-PZ-37	7-PZ-37	AX90191	01/26/09	001A	Groundwater
TB-01/26/09	LF-MW-1	AX90192	01/26/09	001A	Trip Blank
OFB-51/52M	JH MID-GAC	AX90215	01/27/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AX90216	01/27/09	001A	Mid-GAC
OFB-31	GOULD	AX90217	01/27/09	001A	Groundwater
OFB-51/52E	JH EFFLUENT	AX90218	01/27/09	001A	GAC Effluent
OFB-51/52I	JH INFLUENT	AX90219	01/27/09	001A	GAC Influent
OFB-51	JH1	AX90220	01/27/09	001A	Groundwater
OFB-52	JH2	AX90221	01/27/09	001A	Groundwater
MAFB-271	MAFB-271	AX90222	01/27/09	001A	Groundwater
MAFB-319	MAFB-319DF	AX90223	01/27/09	001A	Groundwater
MAFB-321	MAFB-321DF	AX90224	01/27/09	001A	Groundwater
MAFB-322	MAFB-322	AX90225	01/27/09	001A	Groundwater
MAFB-324	MAFB-324	AX90226	01/27/09	001A	Groundwater
MAFB-324 (MS)	MAFB-324	AX90226	01/27/09	001A	Matrix Spike
MAFB-324 (MSD)	MAFB-324	AX90226	01/27/09	001A	Matrix Spike Duplicate
MAFB-326	MAFB-326	AX90227	01/27/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-328	MAFB-328DF	AX90228	01/27/09	001A	Groundwater
MAFB-338	MAFB-338DF	AX90229	01/27/09	001A	Groundwater
MAFB-319 (FD)	MAFB-911	AX90230	01/27/09	001A	Field Duplicate
MAFB-324 (FD)	MAFB-918	AX90231	01/27/09	001A	Field Duplicate
OFB-27 (FD)	MAFB-926	AX90232	01/27/09	001A	Field Duplicate
OFB-52 (FD)	MAFB-927	AX90233	01/27/09	001A	Field Duplicate
OFB-27	MARS	AX90234	01/27/09	001A	Groundwater
OFB-27 (MS)	MARS	AX90234	01/27/09	001A	Matrix Spike
OFB-27 (MSD)	MARS	AX90234	01/27/09	001A	Matrix Spike Duplicate
OFB-04	MOONBEAM INFLUENT	AX90235	01/27/09	001A	GAC Influent
OFB-32	NUT PLAINS	AX90236	01/27/09	001A	Groundwater
OFB-49	OAKEN BUCKET	AX90237	01/27/09	001A	Groundwater
TB-01/27/09	OFB-MW-1	AX90238	01/27/09	001A	Trip Blank
OFB-54	SOUTH PORT	AX90239	01/27/09	001A	Groundwater
OFB-56	TALLYHO #2	AX90240	01/27/09	001A	Groundwater
7-PZ-37P	7-PZ-37(P)	AX90269	01/28/09	001A	Groundwater
7-PZ-37P (MS)	7-PZ-37(P)	AX90269	01/28/09	001A	Matrix Spike
7-PZ-37P (MSD)	7-PZ-37(P)	AX90269	01/28/09	001A	Matrix Spike Duplicate
TB-01/28/09	LF-MW-2	AX90270	01/28/09	001A	Trip Blank
MAFB-132	MAFB-132L	AX90271	01/28/09	001A	Groundwater
MAFB-149	MAFB-149	AX90272	01/28/09	001A	Groundwater
MAFB-284	MAFB-284	AX90273	01/28/09	001A	Groundwater
MAFB-413	MAFB-413	AX90274	01/28/09	001A	Groundwater
MAFB-424	MAFB-424	AX90275	01/28/09	001A	Groundwater
MAFB-424 (MS)	MAFB-424	AX90275	01/28/09	001A	Matrix Spike
MAFB-424 (MSD)	MAFB-424	AX90275	01/28/09	001A	Matrix Spike Duplicate
7-PZ-37P (FD)	MAFB-954	AX90276	01/28/09	001A	Field Duplicate
MAFB-424 (FD)	MAFB-982	AX90277	01/28/09	001A	Field Duplicate
TB-01/29/09	LF-MW-6	AX90362	01/29/09	001A	Trip Blank
MAFB-136	MAFB-136L	AX90363	01/29/09	001A	Groundwater
ACW PZ-05	ACW PZ-05DF	AX90404	01/30/09	001A	Groundwater
MAFB-432	MAFB-432DF	AX90405	01/30/09	001A	Groundwater
MAFB-433	MAFB-433DF	AX90406	01/30/09	001A	Groundwater
MAFB-433 (FD)	MAFB-942	AX90407	01/30/09	001A	Field Duplicate
MAFB-444	MAFB-444DF	AX90408	01/30/09	001A	Groundwater
MAFB-445	MAFB-445DF	AX90409	01/30/09	001A	Groundwater
MAFB-446	MAFB-446DF	AX90410	01/30/09	001A	Groundwater
MAFB-447	MAFB-447DF	AX90411	01/30/09	001A	Groundwater
MAFB-448	MAFB-448DF	AX90412	01/30/09	001A	Groundwater
MAFB-446 (FD)	MAFB-908	AX90413	01/30/09	001A	Field Duplicate
MAFB-449Bd	MAFB-449(Bd)DF	AX90427	01/30/09	001A	Groundwater
MAFB-449Bs	MAFB-449(Bs)DF	AX90428	01/30/09	001A	Groundwater
MAFB-457Bd	MAFB-457(Bd)DF	AX90429	01/30/09	001A	Groundwater
MAFB-457Bs	MAFB-457(Bs)DF	AX90430	01/30/09	001A	Groundwater
MAFB-458Bd	MAFB-458(Bd)DF	AX90431	01/30/09	001A	Groundwater
MAFB-458Bs	MAFB-458(Bs)DF	AX90432	01/30/09	001A	Groundwater
MAFB-439	MAFB-439	AX90433	01/30/09	001A	Groundwater
MAFB-450	MAFB-450DF	AX90434	01/30/09	001A	Groundwater
MAFB-459D	MAFB-459(D)DF	AX90435	01/30/09	001A	Groundwater
MAFB-459Dd	MAFB-459(Dd)DF	AX90436	01/30/09	001A	Groundwater
MAFB-457Bs (FD)	MAFB-900	AX90437	01/30/09	001A	Field Duplicate
TB-01/30/09	MBS-MW-1	AX90438	01/30/09	001A	Trip Blank

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 4)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-337	MAFB-337	AX90642	02/03/09	001A	Groundwater
TB-02/03/09	OFB-MW-2	AX90643	02/03/09	001A	Trip Blank
MAFB-441	MAFB-441DF	AX90644	02/03/09	001A	Groundwater
MAFB-451	MAFB-451DF	AX90645	02/03/09	001A	Groundwater
TB-02/03/09	LF-MW-4	AX90646	02/03/09	001A	Trip Blank
MAFB-111	MAFB-111	AX90647	02/03/09	001A	Groundwater
MAFB-129	MAFB-129	AX90648	02/03/09	001A	Groundwater
MAFB-288	MAFB-288	AX90649	02/03/09	001A	Groundwater
MAFB-400	MAFB-400	AX90650	02/03/09	001A	Groundwater
MAFB-400 (FD)	MAFB-935	AX90651	02/03/09	001A	Field Duplicate
ACW PTE	ACW PTE	AX90746	02/04/09	001A	Pump and Treat Effluent
ACW PTI (FD)	ACW AS	AX90747	02/04/09	001A	Field Duplicate
ACW PTE (FD)	ACW PTD	AX90748	02/04/09	001A	Field Duplicate
ACW PTE	ACW PTE	AX90749	02/04/09	001A	Pump and Treat Effluent
ACW PTE (MS)	ACW PTE	AX90749	02/04/09	001A	Matrix Spike
ACW PTE (MSD)	ACW PTE	AX90749	02/04/09	001A	Matrix Spike Duplicate
ACW PTI	ACW PTI	AX90750	02/04/09	001A	Pump and Treat Influent
ACW PTI (MS)	ACW PTI	AX90750	02/04/09	001A	Matrix Spike
ACW PTI (MSD)	ACW PTI	AX90750	02/04/09	001A	Matrix Spike Duplicate
ACW R2	ACW R2	AX90751	02/04/09	001A	Groundwater
MBS PTE AF	MBS PTE AF	AX90752	02/04/09	001A	Pump and Treat Effluent
MBS PTI (FD)	MBS AS	AX90753	02/04/09	001A	Field Duplicate
MBS PTE AF (FD)	MBS PTA	AX90754	02/04/09	001A	Field Duplicate
MBS PTE AF	MBS PTE AF	AX90755	02/04/09	001A	Pump and Treat Effluent
MBS PTE AF (MS)	MBS PTE AF	AX90755	02/04/09	001A	Matrix Spike
MBS PTE AF (MSD)	MBS PTE AF	AX90755	02/04/09	001A	Matrix Spike Duplicate
MBS PTI	MBS PTI	AX90756	02/04/09	001A	Pump and Treat Influent
MBS PTI (MS)	MBS PTI	AX90756	02/04/09	001A	Matrix Spike
MBS PTI (MSD)	MBS PTI	AX90756	02/04/09	001A	Matrix Spike Duplicate
TB-02/04/09	MBS PTT	AX90757	02/04/09	001A	Trip Blank
7-PTE	7-PTE	AX90758	02/04/09	001A	Pump and Treat Effluent
7-PTI (FD)	7-AS	AX90759	02/04/09	001A	Field Duplicate
7-PTE	7-PTE	AX90760	02/04/09	001A	Pump and Treat Effluent
7-PTI	7-PTI	AX90761	02/04/09	001A	Pump and Treat Influent
7-PTI (MS)	7-PTI	AX90761	02/04/09	001A	Matrix Spike
7-PTI (MSD)	7-PTI	AX90761	02/04/09	001A	Matrix Spike Duplicate
OFB-04M	MOONBEAM MID-GAC	AX90762	02/04/09	001A	Mid-GAC
OFB-04E	MOONBEAM EFFLUENT	AX90763	02/04/09	001A	GAC Effluent
TB-02/04/09	OFB-BLANK	AX90764	02/04/09	001A	Trip Blank
MAFB-397	MAFB-397DF	AX90952	02/09/09	001A	Groundwater
MAFB-434Bd	MAFB-434(Bd)DF	AX90953	02/09/09	001A	Groundwater
MAFB-434Bs	MAFB-434(Bs)DF	AX90954	02/09/09	001A	Groundwater
MAFB-434Bs (MS)	MAFB-434(Bs)DF	AX90954	02/09/09	001A	Matrix Spike
MAFB-434Bs (MSD)	MAFB-434(Bs)DF	AX90954	02/09/09	001A	Matrix Spike Duplicate
MAFB-434Bu	MAFB-434(Bu)DF	AX90955	02/09/09	001A	Groundwater
MAFB-435	MAFB-435DF	AX90956	02/09/09	001A	Groundwater
MAFB-437Dd	MAFB-437(Dd)DF	AX90957	02/09/09	001A	Groundwater
MAFB-437Ds	MAFB-437(Ds)DF	AX90958	02/09/09	001A	Groundwater
MAFB-438	MAFB-438DF	AX90959	02/09/09	001A	Groundwater
MAFB-434Bu (FD)	MAFB-983	AX90960	02/09/09	001A	Field Duplicate
TB-02/09/09	MBS-MW-3	AX90961	02/09/09	001A	Trip Blank
7-PTE	7-PTE	AX91508	02/19/09	001A	Pump and Treat Effluent

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MBS PTE AF	MBS PTE AF	AX91509	02/19/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AX91510	02/19/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX91511	02/19/09	001A	Pump and Treat Effluent
TB-02/19/09	7-PTT	AX91512	02/19/09	001A	Trip Blank
OFB-51/52M	JH MID-GAC	AX91605	02/24/09	001A	Mid-GAC
OFB-04E	MOONBEAM EFFLUENT	AX91606	02/24/09	001A	GAC Effluent
OFB-51/52I	JH INFLUENT	AX91620	02/24/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AX91621	02/24/09	001A	GAC Influent
TB-02/24/09	OFB-MW-1	AX91622	02/24/09	001A	Trip Blank
7-PTE	7-PTE	AX92057	03/05/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AX92058	03/05/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX92059	03/05/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX92060	03/05/09	001A	Pump and Treat Effluent
TB-03/05/09	7-PTT	AX92061	03/05/09	001A	Trip Blank
ACW PTE	ACW PTE	AX93059	03/19/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX93060	03/19/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX93061	03/19/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX93062	03/19/09	001A	Pump and Treat Effluent
TB-03/19/09	7-PTT	AX93063	03/19/09	001A	Trip Blank
MAFB-453C	MAFB-453(C)DF	AX93491	03/24/09	001A	Groundwater
MAFB-453	MAFB-453DF	AX93492	03/24/09	001A	Groundwater
MAFB-454C	MAFB-454(C)DF	AX93493	03/24/09	001A	Groundwater
MAFB-454	MAFB-454DF	AX93494	03/24/09	001A	Groundwater
MAFB-455	MAFB-455DF	AX93495	03/24/09	001A	Groundwater
MAFB-456C	MAFB-456(C)DF	AX93496	03/24/09	001A	Groundwater
MAFB-456	MAFB-456DF	AX93497	03/24/09	001A	Groundwater
MBS EW-13BuB	MBS EW-13Bu/B	AX93500	03/24/09	001A	Groundwater
MAFB-452B	MAFB-452(B)DF	AX93498	03/25/09	001A	Groundwater
MAFB-452Bu	MAFB-452(Bu)DF	AX93499	03/25/09	001A	Groundwater
TB-03/25/09	MBS-MW-13	AX93501	03/25/09	001A	Trip Blank
OFB-51/52I	JH INFLUENT	AX93965	03/31/09	001A	GAC Influent
OFB-51/52M	JH MID-GAC	AX93966	03/31/09	001A	Mid-GAC
OFB-04	MOONBEAM INFLUENT	AX93967	03/31/09	001A	GAC Influent
OFB-04M	MOONBEAM MID-GAC	AX93968	03/31/09	001A	Mid-GAC
TB-03/31/09	OFB-MW-1	AX93969	03/31/09	001A	Trip Blank

Notes:

FD - Field Duplicate
GAC - Granulated Activated Carbon
Mid-GAC - Between GAC Canisters
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) Field Batch Identification corresponds to the ERPIMS Field LOTCTLNUM.

Trip blanks in the ERPIMS Identification column have been named as follows: TB - (date of collection).

4.0 HOLDING TIMES

The tables presented in this section correspond to Table A-6 of the Handbook (Appendix A, Tab 6). This Summary of Extraction and Analysis Dates is divided into 11 tables grouped by method (Tables 4-1.1 through 4-1.11).

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
7-PTE	01/22/09	01/24/09	01/24/09
7-PTE	03/05/09	03/12/09	03/12/09
7-PTE	01/08/09	01/13/09	01/13/09
7-PTE	02/19/09	02/26/09	02/26/09
7-PTE	02/04/09	02/12/09	02/12/09
7-PTE	03/19/09	04/01/09	04/01/09
7-PTI	02/04/09	02/13/09	02/13/09
7-PTI (FD)	02/04/09	02/13/09	02/13/09
7-PTI (MS)	02/04/09	02/14/09	02/14/09
7-PTI (MSD)	02/04/09	02/14/09	02/14/09
7-PZ-37	01/26/09	02/04/09	02/04/09
7-PZ-37P	01/28/09	02/04/09	02/04/09
7-PZ-37P (FD)	01/28/09	02/04/09	02/04/09
7-PZ-37P (MS)	01/28/09	02/04/09	02/04/09
7-PZ-37P (MSD)	01/28/09	02/04/09	02/04/09
ACW PTE	02/04/09	02/12/09	02/12/09
ACW PTE	03/05/09	03/12/09	03/12/09
ACW PTE	01/22/09	01/24/09	01/24/09
ACW PTE	02/19/09	02/26/09	02/26/09
ACW PTE	01/08/09	01/13/09	01/13/09
ACW PTE	03/19/09	03/31/09	03/31/09
ACW PTI	02/04/09	02/13/09	02/13/09
ACW PTI (FD)	02/04/09	02/13/09	02/13/09
ACW PTI (MS)	02/04/09	02/14/09	02/14/09
ACW PTI (MSD)	02/04/09	02/14/09	02/14/09
ACW PZ-05	01/30/09	02/05/09	02/05/09
ACW R2	02/04/09	02/14/09	02/14/09
MAFB-132	01/28/09	02/04/09	02/04/09
MAFB-133	01/26/09	02/04/09	02/04/09
MAFB-133 (FD)	01/26/09	02/04/09	02/04/09
MAFB-133 (MS)	01/26/09	02/03/09	02/03/09
MAFB-133 (MSD)	01/26/09	02/03/09	02/03/09
MAFB-136	01/29/09	02/03/09	02/03/09
MAFB-149	01/28/09	02/04/09	02/04/09
MAFB-284	01/28/09	02/04/09	02/04/09
MAFB-293	01/26/09	02/02/09	02/02/09
MAFB-318	01/26/09	02/02/09	02/02/09
MAFB-354B	01/26/09	02/02/09	02/02/09
MAFB-354D	01/26/09	02/02/09	02/02/09
MAFB-378B	01/26/09	02/02/09	02/02/09
MAFB-378B (FD)	01/26/09	02/03/09	02/03/09
MAFB-378D	01/26/09	02/03/09	02/03/09
MAFB-378D (MS)	01/26/09	02/03/09	02/03/09
MAFB-378D (MSD)	01/26/09	02/03/09	02/03/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-388Ds	01/26/09	02/02/09	02/02/09
MAFB-397	02/09/09	02/21/09	02/21/09
MAFB-413	01/28/09	02/04/09	02/04/09
MAFB-424	01/28/09	02/04/09	02/04/09
MAFB-426	01/26/09	02/02/09	02/02/09
MAFB-432	01/30/09	02/05/09	02/05/09
MAFB-433	01/30/09	02/05/09	02/05/09
MAFB-433 (FD)	01/30/09	02/06/09	02/06/09
MAFB-434Bd	02/09/09	02/21/09	02/21/09
MAFB-434Bs	02/09/09	02/21/09	02/21/09
MAFB-434Bs (MS)	02/09/09	02/22/09	02/22/09
MAFB-434Bs (MSD)	02/09/09	02/22/09	02/22/09
MAFB-434Bu	02/09/09	02/23/09	02/23/09
MAFB-434Bu (FD)	02/09/09	02/23/09	02/23/09
MAFB-435	02/09/09	02/23/09	02/23/09
MAFB-437Dd	02/09/09	02/21/09	02/21/09
MAFB-437Ds	02/09/09	02/23/09	02/23/09
MAFB-438	02/09/09	02/23/09	02/23/09
MAFB-439	01/30/09	02/12/09	02/12/09
MAFB-440	01/26/09	02/04/09	02/04/09
MAFB-440P	01/26/09	02/04/09	02/04/09
MAFB-441	02/03/09	02/12/09	02/12/09
MAFB-442	01/26/09	02/03/09	02/03/09
MAFB-443	01/26/09	02/02/09	02/02/09
MAFB-444	01/30/09	02/05/09	02/05/09
MAFB-445	01/30/09	02/05/09	02/05/09
MAFB-446	01/30/09	02/05/09	02/05/09
MAFB-446 (FD)	01/30/09	02/05/09	02/05/09
MAFB-447	01/30/09	02/05/09	02/05/09
MAFB-448	01/30/09	02/05/09	02/05/09
MAFB-449Bd	01/30/09	02/05/09	02/05/09
MAFB-449Bs	01/30/09	02/05/09	02/05/09
MAFB-450	01/30/09	02/12/09	02/12/09
MAFB-451	02/03/09	02/12/09	02/12/09
MAFB-452B	03/25/09	04/04/09	04/04/09
MAFB-452Bu	03/25/09	04/04/09	04/04/09
MAFB-453	03/24/09	04/04/09	04/04/09
MAFB-453C	03/24/09	04/04/09	04/04/09
MAFB-454	03/24/09	04/04/09	04/04/09
MAFB-454C	03/24/09	04/04/09	04/04/09
MAFB-455	03/24/09	04/04/09	04/04/09
MAFB-456	03/24/09	04/04/09	04/04/09
MAFB-456C	03/24/09	04/04/09	04/04/09
MAFB-457Bd	01/30/09	02/05/09	02/05/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-457Bs	01/30/09	02/05/09	02/05/09
MAFB-457Bs (FD)	01/30/09	02/12/09	02/12/09
MAFB-458Bd	01/30/09	02/05/09	02/05/09
MAFB-458Bs	01/30/09	02/05/09	02/05/09
MAFB-459D	01/30/09	02/12/09	02/12/09
MAFB-459Dd	01/30/09	02/12/09	02/12/09
MBS EW-13BuB	03/24/09	04/04/09	04/04/09
MBS PTE AF	03/05/09	03/12/09	03/12/09
MBS PTE AF	03/19/09	04/01/09	04/01/09
MBS PTE AF	02/19/09	02/26/09	02/26/09
MBS PTE AF	01/08/09	01/13/09	01/13/09
MBS PTE AF	01/22/09	01/24/09	01/24/09
MBS PTE AF	02/04/09	02/12/09	02/12/09
MBS PTI	02/04/09	02/14/09	02/14/09
MBS PTI (FD)	02/04/09	02/14/09	02/14/09
MBS PTI (MS)	02/04/09	02/14/09	02/14/09
MBS PTI (MSD)	02/04/09	02/14/09	02/14/09
TB-01/08/09	01/08/09	01/13/09	01/13/09
TB-01/22/09	01/22/09	01/24/09	01/24/09
TB-01/26/09	01/26/09	02/04/09	02/04/09
TB-01/28/09	01/28/09	02/04/09	02/04/09
TB-01/29/09	01/29/09	02/03/09	02/03/09
TB-01/30/09	01/30/09	02/12/09	02/12/09
TB-02/03/09	02/03/09	02/12/09	02/12/09
TB-02/04/09	02/04/09	02/13/09	02/13/09
TB-02/09/09	02/09/09	02/21/09	02/21/09
TB-02/19/09	02/19/09	02/26/09	02/26/09
TB-03/05/09	03/05/09	03/12/09	03/12/09
TB-03/19/09	03/19/09	03/31/09	03/31/09
TB-03/25/09	03/25/09	04/04/09	04/04/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.2

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	USEPA 524.2 Date Prepared	USEPA 524.2 Date Analyzed
MAFB-271	01/27/09	02/05/09	02/05/09
MAFB-319	01/27/09	02/05/09	02/05/09
MAFB-319 (FD)	01/27/09	02/06/09	02/06/09
MAFB-321	01/27/09	02/05/09	02/05/09
MAFB-322	01/27/09	02/05/09	02/05/09
MAFB-324	01/27/09	02/05/09	02/05/09
MAFB-324 (FD)	01/27/09	02/06/09	02/06/09
MAFB-324 (MS)	01/27/09	02/06/09	02/06/09
MAFB-324 (MSD)	01/27/09	02/06/09	02/06/09
MAFB-326	01/27/09	02/06/09	02/06/09
MAFB-328	01/27/09	02/06/09	02/06/09
MAFB-337	02/03/09	02/17/09	02/17/09
MAFB-338	01/27/09	02/06/09	02/06/09
OFB-04	03/31/09	04/02/09	04/02/09
OFB-04	01/27/09	02/04/09	02/04/09
OFB-04	02/24/09	03/02/09	03/02/09
OFB-04E	02/04/09	02/06/09	02/06/09
OFB-04E	02/24/09	03/02/09	03/02/09
OFB-04M	02/04/09	02/06/09	02/06/09
OFB-04M	03/31/09	04/02/09	04/02/09
OFB-04M	01/27/09	02/03/09	02/03/09
OFB-27	01/27/09	02/04/09	02/04/09
OFB-27 (FD)	01/27/09	02/04/09	02/04/09
OFB-27 (MS)	01/27/09	02/06/09	02/06/09
OFB-27 (MSD)	01/27/09	02/06/09	02/06/09
OFB-31	01/27/09	02/05/09	02/05/09
OFB-32	01/27/09	02/04/09	02/04/09
OFB-49	01/27/09	02/05/09	02/05/09
OFB-51	01/27/09	02/05/09	02/05/09
OFB-51/52E	01/27/09	02/05/09	02/05/09
OFB-51/52E	01/14/09	01/16/09	01/16/09
OFB-51/52I	01/27/09	02/05/09	02/05/09
OFB-51/52I	03/31/09	04/02/09	04/02/09
OFB-51/52I	02/24/09	03/02/09	03/02/09
OFB-51/52M	01/27/09	02/03/09	02/03/09
OFB-51/52M	03/31/09	04/02/09	04/02/09
OFB-51/52M	02/24/09	03/02/09	03/02/09
OFB-51/52M	01/14/09	01/16/09	01/16/09
OFB-52	01/27/09	02/05/09	02/05/09
OFB-52 (FD)	01/27/09	02/04/09	02/04/09
OFB-54	01/27/09	02/05/09	02/05/09
OFB-56	01/27/09	02/05/09	02/05/09
TB-01/14/09	01/14/09	01/16/09	01/16/09
TB-01/27/09	01/27/09	02/04/09	02/04/09

TABLE 4-1.2

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	USEPA 524.2 Date Prepared	USEPA 524.2 Date Analyzed
TB-02/03/09	02/03/09	02/17/09	02/17/09
TB-02/04/09	02/04/09	02/06/09	02/06/09
TB-02/24/09	02/24/09	03/02/09	03/02/09
TB-03/31/09	03/31/09	04/02/09	04/02/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.3

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	TPH as Diesel		TPH as Gasoline	
		Date Prepared	Date Analyzed	Date Prepared	Date Analyzed
7-PTE	01/22/09	--	--	02/04/09	02/04/09
7-PTE	03/05/09	--	--	03/17/09	03/17/09
7-PTE	01/08/09	--	--	01/21/09	01/21/09
7-PTE	02/19/09	--	--	03/04/09	03/04/09
7-PTE	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
7-PTE	03/19/09	--	--	03/28/09	03/28/09
7-PTI	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
7-PTI (FD)	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
7-PTI (MS)	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
7-PTI (MSD)	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
7-PZ-37	01/26/09	01/28/09	01/29/09	02/04/09	02/04/09
7-PZ-37P	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
7-PZ-37P (FD)	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
7-PZ-37P (MS)	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
7-PZ-37P (MSD)	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
ACW PTE	02/04/09	02/10/09	02/25/09	--	--
ACW PTE (FD)	02/04/09	02/10/09	02/25/09	--	--
ACW PTE (MS)	02/04/09	02/10/09	02/25/09	--	--
ACW PTE (MSD)	02/04/09	02/10/09	02/25/09	--	--
MAFB-149	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
MAFB-284	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
MAFB-413	01/28/09	01/30/09	01/30/09	02/04/09	02/04/09
MAFB-439	01/30/09	02/04/09	02/05/09	02/11/09	02/11/09
MBS PTE AF	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
MBS PTI	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
MBS PTI (FD)	02/04/09	02/10/09	02/25/09	02/14/09	02/14/09
MBS PTI (MS)	02/04/09	02/10/09	03/04/09	02/14/09	02/14/09
MBS PTI (MSD)	02/04/09	02/10/09	02/25/09	02/15/09	02/15/09
TB-01/08/09	01/08/09	--	--	01/21/09	01/21/09
TB-01/22/09	01/22/09	--	--	02/03/09	02/03/09
TB-01/26/09	01/26/09	--	--	02/03/09	02/03/09
TB-01/28/09	01/28/09	--	--	02/04/09	02/04/09
TB-01/30/09	01/30/09	--	--	02/11/09	02/11/09
TB-02/04/09	02/04/09	--	--	02/14/09	02/14/09
TB-02/19/09	02/19/09	--	--	03/04/09	03/04/09
TB-03/05/09	03/05/09	--	--	03/17/09	03/17/09
TB-03/19/09	03/19/09	--	--	03/28/09	03/28/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.4

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	SW8270C Date Prepared	SW8270C Date Analyzed
MAFB-440	01/26/09	01/28/09	02/04/09
MAFB-440 (FD)	01/26/09	01/28/09	02/04/09
MAFB-440 (MS)	01/26/09	01/28/09	02/04/09
MAFB-440 (MSD)	01/26/09	01/28/09	02/04/09
MAFB-440P	01/26/09	01/28/09	02/04/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.5

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6010 - ICP METALS
USEPA METHOD 6020 - THALLIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 6010 Date Prepared	USEPA 6010 Date Analyzed	USEPA 6020 Date Prepared	USEPA 6020 Date Analyzed
7-PTE	02/04/09	02/11/09	02/18/09	--	--
7-PTI	02/04/09	02/11/09	02/18/09	--	--
7-PTI (FD)	02/04/09	02/11/09	02/18/09	--	--
7-PTI (MS)	02/04/09	02/11/09	02/18/09	--	--
7-PTI (MSD)	02/04/09	02/11/09	02/18/09	--	--
7-PZ-37	01/26/09	01/28/09	01/29/09	--	--
7-PZ-37P	01/28/09	01/30/09	02/02/09	--	--
7-PZ-37P (FD)	01/28/09	01/30/09	02/02/09	--	--
7-PZ-37P (MS)	01/28/09	01/30/09	02/02/09	--	--
7-PZ-37P (MSD)	01/28/09	01/30/09	02/02/09	--	--
ACW PTE	02/04/09	02/11/09	02/18/09	--	--
ACW PTI	02/04/09	02/11/09	02/18/09	--	--
ACW PTI (FD)	02/04/09	02/11/09	02/18/09	--	--
ACW PTI (MS)	02/04/09	02/11/09	02/18/09	--	--
ACW PTI (MSD)	02/04/09	02/11/09	02/18/09	--	--
MAFB-111	02/03/09	02/19/09	02/20/09	--	--
MAFB-129	02/03/09	02/19/09	02/20/09	--	--
MAFB-132	01/28/09	01/30/09	02/02/09	--	--
MAFB-133	01/26/09	01/28/09	01/29/09	--	--
MAFB-133 (FD)	01/26/09	01/28/09	01/29/09	--	--
MAFB-133 (MS)	01/26/09	01/28/09	01/29/09	--	--
MAFB-133 (MSD)	01/26/09	01/28/09	01/29/09	--	--
MAFB-136	01/29/09	02/02/09	02/03/09	--	--
MAFB-288	02/03/09	02/19/09	02/20/09	--	--
MAFB-400	02/03/09	02/19/09	02/20/09	--	--
MAFB-400 (FD)	02/03/09	02/19/09	02/20/09	--	--
MAFB-413	01/28/09	01/30/09	02/02/09	--	--
MAFB-424	01/28/09	01/30/09	02/02/09	--	--
MAFB-439	01/30/09	02/02/09	02/03/09	--	--
MBS PTE AF	02/04/09	02/11/09	02/18/09	02/13/09	02/26/09
MBS PTI	02/04/09	02/11/09	02/18/09	02/13/09	02/26/09
MBS PTI (FD)	02/04/09	02/11/09	02/18/09	02/13/09	02/26/09
MBS PTI (MS)	02/04/09	02/11/09	02/18/09	02/13/09	02/26/09
MBS PTI (MSD)	02/04/09	02/11/09	02/18/09	02/13/09	02/26/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.6

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 7470 - MERCURY
USEPA METHOD 7841 - THALLIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 7470 Date Prepared	USEPA 7470 Date Analyzed	USEPA 7841 Date Prepared	USEPA 7841 Date Analyzed
MAFB-132	01/28/09	01/30/09	02/04/09	02/02/09	02/03/09
MAFB-133	01/26/09	01/28/09	01/30/09	01/28/09	02/03/09
MAFB-133 (FD)	01/26/09	01/28/09	01/30/09	01/28/09	02/03/09
MAFB-133 (MS)	01/26/09	01/28/09	01/30/09	01/28/09	02/03/09
MAFB-133 (MSD)	01/26/09	01/28/09	01/30/09	01/28/09	02/03/09
MAFB-136	01/29/09	02/03/09	02/04/09	02/02/09	02/03/09
MAFB-424	01/28/09	01/30/09	02/04/09	02/02/09	02/03/09
MBS PTE AF	02/04/09	02/10/09	02/13/09	--	--
MBS PTI	02/04/09	02/10/09	02/13/09	--	--
MBS PTI (FD)	02/04/09	02/10/09	02/13/09	--	--
MBS PTI (MS)	02/04/09	02/10/09	02/13/09	--	--
MBS PTI (MSD)	02/04/09	02/10/09	02/13/09	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.7

SUMMARY OF EXTRACTION AND ANALYSIS DATES
STANDARD METHOD 2320 - ALKALINITY
USEPA METHOD 130.2 - HARDNESS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	SM 2320 Date Prepared	SM 2320 Date Analyzed	USEPA 130.2 Date Prepared	USEPA 130.2 Date Analyzed
7-PTE	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
7-PTI	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
7-PTI (FD)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
7-PTI (MS)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
7-PTI (MSD)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
ACW PTE	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
ACW PTI	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
ACW PTI (FD)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
ACW PTI (MS)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
ACW PTI (MSD)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
MAFB-132	01/28/09	02/05/09	02/05/09	--	--
MAFB-133	01/26/09	02/05/09	02/05/09	--	--
MAFB-133 (FD)	01/26/09	02/05/09	02/05/09	--	--
MAFB-133 (MS)	01/26/09	02/05/09	02/05/09	--	--
MAFB-133 (MSD)	01/26/09	02/05/09	02/05/09	--	--
MAFB-136	01/29/09	02/12/09	02/12/09	--	--
MAFB-424	01/28/09	02/05/09	02/05/09	--	--
MBS PTE AF	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
MBS PTI	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
MBS PTI (FD)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
MBS PTI (MS)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09
MBS PTI (MSD)	02/04/09	02/17/09	02/17/09	02/17/09	02/17/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.8

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 160.1 - TOTAL FILTERABLE RESIDUE
USEPA METHOD 160.2 - TOTAL SUSPENDED SOLIDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 160.1 Date Prepared	USEPA 160.1 Date Analyzed	USEPA 160.2 Date Prepared	USEPA 160.2 Date Analyzed
7-PTE	02/04/09	02/11/09	02/11/09	--	--
7-PTI	02/04/09	02/11/09	02/11/09	--	--
7-PTI (FD)	02/04/09	02/11/09	02/11/09	--	--
7-PTI (MS)	02/04/09	02/11/09	02/11/09	--	--
7-PTI (MSD)	02/04/09	02/11/09	02/11/09	--	--
ACW PTE	02/04/09	02/11/09	02/11/09	--	--
ACW PTI	02/04/09	02/11/09	02/11/09	--	--
ACW PTI (FD)	02/04/09	02/11/09	02/11/09	--	--
ACW PTI (MS)	02/04/09	02/11/09	02/11/09	--	--
ACW PTI (MSD)	02/04/09	02/11/09	02/11/09	--	--
MAFB-132	01/28/09	02/04/09	02/04/09	--	--
MAFB-133	01/26/09	01/31/09	01/31/09	--	--
MAFB-133 (FD)	01/26/09	01/31/09	01/31/09	--	--
MAFB-133 (MS)	01/26/09	01/31/09	01/31/09	--	--
MAFB-133 (MSD)	01/26/09	01/31/09	01/31/09	--	--
MAFB-136	01/29/09	02/04/09	02/04/09	--	--
MAFB-424	01/28/09	02/04/09	02/04/09	--	--
MBS PTE AF	02/04/09	02/11/09	02/11/09	02/11/09	02/11/09
MBS PTI	02/04/09	02/11/09	02/11/09	02/11/09	02/11/09
MBS PTI (FD)	02/04/09	02/11/09	02/11/09	02/11/09	02/11/09
MBS PTI (MS)	02/04/09	02/11/09	02/11/09	--	--
MBS PTI (MSD)	02/04/09	02/11/09	02/11/09	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.9

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 300.0 - CHLORIDE, NITRATE, AND SULFATE
USEPA METHOD 314.0 - PERCHLORATE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 300.0 Date Prepared	USEPA 300.0 Date Analyzed	USEPA 314.0 Date Prepared	USEPA 314.0 Date Analyzed
7-PTE	02/04/09	02/05/09	02/05/09	--	--
7-PTI	02/04/09	02/05/09	02/05/09	--	--
7-PTI (FD)	02/04/09	02/05/09	02/05/09	--	--
7-PTI (MS)	02/04/09	02/05/09	02/05/09	--	--
7-PTI (MSD)	02/04/09	02/05/09	02/05/09	--	--
ACW PTE	02/04/09	02/05/09	02/05/09	02/20/09	02/20/09
ACW PTE (FD)	02/04/09	--	--	02/20/09	02/20/09
ACW PTE (MS)	02/04/09	--	--	02/20/09	02/20/09
ACW PTE (MSD)	02/04/09	--	--	02/20/09	02/20/09
ACW PTI	02/04/09	02/05/09	02/05/09	--	--
ACW PTI (FD)	02/04/09	02/05/09	02/05/09	--	--
ACW PTI (MS)	02/04/09	02/05/09	02/05/09	--	--
ACW PTI (MSD)	02/04/09	02/05/09	02/05/09	--	--
MAFB-132	01/28/09	01/29/09	01/29/09	--	--
MAFB-133	01/26/09	01/27/09	01/27/09	--	--
MAFB-133 (FD)	01/26/09	01/27/09	01/27/09	--	--
MAFB-133 (MS)	01/26/09	01/27/09	01/27/09	--	--
MAFB-133 (MSD)	01/26/09	01/27/09	01/27/09	--	--
MAFB-136	01/29/09	01/30/09	01/30/09	--	--
MAFB-424	01/28/09	01/29/09	01/29/09	--	--
MBS PTE AF	02/04/09	02/05/09	02/05/09	02/20/09	02/20/09
MBS PTE AF (FD)	02/04/09	--	--	02/20/09	02/20/09
MBS PTE AF (MS)	02/04/09	--	--	02/20/09	02/20/09
MBS PTE AF (MSD)	02/04/09	--	--	02/20/09	02/20/09
MBS PTI	02/04/09	02/05/09	02/05/09	--	--
MBS PTI (FD)	02/04/09	02/05/09	02/05/09	--	--
MBS PTI (MS)	02/04/09	02/05/09	02/05/09	--	--
MBS PTI (MSD)	02/04/09	02/05/09	02/05/09	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.10

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 340.2 - FLUORIDE
USEPA METHOD 376.1 - TOTAL SULFIDE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 340.2 Date Prepared	USEPA 340.2 Date Analyzed	USEPA 376.1 Date Prepared		USEPA 376.1 Date Analyzed	
MAFB-132	01/28/09	02/02/09	02/02/09	01/29/09	*	01/29/09	*
MAFB-133	01/26/09	02/02/09	02/02/09	01/27/09		01/27/09	
MAFB-133 (FD)	01/26/09	02/02/09	02/02/09	01/27/09		01/27/09	
MAFB-133 (MS)	01/26/09	02/02/09	02/02/09	01/27/09		01/27/09	
MAFB-133 (MSD)	01/26/09	02/02/09	02/02/09	01/27/09		01/27/09	
MAFB-136	01/29/09	02/02/09	02/02/09	01/30/09		01/30/09	
MAFB-424	01/28/09	02/02/09	02/02/09	01/29/09		01/29/09	

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

* Analytical holding time requirement not met.

TABLE 4-1.11

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 7196 - HEXAVALENT CHROMIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 7196 Date Prepared	USEPA 7196 Date Analyzed
MAFB-424	01/28/09	01/29/09	01/29/09
MAFB-424 (FD)	01/28/09	01/29/09	01/29/09
MAFB-424 (MS)	01/28/09	01/29/09	01/29/09
MAFB-424 (MSD)	01/28/09	01/29/09	01/29/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

5.0 QA/QC SUMMARY REPORT

The tables presented in this section correspond to Table A-7 of the Handbook (Appendix A, Tab 6), which has been separated into four distinct table types for this ADR. The Analytical Batch Summary (Table 5-1.1) contains the laboratory batch assignments of all field samples for each method utilized during the First Quarter Groundwater Monitoring event. The Matrix Spike and Matrix Spike Duplicate Batch Summary (Table 5-1.2) identifies which field samples are associated with each Matrix Spike/Matrix Spike Duplicate sample for each method utilized. Laboratory method blank results for each batch are addressed in the Analytical Data Summary (Section 2.0). The Laboratory Control Sample Recovery Summary (Tables 5-2.1 through 5-2.8) contains accuracy results for each LCS analyzed with its associated analytical batch. The Matrix Spike and Matrix Spike Duplicate Recovery Summary (Tables 5-3.1 through 5-3.8) contains precision and accuracy results for each MS/MSD duplicate pair analyzed.

Results for carbonate, bicarbonate, and hydroxide alkalinity are by calculation. As a result, no quality control data have been provided for these results.

Due to the limitations of the current Electronic Data Deliverable (EDD) format, Relative Percent Differences (RPD) in Tables 5-3.1 through 5-3.8 are calculated using MS/MSD percent recoveries, rather than actual observed values, and therefore should not be used for validation purposes. This deviation is limited to these tables only. Data validation qualifiers applied due to RPD nonconformances are based on the calculation from actual MS/MSD values.

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
SM 2320 Alkalinity	T090205A	02/05/09	MB-02/05/09 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-424
	T090212A	02/12/09	MB-02/12/09 MAFB-136
	T090217A	02/17/09	MB-02/17/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD) ACW PTI-02/04/09 (MS) ACW PTI-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
USEPA 130.2 Hardness	B090217A	02/17/09	MB-02/17/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD) ACW PTI-02/04/09 (MS) ACW PTI-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 160.1 Total Filterable Residue	M090131B	01/31/09	MB-01/31/09 MAFB-133
USEPA 160.1 Total Filterable Residue	M090131B (continued)	01/31/09	MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD)
	M090204C	02/04/09	MB-02/04/09 MAFB-132 MAFB-424
	M090204D	02/04/09	MB-02/04/09 MAFB-136
	M090211B	02/11/09	MB-02/11/09 ACW PTE-02/04/09 ACW PTI-02/04/09 (FD)
	M090211C	02/11/09	MB-02/11/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (MS) ACW PTI-02/04/09 (MSD)
	M090211E	02/11/09	MB-02/11/09 MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
	M090211F	02/11/09	MB-02/11/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD)
USEPA 160.2 Total Suspended Solids	M090210A	02/11/09	MB-02/11/09 MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D090127A	01/27/09	MB-01/27/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD)
	D090129A	01/29/09	MB-01/29/09 MAFB-132

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 300.0 Chloride, Nitrate, and Sulfate	D090129A (continued)	01/29/09	MAFB-424
	D090130A	01/30/09	MB-01/30/09 MAFB-136
	D090205A	02/05/09	MB-02/05/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD) ACW PTI-02/04/09 (MS) ACW PTI-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
USEPA 314.0 Perchlorate	D090220A	02/20/09	MB-02/20/09 ACW PTE-02/04/09 ACW PTE-02/04/09 (FD) ACW PTE-02/04/09 (MS) ACW PTE-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTE AF-02/04/09 (FD) MBS PTE AF-02/04/09 (MS) MBS PTE AF-02/04/09 (MSD)
USEPA 340.2 Fluoride	M090202A	02/02/09	MB-02/02/09 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-424
USEPA 376.1 Sulfide, total	090127A	01/27/09	MB-01/27/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 376.1 Sulfide, total (continued)	090129A	01/29/09	MB-01/29/09 MAFB-132 MAFB-424
	090130A	01/30/09	MB-01/30/09 MAFB-136
USEPA 524.2 VOCs	H090115A	01/16/09	MB-01/16/09 OFB-51/52E-01/14/09 OFB-51/52M-01/14/09 TB-01/14/09
	H090202A	02/03/09	MB-02/03/09 OFB-04M-01/27/09 OFB-51/52M-01/27/09
	H090204A	02/04/09	MB-02/04/09 OFB-04-01/27/09 OFB-27 OFB-27 (FD) OFB-27 (MS) OFB-27 (MSD) OFB-32 OFB-49 OFB-52 (FD) OFB-54 OFB-56 TB-01/27/09
	H090205A	02/05/09	MB-02/05/09 MAFB-271 MAFB-319 MAFB-321 MAFB-322 MAFB-324 MAFB-324 (MS) MAFB-324 (MSD) OFB-31 OFB-51 OFB-51/52E-01/27/09 OFB-51/52I-01/27/09 OFB-52
	H090205B	02/05/09	MB-02/05/09 MAFB-319 (FD) MAFB-324 (FD) MAFB-326

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 12)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 524.2 VOCs	H090205B (continued)	02/06/09	MAFB-328 MAFB-338 OFB-04E-02/04/09 OFB-04M-02/04/09 TB-02/04/09
	H090301A	03/02/09	MB-03/02/09 OFB-04-02/24/09 OFB-04E-02/24/09 OFB-51/52I-02/24/09 OFB-51/52M-02/24/09 TB-02/24/09
	N090216A	02/17/09	MB-02/17/09 MAFB-337 TB-02/03/09
	N090401A	04/02/09	MB-04/02/09 OFB-04-03/31/09 OFB-04M-03/31/09 OFB-51/52I-03/31/09 OFB-51/52M-03/31/09 TB-03/31/09
USEPA 8015 Modified TPH as Diesel	A090128A	01/28/09	MB-01/28/09 7-PZ-37
	A090130A	01/30/09	MB-01/30/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-149 MAFB-284 MAFB-413
	A090204A	02/04/09	MB-02/04/09 MAFB-439
	A090210A	02/10/09	MB-02/10/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) ACW PTE-02/04/09 ACW PTE-02/04/09 (FD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 12)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 8015 Modified TPH as Diesel	A090210A (continued)	02/10/09	ACW PTE-02/04/09 (MS) ACW PTE-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
USEPA 8015 Modified TPH as Gasoline	H080211A	02/11/09	MB-02/11/09 MAFB-439 TB-01/30/09
	H090121A	01/21/09	MB-01/21/09 7-PTE-01/08/09 TB-01/08/09
	H090203A	02/03/09	MB-02/03/09 7-PTE-01/22/09 7-PZ-37 TB-01/22/09 TB-01/26/09
	H090204A	02/04/09	MB-02/04/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-149 MAFB-284 MAFB-413 TB-01/28/09
	H090215A	02/14/09	MB-02/14/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD) TB-02/04/09
	H090304A	03/04/09	MB-03/04/09 7-PTE-02/19/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 8015 Modified TPH as Gasoline	H090304A (continued)	03/04/09	TB-02/19/09
	H090317A	03/17/09	MB-03/17/09 7-PTE-03/05/09 TB-03/05/09
	H090328A	03/28/09	MB-03/28/09 7-PTE-03/19/09 TB-03/19/09
USEPA 6010 ICP Metals	P090128A	01/28/09	MB-01/28/09 7-PZ-37 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD)
	P090130A	01/30/09	MB-01/30/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-132 MAFB-413 MAFB-424
	P090202A	02/02/09	MB-02/02/09 MAFB-136 MAFB-439
	P090211B	02/11/09	MB-02/11/09 7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD) ACW PTI-02/04/09 (MS) ACW PTI-02/04/09 (MSD) MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 6010 ICP Metals (continued)	P090219A	02/19/09	MB-02/19/09 MAFB-111 MAFB-129 MAFB-288 MAFB-400 MAFB-400 (FD)
USEPA 6020 Thallium	S090213A	02/13/09	MB-02/13/09 MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
USEPA 7196 Hexavalent Chromium	M090129A	01/29/09	MB-01/29/09 MAFB-424 MAFB-424 (FD) MAFB-424 (MS) MAFB-424 (MSD)
USEPA 7470 Mercury	F090128A	01/28/09	MB-01/28/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD)
	F090130A	01/30/09	MB-01/30/09 MAFB-132 MAFB-424
	F090203A	02/03/09	MB-02/03/09 MAFB-136
	F090210A	02/10/09	MB-02/10/09 MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
USEPA 7841 Thallium	G090128A	01/28/09	MB-01/28/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 7841 Thallium (continued)	G090202A	02/02/09	MB-02/02/09 MAFB-132 MAFB-136 MAFB-424
USEPA 8260 VOCs	C090113A	01/13/09	MB-01/13/09 7-PTE-01/08/09 ACW PTE-01/08/09 MBS PTE AF-01/08/09 TB-01/08/09
	C090123A	01/24/09	MB-01/24/09 7-PTE-01/22/09 ACW PTE-01/22/09 MBS PTE AF-01/22/09 TB-01/22/09
	H090213A	02/13/09	MB-02/13/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) 7-PTI-02/04/09 (MS) 7-PTI-02/04/09 (MSD) ACW PTI-02/04/09 ACW PTI-02/04/09 (FD) ACW PTI-02/04/09 (MS) ACW PTI-02/04/09 (MSD) TB-02/04/09
	H090214A	02/14/09	MB-02/14/09 ACW R2 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD) MBS PTI-02/04/09 (MS) MBS PTI-02/04/09 (MSD)
	H090312A	03/12/09	MB-03/12/09 7-PTE-03/05/09 ACW PTE-03/05/09 MBS PTE AF-03/05/09 TB-03/05/09
	M090202A	02/02/09	MB-02/02/09 MAFB-293 MAFB-318 MAFB-354B MAFB-354D MAFB-378B

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 8260 VOCs (continued)	M090202A	02/02/09	MAFB-388Ds MAFB-426 MAFB-443
	M090203B	02/03/09	MB-02/03/09 MAFB-136 MAFB-378B (FD) MAFB-378D MAFB-378D (MS) MAFB-378D (MSD) MAFB-442 TB-01/29/09
	M090203C	02/04/09	MB-02/04/09 7-PZ-37 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-440 MAFB-440P TB-01/26/09
	M090204A	02/04/09	MB-02/04/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-132 MAFB-149 MAFB-284 MAFB-413 MAFB-424 TB-01/28/09
	M090204B	02/05/09	MB-02/05/09 MAFB-449Bd MAFB-449Bs MAFB-457Bd MAFB-457Bs MAFB-458Bd MAFB-458Bs
	M090205A	02/05/09	MB-02/05/09 ACW PZ-05 MAFB-432 MAFB-433

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 8260 VOCs	M090205A (continued)	02/05/09	MAFB-433 (FD) MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD) MAFB-447 MAFB-448
	M090211A	02/12/09	MB-02/12/09 MAFB-439 MAFB-441 MAFB-450 MAFB-451 MAFB-457Bs (FD) MAFB-459D MAFB-459Dd TB-01/30/09 TB-02/03/09
	N090212A	02/12/09	MB-02/12/09 7-PTE-02/04/09 ACW PTE-02/04/09 MBS PTE AF-02/04/09
	N090221A	02/21/09	MB-02/21/09 MAFB-397 MAFB-434Bd MAFB-434Bs MAFB-434Bs (MS) MAFB-434Bs (MSD) MAFB-437Dd TB-02/09/09
	N090403A	04/04/09	MB-04/04/09 MAFB-452B MAFB-452Bu MAFB-453 MAFB-453C MAFB-454 MAFB-454C MAFB-455 MAFB-456 MAFB-456C MBS EW-13BuB TB-03/25/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 8260 VOCs (continued)	S090223A	02/23/09	MB-02/23/09 MAFB-434Bu MAFB-434Bu (FD) MAFB-435 MAFB-437Ds MAFB-438
	S090226A	02/26/09	MB-02/26/09 7-PTE-02/19/09 ACW PTE-02/19/09 MBS PTE AF-02/19/09 TB-02/19/09
	S090331A	03/31/09	MB-03/31/09 7-PTE-03/19/09 ACW PTE-03/19/09 MBS PTE AF-03/19/09 TB-03/19/09
USEPA 8270 PAHs	Y090128A	01/28/09	MB-01/28/09 MAFB-440 MAFB-440 (FD) MAFB-440 (MS) MAFB-440 (MSD) MAFB-440P

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
PAHs - Polynuclear Aromatic Hydrocrabons
SM - Standard Methods
TB - Trip Blank
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
SM 2320 Alkalinity	7-PTI-02/04/09	7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	ACW PTI-02/04/09	ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-02/04/09	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 130.2 Hardness	7-PTI-02/04/09	7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	ACW PTI-02/04/09	ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD)
	MBS PTI-02/04/09	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 160.1 Total Filterable Residue	7-PTI-02/04/09	7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	ACW PTI-02/04/09	ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-02/04/09	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 160.2 Total Suspended Solids	NA	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	7-PTI-02/04/09	7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	ACW PTI-02/04/09	ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-02/04/09	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 314.0 Perchlorate	ACW PTE-02/04/09	ACW PTE-02/04/09 ACW PTE-02/04/09 (FD)
	MBS PTE AF-02/04/09	MBS PTE AF-02/04/09 MBS PTE AF-02/04/09 (FD)
USEPA 340.2 Fluoride	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
USEPA 376.1 Sulfide, total	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
USEPA 524.2 VOCs	MAFB-324	MAFB-271 MAFB-319 MAFB-319 (FD) MAFB-321 MAFB-322 MAFB-324 MAFB-324 (FD) MAFB-326

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 524.2 VOCs	MAFB-324 (continued)	MAFB-328 MAFB-337 MAFB-338 OFB-31 OFB-32 OFB-49 OFB-51 OFB-52 OFB-52 (FD) OFB-54 OFB-56
	OFB-27	OFB-04-01/27/09 OFB-04-02/24/09 OFB-04-03/31/09 OFB-04E-02/04/09 OFB-04E-02/24/09 OFB-04M-01/27/09 OFB-04M-02/04/09 OFB-04M-03/31/09 OFB-27 OFB-27 (FD) OFB-51/52E-01/14/09 OFB-51/52E-01/27/09 OFB-51/52I-01/27/09 OFB-51/52I-02/24/09 OFB-51/52I-03/31/09 OFB-51/52M-01/14/09 OFB-51/52M-01/27/09 OFB-51/52M-02/24/09 OFB-51/52M-03/31/09
USEPA 8015 Modified TPH as Diesel	7-PTI-02/04/09	7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-149 MAFB-284 MAFB-413
	ACW PTE-02/04/09	ACW PTE-02/04/09 ACW PTE-02/04/09 (FD)
	MBS PTI-02/04/09	MAFB-439 MBS PTE AF-02/04/09

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 8015 Modified TPH as Diesel	MBS PTI-02/04/09 (continued)	MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 8015 Modified TPH as Gasoline	7-PTI-02/04/09	7-PTE-01/08/09 7-PTE-01/22/09 7-PTE-02/04/09 7-PTE-02/19/09 7-PTE-03/05/09 7-PTE-03/19/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-149 MAFB-284 MAFB-413
	MBS PTI-02/04/09	MAFB-439 MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 6010 ICP Metals	7-PTI-02/04/09	7-PTE-02/04/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD)
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-413 MAFB-424
	ACW PTI-02/04/09	ACW PTE-02/04/09 ACW PTI-02/04/09 ACW PTI-02/04/09 (FD)
	MAFB-133	MAFB-111 MAFB-129 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-288 MAFB-400 MAFB-400 (FD)

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 6010 ICP Metals (continued)	MBS PTI-02/04/09	MAFB-439 MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 6020 Thallium	MBS PTI-02/04/09	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 7196 Hexavalent Chromium	MAFB-424	MAFB-424 MAFB-424 (FD)
USEPA 7470 Thallium	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-02/04/09	MBS PTE AF-02/04/09 MBS PTI-02/04/09 MBS PTI-02/04/09 (FD)
USEPA 7841 Thallium	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
USEPA 8260 VOCs	7-PTI-02/04/09	7-PTE-01/08/09 7-PTE-01/22/09 7-PTE-02/04/09 7-PTE-02/19/09 7-PTE-03/05/09 7-PTE-03/19/09 7-PTI-02/04/09 7-PTI-02/04/09 (FD) MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD) MAFB-447 MAFB-448
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-149 MAFB-284

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 8260 VOCs (continued)	7-PZ-37P	MAFB-413
		MAFB-424
		MAFB-440
		MAFB-440P
	ACW PTI-02/04/09	ACW PTE-01/08/09
		ACW PTE-01/22/09
		ACW PTE-02/04/09
		ACW PTE-02/19/09
		ACW PTE-03/05/09
		ACW PTE-03/19/09
		ACW PTI-02/04/09
		ACW PTI-02/04/09 (FD)
		ACW PZ-05
		ACW R2
		MAFB-432
		MAFB-433
		MAFB-433 (FD)
		MAFB-453
		MAFB-453C
		MAFB-454
		MAFB-454C
		MAFB-455
		MAFB-456
		MAFB-456C
	MAFB-133	MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
	MAFB-378D	MAFB-293
		MAFB-318
		MAFB-354B
		MAFB-354D
		MAFB-378B
		MAFB-378B (FD)
		MAFB-378D
		MAFB-388Ds
		MAFB-426
		MAFB-439
		MAFB-442
		MAFB-443
		MAFB-449Bd
		MAFB-449Bs
		MAFB-450
		MAFB-457Bd
		MAFB-457Bs

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 8260 VOCs	MAFB-378D (continued)	MAFB-457Bs (FD)
		MAFB-458Bd
		MAFB-458Bs
	MAFB-434Bs	MAFB-397
		MAFB-434Bd
		MAFB-434Bs
		MAFB-434Bu
		MAFB-434Bu (FD)
		MAFB-435
		MAFB-437Dd
		MAFB-437Ds
		MAFB-438
		MAFB-441
		MAFB-451
		MAFB-452B
		MAFB-452Bu
		MAFB-459D
		MAFB-459Dd
	MBS PTI-02/04/09	MBS EW-13BuB
		MBS PTE AF-01/08/09
		MBS PTE AF-01/22/09
		MBS PTE AF-02/04/09
		MBS PTE AF-02/19/09
		MBS PTE AF-03/05/09
		MBS PTE AF-03/19/09
		MBS PTI-02/04/09
		MBS PTI-02/04/09 (FD)
USEPA 8270 PAHs	MAFB-440	MAFB-440
		MAFB-440 (FD)
		MAFB-440P

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
NA - Not Applicable
PAHs - Polynuclear Aromatic Hydrocarbons
SM - Standard Methods
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C090113A	1,1,1-Trichloroethane	91	67-132	yes
	1,1,2,2-Tetrachloroethane	99	63-128	yes
	1,1,2-Trichloroethane	102	75-125	yes
	1,1-Dichloroethane	95	69-133	yes
	1,1-Dichloroethene	91	68-130	yes
	1,2-Dichlorobenzene	97	71-122	yes
	1,2-Dichloroethane	93	69-132	yes
	1,2-Dichloropropane	91	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Benzene	95	81-122	yes
	Bromodichloromethane	96	76-121	yes
	Bromoform	91	69-128	yes
	Bromomethane	80	30-141	yes
	Carbon tetrachloride	95	66-138	yes
	Chlorobenzene	96	81-122	yes
	Chloroethane	106	58-133	yes
	Chloroform	96	69-128	yes
	Chloromethane	98	56-131	yes
	cis-1,2-Dichloroethene	96	72-126	yes
	cis-1,3-Dichloropropene	98	69-131	yes
	Dibromochloromethane	97	66-133	yes
	Dichlorodifluoromethane	116	30-153	yes
	Ethylbenzene	90	73-127	yes
	Methylene chloride	87	63-137	yes
	Tetrachloroethene	92	66-128	yes
	Toluene	89	77-122	yes
	trans-1,2-Dichloroethene	82	63-137	yes
	trans-1,3-Dichloropropene	94	59-135	yes
	Trichloroethene	90	70-127	yes
	Trichlorofluoromethane	99	57-129	yes
	Vinyl chloride	108	50-134	yes
	Xylenes, total	93	76-128	yes
C090123A	1,1,1-Trichloroethane	89	67-132	yes
	1,1,2,2-Tetrachloroethane	87	63-128	yes
	1,1,2-Trichloroethane	92	75-125	yes
	1,1-Dichloroethane	93	69-133	yes
	1,1-Dichloroethene	90	68-130	yes
	1,2-Dichlorobenzene	91	71-122	yes
	1,2-Dichloroethane	92	69-132	yes
	1,2-Dichloropropane	91	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Benzene	90	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C090123A (continued)	Bromodichloromethane	91	76-121	yes
	Bromoform	89	69-128	yes
	Bromomethane	102	30-141	yes
	Carbon tetrachloride	88	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	96	58-133	yes
	Chloroform	91	69-128	yes
	Chloromethane	82	56-131	yes
	cis-1,2-Dichloroethene	92	72-126	yes
	cis-1,3-Dichloropropene	87	69-131	yes
	Dibromochloromethane	92	66-133	yes
	Dichlorodifluoromethane	93	30-153	yes
	Ethylbenzene	91	73-127	yes
	Methylene chloride	93	63-137	yes
	Tetrachloroethene	91	66-128	yes
	Toluene	89	77-122	yes
	trans-1,2-Dichloroethene	89	63-137	yes
	trans-1,3-Dichloropropene	87	59-135	yes
	Trichloroethene	93	70-127	yes
	Trichlorofluoromethane	96	57-129	yes
	Vinyl chloride	120	50-134	yes
	Xylenes, total	92	76-128	yes
H090213A	1,1,1-Trichloroethane	93	67-132	yes
	1,1,2,2-Tetrachloroethane	95	63-128	yes
	1,1,2-Trichloroethane	85	75-125	yes
	1,1-Dichloroethane	89	69-133	yes
	1,1-Dichloroethene	99	68-130	yes
	1,2-Dichlorobenzene	111	71-122	yes
	1,2-Dichloroethane	89	69-132	yes
	1,2-Dichloropropane	87	75-125	yes
	1,3-Dichlorobenzene	116	75-124	yes
	1,4-Dichlorobenzene	106	74-123	yes
	Benzene	94	81-122	yes
	Bromodichloromethane	92	76-121	yes
	Bromoform	84	69-128	yes
	Bromomethane	119	30-141	yes
	Carbon tetrachloride	94	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	98	58-133	yes
	Chloroform	91	69-128	yes
	Chloromethane	84	56-131	yes
	cis-1,2-Dichloroethene	88	72-126	yes
	cis-1,3-Dichloropropene	86	69-131	yes
	Dibromochloromethane	97	66-133	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090213A (continued)	Dichlorodifluoromethane	99	30-153	yes
	Ethylbenzene	98	73-127	yes
	Methylene chloride	94	63-137	yes
	Tetrachloroethene	102	66-128	yes
	Toluene	96	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	84	59-135	yes
	Trichloroethene	92	70-127	yes
	Trichlorofluoromethane	103	57-129	yes
	Vinyl chloride	101	50-134	yes
	Xylenes, total	103	76-128	yes
H090214A	1,1,1-Trichloroethane	94	67-132	yes
	1,1,2,2-Tetrachloroethane	91	63-128	yes
	1,1,2-Trichloroethane	95	75-125	yes
	1,1-Dichloroethane	90	69-133	yes
	1,1-Dichloroethene	89	68-130	yes
	1,2-Dichlorobenzene	91	71-122	yes
	1,2-Dichloroethane	92	69-132	yes
	1,2-Dichloropropane	90	75-125	yes
	1,3-Dichlorobenzene	89	75-124	yes
	1,4-Dichlorobenzene	87	74-123	yes
	Benzene	92	81-122	yes
	Bromodichloromethane	95	76-121	yes
	Bromoform	97	69-128	yes
	Bromomethane	92	30-141	yes
	Carbon tetrachloride	96	66-138	yes
	Chlorobenzene	86	81-122	yes
	Chloroethane	92	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	86	56-131	yes
	cis-1,2-Dichloroethene	92	72-126	yes
	cis-1,3-Dichloropropene	90	69-131	yes
	Dibromochloromethane	91	66-133	yes
	Dichlorodifluoromethane	96	30-153	yes
	Ethylbenzene	90	73-127	yes
	Methylene chloride	105	63-137	yes
	Tetrachloroethene	87	66-128	yes
	Toluene	89	77-122	yes
	trans-1,2-Dichloroethene	92	63-137	yes
	trans-1,3-Dichloropropene	87	59-135	yes
	Trichloroethene	92	70-127	yes
	Trichlorofluoromethane	92	57-129	yes
	Vinyl chloride	95	50-134	yes
	Xylenes, total	89	76-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090312A	1,1,1-Trichloroethane	100	67-132	yes
	1,1,2,2-Tetrachloroethane	110	63-128	yes
	1,1,2-Trichloroethane	106	75-125	yes
	1,1-Dichloroethane	97	69-133	yes
	1,1-Dichloroethene	108	68-130	yes
	1,2-Dichlorobenzene	101	71-122	yes
	1,2-Dichloroethane	107	69-132	yes
	1,2-Dichloropropane	108	75-125	yes
	1,3-Dichlorobenzene	103	75-124	yes
	1,4-Dichlorobenzene	108	74-123	yes
	Benzene	104	81-122	yes
	Bromodichloromethane	108	76-121	yes
	Bromoform	105	69-128	yes
	Bromomethane	103	30-141	yes
	Carbon tetrachloride	111	66-138	yes
	Chlorobenzene	104	81-122	yes
	Chloroethane	113	58-133	yes
	Chloroform	104	69-128	yes
	Chloromethane	110	56-131	yes
	cis-1,2-Dichloroethene	99	72-126	yes
	cis-1,3-Dichloropropene	113	69-131	yes
	Dibromochloromethane	99	66-133	yes
	Dichlorodifluoromethane	109	30-153	yes
	Ethylbenzene	100	73-127	yes
	Methylene chloride	109	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	105	63-137	yes
	trans-1,3-Dichloropropene	120	59-135	yes
	Trichloroethene	99	70-127	yes
	Trichlorofluoromethane	109	57-129	yes
	Vinyl chloride	118	50-134	yes
	Xylenes, total	101	76-128	yes
M090202A	1,1,1-Trichloroethane	98	67-132	yes
	1,1,2,2-Tetrachloroethane	96	63-128	yes
	1,1,2-Trichloroethane	98	75-125	yes
	1,1-Dichloroethane	110	69-133	yes
	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	93	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	101	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090202A (continued)	Bromodichloromethane	100	76-121	yes
	Bromoform	106	69-128	yes
	Bromomethane	91	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	94	58-133	yes
	Chloroform	98	69-128	yes
	Chloromethane	95	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	cis-1,3-Dichloropropene	102	69-131	yes
	Dibromochloromethane	95	66-133	yes
	Dichlorodifluoromethane	104	30-153	yes
	Ethylbenzene	102	73-127	yes
	Methylene chloride	111	63-137	yes
	Tetrachloroethene	89	66-128	yes
	Toluene	102	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	101	59-135	yes
	Trichloroethene	96	70-127	yes
	Trichlorofluoromethane	101	57-129	yes
	Vinyl chloride	96	50-134	yes
	Xylenes, total	100	76-128	yes
M090203B	1,1,1-Trichloroethane	106	67-132	yes
	1,1,2,2-Tetrachloroethane	92	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes
	1,1-Dichloroethane	112	69-133	yes
	1,1-Dichloroethene	98	68-130	yes
	1,2-Dichlorobenzene	93	71-122	yes
	1,2-Dichloroethane	91	69-132	yes
	1,2-Dichloropropane	93	75-125	yes
	1,3-Dichlorobenzene	95	75-124	yes
	1,4-Dichlorobenzene	92	74-123	yes
	Benzene	103	81-122	yes
	Bromodichloromethane	96	76-121	yes
	Bromoform	100	69-128	yes
	Bromomethane	97	30-141	yes
	Carbon tetrachloride	112	66-138	yes
	Chlorobenzene	92	81-122	yes
	Chloroethane	97	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	95	56-131	yes
	cis-1,2-Dichloroethene	104	72-126	yes
	cis-1,3-Dichloropropene	102	69-131	yes
	Dibromochloromethane	90	66-133	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090203B (continued)	Dichlorodifluoromethane	114	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	115	63-137	yes
	Tetrachloroethene	92	66-128	yes
	Toluene	108	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	99	59-135	yes
	Trichloroethene	101	70-127	yes
	Trichlorofluoromethane	111	57-129	yes
	Vinyl chloride	103	50-134	yes
	Xylenes, total	98	76-128	yes
M090203C	1,1,1-Trichloroethane	100	67-132	yes
	1,1,2,2-Tetrachloroethane	99	63-128	yes
	1,1,2-Trichloroethane	107	75-125	yes
	1,1-Dichloroethane	102	69-133	yes
	1,1-Dichloroethene	96	68-130	yes
	1,2-Dichlorobenzene	94	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	98	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	92	74-123	yes
	Benzene	102	81-122	yes
	Bromodichloromethane	104	76-121	yes
	Bromoform	106	69-128	yes
	Bromomethane	94	30-141	yes
	Carbon tetrachloride	103	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	91	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	90	56-131	yes
	cis-1,2-Dichloroethene	98	72-126	yes
	cis-1,3-Dichloropropene	105	69-131	yes
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	94	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	107	63-137	yes
	Tetrachloroethene	85	66-128	yes
	Toluene	104	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	106	59-135	yes
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	96	57-129	yes
	Vinyl chloride	92	50-134	yes
	Xylenes, total	99	76-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 14)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090204A	1,1,1-Trichloroethane	98	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	105	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichlorobenzene	91	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	96	75-125	yes
	1,3-Dichlorobenzene	90	75-124	yes
	1,4-Dichlorobenzene	89	74-123	yes
	Benzene	101	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	108	69-128	yes
	Bromomethane	88	30-141	yes
	Carbon tetrachloride	103	66-138	yes
	Chlorobenzene	96	81-122	yes
	Chloroethane	85	58-133	yes
	Chloroform	97	69-128	yes
	Chloromethane	87	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	cis-1,3-Dichloropropene	104	69-131	yes
	Dibromochloromethane	101	66-133	yes
	Dichlorodifluoromethane	101	30-153	yes
	Ethylbenzene	102	73-127	yes
	Methylene chloride	103	63-137	yes
	Tetrachloroethene	88	66-128	yes
	Toluene	104	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	104	59-135	yes
	Trichloroethene	97	70-127	yes
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	88	50-134	yes
	Xylenes, total	99	76-128	yes
M090204B	1,1,1-Trichloroethane	98	67-132	yes
	1,1,2,2-Tetrachloroethane	81	63-128	yes
	1,1,2-Trichloroethane	102	75-125	yes
	1,1-Dichloroethane	107	69-133	yes
	1,1-Dichloroethene	90	68-130	yes
	1,2-Dichlorobenzene	86	71-122	yes
	1,2-Dichloroethane	91	69-132	yes
	1,2-Dichloropropane	93	75-125	yes
	1,3-Dichlorobenzene	88	75-124	yes
	1,4-Dichlorobenzene	87	74-123	yes
	Benzene	100	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090204B (continued)	Bromodichloromethane	96	76-121	yes
	Bromoform	97	69-128	yes
	Bromomethane	86	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	91	81-122	yes
	Chloroethane	87	58-133	yes
	Chloroform	96	69-128	yes
	Chloromethane	91	56-131	yes
	cis-1,2-Dichloroethene	99	72-126	yes
	cis-1,3-Dichloropropene	95	69-131	yes
	Dibromochloromethane	90	66-133	yes
	Dichlorodifluoromethane	93	30-153	yes
	Ethylbenzene	98	73-127	yes
	Methylene chloride	102	63-137	yes
	Tetrachloroethene	84	66-128	yes
	Toluene	103	77-122	yes
	trans-1,2-Dichloroethene	93	63-137	yes
	trans-1,3-Dichloropropene	97	59-135	yes
	Trichloroethene	103	70-127	yes
	Trichlorofluoromethane	97	57-129	yes
	Vinyl chloride	92	50-134	yes
	Xylenes, total	97	76-128	yes
M090205A	1,1,1-Trichloroethane	100	67-132	yes
	1,1,2,2-Tetrachloroethane	98	63-128	yes
	1,1,2-Trichloroethane	112	75-125	yes
	1,1-Dichloroethane	97	69-133	yes
	1,1-Dichloroethene	98	68-130	yes
	1,2-Dichlorobenzene	91	71-122	yes
	1,2-Dichloroethane	106	69-132	yes
	1,2-Dichloropropane	102	75-125	yes
	1,3-Dichlorobenzene	89	75-124	yes
	1,4-Dichlorobenzene	89	74-123	yes
	Benzene	105	81-122	yes
	Bromodichloromethane	105	76-121	yes
	Bromoform	112	69-128	yes
	Bromomethane	88	30-141	yes
	Carbon tetrachloride	103	66-138	yes
	Chlorobenzene	94	81-122	yes
	Chloroethane	91	58-133	yes
	Chloroform	102	69-128	yes
	Chloromethane	87	56-131	yes
	cis-1,2-Dichloroethene	104	72-126	yes
	cis-1,3-Dichloropropene	109	69-131	yes
	Dibromochloromethane	99	66-133	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090205A (continued)	Dichlorodifluoromethane	97	30-153	yes
	Ethylbenzene	98	73-127	yes
	Methylene chloride	120	63-137	yes
	Tetrachloroethene	85	66-128	yes
	Toluene	109	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	109	59-135	yes
	Trichloroethene	102	70-127	yes
	Trichlorofluoromethane	91	57-129	yes
	Vinyl chloride	87	50-134	yes
	Xylenes, total	97	76-128	yes
M090211A	1,1,1-Trichloroethane	109	67-132	yes
	1,1,2,2-Tetrachloroethane	112	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	107	69-133	yes
	1,1-Dichloroethene	120	68-130	yes
	1,2-Dichlorobenzene	117	71-122	yes
	1,2-Dichloroethane	107	69-132	yes
	1,2-Dichloropropane	106	75-125	yes
	1,3-Dichlorobenzene	120	75-124	yes
	1,4-Dichlorobenzene	118	74-123	yes
	Benzene	109	81-122	yes
	Bromodichloromethane	113	76-121	yes
	Bromoform	96	69-128	yes
	Bromomethane	116	30-141	yes
	Carbon tetrachloride	120	66-138	yes
	Chlorobenzene	112	81-122	yes
	Chloroethane	104	58-133	yes
	Chloroform	114	69-128	yes
	Chloromethane	99	56-131	yes
	cis-1,2-Dichloroethene	112	72-126	yes
	cis-1,3-Dichloropropene	115	69-131	yes
	Dibromochloromethane	108	66-133	yes
	Dichlorodifluoromethane	120	30-153	yes
	Ethylbenzene	113	73-127	yes
	Methylene chloride	106	63-137	yes
	Tetrachloroethene	114	66-128	yes
	Toluene	110	77-122	yes
	trans-1,2-Dichloroethene	114	63-137	yes
	trans-1,3-Dichloropropene	102	59-135	yes
	Trichloroethene	104	70-127	yes
	Trichlorofluoromethane	118	57-129	yes
	Vinyl chloride	93	50-134	yes
	Xylenes, total	111	76-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090212A	1,1,1-Trichloroethane	108	67-132	yes
	1,1,2,2-Tetrachloroethane	81	63-128	yes
	1,1,2-Trichloroethane	92	75-125	yes
	1,1-Dichloroethane	97	69-133	yes
	1,1-Dichloroethene	96	68-130	yes
	1,2-Dichlorobenzene	93	71-122	yes
	1,2-Dichloroethane	95	69-132	yes
	1,2-Dichloropropane	89	75-125	yes
	1,3-Dichlorobenzene	91	75-124	yes
	1,4-Dichlorobenzene	93	74-123	yes
	Benzene	98	81-122	yes
	Bromodichloromethane	96	76-121	yes
	Bromoform	85	69-128	yes
	Bromomethane	90	30-141	yes
	Carbon tetrachloride	111	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	101	58-133	yes
	Chloroform	101	69-128	yes
	Chloromethane	91	56-131	yes
	cis-1,2-Dichloroethene	93	72-126	yes
	cis-1,3-Dichloropropene	92	69-131	yes
	Dibromochloromethane	87	66-133	yes
	Dichlorodifluoromethane	98	30-153	yes
	Ethylbenzene	93	73-127	yes
	Methylene chloride	96	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	90	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	93	59-135	yes
	Trichloroethene	100	70-127	yes
	Trichlorofluoromethane	114	57-129	yes
	Vinyl chloride	98	50-134	yes
	Xylenes, total	97	76-128	yes
N090221A	1,1,1-Trichloroethane	96	67-132	yes
	1,1,2,2-Tetrachloroethane	84	63-128	yes
	1,1,2-Trichloroethane	88	75-125	yes
	1,1-Dichloroethane	87	69-133	yes
	1,1-Dichloroethene	96	68-130	yes
	1,2-Dichlorobenzene	90	71-122	yes
	1,2-Dichloroethane	92	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	89	74-123	yes
	Benzene	93	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090221A (continued)	Bromodichloromethane	90	76-121	yes
	Bromoform	89	69-128	yes
	Bromomethane	104	30-141	yes
	Carbon tetrachloride	99	66-138	yes
	Chlorobenzene	92	81-122	yes
	Chloroethane	85	58-133	yes
	Chloroform	91	69-128	yes
	Chloromethane	82	56-131	yes
	cis-1,2-Dichloroethene	89	72-126	yes
	cis-1,3-Dichloropropene	90	69-131	yes
	Dibromochloromethane	90	66-133	yes
	Dichlorodifluoromethane	92	30-153	yes
	Ethylbenzene	97	73-127	yes
	Methylene chloride	83	63-137	yes
	Tetrachloroethene	90	66-128	yes
	Toluene	98	77-122	yes
	trans-1,2-Dichloroethene	91	63-137	yes
	trans-1,3-Dichloropropene	89	59-135	yes
	Trichloroethene	92	70-127	yes
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	88	50-134	yes
	Xylenes, total	94	76-128	yes
N090403A	1,1,1-Trichloroethane	91	67-132	yes
	1,1,2,2-Tetrachloroethane	86	63-128	yes
	1,1,2-Trichloroethane	89	75-125	yes
	1,1-Dichloroethane	89	69-133	yes
	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichlorobenzene	92	71-122	yes
	1,2-Dichloroethane	91	69-132	yes
	1,2-Dichloropropane	87	75-125	yes
	1,3-Dichlorobenzene	99	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	96	81-122	yes
	Bromodichloromethane	90	76-121	yes
	Bromoform	86	69-128	yes
	Bromomethane	101	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	99	81-122	yes
	Chloroethane	120	58-133	yes
	Chloroform	95	69-128	yes
	Chloromethane	95	56-131	yes
	cis-1,2-Dichloroethene	98	72-126	yes
	cis-1,3-Dichloropropene	86	69-131	yes
	Dibromochloromethane	92	66-133	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090403A (continued)	Dichlorodifluoromethane	98	30-153	yes
	Ethylbenzene	96	73-127	yes
	Methylene chloride	114	63-137	yes
	Tetrachloroethene	103	66-128	yes
	Toluene	94	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	84	59-135	yes
	Trichloroethene	93	70-127	yes
	Trichlorofluoromethane	101	57-129	yes
	Vinyl chloride	97	50-134	yes
	Xylenes, total	102	76-128	yes
S090223A	1,1,1-Trichloroethane	105	67-132	yes
	1,1,2,2-Tetrachloroethane	105	63-128	yes
	1,1,2-Trichloroethane	105	75-125	yes
	1,1-Dichloroethane	111	69-133	yes
	1,1-Dichloroethene	112	68-130	yes
	1,2-Dichlorobenzene	93	71-122	yes
	1,2-Dichloroethane	110	69-132	yes
	1,2-Dichloropropane	103	75-125	yes
	1,3-Dichlorobenzene	93	75-124	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Benzene	101	81-122	yes
	Bromodichloromethane	101	76-121	yes
	Bromoform	86	69-128	yes
	Bromomethane	90	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	108	58-133	yes
	Chloroform	102	69-128	yes
	Chloromethane	108	56-131	yes
	cis-1,2-Dichloroethene	109	72-126	yes
	cis-1,3-Dichloropropene	105	69-131	yes
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	106	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	98	63-137	yes
	Tetrachloroethene	95	66-128	yes
	Toluene	97	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	105	59-135	yes
	Trichloroethene	97	70-127	yes
	Trichlorofluoromethane	107	57-129	yes
	Vinyl chloride	105	50-134	yes
	Xylenes, total	98	76-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
S090226A	1,1,1-Trichloroethane	93	67-132	yes
	1,1,2,2-Tetrachloroethane	92	63-128	yes
	1,1,2-Trichloroethane	85	75-125	yes
	1,1-Dichloroethane	93	69-133	yes
	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichlorobenzene	99	71-122	yes
	1,2-Dichloroethane	90	69-132	yes
	1,2-Dichloropropane	94	75-125	yes
	1,3-Dichlorobenzene	104	75-124	yes
	1,4-Dichlorobenzene	102	74-123	yes
	Benzene	93	81-122	yes
	Bromodichloromethane	95	76-121	yes
	Bromoform	86	69-128	yes
	Bromomethane	97	30-141	yes
	Carbon tetrachloride	95	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	94	58-133	yes
	Chloroform	93	69-128	yes
	Chloromethane	89	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	cis-1,3-Dichloropropene	92	69-131	yes
	Dibromochloromethane	97	66-133	yes
	Dichlorodifluoromethane	98	30-153	yes
	Ethylbenzene	97	73-127	yes
	Methylene chloride	91	63-137	yes
	Tetrachloroethene	97	66-128	yes
	Toluene	90	77-122	yes
	trans-1,2-Dichloroethene	91	63-137	yes
	trans-1,3-Dichloropropene	89	59-135	yes
	Trichloroethene	92	70-127	yes
	Trichlorofluoromethane	97	57-129	yes
	Vinyl chloride	110	50-134	yes
	Xylenes, total	99	76-128	yes
S090331A	1,1,1-Trichloroethane	98	67-132	yes
	1,1,2,2-Tetrachloroethane	92	63-128	yes
	1,1,2-Trichloroethane	84	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	103	68-130	yes
	1,2-Dichlorobenzene	100	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,3-Dichlorobenzene	99	75-124	yes
	1,4-Dichlorobenzene	102	74-123	yes
	Benzene	100	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANICE COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
S090331A (continued)	Bromodichloromethane	94	76-121	yes
	Bromoform	82	69-128	yes
	Bromomethane	111	30-141	yes
	Carbon tetrachloride	93	66-138	yes
	Chlorobenzene	94	81-122	yes
	Chloroethane	96	58-133	yes
	Chloroform	97	69-128	yes
	Chloromethane	102	56-131	yes
	cis-1,2-Dichloroethene	98	72-126	yes
	cis-1,3-Dichloropropene	93	69-131	yes
	Dibromochloromethane	83	66-133	yes
	Dichlorodifluoromethane	104	30-153	yes
	Ethylbenzene	96	73-127	yes
	Methylene chloride	107	63-137	yes
	Tetrachloroethene	95	66-128	yes
	Toluene	99	77-122	yes
	trans-1,2-Dichloroethene	108	63-137	yes
	trans-1,3-Dichloropropene	91	59-135	yes
	Trichloroethene	100	70-127	yes
	Trichlorofluoromethane	104	57-129	yes
	Vinyl chloride	105	50-134	yes
	Xylenes, total	99	76-128	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090115A	1,1,1,2-Tetrachloroethane	101	80-120	yes
	1,1,1-Trichloroethane	99	80-120	yes
	1,1,2,2-Tetrachloroethane	98	80-120	yes
	1,1,2-Trichloroethane	101	80-120	yes
	1,1-Dichloroethane	97	80-120	yes
	1,1-Dichloroethene	103	80-120	yes
	1,1-Dichloropropene	100	80-120	yes
	1,2,3-Trichlorobenzene	97	80-120	yes
	1,2,3-Trichloropropane	94	80-120	yes
	1,2,4-Trichlorobenzene	97	80-120	yes
	1,2,4-Trimethylbenzene	103	80-120	yes
	1,2-Dibromo-3-chloropropane	92	80-120	yes
	1,2-Dibromoethane	98	80-120	yes
	1,2-Dichlorobenzene	108	80-120	yes
	1,2-Dichloroethane	104	80-120	yes
	1,2-Dichloropropane	96	80-120	yes
	1,3,5-Trimethylbenzene	103	80-120	yes
	1,3-Dichlorobenzene	104	80-120	yes
	1,3-Dichloropropane	96	80-120	yes
	1,4-Dichlorobenzene	108	80-120	yes
	2,2-Dichloropropane	96	80-120	yes
	2-Chlorotoluene	102	80-120	yes
	4-Chlorotoluene	101	80-120	yes
	Benzene	100	80-120	yes
	Bromobenzene	97	80-120	yes
	Bromochloromethane	98	80-120	yes
	Bromodichloromethane	102	80-120	yes
	Bromoform	100	80-120	yes
	Bromomethane	89	80-120	yes
	Carbon tetrachloride	104	80-120	yes
	Chlorobenzene	102	80-120	yes
	Chloroethane	98	80-120	yes
	Chloroform	103	80-120	yes
	Chloromethane	104	80-120	yes
	cis-1,2-Dichloroethene	98	80-120	yes
	cis-1,3-Dichloropropene	98	80-120	yes
	Dibromochloromethane	104	80-120	yes
	Dibromomethane	106	80-120	yes
	Dichlorodifluoromethane	118	80-120	yes
	Ethylbenzene	100	80-120	yes
	Hexachlorobutadiene	103	80-120	yes
	Isopropylbenzene	103	80-120	yes
	Methylene chloride	91	80-120	yes
	n-Butylbenzene	103	80-120	yes
	n-Propylbenzene	101	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090115A (continued)	Naphthalene	102	80-120	yes
	p-Isopropyltoluene	102	80-120	yes
	sec-Butylbenzene	105	80-120	yes
	Styrene	100	80-120	yes
	t-Butylbenzene	99	80-120	yes
	Tetrachloroethene	103	80-120	yes
	Toluene	98	80-120	yes
	trans-1,2-Dichloroethene	99	80-120	yes
	trans-1,3-Dichloropropene	104	80-120	yes
	Trichloroethene	108	80-120	yes
	Trichlorofluoromethane	104	80-120	yes
	Vinyl chloride	89	80-120	yes
	Xylenes, total	99	80-120	yes
H090202A	1,1,1,2-Tetrachloroethane	102	80-120	yes
	1,1,1-Trichloroethane	100	80-120	yes
	1,1,2,2-Tetrachloroethane	99	80-120	yes
	1,1,2-Trichloroethane	96	80-120	yes
	1,1-Dichloroethane	96	80-120	yes
	1,1-Dichloroethene	101	80-120	yes
	1,1-Dichloropropene	98	80-120	yes
	1,2,3-Trichlorobenzene	86	80-120	yes
	1,2,3-Trichloropropane	100	80-120	yes
	1,2,4-Trichlorobenzene	91	80-120	yes
	1,2,4-Trimethylbenzene	99	80-120	yes
	1,2-Dibromo-3-chloropropane	84	80-120	yes
	1,2-Dibromoethane	96	80-120	yes
	1,2-Dichlorobenzene	99	80-120	yes
	1,2-Dichloroethane	98	80-120	yes
	1,2-Dichloropropane	100	80-120	yes
	1,3,5-Trimethylbenzene	100	80-120	yes
	1,3-Dichlorobenzene	100	80-120	yes
	1,3-Dichloropropane	96	80-120	yes
	1,4-Dichlorobenzene	102	80-120	yes
	2,2-Dichloropropane	95	80-120	yes
	2-Chlorotoluene	101	80-120	yes
	4-Chlorotoluene	94	80-120	yes
	Benzene	98	80-120	yes
	Bromobenzene	100	80-120	yes
	Bromochloromethane	98	80-120	yes
	Bromodichloromethane	100	80-120	yes
	Bromoform	94	80-120	yes
	Bromomethane	95	80-120	yes
	Carbon tetrachloride	102	80-120	yes
	Chlorobenzene	102	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090202A (continued)	Chloroethane	98	80-120	yes
	Chloroform	97	80-120	yes
	Chloromethane	90	80-120	yes
	cis-1,2-Dichloroethene	98	80-120	yes
	cis-1,3-Dichloropropene	95	80-120	yes
	Dibromochloromethane	101	80-120	yes
	Dibromomethane	95	80-120	yes
	Dichlorodifluoromethane	108	80-120	yes
	Ethylbenzene	102	80-120	yes
	Hexachlorobutadiene	94	80-120	yes
	Isopropylbenzene	104	80-120	yes
	Methylene chloride	105	80-120	yes
	n-Butylbenzene	98	80-120	yes
	n-Propylbenzene	103	80-120	yes
	Naphthalene	94	80-120	yes
	p-Isopropyltoluene	98	80-120	yes
	sec-Butylbenzene	102	80-120	yes
	Styrene	105	80-120	yes
	t-Butylbenzene	101	80-120	yes
	Tetrachloroethene	97	80-120	yes
	Toluene	97	80-120	yes
	trans-1,2-Dichloroethene	97	80-120	yes
	trans-1,3-Dichloropropene	90	80-120	yes
	Trichloroethene	96	80-120	yes
	Trichlorofluoromethane	105	80-120	yes
	Vinyl chloride	109	80-120	yes
	Xylenes, total	103	80-120	yes
H090204A	1,1,1,2-Tetrachloroethane	108	80-120	yes
	1,1,1-Trichloroethane	99	80-120	yes
	1,1,2,2-Tetrachloroethane	117	80-120	yes
	1,1,2-Trichloroethane	118	80-120	yes
	1,1-Dichloroethane	97	80-120	yes
	1,1-Dichloroethene	103	80-120	yes
	1,1-Dichloropropene	93	80-120	yes
	1,2,3-Trichlorobenzene	113	80-120	yes
	1,2,3-Trichloropropane	114	80-120	yes
	1,2,4-Trichlorobenzene	110	80-120	yes
	1,2,4-Trimethylbenzene	115	80-120	yes
	1,2-Dibromo-3-chloropropane	111	80-120	yes
	1,2-Dibromoethane	114	80-120	yes
	1,2-Dichlorobenzene	120	80-120	yes
	1,2-Dichloroethane	104	80-120	yes
	1,2-Dichloropropane	100	80-120	yes
	1,3,5-Trimethylbenzene	109	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090204A (continued)	1,3-Dichlorobenzene	120	80-120	yes
	1,3-Dichloropropane	111	80-120	yes
	1,4-Dichlorobenzene	119	80-120	yes
	2,2-Dichloropropane	95	80-120	yes
	2-Chlorotoluene	115	80-120	yes
	4-Chlorotoluene	107	80-120	yes
	Benzene	98	80-120	yes
	Bromobenzene	106	80-120	yes
	Bromochloromethane	98	80-120	yes
	Bromodichloromethane	109	80-120	yes
	Bromoform	118	80-120	yes
	Bromomethane	91	80-120	yes
	Carbon tetrachloride	102	80-120	yes
	Chlorobenzene	109	80-120	yes
	Chloroethane	106	80-120	yes
	Chloroform	105	80-120	yes
	Chloromethane	82	80-120	yes
	cis-1,2-Dichloroethene	103	80-120	yes
	cis-1,3-Dichloropropene	103	80-120	yes
	Dibromochloromethane	118	80-120	yes
	Dibromomethane	113	80-120	yes
	Dichlorodifluoromethane	108	80-120	yes
	Ethylbenzene	103	80-120	yes
	Hexachlorobutadiene	100	80-120	yes
	Isopropylbenzene	112	80-120	yes
	Methylene chloride	100	80-120	yes
	n-Butylbenzene	120	80-120	yes
	n-Propylbenzene	111	80-120	yes
	Naphthalene	108	80-120	yes
	p-Isopropyltoluene	112	80-120	yes
	sec-Butylbenzene	119	80-120	yes
	Styrene	114	80-120	yes
	t-Butylbenzene	109	80-120	yes
	Tetrachloroethene	105	80-120	yes
	Toluene	103	80-120	yes
	trans-1,2-Dichloroethene	100	80-120	yes
	trans-1,3-Dichloropropene	99	80-120	yes
	Trichloroethene	105	80-120	yes
	Trichlorofluoromethane	109	80-120	yes
	Vinyl chloride	96	80-120	yes
	Xylenes, total	111	80-120	yes
H090205A	1,1,1,2-Tetrachloroethane	103	80-120	yes
	1,1,1-Trichloroethane	102	80-120	yes
	1,1,2,2-Tetrachloroethane	88	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090205A (continued)	1,1,2-Trichloroethane	99	80-120	yes
	1,1-Dichloroethane	97	80-120	yes
	1,1-Dichloroethene	99	80-120	yes
	1,1-Dichloropropene	91	80-120	yes
	1,2,3-Trichlorobenzene	85	80-120	yes
	1,2,3-Trichloropropane	90	80-120	yes
	1,2,4-Trichlorobenzene	96	80-120	yes
	1,2,4-Trimethylbenzene	92	80-120	yes
	1,2-Dibromo-3-chloropropane	82	80-120	yes
	1,2-Dibromoethane	100	80-120	yes
	1,2-Dichlorobenzene	94	80-120	yes
	1,2-Dichloroethane	100	80-120	yes
	1,2-Dichloropropane	96	80-120	yes
	1,3,5-Trimethylbenzene	90	80-120	yes
	1,3-Dichlorobenzene	91	80-120	yes
	1,3-Dichloropropane	99	80-120	yes
	1,4-Dichlorobenzene	93	80-120	yes
	2,2-Dichloropropane	107	80-120	yes
	2-Chlorotoluene	94	80-120	yes
	4-Chlorotoluene	81	80-120	yes
	Benzene	92	80-120	yes
	Bromobenzene	88	80-120	yes
	Bromochloromethane	98	80-120	yes
	Bromodichloromethane	101	80-120	yes
	Bromoform	94	80-120	yes
	Bromomethane	107	80-120	yes
	Carbon tetrachloride	107	80-120	yes
	Chlorobenzene	102	80-120	yes
	Chloroethane	108	80-120	yes
	Chloroform	100	80-120	yes
	Chloromethane	84	80-120	yes
	cis-1,2-Dichloroethene	100	80-120	yes
	cis-1,3-Dichloropropene	98	80-120	yes
	Dibromochloromethane	111	80-120	yes
	Dibromomethane	98	80-120	yes
	Dichlorodifluoromethane	107	80-120	yes
	Ethylbenzene	96	80-120	yes
	Hexachlorobutadiene	90	80-120	yes
	Isopropylbenzene	96	80-120	yes
	Methylene chloride	119	80-120	yes
	n-Butylbenzene	94	80-120	yes
	n-Propylbenzene	93	80-120	yes
	Naphthalene	84	80-120	yes
	p-Isopropyltoluene	91	80-120	yes
	sec-Butylbenzene	91	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090205A (continued)	Styrene	96	80-120	yes
	t-Butylbenzene	91	80-120	yes
	Tetrachloroethene	98	80-120	yes
	Toluene	94	80-120	yes
	trans-1,2-Dichloroethene	99	80-120	yes
	trans-1,3-Dichloropropene	94	80-120	yes
	Trichloroethene	97	80-120	yes
	Trichlorofluoromethane	110	80-120	yes
	Vinyl chloride	87	80-120	yes
	Xylenes, total	97	80-120	yes
H090205B	1,1,1,2-Tetrachloroethane	112	80-120	yes
	1,1,1-Trichloroethane	106	80-120	yes
	1,1,2,2-Tetrachloroethane	106	80-120	yes
	1,1,2-Trichloroethane	112	80-120	yes
	1,1-Dichloroethane	101	80-120	yes
	1,1-Dichloroethene	103	80-120	yes
	1,1-Dichloropropene	94	80-120	yes
	1,2,3-Trichlorobenzene	82	80-120	yes
	1,2,3-Trichloropropane	99	80-120	yes
	1,2,4-Trichlorobenzene	99	80-120	yes
	1,2,4-Trimethylbenzene	108	80-120	yes
	1,2-Dibromo-3-chloropropane	95	80-120	yes
	1,2-Dibromoethane	104	80-120	yes
	1,2-Dichlorobenzene	110	80-120	yes
	1,2-Dichloroethane	108	80-120	yes
	1,2-Dichloropropane	102	80-120	yes
	1,3,5-Trimethylbenzene	109	80-120	yes
	1,3-Dichlorobenzene	107	80-120	yes
	1,3-Dichloropropane	103	80-120	yes
	1,4-Dichlorobenzene	112	80-120	yes
	2,2-Dichloropropane	99	80-120	yes
	2-Chlorotoluene	109	80-120	yes
	4-Chlorotoluene	104	80-120	yes
	Benzene	90	80-120	yes
	Bromobenzene	101	80-120	yes
	Bromochloromethane	104	80-120	yes
	Bromodichloromethane	108	80-120	yes
	Bromoform	110	80-120	yes
	Bromomethane	99	80-120	yes
	Carbon tetrachloride	108	80-120	yes
	Chlorobenzene	106	80-120	yes
	Chloroethane	103	80-120	yes
	Chloroform	106	80-120	yes
	Chloromethane	87	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090205B (continued)	cis-1,2-Dichloroethene	104	80-120	yes
	cis-1,3-Dichloropropene	99	80-120	yes
	Dibromochloromethane	119	80-120	yes
	Dibromomethane	104	80-120	yes
	Dichlorodifluoromethane	94	80-120	yes
	Ethylbenzene	100	80-120	yes
	Hexachlorobutadiene	93	80-120	yes
	Isopropylbenzene	108	80-120	yes
	Methylene chloride	120	80-120	yes
	n-Butylbenzene	109	80-120	yes
	n-Propylbenzene	107	80-120	yes
	Naphthalene	92	80-120	yes
	p-Isopropyltoluene	106	80-120	yes
	sec-Butylbenzene	108	80-120	yes
	Styrene	105	80-120	yes
	t-Butylbenzene	108	80-120	yes
	Tetrachloroethene	100	80-120	yes
	Toluene	99	80-120	yes
	trans-1,2-Dichloroethene	102	80-120	yes
	trans-1,3-Dichloropropene	97	80-120	yes
	Trichloroethene	102	80-120	yes
	Trichlorofluoromethane	111	80-120	yes
	Vinyl chloride	86	80-120	yes
	Xylenes, total	104	80-120	yes
H090301A	1,1,1,2-Tetrachloroethane	99	80-120	yes
	1,1,1-Trichloroethane	106	80-120	yes
	1,1,2,2-Tetrachloroethane	95	80-120	yes
	1,1,2-Trichloroethane	90	80-120	yes
	1,1-Dichloroethane	98	80-120	yes
	1,1-Dichloroethene	111	80-120	yes
	1,1-Dichloropropene	109	80-120	yes
	1,2,3-Trichlorobenzene	102	80-120	yes
	1,2,3-Trichloropropane	97	80-120	yes
	1,2,4-Trichlorobenzene	105	80-120	yes
	1,2,4-Trimethylbenzene	99	80-120	yes
	1,2-Dibromo-3-chloropropane	86	80-120	yes
	1,2-Dibromoethane	99	80-120	yes
	1,2-Dichlorobenzene	98	80-120	yes
	1,2-Dichloroethane	97	80-120	yes
	1,2-Dichloropropane	99	80-120	yes
	1,3,5-Trimethylbenzene	103	80-120	yes
	1,3-Dichlorobenzene	92	80-120	yes
	1,3-Dichloropropane	91	80-120	yes
	1,4-Dichlorobenzene	91	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090301A (continued)	2,2-Dichloropropane	101	80-120	yes
	2-Chlorotoluene	96	80-120	yes
	4-Chlorotoluene	101	80-120	yes
	Benzene	102	80-120	yes
	Bromobenzene	93	80-120	yes
	Bromochloromethane	99	80-120	yes
	Bromodichloromethane	95	80-120	yes
	Bromoform	85	80-120	yes
	Bromomethane	118	80-120	yes
	Carbon tetrachloride	107	80-120	yes
	Chlorobenzene	99	80-120	yes
	Chloroethane	106	80-120	yes
	Chloroform	99	80-120	yes
	Chloromethane	94	80-120	yes
	cis-1,2-Dichloroethene	104	80-120	yes
	cis-1,3-Dichloropropene	96	80-120	yes
	Dibromochloromethane	92	80-120	yes
	Dibromomethane	81	80-120	yes
	Dichlorodifluoromethane	106	80-120	yes
	Ethylbenzene	102	80-120	yes
	Hexachlorobutadiene	104	80-120	yes
	Isopropylbenzene	102	80-120	yes
	Methylene chloride	104	80-120	yes
	n-Butylbenzene	100	80-120	yes
	n-Propylbenzene	103	80-120	yes
	Naphthalene	88	80-120	yes
	p-Isopropyltoluene	102	80-120	yes
	sec-Butylbenzene	103	80-120	yes
	Styrene	95	80-120	yes
	t-Butylbenzene	96	80-120	yes
	Tetrachloroethene	90	80-120	yes
	Toluene	100	80-120	yes
	trans-1,2-Dichloroethene	106	80-120	yes
	trans-1,3-Dichloropropene	97	80-120	yes
	Trichloroethene	99	80-120	yes
	Trichlorofluoromethane	113	80-120	yes
	Vinyl chloride	110	80-120	yes
	Xylenes, total	102	80-120	yes
N090216A	1,1,1,2-Tetrachloroethane	96	80-120	yes
	1,1,1-Trichloroethane	106	80-120	yes
	1,1,2,2-Tetrachloroethane	103	80-120	yes
	1,1,2-Trichloroethane	103	80-120	yes
	1,1-Dichloroethane	102	80-120	yes
	1,1-Dichloroethene	98	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090216A (continued)	1,1-Dichloropropene	97	80-120	yes
	1,2,3-Trichlorobenzene	102	80-120	yes
	1,2,3-Trichloropropane	120	80-120	yes
	1,2,4-Trichlorobenzene	96	80-120	yes
	1,2,4-Trimethylbenzene	93	80-120	yes
	1,2-Dibromo-3-chloropropane	87	80-120	yes
	1,2-Dibromoethane	98	80-120	yes
	1,2-Dichlorobenzene	97	80-120	yes
	1,2-Dichloroethane	92	80-120	yes
	1,2-Dichloropropane	94	80-120	yes
	1,3,5-Trimethylbenzene	94	80-120	yes
	1,3-Dichlorobenzene	98	80-120	yes
	1,3-Dichloropropane	100	80-120	yes
	1,4-Dichlorobenzene	107	80-120	yes
	2,2-Dichloropropane	98	80-120	yes
	2-Chlorotoluene	104	80-120	yes
	4-Chlorotoluene	102	80-120	yes
	Benzene	99	80-120	yes
	Bromobenzene	106	80-120	yes
	Bromochloromethane	91	80-120	yes
	Bromodichloromethane	103	80-120	yes
	Bromoform	111	80-120	yes
	Bromomethane	96	80-120	yes
	Carbon tetrachloride	115	80-120	yes
	Chlorobenzene	103	80-120	yes
	Chloroethane	97	80-120	yes
	Chloroform	96	80-120	yes
	Chloromethane	87	80-120	yes
	cis-1,2-Dichloroethene	97	80-120	yes
	cis-1,3-Dichloropropene	92	80-120	yes
	Dibromochloromethane	106	80-120	yes
	Dibromomethane	107	80-120	yes
	Dichlorodifluoromethane	87	80-120	yes
	Ethylbenzene	99	80-120	yes
	Hexachlorobutadiene	101	80-120	yes
	Isopropylbenzene	103	80-120	yes
	Methylene chloride	91	80-120	yes
	n-Butylbenzene	95	80-120	yes
	n-Propylbenzene	90	80-120	yes
	Naphthalene	109	80-120	yes
	p-Isopropyltoluene	96	80-120	yes
	sec-Butylbenzene	100	80-120	yes
	Styrene	104	80-120	yes
	t-Butylbenzene	93	80-120	yes
	Tetrachloroethene	106	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090216A (continued)	Toluene	104	80-120	yes
	trans-1,2-Dichloroethene	99	80-120	yes
	trans-1,3-Dichloropropene	98	80-120	yes
	Trichloroethene	108	80-120	yes
	Trichlorofluoromethane	90	80-120	yes
	Vinyl chloride	85	80-120	yes
	Xylenes, total	104	80-120	yes
N090401A	1,1,1,2-Tetrachloroethane	103	80-120	yes
	1,1,1-Trichloroethane	98	80-120	yes
	1,1,2,2-Tetrachloroethane	100	80-120	yes
	1,1,2-Trichloroethane	100	80-120	yes
	1,1-Dichloroethane	98	80-120	yes
	1,1-Dichloroethene	98	80-120	yes
	1,1-Dichloropropene	95	80-120	yes
	1,2,3-Trichlorobenzene	103	80-120	yes
	1,2,3-Trichloropropane	114	80-120	yes
	1,2,4-Trichlorobenzene	104	80-120	yes
	1,2,4-Trimethylbenzene	99	80-120	yes
	1,2-Dibromo-3-chloropropane	98	80-120	yes
	1,2-Dibromoethane	104	80-120	yes
	1,2-Dichlorobenzene	98	80-120	yes
	1,2-Dichloroethane	99	80-120	yes
	1,2-Dichloropropane	94	80-120	yes
	1,3,5-Trimethylbenzene	100	80-120	yes
	1,3-Dichlorobenzene	99	80-120	yes
	1,3-Dichloropropane	100	80-120	yes
	1,4-Dichlorobenzene	101	80-120	yes
	2,2-Dichloropropane	120	80-120	yes
	2-Chlorotoluene	97	80-120	yes
	4-Chlorotoluene	97	80-120	yes
	Benzene	90	80-120	yes
	Bromobenzene	97	80-120	yes
	Bromochloromethane	92	80-120	yes
	Bromodichloromethane	100	80-120	yes
	Bromoform	108	80-120	yes
	Bromomethane	96	80-120	yes
	Carbon tetrachloride	105	80-120	yes
	Chlorobenzene	99	80-120	yes
	Chloroethane	86	80-120	yes
	Chloroform	100	80-120	yes
	Chloromethane	94	80-120	yes
	cis-1,2-Dichloroethene	100	80-120	yes
	cis-1,3-Dichloropropene	97	80-120	yes
	Dibromochloromethane	103	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090401A (continued)	Dibromomethane	102	80-120	yes
	Dichlorodifluoromethane	103	80-120	yes
	Ethylbenzene	98	80-120	yes
	Hexachlorobutadiene	101	80-120	yes
	Isopropylbenzene	98	80-120	yes
	Methylene chloride	95	80-120	yes
	n-Butylbenzene	95	80-120	yes
	n-Propylbenzene	101	80-120	yes
	Naphthalene	116	80-120	yes
	p-Isopropyltoluene	99	80-120	yes
	sec-Butylbenzene	99	80-120	yes
	Styrene	97	80-120	yes
	t-Butylbenzene	96	80-120	yes
	Tetrachloroethene	99	80-120	yes
	Toluene	97	80-120	yes
	trans-1,2-Dichloroethene	95	80-120	yes
	trans-1,3-Dichloropropene	105	80-120	yes
	Trichloroethene	94	80-120	yes
	Trichlorofluoromethane	101	80-120	yes
	Vinyl chloride	94	80-120	yes
	Xylenes, total	97	80-120	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.3

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H080211A	TPH, gasoline-range	88	67-136	yes
H090121A	TPH, gasoline-range	100	67-136	yes
H090203A	TPH, gasoline-range	89	67-136	yes
H090204A	TPH, gasoline-range	86	67-136	yes
H090215A	TPH, gasoline-range	112	67-136	yes
H090304A	TPH, gasoline-range	97	67-136	yes
H090317A	TPH, gasoline-range	87	67-136	yes
H090328A	TPH, gasoline-range	87	67-136	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.4

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
A090128A	TPH, diesel-range	85	61-143	yes
A090130A	TPH, diesel-range	90	61-143	yes
A090204A	TPH, diesel-range	71	61-143	yes
A090210A	TPH, diesel-range	67	61-143	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
Y090128A	2-Methylnaphthalene	63	46-120	yes
	Acenaphthene	75	47-120	yes
	Acenaphthylene	72	50-120	yes
	Anthracene	76	54-120	yes
	Benzo(a)anthracene	75	56-120	yes
	Benzo(a)pyrene	71	53-120	yes
	Benzo(b)fluoranthene	67	45-124	yes
	Benzo(g,h,i)perylene	89	38-123	yes
	Benzo(k)fluoranthene	73	45-124	yes
	Chrysene	80	55-120	yes
	Dibenz(a,h)anthracene	84	42-127	yes
	Fluoranthene	77	54-120	yes
	Fluorene	78	50-120	yes
	Indeno(1,2,3-c,d)pyrene	87	43-125	yes
	Naphthalene	63	39-120	yes
	Phenanthrene	71	51-120	yes
	Pyrene	77	49-128	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 6010 - ICP METALS
USEPA METHOD 6020 - THALLIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 6010			
P090128A	Antimony	106	80-120	yes
	Arsenic	99	80-120	yes
	Barium	106	80-120	yes
	Beryllium	107	80-120	yes
	Cadmium	103	80-120	yes
	Chromium	108	80-120	yes
	Cobalt	108	80-120	yes
	Copper	105	80-120	yes
	Lead	104	80-120	yes
	Manganese	107	80-120	yes
	Nickel	106	80-120	yes
	Selenium	96	80-120	yes
	Silver	105	80-120	yes
	Vanadium	108	80-120	yes
	Zinc	104	80-120	yes
P090130A	Antimony	113	80-120	yes
	Arsenic	91	80-120	yes
	Barium	97	80-120	yes
	Beryllium	107	80-120	yes
	Cadmium	101	80-120	yes
	Chromium	105	80-120	yes
	Cobalt	102	80-120	yes
	Copper	89	80-120	yes
	Lead	108	80-120	yes
	Manganese	102	80-120	yes
	Nickel	100	80-120	yes
	Selenium	100	80-120	yes
	Silver	95	80-120	yes
	Vanadium	99	80-120	yes
	Zinc	98	80-120	yes
P090202A	Antimony	114	80-120	yes
	Arsenic	108	80-120	yes
	Barium	111	80-120	yes
	Beryllium	109	80-120	yes
	Cadmium	108	80-120	yes
	Chromium	113	80-120	yes
	Cobalt	112	80-120	yes
	Copper	110	80-120	yes
	Lead	111	80-120	yes
	Manganese	111	80-120	yes
P090202A	Nickel	110	80-120	yes

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 6010 - ICP METALS
USEPA METHOD 6020 - THALLIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
(continued)	Selenium	104	80-120	yes
	Silver	113	80-120	yes
	Vanadium	113	80-120	yes
	Zinc	107	80-120	yes
P090211B	Antimony	102	80-120	yes
	Arsenic	105	80-120	yes
	Barium	112	80-120	yes
	Beryllium	98	80-120	yes
	Cadmium	113	80-120	yes
	Calcium	96	80-120	yes
	Chromium	113	80-120	yes
	Cobalt	110	80-120	yes
	Copper	104	80-120	yes
	Iron	112	80-120	yes
	Lead	112	80-120	yes
	Magnesium	96	80-120	yes
	Manganese	97	80-120	yes
	Nickel	110	80-120	yes
	Selenium	100	80-120	yes
	Silver	104	80-120	yes
	Sodium	92	80-120	yes
	Vanadium	112	80-120	yes
	Zinc	107	80-120	yes
P090219A	Chromium	115	80-120	yes
	Nickel	111	80-120	yes
	USEPA 6020			
S090213A	Thallium	105	80-120	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.7

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS BY ATOMIC ABSORPTION
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 7470			
F090128A	Mercury	108	85-115	yes
F090130A	Mercury	98	85-115	yes
F090203A	Mercury	100	85-115	yes
F090210A	Mercury	100	85-115	yes
	USEPA 7841			
G090128A	Thallium	102	78-123	yes
G090202A	Thallium	102	78-123	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.8

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	SM 2320			
T090205A	Total Alkalinity	103	80-120	yes
T090212A	Total Alkalinity	109	80-120	yes
T090217A	Total Alkalinity	104	80-120	yes
	USEPA 130.2			
B090217A	Hardness as CaCO3	100	80-120	yes
	USEPA 160.1			
M090131B	Total Filterable Residue	94	80-120	yes
M090204C	Total Filterable Residue	101	80-120	yes
M090204D	Total Filterable Residue	101	80-120	yes
M090211B	Total Filterable Residue	99	80-120	yes
M090211C	Total Filterable Residue	93	80-120	yes
M090211E	Total Filterable Residue	99	80-120	yes
M090211F	Total Filterable Residue	96	80-120	yes
	USEPA 300.0			
D090127A	Chloride	95	85-115	yes
	Sulfate	99	85-115	yes
D090129A	Chloride	96	85-115	yes
	Sulfate	98	85-115	yes
D090130A	Chloride	97	85-115	yes
	Sulfate	98	85-115	yes
D090205A	Chloride	95	85-115	yes
	Nitrate (as N)	94	85-115	yes
	Sulfate	95	85-115	yes
	USEPA 314.0			
D090220A	Perchlorate	96	80-120	yes
	USEPA 340.2			
M090202A	Fluoride	104	86-114	yes

TABLE 5-2.8

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 376.1			
090127A	Sulfide, total	93	80-120	yes
090129A	Sulfide, total	88	80-120	yes
090130A	Sulfide, total	91	80-120	yes
	USEPA 7196			
M090129A	Hexavalent Chromium	104	86-117	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-02/04/09	1,1,1-Trichloroethane	108	107	67-132	yes	0.9	20	yes
	1,1,2,2-Tetrachloroethane	86	96	63-128	yes	10.7	20	yes
	1,1,2-Trichloroethane	88	86	75-125	yes	2.3	20	yes
	1,1-Dichloroethane	97	98	69-133	yes	1.5	20	yes
	1,1-Dichloroethene	117	111	68-130	yes	5.3	20	yes
	1,2-Dichlorobenzene	89	102	71-122	yes	14.0	20	yes
	1,2-Dichloroethane	86	90	69-132	yes	4.9	20	yes
	1,2-Dichloropropane	88	90	75-125	yes	2.1	20	yes
	1,3-Dichlorobenzene	93	102	75-124	yes	9.5	20	yes
	1,4-Dichlorobenzene	88	101	74-123	yes	14.0	20	yes
	Benzene	100	102	81-122	yes	2.3	20	yes
	Bromodichloromethane	90	89	76-121	yes	1.3	20	yes
	Bromoform	90	87	69-128	yes	3.7	20	yes
	Bromomethane	111	124	30-141	yes	11.1	20	yes
	Carbon tetrachloride	104	103	66-138	yes	1.0	20	yes
	Chlorobenzene	97	96	81-122	yes	0.8	20	yes
	Chloroethane	108	110	58-133	yes	1.8	20	yes
	Chloroform	95	95	69-128	yes	0.1	20	yes
	Chloromethane	98	104	56-131	yes	5.5	20	yes
	cis-1,2-Dichloroethene	88	91	72-126	yes	4.0	20	yes
	cis-1,3-Dichloropropene	79	83	69-131	yes	4.7	20	yes
	Dibromochloromethane	87	88	66-133	yes	0.9	20	yes
	Dichlorodifluoromethane	122	124	30-153	yes	1.6	20	yes
	Ethylbenzene	103	101	73-127	yes	2.0	20	yes
	Methylene chloride	111	116	63-137	yes	4.4	20	yes
	Tetrachloroethene	106	102	66-128	yes	3.9	20	yes
	Toluene	96	97	77-122	yes	1.7	20	yes
	trans-1,2-Dichloroethene	102	103	63-137	yes	1.0	20	yes
	trans-1,3-Dichloropropene	74	75	59-135	yes	1.6	20	yes
7-PTI-02/04/09	Trichloroethene	94	90	70-127	yes	4.4	20	yes
(continued)	Trichlorofluoromethane	117	110	57-129	yes	6.2	20	yes
	Vinyl chloride	117	119	50-134	yes	1.7	20	yes
	Xylenes, total	103	103	76-128	yes	0.0	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PZ-37P	1,1,1-Trichloroethane	97	102	67-132	yes	4.9	20	yes
	1,1,2,2-Tetrachloroethane	103	92	63-128	yes	10.9	20	yes
	1,1,2-Trichloroethane	111	97	75-125	yes	13.4	20	yes
	1,1-Dichloroethane	68	91	69-133	no	28.6*	20	no
	1,1-Dichloroethene	100	91	68-130	yes	9.0	20	yes
	1,2-Dichlorobenzene	95	91	71-122	yes	4.2	20	yes
	1,2-Dichloroethane	95	87	69-132	yes	8.8	20	yes
	1,2-Dichloropropane	98	93	75-125	yes	5.3	20	yes
	1,3-Dichlorobenzene	92	90	75-124	yes	2.2	20	yes
	1,4-Dichlorobenzene	92	91	74-123	yes	0.2	20	yes
	Benzene	103	103	81-122	yes	0.0	20	yes
	Bromodichloromethane	99	98	76-121	yes	1.5	20	yes
	Bromoform	106	101	69-128	yes	4.8	20	yes
	Bromomethane	80	91	30-141	yes	13.1	20	yes
	Carbon tetrachloride	104	107	66-138	yes	2.8	20	yes
	Chlorobenzene	94	94	81-122	yes	0.3	20	yes
	Chloroethane	91	92	58-133	yes	0.6	20	yes
	Chloroform	98	97	69-128	yes	0.8	20	yes
	Chloromethane	91	88	56-131	yes	3.7	20	yes
	cis-1,2-Dichloroethene	101	99	72-126	yes	2.0	20	yes
	cis-1,3-Dichloropropene	101	98	69-131	yes	2.9	20	yes
	Dibromochloromethane	99	89	66-133	yes	10.2	20	yes
	Dichlorodifluoromethane	103	97	30-153	yes	6.4	20	yes
	Ethylbenzene	99	102	73-127	yes	3.3	20	yes
7-PZ-37P	Methylene chloride	105	109	63-137	yes	3.7	20	yes
(continued)	Tetrachloroethene	76	81	66-128	yes	6.4	20	yes
	Toluene	106	107	77-122	yes	0.9	20	yes
	trans-1,2-Dichloroethene	97	96	63-137	yes	1.0	20	yes
	trans-1,3-Dichloropropene	99	99	59-135	yes	0.3	20	yes
	Trichloroethene	95	94	70-127	yes	1.1	20	yes
	Trichlorofluoromethane	92	101	57-129	yes	9.4	20	yes
	Vinyl chloride	104	98	50-134	yes	5.8	20	yes
	Xylenes, total	96	98	76-128	yes	2.7	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
ACW PTI-02/04/09	1,1,1-Trichloroethane	98	102	67-132	yes	3.7	20	yes
	1,1,2,2-Tetrachloroethane	71	77	63-128	yes	9.2	20	yes
	1,1,2-Trichloroethane	74.9	76	75-125	no	1.9	20	yes
	1,1-Dichloroethane	87	89	69-133	yes	1.7	20	yes
	1,1-Dichloroethene	105	104	68-130	yes	1.0	20	yes
	1,2-Dichlorobenzene	91	88	71-122	yes	3.1	20	yes
	1,2-Dichloroethane	78	78	69-132	yes	0.4	20	yes
	1,2-Dichloropropane	83	81	75-125	yes	2.2	20	yes
	1,3-Dichlorobenzene	88	92	75-124	yes	4.4	20	yes
	1,4-Dichlorobenzene	88	89	74-123	yes	1.4	20	yes
	Benzene	93	93	81-122	yes	0.2	20	yes
	Bromodichloromethane	84	83	76-121	yes	2.0	20	yes
	Bromoform	74	81	69-128	yes	9.5	20	yes
	Bromomethane	115	118	30-141	yes	2.6	20	yes
	Carbon tetrachloride	99	98	66-138	yes	1.8	20	yes
	Chlorobenzene	91	95	81-122	yes	4.4	20	yes
	Chloroethane	94	96	58-133	yes	2.2	20	yes
	Chloroform	87	88	69-128	yes	0.9	20	yes
	Chloromethane	85	90	56-131	yes	5.3	20	yes
ACW PTI-02/04/09 (continued)	cis-1,2-Dichloroethene	86	89	72-126	yes	3.5	20	yes
	cis-1,3-Dichloropropene	77	79	69-131	yes	3.0	20	yes
	Dibromochloromethane	85	83	66-133	yes	3.2	20	yes
	Dichlorodifluoromethane	106	99	30-153	yes	6.6	20	yes
	Ethylbenzene	99	100	73-127	yes	0.9	20	yes
	Methylene chloride	96	95	63-137	yes	0.6	20	yes
	Tetrachloroethene	110	107	66-128	yes	2.8	20	yes
	Toluene	90	90	77-122	yes	0.4	20	yes
	trans-1,2-Dichloroethene	98	96	63-137	yes	1.9	20	yes
	trans-1,3-Dichloropropene	73	73	59-135	yes	0.3	20	yes
	Trichloroethene	75	78	70-127	yes	3.9	20	yes
	Trichlorofluoromethane	105	101	57-129	yes	3.9	20	yes
	Vinyl chloride	100	98	50-134	yes	1.7	20	yes
	Xylenes, total	101	102	76-128	yes	1.0	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-133	1,1-Dichloroethene	94	94	68-130	yes	0.6	20	yes
	1,2-Dichloroethane	94	101	69-132	yes	6.8	20	yes
	1,2-Dichloropropane	96	98	75-125	yes	1.3	20	yes
	1,4-Dichlorobenzene	100	99	74-123	yes	0.8	20	yes
	Carbon tetrachloride	102	98	66-138	yes	3.8	20	yes
	Chloroform	100	96	69-128	yes	4.1	20	yes
	Chloromethane	89	87	56-131	yes	1.8	20	yes
	cis-1,2-Dichloroethene	98	97	72-126	yes	1.0	20	yes
	Tetrachloroethene	87	81	66-128	yes	7.1	20	yes
	Trichloroethene	102	98	70-127	yes	4.5	20	yes
	Vinyl chloride	96	97	50-134	yes	0.8	20	yes
MAFB-378D	1,1-Dichloroethene	92	91	68-130	yes	1.2	20	yes
	1,2-Dichloroethane	97	91	69-132	yes	6.9	20	yes
MAFB-378D	1,2-Dichloropropane	93	89	75-125	yes	4.3	20	yes
(continued)	1,4-Dichlorobenzene	87	92	74-123	yes	5.5	20	yes
	Carbon tetrachloride	104	100	66-138	yes	4.0	20	yes
	Chloroform	98	93	69-128	yes	5.4	20	yes
	Chloromethane	85	85	56-131	yes	0.6	20	yes
	cis-1,2-Dichloroethene	98	94	72-126	yes	4.6	20	yes
	Tetrachloroethene	90	86	66-128	yes	4.0	20	yes
	Trichloroethene	96	95	70-127	yes	0.8	20	yes
	Vinyl chloride	95	94	50-134	yes	0.7	20	yes
MAFB-434Bs	1,1,1-Trichloroethane	92	94	67-132	yes	2.2	20	yes
	1,1,2,2-Tetrachloroethane	79	88	63-128	yes	11.1	20	yes
	1,1,2-Trichloroethane	87	86	75-125	yes	1.4	20	yes
	1,1-Dichloroethane	92	87	69-133	yes	5.6	20	yes
	1,1-Dichloroethene	103	96	68-130	yes	7.6	20	yes
	1,2-Dichlorobenzene	85	89	71-122	yes	4.2	20	yes
	1,2-Dichloroethane	96	94	69-132	yes	1.9	20	yes
	1,2-Dichloropropane	100	95	75-125	yes	4.9	20	yes
	1,3-Dichlorobenzene	87	87	75-124	yes	0.6	20	yes
	1,4-Dichlorobenzene	82	87	74-123	yes	5.8	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Benzene	86	87	81-122	yes	1.4	20	yes
	Bromodichloromethane	88	91	76-121	yes	3.3	20	yes
	Bromoform	83	87	69-128	yes	3.9	20	yes
	Bromomethane	84	87	30-141	yes	3.0	20	yes
	Carbon tetrachloride	99	90	66-138	yes	8.7	20	yes
	Chlorobenzene	89	92	81-122	yes	3.3	20	yes
	Chloroethane	92	86	58-133	yes	7.0	20	yes
	Chloroform	92	84	69-128	yes	8.5	20	yes
	Chloromethane	89	85	56-131	yes	4.6	20	yes
MAFB-434Bs	cis-1,2-Dichloroethene	90	91	72-126	yes	0.9	20	yes
(continued)	cis-1,3-Dichloropropene	87	91	69-131	yes	4.7	20	yes
	Dibromochloromethane	87	90	66-133	yes	3.8	20	yes
	Dichlorodifluoromethane	107	109	30-153	yes	1.9	20	yes
	Ethylbenzene	88	90	73-127	yes	2.0	20	yes
	Methylene chloride	85	88	63-137	yes	3.4	20	yes
	Tetrachloroethene	93	91	66-128	yes	1.9	20	yes
	Toluene	94	85	77-122	yes	10.0	20	yes
	trans-1,2-Dichloroethene	94	90	63-137	yes	4.6	20	yes
	trans-1,3-Dichloropropene	92	85	59-135	yes	7.4	20	yes
	Trichloroethene	92	92	70-127	yes	0.1	20	yes
	Trichlorofluoromethane	98	95	57-129	yes	3.2	20	yes
	Vinyl chloride	96	88	50-134	yes	9.7	20	yes
	Xylenes, total	91	91	76-128	yes	0.0	20	yes
MBS PTI-02/04/09	1,1,1-Trichloroethane	92	99	67-132	yes	6.4	20	yes
	1,1,2,2-Tetrachloroethane	81	76	63-128	yes	6.1	20	yes
	1,1,2-Trichloroethane	78	77	75-125	yes	2.3	20	yes
	1,1-Dichloroethane	86	92	69-133	yes	6.5	20	yes
	1,1-Dichloroethene	101	107	68-130	yes	5.8	20	yes
	1,2-Dichlorobenzene	87	85	71-122	yes	2.4	20	yes
	1,2-Dichloroethane	78	82	69-132	yes	5.0	20	yes
	1,2-Dichloropropane	80	80	75-125	yes	0.0	20	yes
	1,3-Dichlorobenzene	88	88	75-124	yes	0.2	20	yes
	1,4-Dichlorobenzene	86	85	74-123	yes	0.4	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Benzene	90	94	81-122	yes	4.6	20	yes
	Bromodichloromethane	81	84	76-121	yes	3.0	20	yes
	Bromoform	81	73	69-128	yes	10.4	20	yes
	Bromomethane	106	119	30-141	yes	11.6	20	yes
MBS PTI-02/04/09	Carbon tetrachloride	92	96	66-138	yes	4.2	20	yes
(continued)	Chlorobenzene	97	95	81-122	yes	2.0	20	yes
	Chloroethane	94	96	58-133	yes	2.2	20	yes
	Chloroform	86	91	69-128	yes	5.5	20	yes
	Chloromethane	96	98	56-131	yes	3.0	20	yes
	cis-1,2-Dichloroethene	88	92	72-126	yes	4.1	20	yes
	cis-1,3-Dichloropropene	74	80	69-131	yes	7.4	20	yes
	Dibromochloromethane	85	90	66-133	yes	5.8	20	yes
	Dichlorodifluoromethane	116	121	30-153	yes	4.2	20	yes
	Ethylbenzene	102	101	73-127	yes	1.0	20	yes
	Methylene chloride	93	95	63-137	yes	1.5	20	yes
	Tetrachloroethene	98	101	66-128	yes	3.0	20	yes
	Toluene	90	91	77-122	yes	1.4	20	yes
	trans-1,2-Dichloroethene	94	97	63-137	yes	3.5	20	yes
	trans-1,3-Dichloropropene	75	73	59-135	yes	3.4	20	yes
	Trichloroethene	88	93	70-127	yes	5.5	20	yes
	Trichlorofluoromethane	107	115	57-129	yes	7.2	20	yes
	Vinyl chloride	105	112	50-134	yes	6.5	20	yes
	Xylenes, total	103	102	76-128	yes	1.0	20	yes

Notes:

RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent ecoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-324	1,1,1,2-Tetrachloroethane	92	96	80-120	yes	4.2	20	yes
	1,1,1-Trichloroethane	89	88	80-120	yes	1.3	20	yes
	1,1,2,2-Tetrachloroethane	92	89	80-120	yes	2.5	20	yes
	1,1,2-Trichloroethane	89	98	80-120	yes	9.5	20	yes
	1,1-Dichloroethane	89	90	80-120	yes	1.2	20	yes
	1,1-Dichloroethene	95	95	80-120	yes	0.1	20	yes
	1,1-Dichloropropene	90	92	80-120	yes	1.2	20	yes
	1,2,3-Trichlorobenzene	97	103	80-120	yes	5.6	20	yes
	1,2,3-Trichloropropane	100	105	80-120	yes	5.1	20	yes
	1,2,4-Trichlorobenzene	82	88	80-120	yes	7.3	20	yes
	1,2,4-Trimethylbenzene	92	93	80-120	yes	1.2	20	yes
	1,2-Dibromo-3-chloropropane	102	125	80-120	no	20.3	20	no
	1,2-Dibromoethane	95	104	80-120	yes	8.8	20	yes
	1,2-Dichlorobenzene	96	101	80-120	yes	4.7	20	yes
	1,2-Dichloroethane	91	97	80-120	yes	6.1	20	yes
	1,2-Dichloropropane	92	93	80-120	yes	0.9	20	yes
	1,3,5-Trimethylbenzene	95	95	80-120	yes	0.5	20	yes
	1,3-Dichlorobenzene	95	98	80-120	yes	3.0	20	yes
	1,3-Dichloropropane	90	97	80-120	yes	7.2	20	yes
	1,4-Dichlorobenzene	92	94	80-120	yes	2.4	20	yes
	2,2-Dichloropropane	92	93	80-120	yes	0.7	20	yes
	2-Chlorotoluene	96	96	80-120	yes	0.1	20	yes
	4-Chlorotoluene	91	93	80-120	yes	1.3	20	yes
	Benzene	90	89	80-120	yes	1.1	20	yes
	Bromobenzene	94	97	80-120	yes	3.0	20	yes
	Bromochloromethane	86	93	80-120	yes	7.5	20	yes
	Bromodichloromethane	96	100	80-120	yes	4.4	20	yes
	Bromoform	100	106	80-120	yes	6.1	20	yes
	Bromomethane	94	95	80-120	yes	1.0	20	yes
MAFB-324 (continued)	Carbon tetrachloride	97	98	80-120	yes	1.3	20	yes
	Chlorobenzene	95	97	80-120	yes	1.7	20	yes
	Chloroethane	89	89	80-120	yes	0.3	20	yes
	Chloroform	86	86	80-120	yes	0.1	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Chloromethane	77	83	80-120	no	7.2	20	yes
	cis-1,2-Dichloroethene	88	89	80-120	yes	1.3	20	yes
	cis-1,3-Dichloropropene	88	91	80-120	yes	3.1	20	yes
	Dibromochloromethane	99	104	80-120	yes	5.0	20	yes
	Dibromomethane	93	94	80-120	yes	1.4	20	yes
	Dichlorodifluoromethane	103	102	80-120	yes	1.0	20	yes
	Ethylbenzene	94	93	80-120	yes	1.1	20	yes
	Hexachlorobutadiene	98	92	80-120	yes	5.6	20	yes
	Isopropylbenzene	96	97	80-120	yes	0.8	20	yes
	Methylene chloride	75	74	80-120	no	0.5	20	yes
	n-Butylbenzene	91	93	80-120	yes	2.1	20	yes
	n-Propylbenzene	93	93	80-120	yes	0.4	20	yes
	Naphthalene	104	110	80-120	yes	5.6	20	yes
	p-Isopropyltoluene	94	92	80-120	yes	2.7	20	yes
	sec-Butylbenzene	92	92	80-120	yes	0.2	20	yes
	Styrene	97	99	80-120	yes	2.0	20	yes
	t-Butylbenzene	90	90	80-120	yes	0.0	20	yes
	Tetrachloroethene	81	81	80-120	yes	0.5	20	yes
	Toluene	91	91	80-120	yes	0.6	20	yes
	trans-1,2-Dichloroethene	89	91	80-120	yes	2.4	20	yes
	trans-1,3-Dichloropropene	95	100	80-120	yes	5.3	20	yes
	Trichloroethene	85	86	80-120	yes	1.5	20	yes
	Trichlorofluoromethane	100	102	80-120	yes	2.5	20	yes
	Vinyl chloride	90	91	80-120	yes	0.9	20	yes
	Xylenes, total	93	94	80-120	yes	0.8	20	yes
OFB-27	1,1,1,2-Tetrachloroethane	95	88	80-120	yes	8.0	20	yes
	1,1,1-Trichloroethane	88	84	80-120	yes	4.8	20	yes
	1,1,2,2-Tetrachloroethane	87	85	80-120	yes	2.4	20	yes
	1,1,2-Trichloroethane	91	88	80-120	yes	3.1	20	yes
	1,1-Dichloroethane	88	84	80-120	yes	5.1	20	yes
	1,1-Dichloroethene	95	91	80-120	yes	4.1	20	yes
	1,1-Dichloropropene	92	85	80-120	yes	7.9	20	yes
	1,2,3-Trichlorobenzene	99	96	80-120	yes	2.8	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,2,3-Trichloropropane	93	91	80-120	yes	2.2	20	yes
	1,2,4-Trichlorobenzene	85	81	80-120	yes	5.1	20	yes
	1,2,4-Trimethylbenzene	92	87	80-120	yes	5.5	20	yes
	1,2-Dibromo-3-chloropropane	112	104	80-120	yes	7.4	20	yes
	1,2-Dibromoethane	100	96	80-120	yes	4.4	20	yes
	1,2-Dichlorobenzene	96	94	80-120	yes	1.6	20	yes
	1,2-Dichloroethane	90	86	80-120	yes	4.7	20	yes
	1,2-Dichloropropane	91	85	80-120	yes	6.7	20	yes
	1,3,5-Trimethylbenzene	92	86	80-120	yes	7.5	20	yes
	1,3-Dichlorobenzene	95	91	80-120	yes	3.6	20	yes
	1,3-Dichloropropane	93	85	80-120	yes	8.4	20	yes
	1,4-Dichlorobenzene	92	87	80-120	yes	4.6	20	yes
	2,2-Dichloropropane	93	89	80-120	yes	4.5	20	yes
	2-Chlorotoluene	95	87	80-120	yes	9.2	20	yes
	4-Chlorotoluene	90	90	80-120	yes	0.8	20	yes
	Benzene	90	86	80-120	yes	4.5	20	yes
	Bromobenzene	93	89	80-120	yes	4.0	20	yes
	Bromochloromethane	89	85	80-120	yes	4.2	20	yes
	Bromodichloromethane	96	93	80-120	yes	3.5	20	yes
	Bromoform	106	106	80-120	yes	0.0	20	yes
	Bromomethane	102	100	80-120	yes	2.0	20	yes
OFB-27	Carbon tetrachloride	100	94	80-120	yes	5.4	20	yes
(continued)	Chlorobenzene	96	89	80-120	yes	6.6	20	yes
	Chloroethane	94	86	80-120	yes	8.9	20	yes
	Chloroform	87	85	80-120	yes	2.7	20	yes
	Chloromethane	89	81	80-120	yes	9.6	20	yes
	cis-1,2-Dichloroethene	87	83	80-120	yes	4.1	20	yes
	cis-1,3-Dichloropropene	88	84	80-120	yes	4.6	20	yes
	Dibromochloromethane	99	94	80-120	yes	5.5	20	yes
	Dibromomethane	90	87	80-120	yes	3.4	20	yes
	Dichlorodifluoromethane	115	108	80-120	yes	6.3	20	yes
	Ethylbenzene	92	87	80-120	yes	5.7	20	yes
	Hexachlorobutadiene	96	89	80-120	yes	7.6	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Isopropylbenzene	92	88	80-120	yes	4.3	20	yes
	Methylene chloride	71	70	80-120	no	2.4	20	yes
	n-Butylbenzene	93	89	80-120	yes	5.0	20	yes
	n-Propylbenzene	89	86	80-120	yes	4.0	20	yes
	Naphthalene	108	102	80-120	yes	5.7	20	yes
	p-Isopropyltoluene	92	90	80-120	yes	2.6	20	yes
	sec-Butylbenzene	91	87	80-120	yes	4.5	20	yes
	Styrene	95	90	80-120	yes	5.6	20	yes
	t-Butylbenzene	87	83	80-120	yes	5.5	20	yes
	Tetrachloroethene	82	78	80-120	no	5.2	20	yes
	Toluene	89	86	80-120	yes	3.6	20	yes
	trans-1,2-Dichloroethene	87	82	80-120	yes	6.8	20	yes
	trans-1,3-Dichloropropene	97	91	80-120	yes	5.9	20	yes
	Trichloroethene	85	82	80-120	yes	3.8	20	yes
	Trichlorofluoromethane	109	105	80-120	yes	3.7	20	yes
	Vinyl chloride	94	89	80-120	yes	5.5	20	yes
	Xylenes, total	92	87	80-120	yes	5.2	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

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TABLE 5-3.3

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-02/04/09	TPH, gasoline-range	116	109	67-136	yes	6.2	30	yes
7-PZ-37P	TPH, gasoline-range	93	89	67-136	yes	4.7	30	yes
MBS PTI-02/04/09	TPH, gasoline-range	103	95	67-136	yes	7.8	30	yes

Notes:
RPD - Relative Percent Difference

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TABLE 5-3.4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-02/04/09	TPH, diesel-range	64	64	61-143	yes	0.5	30	yes
7-PZ-37P	TPH, diesel-range	103	109	61-143	yes	5.7	30	yes
ACW PTE-02/04/09	TPH, diesel-range	89	72	61-143	yes	20.9	30	yes
MBS PTI-02/04/09	TPH, diesel-range	71	70	61-143	yes	0.9	30	yes

Notes:
RPD - Relative Percent Difference

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TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-440	2-Methylnaphthalene	62	68	46-120	yes	8.6	20	yes
	Acenaphthene	73	79	47-120	yes	7.8	20	yes
	Acenaphthylene	69	75	50-120	yes	8.2	20	yes
	Anthracene	74	75	54-120	yes	2.0	20	yes
	Benzo(a)anthracene	72	78	56-120	yes	7.9	20	yes
	Benzo(a)pyrene	71	77	53-120	yes	8.5	20	yes
	Benzo(b)fluoranthene	69	71	45-124	yes	4.2	20	yes
	Benzo(g,h,i)perylene	87	98	38-123	yes	11.6	20	yes
	Benzo(k)fluoranthene	75	77	45-124	yes	2.8	20	yes
	Chrysene	75	83	55-120	yes	10.4	20	yes
	Dibenz(a,h)anthracene	81	91	42-127	yes	10.7	20	yes
	Fluoranthene	75	82	54-120	yes	7.8	20	yes
	Fluorene	78	81	50-120	yes	3.8	20	yes
	Indeno(1,2,3-c,d)pyrene	81	91	43-125	yes	11.4	20	yes
	Naphthalene	62	67	39-120	yes	7.4	20	yes
	Phenanthrene	71	74	51-120	yes	3.7	20	yes
	Pyrene	74	79	49-128	yes	6.6	20	yes

Notes:
RPD - Relative Percent Difference

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 6010 - ICP METALS
USEPA METHOD 6020 - THALLIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	USEPA 6010							
7-PTI-02/04/09	Calcium	96	97	80-120	yes	0.8	20	yes
	Copper	101	101	80-120	yes	0.0	20	yes
	Iron	109	110	80-120	yes	0.9	20	yes
	Magnesium	96	97	80-120	yes	1.7	20	yes
	Manganese	96	97	80-120	yes	0.8	20	yes
	Sodium	91	93	80-120	yes	2.2	20	yes
	Zinc	105	106	80-120	yes	1.0	20	yes
7-PZ-37P	Lead	115	113	80-120	yes	1.8	20	yes
	Manganese	140	8	80-120	no	178.4*	20	no
ACW PTI-02/04/09	Calcium	45	47	80-120	no	3.5	20	yes
	Copper	102	102	80-120	yes	0.0	20	yes
	Iron	110	111	80-120	yes	0.9	20	yes
	Magnesium	78	79	80-120	no	0.5	20	yes
	Manganese	96	97	80-120	yes	1.2	20	yes
	Sodium	74	75	80-120	no	1.6	20	yes
	Zinc	108	108	80-120	yes	0.0	20	yes
MAFB-133	Antimony	107	110	80-120	yes	2.8	20	yes
	Arsenic	102	105	80-120	yes	2.9	20	yes
	Barium	106	108	80-120	yes	1.9	20	yes
	Beryllium	102	105	80-120	yes	2.9	20	yes
	Cadmium	102	104	80-120	yes	1.9	20	yes
	Chromium	106	109	80-120	yes	2.8	20	yes
	Cobalt	103	106	80-120	yes	2.9	20	yes
	Copper	103	108	80-120	yes	4.7	20	yes
MAFB-133	Lead	102	105	80-120	yes	2.9	20	yes
(continued)	Manganese	104	107	80-120	yes	2.8	20	yes
	Nickel	101	103	80-120	yes	2.0	20	yes
	Selenium	94	98	80-120	yes	3.3	20	yes

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 6010 - ICP METALS
USEPA METHOD 6020 - THALLIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Silver	109	113	80-120	yes	3.6	20	yes
	Vanadium	106	110	80-120	yes	3.7	20	yes
	Zinc	100	102	80-120	yes	2.0	20	yes
MBS PTI-02/04/09	Antimony	102	101	80-120	yes	1.0	20	yes
	Arsenic	106	106	80-120	yes	0.0	20	yes
	Barium	102	111	80-120	yes	8.5	20	yes
	Beryllium	98	97	80-120	yes	0.6	20	yes
	Cadmium	111	109	80-120	yes	1.8	20	yes
	Chromium	112	111	80-120	yes	0.9	20	yes
	Cobalt	108	106	80-120	yes	1.9	20	yes
	Copper	103	101	80-120	yes	2.0	20	yes
	Lead	110	108	80-120	yes	1.8	20	yes
	Manganese	97	95	80-120	yes	1.7	20	yes
	Nickel	106	105	80-120	yes	1.0	20	yes
	Selenium	100	98	80-120	yes	1.6	20	yes
	Silver	103	103	80-120	yes	0.0	20	yes
	Vanadium	111	110	80-120	yes	0.9	20	yes
	Zinc	109	107	80-120	yes	1.9	20	yes
	USEPA 6020							
MBS PTI-02/04/09	Thallium	107	115	80-120	yes	7.2	25	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent recoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

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TABLE 5-3.7

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS BY ATOMIC ABSORPTION
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	USEPA 7470							
MAFB-133	Mercury	116	116	85-115	no	0.0	15	yes
MBS PTI-02/04/09	Mercury	102	102	85-115	yes	0.0	15	yes
	USEPA 7841							
MAFB-133	Thallium	94	104	78-123	yes	9.7	15	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

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TABLE 5-3.8

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	SM 2320							
7-PTI-02/04/09	Total Alkalinity	102	104	80-120	yes	1.9	20	yes
ACW PTI-02/04/09	Total Alkalinity	104	103	80-120	yes	1.0	20	yes
MAFB-133	Total Alkalinity	104	104	80-120	yes	0.0	20	yes
MBS PTI-02/04/09	Total Alkalinity	105	105	80-120	yes	0.0	20	yes
	USEPA 130.2							
7-PTI-02/04/09	Hardness as CaCO3	93	103	80-120	yes	10.7	20	yes
ACW PTI-02/04/09	Hardness as CaCO3	100	110	80-120	yes	9.5	20	yes
MBS PTI-02/04/09	Hardness as CaCO3	110	100	80-120	yes	9.5	20	yes
	USEPA 160.1							
7-PTI-02/04/09	Total Filter Residue	93	89	80-120	yes	4.5	20	yes
ACW PTI-02/04/09	Total Filter Residue	92	96	80-120	yes	4.3	20	yes
MAFB-133	Total Filter Residue	100	103	80-120	yes	3.5	20	yes
MBS PTI-02/04/09	Total Filter Residue	103	99	80-120	yes	4.4	20	yes
	USEPA 300.0							
7-PTI-02/04/09	Chloride	99	100	85-115	yes	0.8	20	yes
	Nitrate (as N)	101	102	85-115	yes	1.0	20	yes
	Sulfate	97	98	85-115	yes	0.4	20	yes
	USEPA 300.0 (continued)							
ACW PTI-02/04/09	Chloride	95	96	85-115	yes	1.3	20	yes
	Nitrate (as N)	100	101	85-115	yes	1.0	20	yes
	Sulfate	92	94	85-115	yes	1.7	20	yes

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TABLE 5-3.8

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-133	Chloride	95	95	85-115	yes	0.0	20	yes
	Sulfate	97	99	85-115	yes	1.6	20	yes
MBS PTI-02/04/09	Chloride	99	99	85-115	yes	0.0	20	yes
	Nitrate (as N)	102	102	85-115	yes	0.0	20	yes
	Sulfate	98	98	85-115	yes	0.0	20	yes
	USEPA 314.0							
ACW PTE-02/04/09	Perchlorate	104	100	80-120	yes	3.9	15	yes
MBS PTE AF-02/04/09	Perchlorate	105	102	80-120	yes	2.9	15	yes
	USEPA 340.2							
MAFB-133	Fluoride	94	98	86-114	yes	4.5	20	yes
	USEPA 376.1							
MAFB-133	Sulfide, total	91	96	80-120	yes	5.0	20	yes
	USEPA 7196							
MAFB-424	Hexavalent Chromium	103	102	86-117	yes	1.0	15	yes

Notes:
RPD - Relative Percent Difference

6.0 CHAIN-OF-CUSTODY FORMS

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7972 3510 9860 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-4Q08
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951126.36010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	1/8/2009	913	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/8/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/9/09	10:30

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797235109860 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-4Q08
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951126.36010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	1/8/2009	813	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/8/2009	1120
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/9/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 799235109860 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-4Q08
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951126.36010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	1/8/2009	945	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	1/8/2009	945	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	1/8/2009	1045	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	1/8/2009	1045	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/8/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/9/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON
Name: MARK PREY
Phone #: 916-919-5383

FED EX #: 796254695061 Cooler #: 603 LOGCODE: MWWC LAB: APPL. IN.

SAMPLER(S) PRINTED NAME AND SIGNATURE: VENKATA GANESH NAGISETTI

PROJECT NAME: MATHER - OFF Base Sampling
AIR FORCE ID: MATHR
PROJECT NUMBER: 175126.36010801

SAMPLE DESCRIPTION	LOCID	SBD	SED	DATE	TIME	ERPIMS Codes SA	SN	SM	MC	Lot Control Number AB	EB	TB	CO	Sample Container BC	CT	PR	ANALYSIS REQUEST VOCs 524.2
JH-MidBAC	OFB-51/52M	0	0	1/14/08	10:38	W	1	GW	WG	0	0	1	A	3	G	C	X
JH-E/Mount	OFB-51/52E	0	0	1/14/08	10:42	W	1	GW	WG	0	0	1	A	3	G	C	X
OFB-FD-1	OFB-MW-3	0	0	1/14/08	12:00	W	1	GW	WG	0	0	1	A	3	G	C	X

Comments/Instructions:
24 hrs TAT . VOCs 524.2 - Complete list with low detections.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		VENKATA GANESH NAGISETTI	MWH	1/14/08	12:00
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/15/09	10:30

For Lab Use Only: Sample Condition Upon Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC) From ERPIMS Handbook
Bottle Count (BC): 1,2,3, etc.
Container Type (CT): B = Brass Sleeve, A = Amber Glass
G = Clear Glass, P = Plastic
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None,
A = HNO3, B = H2SO4, C = HCl,
D = NaOH

ORIGINAL: Send with sample (sign only in blue or black ink)

COPIES: Retained by Sampler, Sent to Office

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	1/22/2009	0900	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING	MWH	1/22/2009	1036
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Anne Fye Moua	APPL INC	1-23-09	1005

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	1/22/2009	0820	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	1/22/2009	1937
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Jane Eye Moua	APPL Inc	1-23-09	1005

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

P.02/04

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR. [signature]

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	1/22/2009	0930	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	1/22/2009	0930	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	1/22/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	1/22/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	CHARLES THEURING JR.	MWH	1/22/2009	1040
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Chue Fue Moua	Chue Fue Moua	Appl Inc	1-23-09	1005

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

JAN-22-2009 10:49

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7962 8623 4479 COOLER#: A/3 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Sharon Broughman
Roy FOSTER

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese Only	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37	7-PZ-37	0	0	1/26/2009	915	N	1	B	WG	0	0	1	A	1	P	A						X							
7-PZ-37	7-PZ-37	0	0	1/26/2009	915	N	1	B	WG	0	0	1	A	2	A	NA				X									
7-PZ-37	7-PZ-37	0	0	1/26/2009	915	N	1	B	WG	0	0	1	A	3	G	C			X										
7-PZ-37	7-PZ-37	0	0	1/26/2009	915	N	1	B	WG	0	0	1	A	3	G	C	X												
LF-MW-1	LF-MW-1	0	0	1/26/2009	1430	N	1	BP	WG	0	0	1	A	3	G	C	X												
LF-MW-1	LF-MW-1	0	0	1/26/2009	1430	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-133L	MAFB-133	0	0	1/26/2009	1255	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/26/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/27/09	930

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7962 8603 4479 COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

Roy Foster

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-133L	MAFB-133	0	0	1/26/2009	1255	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-133L	MAFB-133	0	0	1/26/2009	1255	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-133L-MS/MSD	MAFB-133	0	0	1/26/2009	1255	MS	1	BP	WG	0	0	1	A	2	P	A					X								
MAFB-133L-MS/MSD	MAFB-133	0	0	1/26/2009	1255	MS	1	BP	WG	0	0	1	A	2	P	NA							X						
MAFB-133L-MS/MSD	MAFB-133	0	0	1/26/2009	1255	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-440	MAFB-440	0	0	1/26/2009	1116	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-440	MAFB-440	0	0	1/26/2009	1116	N	1	BP	WG	0	0	1	A	2	A	NA											X		

ANALYSIS REQUEST

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/26/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vons	April Inc	1/27/09	930

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7962 8663 4479 COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman
Roy FOSTER

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-440(P)	MAFB-440P	0	0	1/26/2009	~~1116~~ 1014 RF	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-440(P)	MAFB-440P	0	0	1/26/2009	1014	N	1	BP	WG	0	0	1	A	2	A	NA											X		
MAFB-440-MS/MSD	MAFB-440	0	0	1/26/2009	1116	MS	1	BP	WG	0	0	1	A	4	A	NA											X		
MAFB-948	MAFB-948	0	0	1/26/2009	1315	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-948	MAFB-948	0	0	1/26/2009	1315	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-948	MAFB-948	0	0	1/26/2009	1315	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-984	MAFB-984	0	0	1/26/2009	1200	N	1	BP	WG	0	0	1	A	2	A	NA											X		

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/26/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Long	Appl Inc	1/27/09	930

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7962 8603 4479 COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	GenMin 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-293	MAFB-293	0	0	1/26/2009	1114	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-318	MAFB-318	0	0	1/26/2009	1036	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-354(B)	MAFB-354B	0	0	1/26/2009	836	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-354(D)	MAFB-354D	0	0	1/26/2009	905	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-378(B)DF	MAFB-378B	0	0	1/26/2009	1206	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF	MAFB-378D	0	0	1/26/2009	1152	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF-MS/MSD	MAFB-378D	0	0	1/26/2009	1152	MS	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/26/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/27/09	0930

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7962 8663 4479 COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-388(Ds)DF	MAFB-388Ds	0	0	1/26/2009	1001	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-426DF	MAFB-426	0	0	1/26/2009	941	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-442DF	MAFB-442	0	0	1/26/2009	1233	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-443DF	MAFB-443	0	0	1/26/2009	920	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-934	MAFB-934	0	0	1/26/2009	1132	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	1/26/2009	1645
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/27/09	930

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796288644439 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawn Broughman

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Gould	OFB-31	0	0	1/27/2009	1125	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Effluent	OFB-51/52E	0	0	1/27/2009	815	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Influent	OFB-51/52I	0	0	1/27/2009	810	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	1/27/2009	825	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH1	OFB-51	0	0	1/27/2009	855	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH2	OFB-52	0	0	1/27/2009	842	N	1	WF	WG	0	0	1	A	3	G	C				X									
MAFB-271	MAFB-271	0	0	1/27/2009	856	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	1/27/2009	1915
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vorsg	Appl Inc	1/28/09	945

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796288644439 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Blomquist

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Dis.)	Gen Min 1	Gen Min 2 (Dis.)	LF Metals (Dis.)	Sulfide	LF Gen Min	Perchlorate
MAFB-319DF	MAFB-319	0	0	1/27/2009	828	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-321DF	MAFB-321	0	0	1/27/2009	809	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-322	MAFB-322	0	0	1/27/2009	1139	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-324	MAFB-324	0	0	1/27/2009	936	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-324-MS/MSD	MAFB-324	0	0	1/27/2009	936	MS	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-326	MAFB-326	0	0	1/27/2009	1111	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-328DF	MAFB-328	0	0	1/27/2009	1011	N	1	DF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/27/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/28/09	945

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796288644439 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

Shawon Broughman

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-338DF	MAFB-338	0	0	1/27/2009	954	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-911	MAFB-911	0	0	1/27/2009	747	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-918	MAFB-918	0	0	1/27/2009	908	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-926	MAFB-926	0	0	1/27/2009	1115	N	1	WF	WG	0	0	1	A	3	G	C				X								
MAFB-927	MAFB-927	0	0	1/27/2009	830	N	1	WF	WG	0	0	1	A	3	G	C				X								
Mars	OFB-27	0	0	1/27/2009	1100	N	1	WF	WG	0	0	1	A	3	G	C				X								
Mars-MS/MSD	OFB-27	0	0	1/27/2009	1100	MS	1	WF	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/27/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		TOM VONG	APPL INC	1/28/09	945

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796288644439 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster RF
Shawn Broustaman

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Moonbeam Influent	OFB-04	0	0	1/27/2009	940	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Mid-GAC	OFB-04M	0	0	1/27/2009	945	N	1	WF	WG	0	0	1	A	3	G	C				X								
Nut Plains	OFB-32	0	0	1/27/2009	1140	N	1	WF	WG	0	0	1	A	3	G	C				X								
Oaken Bucket	OFB-49	0	0	1/27/2009	1215	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	1/27/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C				X								
South Port	OFB-54	0	0	1/27/2009	1035	N	1	WF	WG	0	0	1	A	3	G	C				X								
Tallyho #2	OFB-56	0	0	1/27/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	RF	Roy Foster	MWH	1/27/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/28/09	945

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy FOSTER
Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)	7-PZ-37P	0	0	1/28/2009	1007	N	1	BP	WG	0	0	1	A	1	P	A						X							
7-PZ-37(P)	7-PZ-37P	0	0	1/28/2009	1007	N	1	BP	WG	0	0	1	A	2	A	NA				X									
7-PZ-37(P)	7-PZ-37P	0	0	1/28/2009	1007	N	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-37(P)	7-PZ-37P	0	0	1/28/2009	1007	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	1/28/2009	1007	MS	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	1/28/2009	1007	MS	1	BP	WG	0	0	1	A	3	G	C	X												
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	1/28/2009	1007	MS	1	BP	WG	0	0	1	A	2	P	A						X							

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	1/28/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Apex Env	1/29/09	800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SED: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster A B
Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	1/28/2009	1007	MS	1	BP	WG	0	0	1	A	4	A	NA				X									
LF-MW-2	LF-MW-2	0	0	1/28/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												
LF-MW-2	LF-MW-2	0	0	1/28/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-132L	MAFB-132	0	0	1/28/2009	1000	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-132L	MAFB-132	0	0	1/28/2009	1000	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-132L	MAFB-132	0	0	1/28/2009	1000	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-149	MAFB-149	0	0	1/28/2009	1112	N	1	BP	WG	0	0	1	A	3	G	C			X										

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	1/28/2009	1715
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/29/09	801

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster
Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese Only	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-149	MAFB-149	0	0	1/28/2009	1112	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-149	MAFB-149	0	0	1/28/2009	1112	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-284	MAFB-284	0	0	1/28/2009	927	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-284	MAFB-284	0	0	1/28/2009	927	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-284	MAFB-284	0	0	1/28/2009	927	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-413	MAFB-413	0	0	1/28/2009	851	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-413	MAFB-413	0	0	1/28/2009	851	N	1	BP	WG	0	0	1	A	1	P	A						X							

added per Mark 1-30-09 TP

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	1/28/2009	1615
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/29/09	800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: AR LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawon Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-413	MAFB-413	0	0	1/28/2009	851	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-413	MAFB-413	0	0	1/28/2009	851	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-424	MAFB-424	0	0	1/28/2009	1208	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-424	MAFB-424	0	0	1/28/2009	1208	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-424	MAFB-424	0	0	1/28/2009	1208	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-424	MAFB-424	0	0	1/28/2009	1208	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-424-MS/MSD	MAFB-424	0	0	1/28/2009	1208	MS	1	BP	WG	0	0	1	A	2	P	NA													X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	1/28/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/29/09	800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-954	MAFB-954	0	0	1/28/2009	803	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-954	MAFB-954	0	0	1/28/2009	803	N	1	BP	WG	0	0	1	A	1	P	A						X							
MAFB-954	MAFB-954	0	0	1/28/2009	803	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-954	MAFB-954	0	0	1/28/2009	803	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-982	MAFB-982	0	0	1/28/2009	1232	N	1	BP	WG	0	0	1	A	1	P	NA													X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/28/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/29/09	800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7972 9491 8258 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Braughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 195116L34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-6	LF-MW-6	0	0	1/29/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C		X												
MAFB-136L	MAFB-136	0	0	1/29/2009	1235	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-136L	MAFB-136	0	0	1/29/2009	1235	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-136L	MAFB-136	0	0	1/29/2009	1235	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROGER	MWH	1/29/2009	415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	1/30/09	10:05

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796302656738 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Brougham

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34016801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PZ-05DF	ACW PZ-05	0	0	1/30/2009	1150	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-432DF	MAFB-432	0	0	1/30/2009	1055	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-433DF	MAFB-433	0	0	1/30/2009	1120	N	1	DF	WG	0	0	1	A	2	G	C	X												
MAFB-942	MAFB-942	0	0	1/30/2009	1030	N	1	BP	WG	0	0	1	A	2	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/30/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Stephanie Cameron	ADD	1/31/09	12:00

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796302656738 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-439	MAFB-439	0	0	1/30/2009	1022	N	1	BP	WG	0	0	1	A	1	P	A						X							
MAFB-439	MAFB-439	0	0	1/30/2009	1022	N	1	BP	WG	0	0	1	A	2	A	NA					X								
MAFB-439	MAFB-439	0	0	1/30/2009	1022	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-439	MAFB-439	0	0	1/30/2009	1022	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-449(Bd)DF	MAFB-449Bd	0	0	1/30/2009	1007	N	1	DF	WG	0	0	1	A	3	G	C	X								*	1 week TAT			
MAFB-449(Bs)DF	MAFB-449Bs	0	0	1/30/2009	1018	N	1	DF	WG	0	0	1	A	3	G	C	X								*	1 week TAT			
MAFB-450DF	MAFB-450	0	0	1/30/2009	905	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	1/30/2009	1615
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796302656738 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-457(Bd)DF	MAFB-457Bd	0	0	1/30/2009	849	N	1	DF	WG	0	0	1	A	3	G	C	X							*	1 week TAT			
MAFB-457(Bs)DF	MAFB-457Bs	0	0	1/30/2009	902	N	1	DF	WG	0	0	1	A	3	G	C	X							*	1 week TAT			
MAFB-458(Bd)DF	MAFB-458Bd	0	0	1/30/2009	931	N	1	DF	WG	0	0	1	A	3	G	C	X							*	1 week TAT			
MAFB-458(Bs)DF	MAFB-458Bs	0	0	1/30/2009	941	N	1	DF	WG	0	0	1	A	3	G	C	X							*	1 week TAT			
MAFB-459(D)DF	MAFB-459D	0	0	1/30/2009	825	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-459(Dd)DF	MAFB-459Dd	0	0	1/30/2009	840	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-900	MAFB-900	0	0	1/30/2009	813	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time
RELINQUISHED BY:		ROY FOSTER	MWH	1/30/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796302656738 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-1	MBS-MW-1	0	0	1/30/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-1	MBS-MW-1	0	0	1/30/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	1/30/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796302656738 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy FISTER
Shawn Brayshaw

PROJECT NAME: MAFB-ST7-1909
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SED	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-444DF	MAFB-444	0	0	1/30/2009	1116	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-445DF	MAFB-445	0	0	1/30/2009	1147	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-446DF	MAFB-446	0	0	1/30/2009	1058	N	1	DF	WG	0	0	1	A	2	G	C	X												
MAFB-447DF	MAFB-447	0	0	1/30/2009	1041	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-448DF	MAFB-448	0	0	1/30/2009	1228	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-908	MAFB-908	0	0	1/30/2009	754	N	1	BP	WG	0	0	1	A	2	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FISTER	MWH	1/30/2009	1415
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Stephanie Cameron	Appl	1/31/09	12:00

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7963 1073 6119 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Braughmer

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-4	LF-MW-4	0	0	2/3/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-111	MAFB-111	0	0	2/3/2009	907	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-129	MAFB-129	0	0	2/3/2009	813	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-288	MAFB-288	0	0	2/3/2009	843	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-400	MAFB-400	0	0	2/3/2009	937	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-935	MAFB-935	0	0	2/3/2009	851	N	1	BP	WG	0	0	1	A	1	P	A									X				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	2/3/2009	1345
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	2/4/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7963 1073 6119 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Braughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-441DF	MAFB-441	0	0	2/3/2009	940	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-451DF	MAFB-451	0	0	2/3/2009	955	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	2/3/2009	1545
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	2/4/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7963 1073 6119 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy FOSTER
Shawn Broughman

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-337	MAFB-337	0	0	2/3/2009	836	N	1	BP	WG	0	0	1	A	3	G	C				X								
OFB-MW-2	OFB-MW-2	0	0	2/3/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	2/3/2009	1345
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	2/4/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: – COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster
Shawn Broughman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW AS	ACW AS	0	0	2/4/2009	0803	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW AS	ACW AS	0	0	2/4/2009	0803	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW AS	ACW AS	0	0	2/4/2009	0803	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTD	ACW PTD	0	0	2/4/2009	~~0840~~ 0821	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTD	ACW PTD	0	0	2/4/2009	0821	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	2/4/2009	~~0821~~ 0840	N	1	WF	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	MARK FREY	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	[signature]	Chris Fue Mona	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: 4/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster
Shawn Brayshaw

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	2/4/2009	~~0851~~ 0840	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW PTE	ACW PTE	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTE	ACW PTE	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTE-MS/MSD	ACW PTE	0	0	2/4/2009	0840	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
ACW PTE-MS/MSD	ACW PTE	0	0	2/4/2009	0840	MS	1	WF	WG	0	0	1	A	2	P	NA													X
ACW PTI	ACW PTI	0	0	2/4/2009	0910	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW PTI	ACW PTI	0	0	2/4/2009	0910	N	1	WF	WG	0	0	1	A	1	P	A								X					

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Anne Fye Mong	APPL INC	2-5-09	0820

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: – COOLER#: A/B/C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Ray Foster
Shaun Boughman

PROJECT NAME: MAFB-ACW-RQ09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTI	ACW PTI	0	0	2/4/2009	0910	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTI-MS/MSD	ACW PTI	0	0	2/4/2009	0910	MS	1	WF	WG	0	0	1	A	2**	P	NA							X						
ACW PTI-MS/MSD	ACW PTI	0	0	2/4/2009	0910	MS	1	WF	WG	0	0	1	A	2**	P	A								X					
ACW PTI-MS/MSD	ACW PTI	0	0	2/4/2009	0910	MS	1	WF	WG	0	0	1	A	3	G	C	X												
ACW R2	ACW R2	0	0	2/4/2009	1100	N	1	B	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity (total), bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Chue Fue Moua	APPL INC	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: - COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shayla Broughton

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS AS	MBS AS	0	0	2/4/2009	0955	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS AS	MBS AS	0	0	2/4/2009	0955	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS AS	MBS AS	0	0	2/4/2009	0955	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS AS	MBS AS	0	0	2/4/2009	0955	N	1	WF	WG	0	0	1	A	2**	A	NA					X								
MBS AS	MBS AS	0	0	2/4/2009	0955	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS AS	MBS AS	0	0	2/4/2009	0955	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTA	MBS PTA	0	0	2/4/2009	0900	N	1	WF	WG	0	0	1	A	1	P	NA												X	

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Chue Tue Moua	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: – COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Sharon Boughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	1	P	NA												X	
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	2**	A	NA					X								
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTE AF	MBS PTE AF	0	0	2/4/2009	0840	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	800
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Chris Fue Moua	Chris Fue Moua	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: — COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughton

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF-MS/MSD	MBS PTE AF	0	0	2/4/2009	0840	MS	1	WF	WG	0	0	1	A	2**	P	NA													X	
MBS PTI	MBS PTI	0	0	2/4/2009	0925	N	1	WF	WG	0	0	1	A	1	P	NA							X							
MBS PTI	MBS PTI	0	0	2/4/2009	0925	N	1	WF	WG	0	0	1	A	3	G	C	X													
MBS PTI	MBS PTI	0	0	2/4/2009	0925	N	1	WF	WG	0	0	1	A	1	P	A									X					
MBS PTI	MBS PTI	0	0	2/4/2009	0925	N	1	WF	WG	0	0	1	A	2**	A	NA					X									
MBS PTI	MBS PTI	0	0	2/4/2009	0925	N	1	WF	WG	0	0	1	A	3	G	C				X										
MBS PTI	MBS PTI	0	0	2/4/2009	0925	N	1	WF	WG	0	0	1	A	1	P	NA														X

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Christine Moran	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: — COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brayton

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTI-MS/MSD	MBS PTI	0	0	2/4/2009	0925	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
MBS PTI-MS/MSD	MBS PTI	0	0	2/4/2009	0925	MS	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTI-MS/MSD	MBS PTI	0	0	2/4/2009	0925	MS	1	WF	WG	0	0	1	A	2	P	A									X				
MBS PTI-MS/MSD	MBS PTI	0	0	2/4/2009	0925	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
MBS PTI-MS/MSD	MBS PTI	0	0	2/4/2009	0925	MS	1	WF	WG	0	0	1	A	3	G	C				X									
MBS PTI-MS/MSD	MBS PTI	0	0	2/4/2009	0925	MS	1	WF	WG	0	0	1	A	2	P	NA													X
MBS PTT	MBS PTT	0	0	2/4/2009	0920	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Chris Fue Moua	Chris Fue Moua	APPL INC	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: — COOLER#: A/B/C/D — LOG CODE: MWWC — LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Boyhman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Dlss.)	Gen Min 1	1,4-Dioxane	LF Metals (Dlss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTT	MBS PTT	0	0	2/4/2009	1220	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		MARK FREY	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Chris Guerra	Chris Guerra	Appl Inc	2-5-09	0820

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH | **CHAIN OF CUSTODY RECORD** | **MWH CONTACT PERSON**

Name: MARK FREY
Phone #: 916-9M-5383

FED EX #: 10A Cooler #: A LOGCODE: MWWC LAB: APPL INC.

SAMPLER(S) PRINTED NAME AND SIGNATURE: VENKATA GANESH NAGISETTI G

PROJECT NAME: MATHER - OFF BASE Sampling
AIR FORCE ID: MATHR
PROJECT NUMBER: 195116).3401080)

SAMPLE DESCRIPTION	LOCID	SBD	SED	DATE	TIME	ERPIMS Codes SA	SN	SM	MC	Lot Control Number AB	EB	TB	CO	Sample Container BC	CT	PR	ANALYSIS REQUEST VOCs 524.2
Monbeam - Mid-GAC	OFB-04M	0	0	2/4/09	9:05	N	1	GF	MG	0	0	1	A	3	G	C	X
Monbeam - Effluent	OFB-04E	0	0	2/4/09	9:10	N	1	GF	MG	0	0	1	A	3	G	C	X
OFB-Blank	OFB-MW-3	0	0	2/4/09	11:00	N	1	BP	WG	0	0	1	A	3	G	C	X

Comments/Instructions: 24 TAT, VOCs 524.2 - Complete list with low detections.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	VENKATA GANESH NAGISETTI	MWH	02/04/09	11:00
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	[signature]	[signature]	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition Upon Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC) From ERPIMS Handbook
Bottle Count (BC): 1,2,3, etc.
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

ORIGINAL: Send with sample (sign only in blue or black ink)
COPIES: Retained by Sampler, Sent to Office

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: — COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-AS	7-AS	0	0	2/4/2009	1047	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-AS	7-AS	0	0	2/4/2009	1047	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-AS	7-AS	0	0	2/4/2009	1047	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-AS	7-AS	0	0	2/4/2009	1047	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-AS	7-AS	0	0	2/4/2009	1047	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	2/4/2009	0950	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-PTE	7-PTE	0	0	2/4/2009	0950	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Chris Fuhrmann	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~ COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTE	7-PTE	0	0	2/4/2009	0950	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTE	7-PTE	0	0	2/4/2009	0950	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTE	7-PTE	0	0	2/4/2009	0950	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTI	7-PTI	0	0	2/4/2009	1020	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTI	7-PTI	0	0	2/4/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI	7-PTI	0	0	2/4/2009	1020	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-PTI	7-PTI	0	0	2/4/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Chris Fye Mona	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: - COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTI	7-PTI	0	0	2/4/2009	1020	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTI-MS/MSD	7-PTI	0	0	2/4/2009	1020	MS	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTI-MS/MSD	7-PTI	0	0	2/4/2009	1020	MS	1	WF	WG	0	0	1	A	2**	P	NA							X						
7-PTI-MS/MSD	7-PTI	0	0	2/4/2009	1020	MS	1	WF	WG	0	0	1	A	2**	P	A								X					
7-PTI-MS/MSD	7-PTI	0	0	2/4/2009	1020	MS	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI-MS/MSD	7-PTI	0	0	2/4/2009	1020	MS	1	WF	WG	0	0	1	A	4***	A	NA					X								

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/4/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Chue Fue Vang	Chue Fue Vang	Appl Inc	2-5-09	0800

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7963 2745 6060 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-397DF	MAFB-397	0	0	2/9/2009	1127	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-434(Bd)DF	MAFB-434Bd	0	0	2/9/2009	0908	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bs)DF	MAFB-434Bs	0	0	2/9/2009	0927	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bs)DF-MS/MS	MAFB-434Bs	0	0	2/9/2009	0927	MS	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bu)DF	MAFB-434Bu	0	0	2/9/2009	0945	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-435DF	MAFB-435	0	0	2/9/2009	1031	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-437(Dd)DF	MAFB-437Dd	0	0	2/9/2009	1103	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/9/2009	1500
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	2/10/09	945

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7963 2745 6060 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-437(Ds)DF	MAFB-437Ds	0	0	2/9/2009	1052	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-438DF	MAFB-438	0	0	2/9/2009	1205	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-983	MAFB-983	0	0	2/9/2009	0803	N	1	DF	WG	0	0	1	A	3	G	C	X												
MBS-MW-3	MBS-MW-3	0	0	2/9/2009	1415	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		[illegible]	MWH	2/9/2009	1500
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vang	Apple Inc	2/10/09	945

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	2/19/2009	0910	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	2/19/2009	1134
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	2/20/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: 1 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	2/19/2009	0810	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	2/19/2009	1135
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vorney	Appl Inc	2/20/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING SR

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	2/19/2009	0945	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	2/19/2009	0945	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	2/19/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	2/19/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING SR.	MWH	2/19/2009	1133
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tim Vong	Apple Inc	2/20/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7963 7426 5373 COOLER#: 4 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Kels: Oshiro
Mark Frey

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (short)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2	LF Metals	Sulfide	LF Gen Min	Perchlorate
JH Influent	OFB-51/52I	0	0	2/24/2009	1349	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	2/24/2009	1345	N	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Effluent	OFB-04E	0	0	2/24/2009	1132	N	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Influent	OFB-04	0	0	2/24/2009	1138	N	1	WF	WG	0	0	1	A	3	G	C				X									
OFB-MW-1	OFB-MW-1	0	0	2/24/2009	1430	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
VOCs 524.2: complete list with low level detections
JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT! *also Moonbeam Effluent*
JH Influent, Moonbeam Influent: 2 week TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	2/24/2009	1500
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl. Inc.	2/25/09	955

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	3/5/2009	0855	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	3/5/2009	1055
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	3/6/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	3/5/2009	0805	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	3/5/2009	1056
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	3/6/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE:
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	3/5/2009	0935	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	3/5/2009	0935	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	3/5/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	3/5/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	3/5/2009	1057
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	3/6/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A. | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	3/19/2009	0915	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	3/19/2009	1137
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Stephanie Cameron	Stephanie Cameron	Appl	3/21/09	11:15

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	3/19/2009	0805	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	3/19/2009	1139
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Stephanie Cameron	Appl	3/21/09	11:15

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR. [signature]

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

ANALYSIS REQUEST

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	SA	SM	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	3/19/2009	0950	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	3/19/2009	0950	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	3/19/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	3/19/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X												

ERPIMS CODES | LOT CONTROL

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY	[signature]	CHARLES T. THEURING JR.	MWH	3/19/2009	1140
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Stephanie C	Stephanie Cameron	Appl	3/21/09	11:15

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON: Mark Frey (916) 418-8390

FED EX#: 7964 5905 3594 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-ACW-1Q09

AIR FORCE ID: MAFB

PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
						ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
MAFB-453(C)DF	MAFB-453C	0	0	~~3/25/2009~~ 3/24/09 RF	845	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-453DF	MAFB-453	0	0	~~3/25/2009~~ 3/24/09 RF	830	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-454(C)DF	MAFB-454C	0	0	~~3/25/2009~~ 3/24/09 RF	915	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-454DF	MAFB-454	0	0	~~3/25/2009~~ 3/24/09 RF	902	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-455DF	MAFB-455	0	0	~~3/25/2009~~ 3/24/09 RF	1015	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-456(C)DF	MAFB-456C	0	0	~~3/25/2009~~ 3/24/09 RF	1000	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-456DF	MAFB-456	0	0	~~3/25/2009~~ 3/24/09 RF	1230	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	3/25/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Chris Fue Moua	Chris Fue Moua	Appl Fric	3-26-09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook

Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic

Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 1964 5905 3599 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Braughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES: SA	SN	SM	MC	LOT CONTROL: AB	EB	TB	COBC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-452(B)DF	MAFB-452B	0	0	3/25/2009	~~800~~ 810 RE	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-452(Bu)DF	MAFB-452Bu	0	0	3/25/2009	800	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS EW-13Bu/B	MBS EW-13Bu	0	0	~~3/25/2009~~ 3R4102 RE	1045	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS-MW-13	MBS-MW-13	0	0	3/25/2009	1130	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Jon Foster	MWH	3/25/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Chue Fue Moua	Appl Inc	3-26-09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7964 7602 6505 COOLER#: 603 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

VENKATA GANESH NAGISETTI G

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (short)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2	LF Metals	Sulfide	LF Gen Min	Perchlorate
JH Influent	OFB-51/52I	0	0	3/31/2009	9:00	N	1	WF	WG	0	0	1	A	3	G	C				X								
JH Mid-GAC	OFB-51/52M	0	0	3/31/2009	9:05	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Influent	OFB-04	0	0	3/31/2009	9:10	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Mid-GAC	OFB-04M	0	0	3/31/2009	9:15	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	3/31/2009	11:00	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:
VOCs 524.2: complete list with low level detections
JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT!
JH Influent, Moonbeam Influent: 2 week TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	VENKATA GANESH NAGISETTI	MWH	3/31/2009	11:15
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

REFERENCES

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Montgomery Watson, 1997a. Final Basewide Groundwater Monitoring Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

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Montgomery Watson, 2000. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

U.S. Department of the Air Force, 1993. "Headquarters Air Force Center for Environmental Excellence (AFCEE) Handbook for the Installation Restoration Program (IRP) Remedial Investigation/ Feasibility Studies (RI/FS)," Environmental Services Directorate, Brooks Air Force Base, Texas.

TABLES

TABLE E-1

DATA QUALIFIER SUMMARY
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
INITIAL CALIBRATION RESULTS						
No deviations to report						
INITIAL AND CONTINUAL CALIBRATION VERIFICATION						
SW6010/ 7-PTE-02/04/09, 7-PTI-02/04/09, 7-PTI-02/04/09 (FD)	Sodium	89.8 (%R)	90-110 (%R)	R (all results)	CCV-02/18/09 recovery for this compound was outside control limits.	CCV recovery below project control limits would indicate that sample results for sodium are potentially biased low. However, the results for these samples were all detected and were consistent with historical results, indicating that there is no significant impact to the data quality. The R flag is applied in accordance with AFCEE guidance.
SURROGATE RESULTS						
SW8260/ ACW PTE-02/04/09	All analytes	121 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ MBS PTE AF-02/04/09	All analytes	120 (%R)	79-119 (%R)	J (all detects)	Surrogate recovery for bromofluorobenzene was outside the control limits.	The J flag does not have any significant impact to the data quality.
LABORATORY CONTROL SAMPLE RESULTS						
No deviations to report						
MATRIX SPIKE/MATRIX SPIKE RESULTS						
SW8260/ 7-PZ-37, 7-PZ-37P, 7-PZ-37P (FD), MAFB-284, MAFB-413, MAFB-424, MAFB-440, MAFB-440P	1,1-Dichloroethane	68 (%R MS)	69-133 (%R)	M (all results)	MS recovery for this compound in sample 7-PZ-37P was outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ ACW PTE-01/08/09, ACW PTE-01/22/09, ACW PTE-02/04/09, ACW PTE-02/19/09, ACW PTE-03/05/09, ACW PTE-03/19/09, ACW PTI-02/04/09, ACW PTI-02/04/09 (FD), MAFB-432, MAFB-433, MAFB-433 (FD), MAFB-453, MAFB-453C, MAFB-454, MAFB-454C, MAFB-455, MAFB-456, MAFB-456C	1,1,2-Trichloroethane	74.9 (%R MS)	75-125 (%R)	M (all results)	MS recovery for this compound in sample ACW PTI was outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ MAFB-271, MAFB-319, MAFB-319 (FD), MAFB-321, MAFB-322, MAFB-324, MAFB-324 (FD), MAFB-326, MAFB-328, MAFB-337, MAFB-338, OFB-31, OFB-32, OFB-49, OFB-51, OFB-52, OFB-52 (FD), OFB-54, OFB-56	1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane Chloromethane Methylene chloride	125 (%R MSD) 20.3% (RPD) 77 (%R MS) 75/74 (%R MS/MSD)	80-120 (%R) 0-20% (RPD) 80-120 (%R) 80-120 (%R)	M (all results) M (all results) M (all results) M (all results)	MS/MSD and RPD recoveries for these compounds in sample MAFB-324 were outside control limits.	The M flag does not have any significant impact to the data quality.

Mather AR # 2970 Page 1012 of 1022

TABLE E-1

DATA QUALIFIER SUMMARY
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
USEPA 524.2/ OFB-04-01/27/09, OFB-04-02/24/09, OFB-04-03/31/09, OFB-04E-02/04/09, OFB-04E-02/24/09, OFB-04M-01/27/09, OFB-04M-02/04/09, OFB-04M-03/31/09, OFB-27, OFB-27 (FD), OFB-51/52E-01/14/09, OFB-51/52E-01/27/09, OFB-51/52I-01/27/09, OFB-51/52I-02/24/09, OFB-51/52I-03/31/09, OFB-51/52M-01/14/09, OFB-51/52M-01/27/09, OFB-51/52M-02/24/09, OFB-51/52M-03/31/09	Methylene chloride Tetrachloroethene	71/70 (%R MS/MSD) 78 (%R MSD)	80-120 (%R) 80-120 (%R)	M (all results) M (all results)	MS/MSD recoveries for these compounds in sample OFB-27 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW6010/ 7-PZ-37P, 7-PZ-37P (FD), MAFB-424	Manganese	140/8 (%R MS/MSD)	80-120 (%R)	M (all results)	MS/MSD recoveries for this compound in sample 7-PZ-37P were outside control limits.	The M flag does not have any significant impact to the data quality.
SW6010/ ACW PTE-02/04/09, ACW PTI-02/04/-0, ACW PTI-02/04/09 (FD)	Calcium Magnesium Sodium	45/47 (%R MS/MSD) 78/79 (%R MS/MSD) 74/75 (%R MS/MSD)	80-120 (%R) 80-120 (%R) 80-120 (%R)	M (all results) M (all results) M (all results)	MS/MSD recoveries for these compounds in sample ACW PTI were outside control limits.	The M flag does not have any significant impact to the data quality.
SW7470/ MAFB-132, MAFB-133, MAFB-133 (FD), MAFB-136, MAFB-424	Mercury	116/116 (%R MS/MSD)	85-115 (%R)	M (all results)	MS/MSD recoveries for this compound in sample MAFB-133 were outside control limits.	The M flag does not have any significant impact to the data quality.
FIELD DUPLICATE RESULTS						
SW8260/ MAFB-444, MAFB-445, MAFB-446, MAFB-446 (FD), MAFB-447, MAFB-448	1,1-Dichloroethane	88.9% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-446 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW6010/ ACW PTE-02/04/09, ACW PTI, ACW PTI (FD)	Calcium Magnesium Sodium	81.9% (RPD) 65.5% (RPD) 37.9% (RPD)	0-20% (RPD) 0-20% (RPD) 0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample ACW PTI exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.

LABORATORY DUPLICATE SAMPLE RESULTS

No deviations to report

INTERNAL STANDARD RESULTS

No deviations to report

POST DIGESTION SPIKE RESULTS

No deviations to report

Mather AR # 2970 Page 1013 of 1022

TABLE E-1

DATA QUALIFIER SUMMARY
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
ICP INTERFERENCE CHECK SAMPLE RESULTS						
SW6010/ 7-PTE-02/04/09, 7-PTI, 7-PTI (FD)	Calcium Magnesium Sodium	NA	NA	J (all detects)	An ICP serial dilution is not associated with these samples.	The J flag does not have any significant impact to the data quality.
SW6010/ 7-PZ-37P, 7-PZ-37P (FD), MAFB-132, MAFB-424	Manganese	17.5 (%D)	0-10 (%D)	J (all detects)	ICP serial dilution recovery for this compound in sample 7-PZ-37P was outside outside control limits.	The J flag does not have any significant impact to the data quality.
SW6010/ ACW PTE-02/04/09, ACW PTI, ACW PTI (FD)	Calcium Magnesium Sodium	NA	NA	J (all detects)	An ICP serial dilution is not associated with these samples.	The J flag does not have any significant impact to the data quality.
SW6010/ MAFB-132	Barium Nickel	NA	NA	J (all detects)	An ICP serial dilution is not associated with these samples.	The J flag does not have any significant impact to the data quality.
SW6010/ MAFB-136	Manganese	21.2 (%D)	0-10 (%D)	J (all detects)	ICP serial dilution recovery for this compound in sample MAFB-136 was outside outside control limits.	The J flag does not have any significant impact to the data quality.
BLANK DETECTIONS						
USEPA 524.2/ MAFB-319 (FD), MAFB-326, MAFB-328, MAFB-338, TB-02/04/09	Methylene chloride	NA	NA	B (all detects)	MB-02/05/09 contained 0.34 µg/L of methylene chloride.	The B flag does not have any significant impact to the data quality.
HOLDING TIME EXCEEDANCES						
USEPA 376.1/ MAFB-132	Sulfide, total	NA	NA	J (all detects); UJ (all non-detects)	Sample was analyzed 54 minutes outside of the 24 hour holding time for unpreserved samples.	Sample analysis outside of but close to the method specific holding time possibly results in loss of the analyte. Therefore, the data should be considered estimated. Neither the J flag nor the UJ flag have any significant impact to the data quality.

Notes:
%D - Percent Deviation
%R - Percent Recovery
B - Analyte detected in blank.
CCV - Continuing Calibration Verification
FD - Field Duplicate
ICP - Inductively Coupled Plasma
J - Result is an estimate.
LCS - Laboratory Control Sample
M - Matrix effect was present.
MS - Matrix Spike
MSD - Matrix Spike Duplicate
NA - Not Applicable
R - Result is invalid.
RPD - Relative Percent Recovery
UJ - Result is not detected, but is estimated.

Mather AR # 2970 Page 1014 of 1022

TABLE E-2

FIELD DUPLICATE PRECISION STUDY
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
7-PTI-02/04/09	1,2-Dichlorobenzene	µg/L	0.19	F	< 2.0		NC
	Alkalinity, bicarbonate	mg/L	148		149		0.7
	Alkalinity, total	mg/L	148		149		0.7
	Calcium	µg/L	21,900	J	22,600	J	3.1
	Chloride	mg/L	8.6		8.5		1.2
	cis-1,2-Dichloroethene	µg/L	0.26	F	0.25	F	3.9
	Hardness as CaCO3	mg/L	140		124		12.1
	Iron	µg/L	< 70		5.9	F	NC
	Magnesium	µg/L	11,400	J	11,500	J	0.9
	Methylene chloride	µg/L	< 2.0		0.36	F	NC
	Nitrogen, nitrate	mg/L	2.7		2.7		0.0
	Sodium	µg/L	12,000	R	12,200	R	1.7
	Solids, total dissolved	mg/L	208		207		0.5
	Sulfate	mg/L	9.7		9.7		0.0
	Tetrachloroethene	µg/L	1.4		1.4		0.0
	Trichloroethene	µg/L	6.5		6.7		3.0
	Xylenes, total	µg/L	< 1.0		0.20	F	NC
	Zinc	µg/L	7.0	F	8.5	F	19.4
7-PZ-37P	1,1-Dichloroethane	µg/L	2.3	M	2.3	M	0.0
	1,1-Dichloroethene	µg/L	0.34	F	0.37	F	8.5
	cis-1,2-Dichloroethene	µg/L	1.3		1.5		14.3
	Lead	µg/L	2.3	F	2.4	F	4.3
	Manganese	µg/L	4,680	JM	4,720	JM	0.9
	Tetrachloroethene	µg/L	4.5		4.6		2.2
	Trichloroethene	µg/L	5.9		6.2		5.0
ACW PTI-02/04/09	1,2-Dichlorobenzene	µg/L	< 2.0		0.20	F	NC
	1,3-Dichlorobenzene	µg/L	0.18	F	0.21	F	15.4
	1,4-Dichlorobenzene	µg/L	< 0.50		0.24	F	NC
	Alkalinity, bicarbonate	mg/L	73.6		74.8		1.6
	Alkalinity, total	mg/L	73.6		74.8		1.6
	Calcium	µg/L	22,000	JM	9,220	JM	81.9
	Chloride	mg/L	3.4		3.4		0.0
	Hardness as CaCO3	mg/L	40.1		44.1		9.5
	Iron	µg/L	7.7	F	16.4	F	72.2*
	Magnesium	µg/L	9,160	JM	4,640	JM	65.5
	Nitrogen, nitrate	mg/L	2.6		2.6		0.0
	Sodium	µg/L	12,400	JM	8,450	JM	37.9
	Solids, total dissolved	mg/L	115		125		8.3
	Sulfate	mg/L	2.1		2.1		0.0
	Trichloroethene	µg/L	5.8		5.7		1.7
	Zinc	µg/L	2.7	F	12.1	F	127.0*

TABLE E-2

FIELD DUPLICATE PRECISION STUDY
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
MAFB-133	Alkalinity, bicarbonate	mg/L	110		107		2.8
	Alkalinity, total	mg/L	110		107		2.8
	Barium	µg/L	20.4		20.1		1.5
	Chloride	mg/L	4.0		4.1		2.5
	Chloroform	µg/L	0.11	F	0.13	F	16.7
	Chromium	µg/L	2.7	F	2.7	F	0.0
	cis-1,2-Dichloroethene	µg/L	2.2		2.3		4.4
	Copper	µg/L	1.1	F	< 10		NC
	Fluoride	mg/L	0.22		0.22		0.0
	Lead	µg/L	1.9	F	1.6	F	17.1
	Mercury	µg/L	0.18	FM	0.077	FM	80.2*
	Nickel	µg/L	2.5	F	2.8	F	11.3
	Solids, total dissolved	mg/L	168		172		2.4
	Sulfate	mg/L	8.6		8.5		1.2
	Tetrachloroethene	µg/L	4.7		4.6		2.2
	Trichloroethene	µg/L	0.85		0.89		4.6
	Vanadium	µg/L	7.8	F	7.6	F	2.6
	Zinc	µg/L	6.3	F	6.0	F	4.9
MAFB-319	Chloroform	µg/L	0.33	F	0.30	F	9.5
	Methylene chloride	µg/L	< 0.50	M	0.16	BFM	NC
	Tetrachloroethene	µg/L	0.57		0.55		3.6
MAFB-324	Bromodichloromethane	µg/L	0.11	F	0.085	F	25.6*
	Chloroform	µg/L	0.41	F	0.35	F	15.8
	Tetrachloroethene	µg/L	0.23		0.15	F	42.1*
MAFB-378B	Chloroform	µg/L	0.41	F	0.39	F	5.0
MAFB-433	Trichloroethene	µg/L	0.25	F	0.19	F	27.3*
MAFB-446	1,1-Dichloroethane	µg/L	< 1.0	UJ	2.6	J	88.9
	1,1-Dichloroethene	µg/L	0.92		0.84		9.1
	1,2-Dichlorobenzene	µg/L	0.28	F	0.30	F	6.9
	1,2-Dichloroethane	µg/L	0.46	F	0.40	F	14.0
	cis-1,2-Dichloroethene	µg/L	1.7		1.7		0.0
	Tetrachloroethene	µg/L	6.6		6.6		0.0
	Trichloroethene	µg/L	48		49		2.1
	Trichlorofluoromethane	µg/L	0.42	F	0.51	F	19.4
MAFB-457Bs	cis-1,2-Dichloroethene	µg/L	0.56		0.61		8.5
	Tetrachloroethene	µg/L	1.1		0.90		20.0
	Trichloroethene	µg/L	9.4		9.2		2.2

TABLE E-2

FIELD DUPLICATE PRECISION STUDY
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
MBS PTI-02/04/09	Alkalinity, bicarbonate	mg/L	136		142		4.3
	Alkalinity, total	mg/L	136		142		4.3
	Barium	µg/L	59.1		57.8		2.2
	Carbon tetrachloride	µg/L	0.96		0.97		1.0
	Chloride	mg/L	6.8		6.8		0.0
	Chloroform	µg/L	0.22	F	0.22	F	0.0
	Chromium	µg/L	4.5	F	4.1	F	9.3
	Hardness as CaCO3	mg/L	108		92.3		15.7
	Nickel	µg/L	2.5	F	0.83	F	100.3*
	Nitrogen, nitrate	mg/L	3.2		3.2		0.0
	Solids, total dissolved	mg/L	154		170		9.9
	Sulfate	mg/L	9.5		9.3		2.1
	Tetrachloroethene	µg/L	11		10		9.5
	TPH, gasoline-range	µg/L	12	F	11	F	8.7
	Trichloroethene	µg/L	3.3		3.5		5.9
	Vanadium	µg/L	10.6	F	10.5	F	0.9
	Zinc	µg/L	2.9	F	2.4	F	18.9
OFB-27	Chloroform	µg/L	0.23	F	0.20	F	14.0
	Tetrachloroethene	µg/L	0.066	FM	0.072	FM	8.7
	Trichloroethene	µg/L	0.051	F	0.087	F	52.2*
OFB-52	Carbon tetrachloride	µg/L	0.29		0.24		18.9
	Chloroform	µg/L	< 0.50		0.064	F	NC
	cis-1,2-Dichloroethene	µg/L	0.34	F	0.31	F	9.2
	Tetrachloroethene	µg/L	0.18	F	0.18	F	0.0
	Trichloroethene	µg/L	0.23		0.24		4.3

Notes:

In the instance that one result is given as "<" and the other result is given as being a trace value (F), the RPD has been indicated as NC (not calculable).

* As per AFCEE QAPP 4.0.01 validation guidelines, nonconformances with project control limits for trace value (F) data do not require validation flags.

Shaded data indicate nonconformances with project control limits.

µg/L - Micrograms per liter
B- Analyte detected in blank.
mg/L - Milligrams per liter
F - Result is below Reporting Limit.
J - Result is an estimate.
M - Matrix effect was present.
R - Result is invalid.
RE - Sample Reanalysis
RPD - Relative Percent Difference
UJ - Result is not detected, but is estimated.

TABLE E-3

COMPLETENESS CALCULATION
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

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Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Mather Groundwater Monitoring Program			
USEPA Method 8260/524.2			
1,1,1,2-Tetrachloroethane	38	38	100%
1,1,1-Trichloroethane	112	112	100%
1,1,2,2-Tetrachloroethane	112	112	100%
1,1,2-Trichloroethane	112	112	100%
1,1-Dichloroethane	112	112	100%
1,1-Dichloroethene	126	126	100%
1,1-Dichloropropene	38	38	100%
1,2,3-Trichlorobenzene	38	38	100%
1,2,3-Trichloropropane	38	38	100%
1,2,4-Trichlorobenzene	38	38	100%
1,2,4-Trimethylbenzene	38	38	100%
1,2-Dibromo-3-chloropropane	38	38	100%
1,2-Dibromoethane	38	38	100%
1,2-Dichlorobenzene	112	112	100%
1,2-Dichloroethane	129	129	100%
1,2-Dichloropropane	129	129	100%
1,3,5-Trimethylbenzene	38	38	100%
1,3-Dichlorobenzene	112	112	100%
1,3-Dichloropropane	38	38	100%
1,4-Dichlorobenzene	129	129	100%
2,2-Dichloropropane	38	38	100%
2-Chlorotoluene	38	38	100%
4-Chlorotoluene	38	38	100%
Benzene	112	112	100%
Bromobenzene	38	38	100%
Bromochloromethane	38	38	100%
Bromodichloromethane	112	112	100%
Bromoform	112	112	100%
Bromomethane	112	112	100%
Carbon tetrachloride	129	129	100%
Chlorobenzene	112	112	100%
Chloroethane	112	112	100%
Chloroform	129	129	100%
Chloromethane	129	129	100%
cis-1,2-Dichloroethene	129	129	100%
cis-1,3-Dichloropropene	112	112	100%
Dibromochloromethane	112	112	100%
Dibromomethane	38	38	100%
Dichlorodifluoromethane	112	112	100%
Ethylbenzene	112	112	100%

TABLE E-3

COMPLETENESS CALCULATION
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 4)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
USEPA Method 8260/524.2 (continued)			
Hexachlorobutadiene	38	38	100%
Isopropylbenzene	38	38	100%
Methylene chloride	112	112	100%
n-Butylbenzene	38	38	100%
n-Propylbenzene	38	38	100%
Naphthalene	38	38	100%
p-Isopropyltoluene	38	38	100%
sec-Butylbenzene	38	38	100%
Styrene	38	38	100%
t-Butylbenzene	38	38	100%
Tetrachloroethene	129	129	100%
Toluene	112	112	100%
trans-1,2-Dichloroethene	112	112	100%
trans-1,3-Dichloropropene	112	112	100%
Trichloroethene	129	129	100%
Trichlorofluoromethane	112	112	100%
Vinyl chloride	129	129	100%
Xylenes, total	112	112	100%
USEPA Method 8015 Modified			
TPH as diesel	15	15	100%
TPH as gasoline	18	18	100%
USEPA Method 8270			
2-Methylnaphthalene	3	3	100%
Acenaphthene	3	3	100%
Acenaphthylene	3	3	100%
Anthracene	3	3	100%
Benzo(a)anthracene	3	3	100%
Benzo(a)pyrene	3	3	100%
Benzo(b)fluoranthene	3	3	100%
Benzo(g,h,i)perylene	3	3	100%
Benzo(k)fluoranthene	3	3	100%
Chrysene	3	3	100%
Dibnez(a,h)anthracene	3	3	100%
Fluoranthene	3	3	100%
Fluorene	3	3	100%
Indeno(1,2,3-c,d)pyrene	3	3	100%
Naphthalene	3	3	100%
Phenanthrene	3	3	100%
Pyrene	3	3	100%

TABLE E-3

COMPLETENESS CALCULATION
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 4)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
USEPA Method 6010			
Antimony	8	8	100%
Arsenic	8	8	100%
Barium	8	8	100%
Beryllium	8	8	100%
Cadmium	8	8	100%
Calcium	8	8	100%
Chromium	13	13	100%
Cobalt	8	8	100%
Copper	14	14	100%
Iron	6	6	100%
Lead	13	13	100%
Magnesium	6	6	100%
Manganese	16	16	100%
Nickel	13	13	100%
Selenium	8	8	100%
Silver	8	8	100%
Sodium	6	3	50.0%
Vanadium	8	8	100%
Zinc	14	14	100%
USEPA Method 6020			
Thallium	3	3	100%
USEPA Method 7470			
Mercury	8	8	100%
USEPA Method 7841			
Thallium	8	8	100%
Standard Method 2320			
Alkalinity, total	14	14	100%
USEPA Method 130.2			
Hardness as CaCO3	9	9	100%
USEPA Method 160.1			
Total Filterable Residue	14	14	100%
USEPA 160.2			
Total Suspended Solids	3	3	100%

TABLE E-3

COMPLETENESS CALCULATION
FIRST QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 4)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
USEPA Method 300.0			
Chloride	14	14	100%
Nitrate	9	9	100%
Sulfate	14	14	100%
USEPA Method 314.0			
Perchlorate	4	4	100%
USEPA 340.2			
Fluoride	5	5	100%
USEPA 376.1			
Total sulfide	5	5	100%
USEPA 7196			
Hexavalent Chromium	2	2	100%
Overall Completeness	5207	5204	99.9%

Notes:
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency

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