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SECOR

GROUNDWATER MONITORING REPORT
SECOND QUARTER 2006 FOR

CHEVRON

Purity Oil Sales Superfund Site

SECOR

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project: Purity Oil Sales Superfund Site

job no.: 24CH.67004.06

re: Groundwater Monitoring Report, Second Quarter 2006

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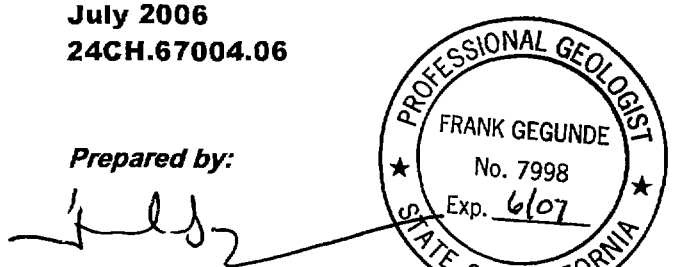
GROUNDWATER MONITORING REPORT
SECOND QUARTER 2006 FOR

CHEVRON

Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California

July 2006
24CH.67004.06

Prepared by:



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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BTEX	benzene toluene ethylbenzene xylene
BTOC	below top of casing
CCV	Continuing Calibration Verification
CEMC	Chevron Environmental Management Company
CD-ROM	compact disk read only
cis-1,2-DCE	cis-1,2-dichloroethene
CO_2	carbon dioxide
COC	chain-of-custody
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
DI	de-ionized
DO	dissolved oxygen
DQOs	data quality objectives
EC	electrical conductivity
Fe	iron
FSP	Field Sampling Plan
ft/day	feet per day
ft/year	feet per year
gpm	gallons per minute
HCl	hydrochloric acid
HNO_3	nitric acid
H_3PO_4	phosphoric acid
ICAL	initial calibration
IT	IT Corporation
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LLI	Lancaster Laboratories, Inc.
MCLs	Maximum Contaminant Levels
MDL	Method Detection Limit
mg/L	milligrams per liter
MNA	monitored natural attenuation
MRL	Method Reporting Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
mS/cm	milliSiemens per centimeter
msl	mean sea level
mV	millivolts
ND	not detected
NTU	nepthalometric turbidity unit
ORP	oxidation-reduction potential
OU-1	Operable Unit 1
OU-2	Operable Unit 2
PCE	tetrachloroethene

PE	polyethylene
PUR	sampling data package
QA	Quality Assurance
QAPP	Quality Assurance Program Plan
QC	Quality Control
QED	QED Environmental Systems
®	Registered trademark
RG	remedial goals
RLS	reporting limit standard
RPD	relative percent difference
ROD	Record of Decision
RSD	relative standard deviation
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
SECOR	SECOR International Incorporated
SOPs	standard operating procedures
SWL	static water level
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
TOC	total organic carbon
trans-1,2-DCE	trans-1,2-dichloroethene
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOA	volatile organic ampoule
VOCs	volatile organic compounds
µg/L	micrograms per liter

1.0 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), SECOR International Incorporated (SECOR) is pleased to present this report of the Second Quarter 2006 groundwater monitoring results from the Purity Oil Sales Superfund Site (Site). Groundwater monitoring is performed at the Site under the authority of the Operable Unit 2 (OU-2) Record of Decision (ROD). The monitoring program consisted of water level and water quality data collection. The Second Quarter 2006 groundwater monitoring was conducted from May 19 to 25, 2006.

1.1 Site Description

The Site is a former used oil-recycling facility located at 3281 South Maple Avenue in Malaga, California within an unincorporated portion of Fresno County (Figure 1). The Site is located approximately 1 mile south of Fresno, California and covers approximately 7 acres in an area zoned for heavy industrial use. Between the years of 1934 and 1975, several different owners recycled used motor oil at this Site. The waste oil came from businesses such as service stations, car dealers, truck stops, electrical transformer yards, municipalities, school districts, and the military. The used motor oil, acidic sludges, and clay- and oil-containing filter cake from the recycling process were disposed in unlined soil pits.

In 1973, a Fresno County Superior Court Order was issued to the facility to empty and backfill the pits. The unlined pits were filled with soil and construction debris in 1975. The western part of the Site consisted of unlined sumps and sludge pits. A fire at the Site in 1976 destroyed the main warehouse building and adjacent equipment. After the fire, the area was partially regraded and seven steel tanks were removed. Purity Oil Sales was included on the National Priority List in September 1983 following soil, groundwater, and air quality investigations conducted by the United States Environmental Protection Agency (USEPA), Department of Health Services, and California Regional Water Quality Control Board (RWQCB). The USEPA is addressing remediation of the Site with the designation of two Operable Units: Operable Unit 1 (OU-1) Groundwater and Tanks; and Operable Unit 2 (OU-2) Soil Remediation.

The Site is located in a zone designated for heavy industrial use, in accordance with the Fresno County General Plan. Most of the land in the Site vicinity is used for industrial or agricultural purposes. Some residences were located immediately north and south of the eastern portion of the property. Residences of the former Tall Trees Trailer Park, bordering the property, have been relocated in conjunction with the OU-2 soil remediation.

The industrial activity in the area includes agricultural support industries, heavy equipment rentals, repair shops, a former cotton oil facility, scrap yards, several trucking yards, and various light industries. Directly adjacent to the Purity Oil Sales Site are two junk yards, the Burlington Northern Railroad (formerly the Atchison, Topeka, and Santa Fe Railroad Company) right-of-way, the Golden State Market, and a trucking company.

The area is crossed by the North Central and Central Canals which are operated and maintained by the Fresno Irrigation District (Figure 1). The North Central Canal flows westward along the southern edge of the Purity Oil Sales property and cuts across the southwestern

corner. The North Central Canal, near the Site, has been placed within a concrete culvert. Oats, cotton, fruit, and grapes are grown approximately 1 mile west and southwest of the Site. During the summer, the crops are irrigated with water from the North Central Canal.

1.2 Report Organization

The following sections complete the Second Quarter monitoring report:

- Section 2 – Data Collection and Quality
- Section 3 – Water Level Monitoring Results
- Section 4 – Water Quality Results
- Section 5 – Monitored Natural Attenuation Parameters
- Section 6 – Conclusions
- Section 7 – Limitations

2.0 DATA COLLECTION AND QUALITY

This section describes the data collected, analytical program, and the data quality review. Data collection and evaluation for the quarterly monitoring events at the Site are conducted pursuant to the revised Sampling and Analysis Plan (SAP) submitted to the USEPA in May, 2005. The SAP is comprised of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP). The SAP was drafted to support groundwater monitoring activities for OU-1. The SAP delineates the criteria and methods to define and control chemical quality to assure accurate, precise, representative, complete, legally defensible, and comparable data. The SAP will be revised to reflect current conditions and remediation goals at the Site with respect to OU-1 as needed.

2.1 MicroPurge Low-flow Pump Installation

Twenty-five on- and off-site monitoring wells are equipped with dedicated QED Environmental Systems (QED) Well Wizard® bladder pumps for incorporation into MicroPurge® (minimal-drawdown) sampling methods. The installation of QED pumps took place between September 3 and 11, 2002. Each bladder pump was positioned with its inlet located within the saturated screened interval of the well, and the pump rate was pre-tested to allow stabilized drawdown to be maintained during sampling (Table 1) (Figures 3 and 4). The dedicated downhole equipment (bladder pumps, Teflon-lined polyethylene tubing, and well seals) is designed to achieve optimum sampling conditions with minimal drawdown of the water level.

Low-flow purging and sampling standard operating procedures (SOPs) using MicroPurge® methods are included in Appendix A. Monitoring wells and private production wells, where it was not feasible to install QED pumps, were sampled using purge and bailer methods discussed in the SAP. Monitoring well purging and sampling SOPs and sample handling SOPs are included in Appendix A.

2.2 Monitoring Data

On May 18, 2006, groundwater level measurements were taken in 33 wells. These wells consist of 2 on-site extraction wells, 9 on-site monitoring wells, 16 off-site monitoring wells, and 6 off-site inactive production wells (Figure 1). Reference top of casing elevations did not change from the First Quarter 2006 values at any of the well heads during the Second Quarter 2006 monitoring event.

Groundwater samples were collected from 24 monitoring wells, 2 on-site extraction wells, and 2 off-site inactive production wells from May 19 to 25, 2006. Monitoring well MW-13 was not accessible due to an 8-foot corrugated steel fence newly erected by the neighboring Pick-a-Part salvage yard. The fence impeded usual and customary safe access to MW-13 from the Site. Pick-a-Part staff agreed to install a gate in the steel fence for access and egress during sampling. This should be completed by the next quarterly sampling event. Production well, MW-35P was not in use during the sampling event. Eight private, off-site, and inactive production well pumps were non-functional and were not able to be sampled. Only four of these production wells could be accessed solely for depth-to-water measurements (Table 2).

A total of 15 quality control (QC) samples were collected in addition to the primary samples. These included 5 equipment blanks, 5 trip blanks, 3 field duplicates, and 2 sets of matrix spike and matrix spike duplicates (MS/MSD) samples (Table 3).

Table 2 lists the wells monitored during the Second Quarter 2006 event. Appendix B contains the groundwater sampling and gauging forms. Chain-of-custody forms are located in Appendix C. Appendix D contains certified analytical reports. Quality Assurance (QA) Review and a Data Validation Summary are included in Appendix E. Appendix F lists the available historical chemical results for the target ROD compounds and includes the May 2006 data. Appendix G contains hydrographs, well screen intervals, QED pump locations, and groundwater elevation data for the current monitoring event.

2.3 Analytical Program

A breakdown of the analyses performed by Lancaster Laboratories, Inc., a California-certified laboratory, for the Second Quarter 2006 groundwater samples is as follows:

- SW846/8260B Waters – 25 mL purge (volatile organic analysis) using SW-846, Method 8260B
- GC/MS Volatiles Water Prep using SW-846, Method 5030B
- ICP Metals (iron, manganese, arsenic, and selenium) using SW-846, Method 6010B
- Metals Water Digestion using SW-846, Method 3005A
- Nitrate-nitrogen, sulfate, and chloride using EPA 600, Method 300.0
- Total Organic Carbon (TOC) using EPA 600, Method 415.1
- Alkalinity to pH 4.5/8.3 using EPA 600, Method 310.1
- Ferrous iron (Fe^{2+}) using Method SM18, 3500-Fe D (Modified)
- Carbon dioxide (CO_2) by Headspace using EPA SW-846 , Method 8000B
- Volatile Headspace Hydrocarbon (methane, ethane, and ethene) using SW-846, Method 8015B, Modified

Table 3 lists the analytical program performed for the Second Quarter 2006 monitoring event.

2.4 Data Quality Review

Quality assurance and quality control (QA/QC) measures were followed in all aspects of field procedures, field-related QC sample results, and QC data accumulated at the laboratory. Additionally, the analytical results were reviewed with the Data Quality Objective (DQO) Level IV requirements described in the SAP and summarized in the Quality Assurance Review (Appendix E). These protocols were used to ensure the acceptability of the analytical data to assess groundwater quality at and around the Site. As discussed in the SAP, SOPs were followed in the field during the collection and handling of the samples (Appendix A). The proper frequency of QC samples collected was met (Appendix A).

The conclusion of the QA review indicates that the reported groundwater analytical data are acceptable and can be used to evaluate groundwater quality. The certified analytical reports are included on the compact disk, in read-only (CD-ROM) format, and located in the inside back cover of this report. The following sections present the data assessment of the compounds of concern listed in the ROD.

2.4.1 Field Quality Assurance / Quality Control

All accumulated field data (Appendix B) was evaluated for completeness and accuracy. No omissions or anomalies were identified.

Field QC data consisted of trip blanks, equipment blanks, and field duplicates. Trip blank and equipment blank samples were analyzed for volatile organic compounds (VOCs) only (as intended). Field duplicate samples were analyzed for the same constituents as the primary samples. Results of the QC data suggest that field conditions and procedures did not adversely affect analytical data quality. Results of analytical data for QC samples are summarized in Table 4.

Trip and Equipment Blanks

Five trip blanks were collected (MWT1-57 to MWT5-57). Sealed 40 ml volatile organic ampoule (VOA) trip blanks are filled and prepared with de-ionized (DI) water at the laboratory and were shipped unopened with the field samples. The trip blanks were analyzed for VOCs upon return to the laboratory. There were no VOC detections above the method detection limit (MDL) in any of the five trip blanks.

Five equipment blanks were collected (MW39E-57, MW25E-57, MW7IE-57, MW6SE-57, and MW32PE-57). There no VOC detections in any of the five equipment blanks. The DI water provided by the laboratory is supplied in three sealed, one-gallon containers intended specifically for equipment blank collection. The DI water is rinsed over any equipment that goes down-well where potential contaminants could be transferred from one well to another. During the Second Quarter 2006, the water level indicator was the only piece of equipment that went down-well.

Field Duplicates

***RPDs with detections above ROD concentrations*:**

Metals constituent concentrations that exceeded their Record of Decision/Maximum Contaminant Level/Remedial Goal (ROD/MCL/RG) and that had relative percent differences (RPDs) between the primary and duplicate samples are as follows: Manganese was detected in two of three sample pairs. Manganese analysis had a RPD of 0.6 percent in MWD1-57 when compared with the field sample for well MW-41. Monitoring well sample MWD3-57 showed a RPD for manganese of 1.5 percent when compared to the field sample for well MW-6D.

None of the duplicate sample pairs had detections above their ROD/MCL/RG.

Disagreements on Table 5 are defined as detections that are found in either the duplicate sample or the primary sample, but not both samples. There was one disagreement between sample pairs for the above-ROD metals results: Arsenic analysis showed one RPD dispute in MWD2-57 (10.4 J µg/L) when compared with the field sample MW-7I (ND). Regarding above-ROD VOCs, there are no disagreements between sample pairs.

RPDs with detections below ROD concentrations:

For the metals detected below ROD concentrations, iron was detected in both samples in one of three sample pairs (MWD1-57). The RPD between the primary and duplicate iron sample is 20.5 percent when compared with the field sample for well MW-41.

VOC constituents detected below their ROD/MCL/RG and that had RPDs between the primary and duplicate samples are as follows: Sample MWD3-57 had a RPD of 0.0 percent for 1,1-dichloroethane (1,1-DCA), a RPD of 2.4 percent for cis-1,2-dichloroethene (cis-1,2-DCE), a RPD of 0.0 percent for 1,2-dichloroethane (1,2-DCA), and a RPD of 2.7 percent for trichloroethene (TCE) when compared with the field sample for well MW-6D.

Disagreements on Table 5 are defined as detections that are found in either the duplicate sample or the primary sample, but not both samples. There was one disagreement between sample pairs for the below-ROD metals results: Iron analysis showed one RPD dispute in MWD3-57 (76.2 µg/L) when compared with the field sample MW-6D (ND). Regarding below-ROD VOCs, there are no disagreements between sample pairs.

2.4.2 Laboratory QA/QC

The Second Quarter 2006 groundwater sampling event involved the collection and analysis of a total of 28 field samples and 15 QA/QC samples consisting of daily equipment and trip blanks, duplicate samples, and MS/MSD sample sets. The samples were collected, transported, and analyzed in accordance with USEPA guidelines and the Site SAP. The minimum QAPP requirements regarding the percentage of duplicate samples, blanks, and MS/MSD samples analyzed were met (Appendix E).

Analytical QA/QC limits were evaluated regarding instrument performance, surrogate recovery, laboratory control samples (LCSs), and MS/MSD. Failure to meet specifications resulted in sample results being flagged with data qualifiers. Where analytes were detected in the method blanks, sample results have been flagged with data qualifiers or negated using USEPA guidelines.

The analytical data presented in the Second Quarter 2006 sampling event are usable and valid with the data qualifiers discussed in this report. The laboratory has noted that all QC data is within specification. The laboratory QA/QC detailed review is provided in Appendix E.

3.0 WATER LEVEL MONITORING RESULTS

This section contains the May 2006 groundwater elevation measurements, as well as background on the Site's hydrogeology.

3.1 Site Hydrogeology

The Site is located in the San Joaquin River basin and consists of unconsolidated floodplain and alluvial deposits formed by the San Joaquin and Kings Rivers. The soils at the Site are described as poorly graded sands and silty sands extending to a depth of 170 feet below ground surface (bgs). A partially lithified silt layer is encountered at a depth of 10 to 20 feet bgs over most of the Site. Three water-bearing intervals have been described, and these are labeled shallow, intermediate, and deep. They are part of the interbedded regional water table aquifer. Figure 2 provides a cross-section location map, and Figures 3 and 4 provide generalized geologic cross-sections for east-west and northwest-southeast trends.

The current hydrogeological site conceptual model assumes two primary water-bearing intervals impacted by contamination from Site sources: the shallow interval, groundwater approximately 55 to 75 feet bgs; and the intermediate interval, groundwater approximately 80 to 100 feet bgs. The interval characterized as the deep interval, groundwater at depths greater than 100 feet bgs, does not appear to be significantly impacted by Site contamination, although concentrations of several ROD VOCs have sporadically been detected at, or near, their respective MCL/ROD/RG in samples collected from wells MW-6D and MW-34I. Aquifer testing indicates that even though the aquifer contains identifiable intervals, these intervals may act as one hydrostratigraphic unit. The silt separating the intervals only impedes downward migration of containments, but does not stop the migration. This conclusion is supported by the ongoing water level and water quality monitoring results.

A summary of the hydrogeologic system is as follows:

- Groundwater measured in the shallow, intermediate, and deep interval is encountered at a depth ranging from 54.05 (well MW-2S) to 75.02 (well MW-5D) feet below top of casing (BTOC) across the Site (Table 6).
- Based on hydraulic testing performed at the Site, the hydraulic conductivity ranges from 0.44 to 270 feet per day (ft/day) with a geometric mean hydraulic conductivity of 11 ft/day.
- The hydraulic gradient for the Site is 0.0023 in the shallow and intermediate interval and 0.0024 in the deep interval. The groundwater flow direction is to the northwest for all intervals.
- Pertaining to the shallow and intermediate interval: Based on the mean hydraulic conductivity of 11 ft/day, a hydraulic gradient of 0.0023, and an effective porosity of 0.20, the average horizontal groundwater velocity is 46 feet per year (ft/year).
- Pertaining to the deep interval: Based on the mean hydraulic conductivity of 11 ft/day, a hydraulic gradient of 0.0024, and an effective porosity of 0.20, the average horizontal groundwater velocity is 48 ft/year.

- No drinking water wells are located within 1 mile downgradient of the Site. Any production wells in the area are no longer in use, with the exception of irrigation production well MW-35P, near the corner of Cedar and North Avenues, which operates periodically. A private production well, identified as "Well X" in the Remedial Investigation Report (Harding and Lawson, 1986[1]), is located approximately 350 feet upgradient of the Purity Oil Site on property designated as Cal-Sandblasting, formerly Vangas Propane Company.

3.2 Groundwater Elevation and Flow

On May 18, 2006, groundwater level measurements were taken in 33 wells within the monitoring network. Table 6 presents the depth-to-water measurements and corresponding groundwater elevations for the May 2006 event. Groundwater contour maps were produced for both the shallow/intermediate interval and deep interval (Figures 5 and 6). Groundwater elevation hydrographs for selected wells containing low-flow QED MicroPurge® pumps are included as Appendix G. Also presented on the hydrographs is a characterization of the groundwater elevation relative to the monitoring well screened interval and the MicroPurge® pump sampling location.

3.2.1 Shallow and Intermediate Intervals

During the May 2006 event, groundwater level measurements were taken in 23 shallow to intermediate wells and the two extraction wells. Depth to groundwater in the monitoring wells ranged from 54.05 (well MW-2S) to 73.99 (well MW-8) feet BTOC. The groundwater elevations ranged from 227.23 (well MW-34I) to 234.92 (well MW-2S) feet above mean sea level (msl) and includes the elevations from the non-operating extraction wells (Table 6). On average, the depth-to-groundwater increased 0.11 feet from the First Quarter 2006 to the Second Quarter 2006 monitoring event.

A groundwater contour map for the shallow interval is shown on Figure 5. Groundwater flow direction is to the northwest at a hydraulic gradient of 0.0023. The shallow interval flow direction and hydraulic gradient are consistent with the previous monitoring event.

3.2.2 Deep Interval

Water level measurements were taken in eight deep wells during the May 18, 2006 gauging event. Depth to groundwater ranged from 54.75 (well MW-2D) to 75.02 (well MW-5D) feet BTOC. Groundwater elevations ranged from 227.28 (well MW-32P) to 234.86 (well MW-2D) feet above msl. On average, the depth-to-groundwater increased 0.07 feet in the deep zone from the First Quarter 2006 to the Second Quarter 2006 monitoring event.

Figure 6 shows the deep interval groundwater contour map. Groundwater flow direction is to the northwest at an average hydraulic gradient of 0.0024. The deep interval flow direction is consistent with the previous monitoring event.

[1] Harding Lawson and Associates. 1986. Remedial Investigation Report, Purity Oil Sales Site, Fresno, California, May.

3.2.3 Site Trends

The groundwater elevation for all wells at the Site has, on average, declined approximately 16 feet over the past 20 years (Appendix G and Table 7). More specifically, the groundwater elevation has decreased 2.81 feet over the last 4 years.

4.0 WATER QUALITY RESULTS

Water quality was monitored for VOCs and dissolved iron, manganese, arsenic, and selenium (Table 3). The distribution trends of these constituents are presented in this section. In addition, nitrate, sulfate, chloride, alkalinity, Fe^{+2}, TOC, methane, and CO_2 were analyzed to evaluate monitored natural attenuation (MNA) parameters discussed in Section 5. QC samples, such as duplicates, were discussed in Section 2.4, Data Quality Review. Appendix D presents the laboratory data sheets and certified analytical results included on CD-ROM. Appendix F lists the available historical chemical results for the target ROD compounds and includes the May 2006 data.

4.1 Volatile Organic Compounds

VOCs were detected in the groundwater samples collected from the Site. Table 8 lists the concentrations for the targeted ROD compounds which include: benzene; 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); trichloroethene (TCE); and vinyl chloride (VC). The ROD contains remedial goals (RG) for the majority of the detected VOCs that correspond to the primary maximum contaminant levels (MCLs) for the VOCs.

Of the 28 wells sampled in May 2006, groundwater samples from wells EW-1, MW-6S, MW-7S, MW-10, and MW-34I contained VOCs at or above the ROD/MCL/RG. Wells MW-5D, MW-6D, MW-8, MW-9, MW-23, MW-32P, and MW-38 had detections of one to five constituents above their respective MDLs but below their ROD/MCL/RG. Groundwater samples from the remaining wells contained no VOCs above detection limits.

- The highest VOC concentrations are observed for cis-1,2-DCE (110 micrograms per liter [µg/L] in well MW-10). Concentrations above the ROD/MCL/RG level for cis-1,2-DCE (6 µg/L) were also detected in wells EW-1 (88 µg/L), MW-6S (70 µg/L), and MW-7S (23 µg/L). Detections below the ROD/MCL/RG level for cis-1,2-DCE occurred in wells MW-8 (2.2 µg/L), MW-9 (2.3 µg/L), MW-5D (0.1 J µg/L) and MW-6D (4.2 µg/L).

Detections for cis-1,2-DCE are substantially higher than the next highest compounds exceeding the ROD/MCL/RG levels:

- 1,2-DCA was detected at or above the ROD/MCL/RG level (0.5 µg/L) in wells EW-1 (0.9 µg/L), MW-6S (3.0 µg/L), MW-10 (5.4 µg/L), and MW-34I (0.5 µg/L). Detections below the ROD/MCL/RG level for 1,2-DCA occurred in wells MW-7S (0.4 J µg/L), MW-8 (0.2 J µg/L), MW-9 (0.2 J µg/L), MW-23 (0.3 J µg/L), MW-6D (0.3 J µg/L), and MW-32P (0.3 J µg/L).

- 1,1-DCA exceeded the ROD/MCL/RG level (5.0 µg/L) in well MW-6S (5.9 µg/L). Detections below the ROD/MCL/RG level for 1,1-DCA occurred in wells EW-1 (2.3 µg/L), MW-7S (0.6 µg/L), MW-8 (1.4 µg/L), MW-10 (4.2 µg/L), MW-9 (0.2 J µg/L), MW-23 (0.3 J µg/L), MW-5D (0.1 J µg/L), and MW-6D (2.9 µg/L).

- Benzene exceeded the ROD/MCL/RG level (1.0 µg/L) in wells EW-1 (1.1 µg/L) and MW-10 (3.9 µg/L). Detections below the ROD/MCL/RG level for benzene occurred in wells MW-6S (0.7 J µg/L), MW-7S (0.8 µg/L), and MW-8 (0.1 J µg/L).

- Vinyl chloride was detected slightly above the ROD/MCL/RG level (0.5 µg/L) in wells EW-1 (0.7 µg/L), MW-6S (0.7 J µg/L), and MW-10 (0.7 µg/L). Detections below the ROD/MCL/RG level for vinyl chloride occurred in well MW-7S (0.1 J µg/L).

- Trace amounts of 1,1-DCE were detected in wells EW-1 (0.2 J µg/L), MW-10 (0.3 J µg/L), and MW-38 (0.3 J µg/L).

- Low concentrations of trans-1,2-DCE were detected in wells EW-1 (1.6 µg/L), MW-6S (0.7 J µg/L), MW-7S (0.6 µg/L), and MW-10 (2.4 µg/L).

- Low concentrations of TCE were detected in wells EW-1 (1.3 µg/L), MW-6S (0.8 J µg/L), MW-7S (0.6 µg/L), MW-8 (1.0 µg/L), MW-10 (0.4 J µg/L), MW-9 (0.1 J µg/L), and MW-6D (3.7 µg/L).

4.1.1 Distributions of VOCs

Figures 7 through 14 show the isoconcentration contours for the target ROD VOCs. Contour intervals are based on the ROD/MCL/RG limit and increase by orders of magnitude. The isoconcentration contours indicate the highest concentrations of VOCs are found at the southern portion of the former Tall Trees Mobile Home Park Property and the adjacent corner of the Site at wells EW-1, MW-6S, MW-7S, and MW-10. These wells contained four of the maximum concentrations for ROD VOC constituents reported in May 2006.

The following summarizes the ROD VOC compounds:

- Benzene (Figure 7)
  - Detected in 5 of 28 primary samples.
  - Two detections at or above the ROD/MCL/RG of 1 µg/L.
  - Highest concentration was 3.9 µg/L in well MW-10.
- 1,1-DCA (Figure 8)
  - Detected in 9 of 28 primary samples.
  - One detection at or above the ROD/MCL/RG of 5 µg/L.
  - Highest concentration was 5.9 µg/L in well MW-6S.
- 1,2-DCA (Figure 9)
  - Detected in 10 of 28 primary samples.
  - Four detections at or above the ROD/MCL/RG of 0.5 µg/L.
  - Highest concentration was 5.4 µg/L in well MW-10.
- 1,1-DCE (Figure 10)
  - Detected in 3 of 28 primary samples.

  - No detections at or above the ROD/MCL/RG of 6 µg/L.
  - Highest concentration was 0.3 J µg/L in wells MW-10 and MW-38.

- cis-1,2-DCE (Figure 11)
  - Detected in 8 of 28 primary samples.
  - Four detections at or above the ROD/MCL/RG of 6 µg/L.
  - Highest concentration was 110 µg/L in well MW-10.
- trans-1,2-DCE (Figure 12)
  - Detected in 4 of 28 primary samples.
  - No detections at or above the ROD/MCL/RG of 10 µg/L.
  - Highest concentration was 2.4 µg/L in well MW-10.
- TCE (Figure 13)
  - Detected in 7 of 28 primary samples.
  - No detections at or above the ROD/MCL/RG 5 µg/L.
  - Highest concentration was 3.7 µg/L in well MW-6D.
- Vinyl Chloride (Figure 14)
  - Detected in 4 of 28 primary samples.
  - Three detections above the ROD/MCL/RG of 0.5 µg/L.
  - Highest concentration was 0.7 µg/L in wells EW-1, MW-6S, and MW-10.

Wells EW-1, MW-6S, MW-6D, MW-7S, MW-8, and MW-10 define the higher concentration plume area for all the constituents, with wells EW-1, MW-6S, and MW-10 being the most impacted. The most broadly distributed VOCs are 1,2-DCA and cis-1,2-DCE (Figures 9 and 11, respectively). The plumes of all VOCs appear to have stabilized and have not migrated when compared to the First Quarter 2006.

The majority of the highest chemical detections (detections above the ROD/MCL/RG) were from wells completed in the shallow zone, with the exception of well MW-34I. Well MW-34I is completed in the intermediate zone.

4.1.2 VOC Trends

Generally, 39 percent of groundwater samples collected from the 28 wells in the last eight quarters have not contained ROD VOCs (11 of 28 wells sampled). For the same time period, 53 percent of wells with ROD VOC detections have only had one to five VOC detections above their respective ROD/MCL/RG limits (9 of 17 wells sampled with detections above their ROD). A review of historical detections within the last two years indicates that the wells with the majority of consistent VOC detections above their respective MCL/ROD/RG are completed in the shallow interval: EW-1, MW-6S, MW-7S, MW-8, and MW-10. Concentrations of several ROD VOCs have sporadically been detected above their respective MCL/ROD/RG in samples collected from intermediate interval wells MW-9 and MW-34I. In samples collected from the deep interval, concentrations of several ROD VOCs have sporadically been detected above their respective MCL/ROD/RG in wells MW-6D and MW-32P. The majority of the detections in the last eight quarters for all 28 sampled wells in the Second Quarter 2006 are trace concentrations at, or near, their respective MCLs. Wells with detections at trace level concentrations at, or near, their respective MCLs are: EW-2, MW-16, and MW-19 in the shallow

zone; wells MW-11, MW-38, and MW-23 in the intermediate zone; wells MW-5D and MW-28P in the deep zone. Appendix F contains historic concentrations of selected VOCs and metals for all of the wells in the Site monitoring well network.

4.2 Metals

Iron and manganese are the inorganic chemicals of concern listed in the ROD. The naturally-occurring constituents iron and/or manganese were detected above the ROD/MCL/RG in 11 of 28 sampled wells (excluding duplicates). Four detections were above the ROD/MCL/RG for iron and 11 detections were above the ROD/MCL/RG for manganese. The ROD/MCL/RG are set at the secondary MCLs of 300 µg/L for iron and 50 µg/L for manganese. Secondary MCLs are based on aesthetic rather than health considerations.

Additionally, at the request of the USEPA, samples were also analyzed for arsenic and selenium. Arsenic was detected above the MCL of 10 µg/L in 2 of the 28 wells sampled (excluding duplicates). There were no detections of selenium in any of the samples collected.

Table 8 lists the dissolved iron (Fe^{2+}), manganese, arsenic, and selenium concentrations. Figures 15 through 18 show isoconcentration contours for dissolved iron, manganese, arsenic, and selenium. Contour intervals are based on the ROD/MCL/RG limits and increase by orders of magnitude.

4.2.1 Distribution of Iron and Manganese

The distribution of elevated concentrations of iron and manganese are similar to the observed VOC trends. The highest concentrations of iron and manganese exceeding the ROD/MCL/RG were found at the southern portion of the former Tall Trees Mobile Home Park property and the adjacent corner of the Site, as well as the center of the Site, (wells EW-1, MW-5D, MW-6S, MW-7S, and MW-10).

Additional high concentrations of manganese were also detected in samples from wells MW-8, MW-9, MW-23, MW-25, and MW-41. The following summarizes the dissolved iron and manganese detections:

- Dissolved Iron (Figure 15)
  - Detected in 6 of 28 groundwater samples (excluding duplicates).
  - Four detections exceeded the ROD/MCL/RG of 300 µg/L.
  - The highest detected concentration was from well MW-10 at 6,050 µg/L.
  - Well EW-1 yielded a sample with the next highest concentration of 2,100 µg/L.
  - Other wells with notable dissolved iron detections above the ROD/MCL/RG limit included: MW-6S (1,660 µg/L) and MW-7S (1,770 µg/L) during the May 2006 event. These are consistent with levels detected in recent monitoring events.
  - Wells with detections below the ROD/MCL/RG had dissolved iron results of the following: MW-8 (89.1 J µg/L) and MW-41 (204 µg/L).
  - Dissolved iron was not detected above the MDL (66.7 µg/L) upgradient of the Site in well MW-2S (<66.7 µg/L) or in well MW-2D (<66.7 µg/L).

- Dissolved Manganese (Figure 16)
  - Detected in 21 of the 28 groundwater samples (excluding duplicates).
  - Eleven detections exceeded the ROD/MCL/RG of 50 µg/L.
  - The highest detected concentration was from well MW-6S at 2,910 µg/L.
  - Well MW-10 yielded a sample with the next highest concentration of 1,670 µg/L.
  - Other wells with notable dissolved manganese detections above the ROD/MCL/RG limit and their respective concentrations are wells: EW-1 (992 µg/L), MW-5D (243 µg/L), MW-6D (53.5 µg/L), MW-7S (846 µg/L), MW-8 (103 µg/L), MW-9 (216 µg/L), MW-23 (226 µg/L), MW-25 (107 µg/L), and MW-41 (680 µg/L). These are consistent with levels detected in recent monitoring events.
  - Dissolved manganese was also detected at concentrations below the ROD/MCL/RG in wells EW-2 (15.9 µg/L), MW-16 (5.4 µg/L), MW-19 (1.5 J µg/L), MW-11 (12.7 µg/L), MW-39 (1.2 J µg/L), MW-40 (21.8 µg/L), MW-34I (3.3 J µg/L), MW-2D (3.3 J µg/L), MW-28P (0.37 J µg/L), and MW-32P (6.3 µg/L).
  - Upgradient of the Site, dissolved manganese was detected above the MDL (0.96 µg/L) in well MW-2D (3.3 J µg/L). Well MW-2S showed a Non Detect for dissolved manganese (<0.96 µg/L).

4.2.2 Trends for Iron and Manganese

Numerous factors complicate the interpretation of the iron and manganese concentrations. Anthropogenic factors, such as agricultural fertilizers, automotive recycling operations, or other industrial activity may be impacting groundwater quality. Elevated iron and manganese concentrations are also likely due to increased biodegradation activity that is reducing compounds with iron and manganese into more soluble forms. In general, the highest concentrations of iron and manganese were detected in wells EW-1, MW-5D, MW-6S, MW-7S, MW-8, MW-9, and MW-10 which correspond to samples collected from wells also containing the highest concentrations of VOCs (Table 8).

4.2.3 Distribution of Arsenic and Selenium

Arsenic was detected above the MDL (9.3 µg/L) and the MCL (10 µg/L) in groundwater samples collected from wells EW-1 (10.3 J µg/L) and MW-7S (23 µg/L). Arsenic was detected above the MDL (9.3 µg/L) in the sample collected from MW-20 (9.8 J µg/L) (Figure 17).

Selenium was not detected above the MCL of 50 µg/L or the MDL (9.4 µg/L) in any samples collected during this sampling event (Figure 18).

4.2.4 Trends for Arsenic and Selenium

The highest concentrations of arsenic were detected in wells EW-1, and MW-7S which correspond to samples collected from wells also containing the high concentrations of VOCs (Table 8). Arsenic was detected in the duplicate sample to MW-7I (10.4 J µg/L), but was not detected in the primary sample.

4.3 pH

- On-site shallow zone well pH measurements ranged from a low of 6.51 at well MW-16 to a high of 7.20 at well EW-2.
- Off-site shallow zone well pH measurements ranged from a low of 6.49 at well MW-2S to a high of 7.59 at well MW-34S.
- On-site intermediate zone well pH values ranged from a low of 6.95 at well MW-9 to a high of 7.16 at well MW-7I.
- Off-site intermediate zone well pH values ranged from a low of 6.19 at well MW-41 to a high of 8.05 at well MW-20.
- On-site deep zone well pH values were detected at a low of 7.16 at well MW-5D to a high of 7.82 at well MW-6D.
- Off-site deep zone well pH values ranged from a low of 7.39 at well MW-32P to a high of 7.71 at well MW-34D.
- Upgradient well MW-2S had a pH of 6.49 and upgradient well MW-2D had a pH of 7.44.

Stabilized pH measurements gathered from wells that were sampled are presented in Table 9.

5.0 MONITORED NATURAL ATTENUATION PARAMETERS

At meetings with the USEPA in September and October 2002, MNA was presented as a remedial alternative for groundwater at the Site. During the October 2002 meeting, data was presented regarding natural attenuation. In addition, steps currently being taken (e.g. MicroPurge® groundwater sampling and analyzing for certain MNA parameters) to assess the effectiveness of MNA were discussed.

Sampling considerations and analytical methods for natural attenuation indicators are based on the Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater (USEPA, 1998[2]) and The American Society for Testing and Materials Standard Guide for Remediation of Groundwater by Natural Attenuation at Petroleum Sites (ASTM, 1998[3]). The following analytical parameters for preliminary screening for anaerobic biodegradation processes and natural attenuation were developed and are currently being collected during the Site quarterly groundwater monitoring events. Regional hydrogeology and geochemistry may be used in the future to define a more focused list appropriate for the specific geologic setting of the Site.

- Dissolved oxygen (DO)
- Oxidation reduction potential (ORP)
- Temperature
- Electrical conductivity (EC)
- pH
- Total dissolved iron
- Ferrous iron (Fe II)
- Manganese
- Methane
- Nitrate
- Sulfate
- TOC
- Carbon dioxide
- Alkalinity
- Chloride
- PCE
- TCE
- DCE
- Vinyl chloride
- DCA
- Ethane/ethene
- Chloroethane
- BTEX compounds

A data summary for the preliminary screening of MNA parameters collected during the Second Quarter 2006 groundwater monitoring event is presented in Table 10.

Evaluation of natural attenuation parameters using the USEPA Technical Protocol (USEPA, 1998[2]) for chlorinated solvents indicates natural attenuation continues to be an active process at the Site. The strongest factors that are sampled at the Site that influence MNA are: low DO (< 0.5 mg/L), low ORP (< -100 mV), high Fe^{2+} (> 1 mg/L), high methane (> 0.5 mg/L), and high ethene/ethane (> 0.1 mg/L). The MNA process in the Second Quarter 2006 is most active in the source area and immediately downgradient in the vicinity of wells EW-1, MW-6S, MW-7S, MW-8, and MW-10.

[2] USEPA. 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water. Office of Research and Development, Washington, D.C. EPA/600/R-98/128. September.
[3] ASTM. 1998. ASTM Guide for Remediation by Natural Attenuation at Petroleum Release Sites, E 1943-98.

6.0 CONCLUSIONS

The following conclusions summarize the findings of Second Quarter 2006 groundwater monitoring event:

- The detection monitoring network consists of both monitoring and production wells completed in a regional water-bearing zone. Within the project area, this water-bearing zone has been subdivided into three intervals. The shallow and intermediate intervals make up the shallow water-bearing zone. The deep interval is considered the deep water-bearing zone.
- Hydraulic gradients and groundwater flow direction for the shallow and deep zones are similar for this sampling event. The groundwater flow direction is to the northwest in the shallow and deep zones. The hydraulic gradient for the shallow zone is 0.0023 and the hydraulic gradient for the deep zone is 0.0024. These values are consistent with previous monitoring events.
- Between the First Quarter 2006 and Second Quarter 2006, depth-to-groundwater levels have increased approximately 0.11 feet in the shallow zone and increased approximately 0.07 feet in the deep zone.
- The extent of VOCs is defined in the subject area. The highest concentrations are located in the southern portion of the Tall Trees Mobile Home Park Property and the adjacent corner of the Site at wells EW-1, MW-6S, and MW-10. Wells EW-1, MW-6S, MW-6D, MW-7S, MW-8, and MW-10 define the higher concentration plume area for all the VOCs.
- Cis-1,2-DCE was detected at the highest concentration of any ROD VOCs (110 µg/L) in the sample from well MW-10. Other maximum ROD VOC constituent detections included 1,2-DCA at 5.4 µg/L (well MW-10), benzene at 3.9 µg/L (well MW-10), 1,1-DCA at 5.9 µg/L (well MW-6S), TCE at 3.7 µg/L (well MW-6D), trans-1,2-DCE at 2.4 µg/L (well MW-10), VC at 0.7 µg/L (wells EW-1, MW-6S, and MW-10), and 1,1-DCE at 0.3 J µg/L (wells MW-10 and MW-38).
- Benzene, 1,1-DCA, 1,2-DCA, and cis-1,2-DCE were the most widespread VOCs with detectable concentrations. Of the five detections of benzene, two were at a concentration above the ROD/MCL/RG limit of 1 µg/L. Of the nine detections of 1,1-DCA, one was at concentration above the ROD/MCL/RG limit of 5 µg/L. Of the ten detections of 1,2-DCA, four were at a concentration above the ROD/MCL/RG limit of 0.5 µg/L. Of the eight detections of cis-1,2-DCE, four were at a concentration above the ROD/MCL/RG limit of 6 µg/L.
- Iron and/or manganese were detected above the ROD/MCL/RG in 11 of 28 sampled wells (excluding duplicates). Four detections were above the ROD/MCL/RG for iron and 11 detections were above the ROD/MCL/RG for manganese. In general, the highest concentrations of iron and manganese were detected in wells EW-1, MW-5D, MW-6S, MW-7S, MW-8, MW-9, and MW-10 which correspond to samples collected from wells also containing the highest concentrations of VOCs. This may be due to increased

biodegradation activity occurring in the same area that is reducing compounds with iron and manganese into more soluble forms.

- Well MW-41 continued to show an anomalous concentration trend for manganese for the Second Quarter 2006 sampling event (680 µg/L). Manganese in this well was detected at concentrations similar to the on-site wells. Well MW-41 is outside the VOC plume and cross-gradient to the source area.
- Measured pH levels in groundwater samples ranged from 6.19 (well MW-41) to 8.05 (well MW-20). The recorded pH values for these wells are consistent with historical data.
- Evaluation of natural attenuation parameters for chlorinated solvents indicates that natural attenuation continues to be an active process at the Site and is most active in the source area and immediately downgradient in the vicinity of wells EW-1, MW-6S, MW-7S, MW-8, and MW-10.

7.0 LIMITATIONS

The conclusions and recommendations contained in this report/assessment are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations:

1. The data and findings presented in this report are valid as of the dates when the investigations were performed. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

2. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Work. The Scope of Work was defined by the request of the client, the time and budgetary constraints imposed by the client, and availability of access to the Site.

3. Because of the limitations stated above, the findings, observations, and conclusions expressed by SECOR in this report are not, and should not be, considered an opinion concerning the compliance of any past or present owner or operator of the Site with any federal, state or local law or regulation.

4. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, and conclusions, which are based solely upon Site conditions in existence at the time of investigation.

5. SECOR reports present professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of federal, state or local governmental agencies. Any use of the report constitutes acceptance of the limits of SECOR's liability. SECOR's liability extends only to its client and not to any other parties who may obtain the report. Issues raised by the report should be reviewed by appropriate legal counsel.

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TABLES

Table 1
QED Pump Construction Information - May 2006
Purity Oil Sales Superfund Site
Malaga, California

	Casing Diameter (in)	Surveyed TOC* Elevation (ft/msl) 6/21/02 and 8/13/02	Total Depth of Well (ft)	Approximate Screen Interval** (ft)	Effective Screen Length** (ft)	Approx. Sample Collection Point (ft)	Sample Collection Point Lowered 36.83 In
MW-2D	6	289.61	163.41	142 - 164	20	155	-
MW-2S	5	288.97	64.85	33 - 64	31	60	-
MW-5D	4	307.76	95.55	85 - 94	9	90	-
MW-6D	6	306.72	176.47	154 - 175	21	165	-
MW-6S	5	304.68	78.33	46 - 78	32	75	-
MW-7I	4	301.17	100.17	90 - 100	10	95	-
MW-7S	4	302.08	79.23	71 - 79	8	75	-
MW-8	5	307.86	79.32	49 - 82	33	79.83	6/22/2005
MW-9	4	290.90	80.98	52 - 82	30	71	-
MW-10	5	290.63	67.19	33 - 65	32	61	-
MW-11	4	290.82	88.21	60 - 88	28	73	-
MW-13	4	289.74	84.60	55 - 84	29	70	-
MW-16	5	302.65	77.83	44 - 76	32	76.83	6/22/2005
MW-19	5	290.47	64.42	33 - 65	32	63.83	6/22/2005
MW-20	4	288.40	78.08	43 - 79	36	68	-
MW-21	4	289.47	82.25	54 - 81	27	70	-
MW-23	4	290.01	112.98	101 - 113	12	105	-
MW-25	5	290.70	67.48	35 - 67	32	65.83	6/29/2005
MW-34D	6	288.61	170.22	151 - 170	19	160	-
MW-34I	6	288.57	121.96	102 - 121	19	110	-
MW-34S	6	288.51	71.69	42 - 71	29	65	-
MW-38	4	289.06	82.37	52 - 82	30	70	-
MW-39	4	291.26	82.45	53 - 82	29	70	-
MW-40	4	288.76	82.41	52 - 82	30	68	-
MW-41	4	290.45	83.25	53 - 82	29	68	-

* TOC = top of casing

** Measurements taken with optical televiewer April 2003. Interval measured to silted fill level.

Table 2
Activities Performed at Each Well
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sampled	Water Level	Comments
EW-1	x	x	Pump is not active
EW-2	x	x	Pump is not active
MW-2S	x	x	TOC nicely contained in concrete well box.
MW-2D	x	x	TOC nicely contained in concrete well box.
MW-3	NS	NR	Well is Dry, TOC is elevated above ground surface (sealed)
MW-4	NS	NR	Abandoned
MW-5S	NS	NR	Well is Dry, TOC is elevated above ground surface (sealed)
MW-5D	x	x	TOC is elevated above ground surface
MW-6S	x	x	TOC is elevated above ground surface
MW-6D	x	x	TOC is elevated above ground surface
MW-7S	x	x	TOC is elevated above ground surface
MW-7I	x	x	TOC is elevated above ground surface
MW-8	x	x	TOC is elevated above ground surface
MW-9	x	x	Lock is difficult to open
MW-10	x	x	Access limited due to Recon trailers
MW-11	x	x	Access limited due to Recon trailers
MW-13	Not accessible/ NS	x	Pick-A-Part cars dripping oil onto ground near well; New 8' steel fence erected around Pick-a-Part - access severely limited.
MW-15	NS	NR	Buried under Bruno's scrap metal
MW-16	x	x	TOC is elevated above ground surface; Poor producer
MW-17	NS	NR	Buried under Bruno's scrap metal
MW-19	x	x	Well monument hit and dented by forklift
MW-20	x	x	Unsecurable - well monument lid bent, needs repair, marked with orange fencing. Overgrown
MW-21	x	x	Well area marked with orange snow fencing, no lock
MW-22P	NS	NR	Pump is broken; Unable to measure DTW
MW-23	x	x	Organic and metallic debris near well monument
MW-25	x	x	Fork lift equipment surrounding well; Access severely limited by dirt road obstructions
MW-26P	NS	x	Private pump is not operating
MW-27P	NS	NR	Well is sealed; No sounding port
MW-28P	x	x	West Coast Waste; Well monument area moderately clean
MW-29P	NS	x	Pump is destroyed/not operating. Sounding port OK
MW-30P	NS	NR	Well is broken; No sounding port
MW-31P	NS	x	Pump is not operating; Side of monument is rusted out
MW-32P	x	No access/NR	Sierra Nevada Trailers
MW-33P	NS	x	No power supply to well
MW-34S	x	x	Scaffolding materials around well
MW-34I	x	x	Scaffolding materials around well
MW-34D	x	x	Scaffolding materials around well
MW-35P	NS	NR	Not observed running during sampling event
MW-36	NS	NR	Unable to locate well
MW-38	x	x	OK
MW-39	x	x	OK
MW-40	x	x	OK
MW-41	x	x	OK; Monument difficult to locate overgrown by weeds

Notes:
DTW = Depth to Water
NS = Not Sampled
NR = Not Recorded
TOC = Top of Casing

Table 3
Summary of Analyses Requested
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample No.	Sample Date	Sample Type	Comments	VOCs (8260B)	Metals (Fe, Mn, As, Se) (6010B)	Nitrate, Sulfate, Chloride (300.0)	Alkalinity (310.1)	Fe2+ (3500-Fe D Modified)	TOC (415.1)	CO2 (8000B)	Methane, Ethane, Ethene (8015B Mod. or RSK-175)
Extraction Wells												
EW-1	EW1-57	5/24/2006	FS	Pump active while sampling Metals filtered with 0.45 filter	X	X	X	X	X	X	X	X
EW-2	EW2-57	5/24/2006	FS	Pump active while sampling Metals filtered with 0.45 filter	X	X	X	X	X	X	X	X
Monitoring Wells												
MW-2S	MW2S-57	5/19/2006	FS		X	X	X	X	X	X	X	X
MW-2D	MW2D-57	5/19/2006	FS		X	X	X	X	X	X	X	X
MW-3	NS		NS	Well is dry (sealed)								
MW-4	NS		NS	Abandoned								
MW-5S	NS		NS	Well is dry (sealed)								
MW-5D	MW5D-57	5/24/2006	FS		X	X	X	X	X	X	X	X
MW-6S	MW6S-57	5/24/2006	FS		X	X	X	X	X	X	X	X
MW-6D	MW6D-57	5/24/2006	FS		X	X	X	X	X	X	X	X
	MWD3-57	5/24/2006	FD	Field duplicate of MW-6D	X	X	X	X	X	X	X	X
MW-7S	MW7S-57	5/25/2006	FS		X	X	X	X	X	X	X	requested after submission[1]
MW-7I	MW7I-57	5/23/2006	FS		X	X	X	X	X	X	X	X
	MWD2-57	5/23/2006	FD	Field duplicate of MW-7I	X	X	X	X	X	X	X	X
MW-8	MW8-57	5/24/2006	FS		X	X	X	X	X	X	X	X
MW-9	MW9-57	5/23/2006	FS		X	X	X	X	X	X	X	X
MW-10	MW10-57	5/23/2006	FS		X	X	X	X	X	X	X	X
MW-11	MW11-57	5/23/2006	FS		X	X	X	X	X	X	X	X
MW-13	NS		NS	Not accessible due to 8' steel fence								
MW-15	NS		NS	Buried under scrap metal								
MW-16	MW16-57	5/23/2006	FS		X	X	X	X	X	X	X	X
MW-17	NS		NS	Buried under scrap metal								
MW-19	MW19-57	5/23/2006	FS		X	X	X	X	X	X	X	X
MW-20	MW20-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-21	MW21-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-22P	NS		NS	Pump not operating								
MW-23	MW23-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-25	MW25-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-26P	NS		NS	Pump not operating								
MW-27P	NS		NS	Well is sealed								
MW-28P	MW28P-57	5/25/2006	FS	Pump active while sampling, metals filtered with 0.45 filter	X	X	X	X	X	X	X	requested after submission[1]
	MW28PMS-57	5/25/2006	MS	Matrix Spike	X	X	X	X	X	X	X	requested after submission[1]
	MW28PMSD-57	5/25/2006	MSD	Matrix Spike Duplicate	X	X	X	X	X	X	X	requested after submission[1]
MW-29P	NS		NS	Pump not operating								
MW-30P	NS		NS	Pump not operating								
MW-31P	NS		NS	Pump not operating								
MW-32P	MW32P-56	5/25/2006	FS	Pump active while sampling, metals filtered with 0.45 filter	X	X	X	X	X	X	X	requested after submission[1]
MW-33P	NS		NS									

Table 3
Summary of Analyses Requested
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample No.	Sample Date	Sample Type	Comments	VOCs (8260B)	Metals (Fe, Mn, As, Se) (6010B)	Nitrate, Sulfate, Chloride (300.0)	Alkalinity (310.1)	Fe2+ (3500-Fe D Modified)	TOC (415.1)	CO2 (8000B)	Methane, Ethane, Ethene (8015B Mod. or RSK-175)
MW-34S	MW34S-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-34I	MW34I-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-34D	MW34D-57	5/22/2006	FS		X	X	X	X	X	X	X	X
MW-35P	NS		NS	No Access; pump not functional								
MW-36	NS		NS	Unable to locate or destroyed								
MW-38	MW38-57	5/19/2006	FS		X	X	X	X	X	X	X	X
	MW38MS-57	5/19/2006	MS	Matrix Spike	X	X	X	X	X	X	X	X
	MW38MSD-57	5/19/2006	MSD	Matrix Spike Duplicate	X	X	X	X	X	X	X	X
MW-39	MW39-57	5/19/2006	FS		X	X	X	X	X	X	X	X
MW-40	MW40-57	5/19/2006	FS		X	X	X	X	X	X	X	X
MW-41	MW41-57	5/19/2006	FS		X	X	X	X	X	X	X	X
	MWD1-57	5/19/2006	FD	Field duplicate of MW-41	X	X	X	X	X	X	X	X
Field QC												
Equipment Blanks	MW39E-57	5/19/2006	EB		X							
	MW25E-57	5/22/2006	EB		X							
	MW7IE-57	5/23/2006	EB		X							
	MW6SE-57	5/24/2006	EB		X							
	MW32PE-57	5/25/2006	EB		X							
Trip Blanks	MWT1-57	5/19/2006	TB		X							
	MWT2-57	5/22/2006	TB		X							
	MWT3-57	5/23/2006	TB		X							
	MWT4-57	5/24/2006	TB		X							
	MWT5-57	5/25/2006	TB		X							

Notes:

FS = primary Field Sample from monitoring well

NS = Not Sampled

FD = Field Duplicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

EB = Equipment Rinsate Blank

TB = Trip Blank

TOC = Top of Casing

[1] = Requested after submission Analysis for these constituents not requested on COC sent with samples. Analysis requested after receipt of samples by lab.

Table 4
Field QC Samples
Purity Oil Sales Superfund Site, Malaga, California
May 2006

QC Sample ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron	Manganese	Arsenic	Selenium
		ROD/MCL/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
Field Duplicates														
MWD1-57	5/19/2006	FD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**166 J**	**684**	<9.3	<9.4
MWD2-57	5/23/2006	FD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	**10.4 J**	<9.4
MWD3-57	5/24/2006	FD	<0.1	**2.9**	**0.3 J**	<0.1	**4.1**	<0.1	**3.6**	<0.1	**76.2 J**	**54.3**	<9.3	<9.4
Field QC														
MW39E-57	5/19/2006	EB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MW25E-57	5/22/2006	EB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MW7IE-57	5/23/2006	EB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MW6SE-57	5/24/2006	EB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MW32PE-57	5/25/2006	EB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MWT1-57	5/19/2006	TB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MWT2-57	5/22/2006	TB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MWT3-57	5/23/2006	TB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MWT4-57	5/24/2006	TB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
MWT5-57	5/25/2006	TB	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				

Notes:

All results are reported in micrograms/liter (µg/L)

ROD/MCL/RG = Record of Decision/Maximum Contaminant Level/Remedial Goal

ND = The sample did not have a detection above the method detection limit for the given constituent.

FD = Field Duplicate

EB = Equipment Blank

EB / DI = Equipment Blank from DI water only, a QC on lab-supplied DI water

TB = Trip Blank

J = Organic constituent qualifier used by Lancaster Laboratories indicating an estimated value of a detection that is between the maximum detection limit and the reporting limit for the specific compound.

B = Inorganic constituent qualifier used by Lancaster Laboratories indicating an estimated value of a detection that is between the maximum detection limit and the reporting limit for the specific analyte.

E = Organic constituent value reported exceeds the linear calibration range for that compound.

Bold Results = Detected values reported below the constituents' MCL/ROD/RG.

Bold Outlined Results = Values reported above the constituents' ROD/MCL/RG.

Bold Type With Qualifier = Reported concentration is between maximum detection limit and reporting limit for constituent.

Bold Type Without Qualifier = Reported value is above the reporting limit but below the ROD/MCL/RG.

Table 5
Field Duplicate Summary
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample Date	Compound	Method Detection Limit	Result	Duplicate Result	Units	RPD
Metals							
MW-41 (MWD1-57)	5/19/2006	Iron	66.7	204	166 J	µg/L	20.5
		Manganese	0.96	680	684	µg/L	0.6
		Arsenic	9.3	ND	ND	µg/L	NA
		Selenium	9.4	ND	ND	µg/L	NA
MW-7I (MWD2-57)	5/23/2006	Iron	66.7	ND	ND	µg/L	NA
		Manganese	0.96	ND	ND	µg/L	NA
		Arsenic	9.3	ND	10.4 J	µg/L	Dispute
		Selenium	9.4	ND	ND	µg/L	NA
MW-6D (MWD3-57)	5/24/2006	Iron	66.7	ND	76.2 J	µg/L	Dispute
		Manganese	0.96	53.5	54.3	µg/L	1.5
		Arsenic	9.3	ND	ND	µg/L	NA
		Selenium	9.4	ND	ND	µg/L	NA
VOCs							
MW-41 (MWD1-57)	5/19/2006	Dichlorodifluoromethane	0.1	ND	ND	µg/L	NA
		Chloromethane	0.1	ND	ND	µg/L	NA
		Vinyl Chloride	0.1	ND	ND	µg/L	NA
		Bromomethane	0.1	ND	ND	µg/L	NA
		Chloroethane	0.1	ND	ND	µg/L	NA
		Trichlorofluoromethane	0.1	ND	ND	µg/L	NA
		1,1-Dichloroethene	0.1	ND	ND	µg/L	NA
		Acetone	3.0	ND	ND	µg/L	NA
		Carbon Disulfide	0.1	ND	ND	µg/L	NA
		Methylene Chloride	*0.2*	*ND*	*ND*	*µg/L*	*NA*
		t-Butyl Alcohol	4.0	ND	ND	µg/L	NA
		trans-1,2-Dichloroethene	0.1	ND	ND	µg/L	NA
		Methyl Tertiary Butyl Ether	0.1	ND	ND	µg/L	NA
		1,1-Dichloroethane	0.1	ND	ND	µg/L	NA
		2,2-Dichloropropane	0.1	ND	ND	µg/L	NA
		cis-1,2-Dichloroethene	0.1	ND	ND	µg/L	NA
		2-Butanone	1.0	ND	ND	µg/L	NA
		Bromochloromethane	0.1	ND	ND	µg/L	NA
		Chloroform	0.1	ND	ND	µg/L	NA
		1,1,1-Trichloroethane	0.1	ND	ND	µg/L	NA
		Carbon Tetrachloride	0.1	ND	ND	µg/L	NA
		1,1-Dichloropropene	0.1	ND	ND	µg/L	NA
		Benzene	0.1	ND	ND	µg/L	NA
		1,2-Dichloroethane	0.1	ND	ND	µg/L	NA
		Trichloroethene	0.1	ND	ND	µg/L	NA
		1,2-Dichloropropane	0.1	ND	ND	µg/L	NA
		Dibromomethane	0.1	ND	ND	µg/L	NA
		Bromodichloromethane	0.1	ND	ND	µg/L	NA
		cis-1,3-Dichloropropene	0.1	ND	ND	µg/L	NA
		4-Methyl-2-Pentanone	1.0	ND	ND	µg/L	NA
		Toluene	0.1	ND	ND	µg/L	NA
		1,1,2-Trichloroethane	0.1	ND	ND	µg/L	NA
		trans-1,3-Dichloropropene	0.1	ND	ND	µg/L	NA
		Tetrachloroethene	0.1	ND	ND	µg/L	NA
		1,3-Dichloropropane	0.1	ND	ND	µg/L	NA
		Dibromochloromethane	0.1	ND	ND	µg/L	NA

Table 5
Field Duplicate Summary
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample Date	Compound	Method Detection Limit	Result	Duplicate Result	Units	RPD
MW-41 (MWD1-57)	5/19/2006	1,2-Dibromoethane	0.1	ND	ND	µg/L	NA
		Chlorobenzene	0.1	ND	ND	µg/L	NA
		1,1,1,2-Tetrachloroethane	0.1	ND	ND	µg/L	NA
		Ethylbenzene	0.1	ND	ND	µg/L	NA
		Styrene	0.1	ND	ND	µg/L	NA
		Bromoform	0.1	ND	ND	µg/L	NA
		Isopropylbenzene	0.1	ND	ND	µg/L	NA
		1,1,2,2-Tetrachloroethane	0.1	ND	ND	µg/L	NA
		Bromobenzene	0.1	ND	ND	µg/L	NA
		1,2,3-Trichloropropane	0.3	ND	ND	µg/L	NA
		n-Propylbenzene	0.1	ND	ND	µg/L	NA
		2-Chlorotoluene	0.1	ND	ND	µg/L	NA
		1,3,5-Trimethylbenzene	0.1	ND	ND	µg/L	NA
		4-Chlorotoluene	0.1	ND	ND	µg/L	NA
		tert-Butylbenzene	0.1	ND	ND	µg/L	NA
		1,2,4-Trimethylbenzene	0.1	ND	ND	µg/L	NA
		sec-Butylbenzene	0.1	ND	ND	µg/L	NA
		p-Isopropyltoluene	0.1	ND	ND	µg/L	NA
		1,3-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		1,4-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		n-Butylbenzene	0.1	ND	ND	µg/L	NA
		1,2-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		1,2-Dibromo-3-chloropropane	0.5	ND	ND	µg/L	NA
		1,2,4-Trichlorobenzene	0.1	ND	ND	µg/L	NA
		Hexachlorobutadiene	0.1	ND	ND	µg/L	NA
		Naphthalene	0.1	ND	ND	µg/L	NA
		1,2,3-Trichlorobenzene	0.1	ND	ND	µg/L	NA
		Xylene (Total)	0.1	ND	ND	µg/L	NA
MW-7I (MWD2-57)	5/23/2006	Dichlorodifluoromethane	0.1	ND	ND	µg/L	NA
		Chloromethane	0.1	0.1 J	ND	µg/L	Dispute
		Vinyl Chloride	0.1	ND	ND	µg/L	NA
		Bromomethane	0.1	ND	ND	µg/L	NA
		Chloroethane	0.1	ND	ND	µg/L	NA
		Trichlorofluoromethane	0.1	ND	ND	µg/L	NA
		1,1-Dichloroethene	0.1	ND	ND	µg/L	NA
		Acetone	3.0	ND	ND	µg/L	NA
		Carbon Disulfide	0.1	ND	ND	µg/L	NA
		Methylene Chloride	0.2	ND	ND	µg/L	NA
		t-Butyl Alcohol	4.0	ND	ND	µg/L	NA
		trans-1,2-Dichloroethene	0.1	ND	ND	µg/L	NA
		Methyl Tertiary Butyl Ether	0.1	ND	ND	µg/L	NA
		1,1-Dichloroethane	0.1	ND	ND	µg/L	NA
		2,2-Dichloropropane	0.1	ND	ND	µg/L	NA
		cis-1,2-Dichloroethene	0.1	ND	ND	µg/L	NA
		2-Butanone	1.0	ND	ND	µg/L	NA
		Bromochloromethane	0.1	ND	ND	µg/L	NA
		Chloroform	0.1	ND	ND	µg/L	NA
		1,1,1-Trichloroethane	0.1	ND	ND	µg/L	NA
		Carbon Tetrachloride	0.1	ND	ND	µg/L	NA
		1,1-Dichloropropene	0.1	ND	ND	µg/L	NA

Table 5
Field Duplicate Summary
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample Date	Compound	Method Detection Limit	Result	Duplicate Result	Units	RPD
MW-7I (MWD2-57)	5/23/2006	Benzene	0.1	ND	ND	µg/L	NA
		1,2-Dichloroethane	0.1	ND	ND	µg/L	NA
		Trichloroethene	0.1	ND	ND	µg/L	NA
		1,2-Dichloropropane	0.1	ND	ND	µg/L	NA
		Dibromomethane	0.1	ND	ND	µg/L	NA
		Bromodichloromethane	0.1	ND	ND	µg/L	NA
		cis-1,3-Dichloropropene	0.1	ND	ND	µg/L	NA
		4-Methyl-2-Pentanone	1.0	ND	ND	µg/L	NA
		Toluene	0.1	ND	ND	µg/L	NA
		1,1,2-Trichloroethane	0.1	ND	ND	µg/L	NA
		trans-1,3-Dichloropropene	0.1	ND	ND	µg/L	NA
		Tetrachloroethene	0.1	0.1 J	0.1 J	µg/L	0.0
		1,3-Dichloropropane	0.1	ND	ND	µg/L	NA
		Dibromochloromethane	0.1	ND	ND	µg/L	NA
		1,2-Dibromoethane	0.1	ND	ND	µg/L	NA
		Chlorobenzene	0.1	ND	ND	µg/L	NA
		1,1,1,2-Tetrachloroethane	0.1	ND	ND	µg/L	NA
		Ethylbenzene	0.1	ND	ND	µg/L	NA
		Styrene	0.1	ND	ND	µg/L	NA
		Bromoform	0.1	ND	ND	µg/L	NA
		Isopropylbenzene	0.1	ND	ND	µg/L	NA
		1,1,2,2-Tetrachloroethane	0.1	ND	ND	µg/L	NA
		Bromobenzene	0.1	ND	ND	µg/L	NA
		1,2,3-Trichloropropane	0.3	ND	ND	µg/L	NA
		n-Propylbenzene	0.1	ND	ND	µg/L	NA
		2-Chlorotoluene	0.1	ND	ND	µg/L	NA
		1,3,5-Trimethylbenzene	0.1	ND	ND	µg/L	NA
		4-Chlorotoluene	0.1	ND	ND	µg/L	NA
		tert-Butylbenzene	0.1	ND	ND	µg/L	NA
		1,2,4-Trimethylbenzene	0.1	ND	ND	µg/L	NA
		sec-Butylbenzene	0.1	ND	ND	µg/L	NA
		p-Isopropyltoluene	0.1	ND	ND	µg/L	NA
		1,3-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		1,4-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		n-Butylbenzene	0.1	ND	ND	µg/L	NA
		1,2-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		1,2-Dibromo-3-chloropropane	0.5	ND	ND	µg/L	NA
		1,2,4-Trichlorobenzene	0.1	ND	ND	µg/L	NA
		Hexachlorobutadiene	0.1	ND	ND	µg/L	NA
		Naphthalene	0.1	ND	ND	µg/L	NA
		1,2,3-Trichlorobenzene	0.1	ND	ND	µg/L	NA
		Xylene (Total)	0.1	ND	ND	µg/L	NA
MW-6D (MWD3-57)	5/24/2006	Dichlorodifluoromethane	0.2/0.1	ND	ND	µg/L	NA
		Chloromethane	0.1	ND	ND	µg/L	NA
		Vinyl Chloride	0.1	ND	ND	µg/L	NA
		Bromomethane	0.1	ND	ND	µg/L	NA
		Chloroethane	0.1	ND	ND	µg/L	NA
		Trichlorofluoromethane	0.1	ND	ND	µg/L	NA
		1,1-Dichloroethene	0.1	ND	ND	µg/L	NA
		Acetone	3.0	ND	ND	µg/L	NA

Table 5
Field Duplicate Summary
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample Date	Compound	Method Detection Limit	Result	Duplicate Result	Units	RPD
MW-6D (MWD3-57)	5/24/2006	Carbon Disulfide	0.1	ND	ND	µg/L	NA
		Methylene Chloride	0.2	ND	ND	µg/L	NA
		t-Butyl Alcohol	4.0	ND	ND	µg/L	NA
		trans-1,2-Dichloroethene	0.1	ND	ND	µg/L	NA
		Methyl Tertiary Butyl Ether	0.1	ND	ND	µg/L	NA
		1,1-Dichloroethane	0.1	2.9	2.9	µg/L	0.0
		2,2-Dichloropropane	0.1	ND	ND	µg/L	NA
		cis-1,2-Dichloroethene	0.1	4.2	4.1	µg/L	2.4
		2-Butanone	1.0	ND	ND	µg/L	NA
		Bromochloromethane	0.1	ND	ND	µg/L	NA
		Chloroform	0.1	ND	ND	µg/L	NA
		1,1,1-Trichloroethane	0.1	ND	ND	µg/L	NA
		Carbon Tetrachloride	0.1	ND	ND	µg/L	NA
		1,1-Dichloropropene	0.1	ND	ND	µg/L	NA
		Benzene	0.1	ND	ND	µg/L	NA
		1,2-Dichloroethane	0.1	0.3 J	0.3 J	µg/L	0.0
		Trichloroethene	0.1	3.7	3.6	µg/L	2.7
		1,2-Dichloropropane	0.1	0.2 J	0.2 J	µg/L	0.0
		Dibromomethane	0.1	ND	ND	µg/L	NA
		Bromodichloromethane	0.1	ND	ND	µg/L	NA
		cis-1,3-Dichloropropene	0.1	ND	ND	µg/L	NA
		4-Methyl-2-Pentanone	1.0	ND	ND	µg/L	NA
		Toluene	0.1	ND	ND	µg/L	NA
		1,1,2-Trichloroethane	0.1	ND	ND	µg/L	NA
		trans-1,3-Dichloropropene	0.1	ND	ND	µg/L	NA
		Tetrachloroethene	0.1	0.6	0.6	µg/L	0.0
		1,3-Dichloropropane	0.1	ND	ND	µg/L	NA
		Dibromochloromethane	0.1	ND	ND	µg/L	NA
		1,2-Dibromoethane	0.1	ND	ND	µg/L	NA
		Chlorobenzene	0.1	ND	ND	µg/L	NA
		1,1,1,2-Tetrachloroethane	0.1	ND	ND	µg/L	NA
		Ethylbenzene	0.1	ND	ND	µg/L	NA
		Styrene	0.1	ND	ND	µg/L	NA
		Bromoform	0.1	ND	ND	µg/L	NA
		Isopropylbenzene	0.1	ND	ND	µg/L	NA
		1,1,2,2-Tetrachloroethane	0.1	ND	ND	µg/L	NA
		Bromobenzene	0.1	ND	ND	µg/L	NA
		1,2,3-Trichloropropane	0.3	ND	ND	µg/L	NA
		n-Propylbenzene	0.1	ND	ND	µg/L	NA
		2-Chlorotoluene	0.1	ND	ND	µg/L	NA
		1,3,5-Trimethylbenzene	0.1	ND	ND	µg/L	NA
		4-Chlorotoluene	0.1	ND	ND	µg/L	NA
		tert-Butylbenzene	0.1	ND	ND	µg/L	NA
		1,2,4-Trimethylbenzene	0.1	ND	ND	µg/L	NA
		sec-Butylbenzene	0.1	ND	ND	µg/L	NA
		p-Isopropyltoluene	0.1	ND	ND	µg/L	NA
		1,3-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		1,4-Dichlorobenzene	0.1	ND	ND	µg/L	NA
		n-Butylbenzene	0.1	ND	ND	µg/L	NA
		1,2-Dichlorobenzene	0.1	0.3 J	0.3 J	µg/L	0.0

Table 5
Field Duplicate Summary
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Sample Date	Compound	Method Detection Limit	Result	Duplicate Result	Units	RPD
MW-6D (MWD3-57)	5/24/2006	1,2-Dibromo-3-chloropropane	0.5	ND	ND	µg/L	NA
		1,2,4-Trichlorobenzene	0.1	ND	ND	µg/L	NA
		Hexachlorobutadiene	0.1	ND	ND	µg/L	NA
		Naphthalene	0.1	ND	ND	µg/L	NA
		1,2,3-Trichlorobenzene	0.1	ND	ND	µg/L	NA
		Xylene (Total)	0.1	ND	ND	µg/L	NA
OTHER CONSTITUENTS							
MW-41 (MWD1-57)	5/19/2006	Alkalinity as CaCO3 to pH 8.3	460	ND	ND	µg/L	NA
		Alkalinity as CaCO3 to pH 4.5	460	214,000	214,000	µg/L	0.0
		Iron, Ferrous	8.0	61 J	70 J	µg/L	13.7
		Chloride	4,000	41,300	41,100	µg/L	0.5
		Sulfate	6,000	240,000	238,000	µg/L	0.8
		Nitrate as N	250	1,400	1,400	µg/L	0.0
		Total Organic Carbon	1,000	ND	1000 J	µg/L	Dispute
		Methane	2.0	ND	ND	µg/L	NA
		CO_2	2,500	110,000	110,000	µg/L	0.0
MW-7I (MWD2-57)	5/23/2006	Alkalinity as CaCO3 to pH 8.3	460	ND	ND	µg/L	NA
		Alkalinity as CaCO3 to pH 4.5	460	209,000	206,000	µg/L	1.4
		Iron, Ferrous	8.0	ND	ND	µg/L	NA
		Chloride	4,000	39,800	39,200	µg/L	1.5
		Sulfate	1,500	25,100	24,600	µg/L	2.0
		Nitrate as N	250	7,400	7,300	µg/L	1.4
		Total Organic Carbon	1,000	ND	ND	µg/L	NA
		Methane	2.0	ND	ND	µg/L	NA
		CO_2	2,500	12,000	13,000	µg/L	8.0
MW-6D (MWD3-57)	5/24/2006	Alkalinity as CaCO3 to pH 8.3	460	ND	ND	µg/L	NA
		Alkalinity as CaCO3 to pH 4.5	460	254,000	250,000	µg/L	1.6
		Iron, Ferrous	8.0	ND	9.8 J	µg/L	Dispute
		Chloride	2,000	35,200	35,800	µg/L	1.7
		Sulfate	1,500	41,800	43,300	µg/L	3.5
		Nitrate as N	250	ND	ND	µg/L	NA
		Total Organic Carbon	1,000	ND	ND	µg/L	NA
		Methane	2.0	2.4 J	2.6 J	µg/L	8.0
		CO_2	2,500	8,600	8,800	µg/L	2.3

Notes:

RPD = Relative Percent Difference = [S-D/([S+D]/2)]×100

Where : S = First sample value (original value)

D = Second sample value (duplicate value)

NA = Neither the primary or duplicate sample contained reportable levels of the associated analyte; agreement is considered to be acceptable.

ND = The sample did not have a detection above the method detection limit for the given constituent.

Dispute = Disagreement where detections occurred in the duplicate sample but not in the primary sample. Disagreement where detections occurred in the primary sample but not in the duplicate sample.

J = Organic constituent qualifier used by Lancaster Laboratories indicating an estimated value of a detection that is between the maximum detection limit and the reporting limit for the specific compound.

Table 6
Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Company	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
Extraction Wells (shallow)						
EW-1	5/18/2006	SECOR	299.77	66.44	233.33	Extraction pump not operating
EW-2	5/18/2006	SECOR	301.75	69.05	232.70	Extraction pump not operating
Shallow						
MW-2S	5/18/2006	SECOR	288.97	54.05	234.92	OK
MW-3	5/18/2006	SECOR	303.26	NA	NA	Dry, well casing above grade, sealed
MW-4	5/18/2006	SECOR	290.78	NA	NA	Abandoned
MW-5S	5/18/2006	SECOR	308.59	NA	NA	Dry, well casing above grade, sealed
MW-6S	5/18/2006	SECOR	304.68	71.27	233.41	Well casing above grade
MW-7S	5/18/2006	SECOR	302.08	68.79	233.29	Well casing above grade
MW-8	5/18/2006	SECOR	307.86	73.99	233.87	Well casing above grade
MW-10	5/18/2006	SECOR	290.63	57.84	232.79	OK
MW-16	5/18/2006	SECOR	302.65	71.27	231.38	OK
MW-19	5/18/2006	SECOR	290.47	58.66	231.81	Monument severely dented
MW-25	5/18/2006	SECOR	290.70	59.43	231.27	Forklift and hydraulics nearby
MW-34S	5/18/2006	SECOR	288.51	61.06	227.45	OK
Shallow to Intermediate						
MW-7I	5/18/2006	SECOR	301.17	67.83	233.34	Well casing above grade
MW-9	5/18/2006	SECOR	290.90	58.24	232.66	OK
MW-11	5/18/2006	SECOR	290.82	57.70	233.12	OK
MW-13	5/18/2006	SECOR	289.74	57.67	232.07	Used cars dripping oil nearby
MW-20	5/18/2006	SECOR	288.40	58.30	230.10	Lid is broken, no lock
MW-21	5/18/2006	SECOR	289.47	58.63	230.84	No lock, marked with orange fence
MW-26P	5/18/2006	SECOR	290.79	59.52	231.27	Pump is not functional
MW-27P	5/18/2006	SECOR	288.19	NA	NA	Well is sealed
MW-30P	5/18/2006	SECOR	NA	NA	NA	Well is broken; No sounding port
MW-33P	5/18/2006	SECOR	287.86	60.02	227.84	*Sounding port ok, side of monument rusted out*
MW-36	5/18/2006	SECOR	NA	NA	NA	Unable to locate well
MW-38	5/18/2006	SECOR	289.06	61.43	227.63	Sulfur pile nearby
MW-39	5/18/2006	SECOR	291.26	60.91	230.35	OK
MW-40	5/18/2006	SECOR	288.76	57.01	231.75	OK
MW-41	5/18/2006	SECOR	290.45	58.07	232.38	OK
Intermediate						
MW-23	5/18/2006	SECOR	290.01	60.02	229.99	OK
MW-34I	5/18/2006	SECOR	288.57	61.34	227.23	OK
Deep						
MW-2D	5/18/2006	SECOR	289.61	54.75	234.86	OK
MW-5D	5/18/2006	SECOR	307.76	75.02	232.74	Well casing above grade
MW-6D	5/18/2006	SECOR	306.72	73.41	233.31	Well casing above grade
MW-28P	5/18/2006	SECOR	290.76	61.10	229.66	West Coast Waste; well area clean
MW-29P	5/18/2006	SECOR	288.88	60.81	228.07	Pump is not functional
MW-34D	5/18/2006	SECOR	288.61	61.31	227.30	OK
Unknown Depth						
MW-15	5/18/2006	SECOR	NA	NA	NA	Buried by scrap metal
MW-17	5/18/2006	SECOR	NA	NA	NA	Buried by scrap metal
MW-22P	5/18/2006	SECOR	289.71	NA	NA	Obstructed
MW-31P	5/18/2006	SECOR	290.44	61.06	229.38	Concrete cracked, casing rotting
MW-32P	5/25/2006	SECOR	287.85	60.57	227.28	Sierra Nevada Trailers; OK
MW-35P	5/18/2006	SECOR	289.64	NA	NA	Pump is not functional

Notes:

ft msl = feet above mean sea level

TOC = top of casing

NA = Not Available

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
Extraction Wells (shallow)						
EW-1	5/7/2001	IT	299.82	62.87	236.95	
	10/15/2002	IT		63.58	236.24	
	6/3/2002	SECOR	299.77	NA	NA	
	9/17/2002	SECOR		78.36	221.41	Pump running during measurement
	11/18/2002	SECOR		63.99	235.78	
	1/27/2003	SECOR		78.98	220.79	
	6/16/2003	SECOR		77.90	221.87	
	9/8/2003	SECOR		67.56	232.21	
	12/8/2003	SECOR		78.60	221.17	
	3/8/2004	SECOR		76.35	223.42	
	6/7/2004	SECOR		77.35	222.42	
	8/6/2004	SECOR		75.85	223.92	
	11/12/2004	SECOR		78.92	220.85	
	3/11/2005	SECOR		70.94	228.83	
	5/20/2005	SECOR		76.11	223.66	
	8/5/2005	SECOR		67.97	231.80	Pump off during measurement
	11/11/2005	SECOR		66.08	233.69	Pump off during measurement
	2/9/2006	SECOR		66.43	233.34	Pump off during measurement
	5/18/2006	SECOR		66.44	233.33	Pump off during measurement
EW-2	5/7/2001	IT	301.81	65.56	236.25	
	10/15/2001	IT		66.53	235.28	
	6/3/2002	SECOR	301.75	63.27	238.48	
	9/17/2002	SECOR		78.45	223.30	Pump running during measurement
	11/18/2002	SECOR		78.90	222.85	
	1/27/2003	SECOR		77.78	223.97	
	6/16/2003	SECOR		78.74	223.01	
	9/8/2003	SECOR		67.92	233.83	
	12/8/2003	SECOR		78.79	222.96	
	3/8/2004	SECOR		78.75	223.00	
	6/7/2004	SECOR		78.83	222.92	
	8/6/2004	SECOR		75.72	226.03	
	11/12/2004	SECOR		78.76	222.99	
	3/11/2005	SECOR		78.71	223.04	
	5/20/2005	SECOR		78.61	223.14	
	8/5/2005	SECOR		70.74	231.01	Pump off during measurement
	11/11/2005	SECOR		68.76	232.99	Pump off during measurement
	2/9/2006	SECOR		68.99	232.76	Pump off during measurement
	5/18/2006	SECOR		69.05	232.70	Pump off during measurement
Shallow						
MW-2S	12/28/1987	CH2M Hill 1988	289.27	39.24	250.03	
	1/14/1988	CH2M Hill 1988		39.30	249.97	
	2/18/1988	CH2M Hill 1988		39.34	249.93	
	3/3/1988	CH2M Hill 1988		39.46	249.81	
	4/2/1988	CH2M Hill 1988		39.10	250.17	
	4/17/1995	Envirosolve	289.21	56.35	232.86	
	7/7/1995	Envirosolve		56.03	233.18	
	10/23/1995	Envirosolve		54.71	234.50	
	4/15/1996	Envirosolve		54.75	234.46	
	3/16/1998	Envirosolve		52.68	236.53	
	6/22/1998	Envirosolve		51.10	238.11	
	9/14/1998	Envirosolve		50.64	238.57	
	12/14/1998	Envirosolve		50.53	238.68	
	3/15/1999	IT		50.85	238.36	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		50.92	238.29	
	9/13/1999	IT		51.06	238.15	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		50.24	238.97	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		49.92	239.29	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		49.14	240.07	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-2S	9/11/2000	IT		48.64	240.57	
	12/18/2000	IT		48.38	240.83	
	5/7/2001	IT		50.74	238.47	
	10/15/2001	IT		51.64	237.57	
	6/3/2002	SECOR	288.97	52.46	237.15	
	9/16/2002	SECOR		51.47	237.50	Micro Purge pump installed
	11/18/2002	SECOR		52.26	236.71	
	1/27/2003	SECOR		52.49	236.48	
	6/16/2003	SECOR		53.06	235.91	
	9/8/2003	SECOR		53.30	235.67	
	12/8/2003	SECOR		53.06	235.91	
	3/8/2004	SECOR		53.17	235.80	
	6/7/2004	SECOR		54.45	234.52	
	8/6/2004	SECOR		54.95	234.02	
	11/12/2004	SECOR		55.28	233.69	
	3/11/2005	SECOR		55.46	233.51	
	5/20/2005	SECOR		55.12	233.85	
	8/5/2005	SECOR		55.78	233.19	
	11/11/2005	SECOR		53.43	235.54	
	2/9/2006	SECOR		53.98	234.99	
	5/18/2006	SECOR		54.05	234.92	
MW-3	2/28/1982	USEPA-ERT 1982	301.52	47.34	254.18	
	8/7/1984	Harding Lawson Associates 1986	291.36	42.13	249.23	
	9/11/1984	Harding Lawson Associates 1986		41.90	249.46	
	9/14/1984	Harding Lawson Associates 1986		41.88	249.48	
	5/27/1986	CH2M Hill 1988	291.52	40.37	251.15	
	7/9/1986	CH2M Hill 1988		40.56	250.96	
	8/11/1986	CH2M Hill 1988	291.52	40.51	251.01	
	8/22/1986	CH2M Hill 1988		40.45	251.07	
	9/23/1986	CH2M Hill 1988		40.52	251.00	
	10/21/1986	CH2M Hill 1988		40.31	251.07	
	11/14/1986	CH2M Hill 1988		40.22	251.30	
	12/22/1986	CH2M Hill 1988		40.35	251.17	
	1/19/1987	CH2M Hill 1988		40.27	251.25	
	2/17/1987	CH2M Hill 1988		40.29	251.23	
	4/10/1987	CH2M Hill 1988		40.00	251.52	
	4/28/1987	CH2M Hill 1988		40.20	251.32	
	5/21/1987	CH2M Hill 1988		40.29	251.23	
	6/30/1987	CH2M Hill 1988		40.52	251.00	
	8/17/1987	CH2M Hill 1988		40.62	250.90	
	9/15/1987	CH2M Hill 1988		41.43	250.09	
	10/26/1987	CH2M Hill 1988		41.99	249.53	
	12/28/1987	CH2M Hill 1988		42.12	249.40	
	1/14/1988	CH2M Hill 1988		42.17	249.35	
	2/18/1988	CH2M Hill 1988		42.23	249.29	
	3/3/1988	CH2M Hill 1988		42.30	249.22	
	4/2/1988	CH2M Hill 1988		42.01	249.51	
	3/16/1998	Envirosolve	291.50	55.57	235.93	
	6/22/1998	Envirosolve		54.03	237.47	
	9/14/1998	Envirosolve		53.52	237.98	
	12/14/1998	Envirosolve		53.44	238.06	
	3/15/1999	IT		53.76	237.74	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		54.10	237.40	
	9/13/1999	IT		54.14	237.36	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		53.18	238.32	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		52.63	238.87	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		52.11	239.39	
	9/11/2000	IT		51.42	240.08	
	12/18/2000	IT		50.89	240.61	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-3	5/7/2001	IT	294.46	56.61	237.85	
	10/15/2001	IT		57.36	237.10	
	6/3/2002	SECOR	294.26	58.05	236.51	
	9/16/2002	SECOR	303.26	65.92	237.34	Top of casing has been elevated
	11/18/2002	SECOR		66.72	236.54	
	1/27/2003	SECOR		67.16	236.10	
	6/16/2003	SECOR		67.75	235.51	
	9/8/2003	SECOR		67.99	235.27	
	12/8/2003	SECOR		67.89	235.37	
	3/8/2004	SECOR		NA	NA	Well is dry
	6/7/2004	SECOR		NA	NA	Well is dry
	8/6/2004	SECOR		NA	NA	Well is dry
	11/12/2004	SECOR		NA	NA	Well is dry
	3/11/2005	SECOR		NA	NA	Well is dry
	5/20/2005	SECOR		NA	NA	Well is dry
	8/5/2005	SECOR		NA	NA	Well is dry
	11/11/2005	SECOR		NA	NA	Well is dry
	2/9/2006	SECOR		NA	NA	Well is dry
	5/18/2006	SECOR		NA	NA	Well is dry
MW-4	2/28/1982	USEPA-ERT 1982	300.81	47.68	253.13	
	8/7/1984	Harding Lawson Associates 1986	290.63	42.07	248.56	
	9/11/1984	Harding Lawson Associates 1986		41.76	248.87	
	5/26/1986	CH2M Hill 1988	290.78	40.23	250.55	
	7/9/1986	CH2M Hill 1988		40.61	250.17	
	9/23/1986	CH2M Hill 1988		40.36	250.42	
	10/21/1986	CH2M Hill 1988		40.25	250.53	
	11/14/1986	CH2M Hill 1988		40.44	250.34	
	12/22/1986	CH2M Hill 1988		40.68	250.10	
	1/19/1987	CH2M Hill 1988		40.56	250.22	
	2/17/1987	CH2M Hill 1988		40.56	250.22	
	4/10/1987	CH2M Hill 1988		40.29	250.49	
	4/28/1987	CH2M Hill 1988		40.51	250.27	
	5/21/1987	CH2M Hill 1988		40.40	250.38	
	6/30/1987	CH2M Hill 1988		40.39	250.39	
	8/17/1987	CH2M Hill 1988	290.78	40.83	249.95	
	9/15/1987	CH2M Hill 1988		41.86	248.92	
	10/26/1987	CH2M Hill 1988		42.40	248.38	
	12/28/1987	CH2M Hill 1988	290.78	42.44	248.34	
	1/14/1988	CH2M Hill 1988		42.47	248.31	
	2/18/1988	CH2M Hill 1988		42.50	248.28	
	3/3/1988	CH2M Hill 1988		42.15	248.63	
	4/2/1988	CH2M Hill 1988		41.88	248.90	
	11/11/2005	SECOR		NA	NA	Abandoned
	2/9/2006	SECOR		NA	NA	Abandoned
	5/18/2006	SECOR		NA	NA	Abandoned
MW-5S	8/7/1984	Harding Lawson Associates 1986	296.75	48.94	247.81	
	9/11/1984	Harding Lawson Associates 1986		48.65	248.10	
	9/14/1984	Harding Lawson Associates 1986		48.61	248.14	
	5/27/1986	CH2M Hill 1988		46.92	249.83	
	7/9/1986	CH2M Hill 1988		47.33	249.42	
	8/11/1986	CH2M Hill 1988		47.15	249.60	
	8/22/1986	CH2M Hill 1988		47.17	249.58	
	9/23/1986	CH2M Hill 1988		47.11	249.64	
	10/21/1986	CH2M Hill 1988		47.01	249.74	
	11/14/1986	CH2M Hill 1988		47.09	249.66	
	12/22/1986	CH2M Hill 1988		47.30	249.45	
	1/19/1987	CH2M Hill 1988		47.15	249.60	
	2/17/1987	CH2M Hill 1988		47.12	249.63	
	4/10/1987	CH2M Hill 1988		46.82	249.93	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-5S	4/28/1987	CH2M Hill 1988		46.99	249.76	
	5/21/1987	CH2M Hill 1988		47.02	249.73	
	6/30/1987	CH2M Hill 1988		47.21	249.54	
	8/17/1987	CH2M Hill 1988		47.51	249.24	
	9/15/1987	CH2M Hill 1988		48.48	248.27	
	10/26/1987	CH2M Hill 1988		48.96	247.79	
	12/28/1987	CH2M Hill 1988		48.98	247.77	
	1/14/1988	CH2M Hill 1988		48.94	247.81	
	2/18/1988	CH2M Hill 1988		49.02	247.73	
	3/3/1988	CH2M Hill 1988		48.73	248.02	
	4/2/1988	CH2M Hill 1988		48.65	248.10	
	9/13/1999	IT	296.77	59.55	237.22	May be residual water trapped in well
	12/13/1999	IT		59.60	237.17	May be hitting top of pump
	3/13/2000	IT		59.52	237.25	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		59.00	237.77	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		58.36	238.41	
	12/18/2000	IT		57.60	239.17	
	5/7/2001	IT	301.92	65.76	236.16	
	10/15/2001	IT		66.54	235.38	
	6/3/2002	SECOR	301.81	67.29	234.52	
	9/16/2002	SECOR	308.59	71.88	236.71	Top of casing has been elevated
	11/18/2002	SECOR		72.74	235.85	
	1/27/2003	SECOR		73.16	235.43	
	6/16/2003	SECOR		73.78	234.81	Not purged
	9/8/2003	SECOR		73.81	234.78	
	12/8/2003	SECOR		73.85	234.74	
	3/8/2004	SECOR		74.17	234.42	
	6/7/2004	SECOR		NA	NA	Well is dry
	8/6/2004	SECOR		NA	NA	Well is dry
	11/12/2004	SECOR		NA	NA	Well is dry
	3/11/2005	SECOR		NA	NA	Well is dry
	8/5/2005	SECOR		NA	NA	Well is dry
	11/11/2005	SECOR		NA	NA	Well is dry
	2/9/2006	SECOR		NA	NA	Well is dry
	5/18/2006	SECOR		NA	NA	Well is dry
MW-6S	12/28/1987	CH2M Hill 1988	295.64	47.17	248.47	
	1/14/1988	CH2M Hill 1988		47.21	248.43	
	2/18/1988	CH2M Hill 1988		47.28	248.36	
	3/3/1988	CH2M Hill 1988		47.21	248.43	
	4/2/1988	CH2M Hill 1988		46.92	248.72	
	4/17/1995	Envirosolve	295.81	64.94	230.87	
	7/7/1995	Envirosolve		64.56	231.25	
	10/23/1995	Envirosolve		63.26	232.55	
	4/15/1996	Envirosolve		63.23	232.58	
	3/16/1998	Envirosolve		60.89	234.92	
	6/22/1998	Envirosolve	295.81	59.43	236.38	
	9/14/1998	Envirosolve		58.88	236.93	
	12/14/1998	Envirosolve		59.07	236.74	
	3/15/1999	IT		59.22	236.59	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT	295.81	59.97	235.84	
	9/13/1999	IT		59.55	236.26	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		58.58	237.23	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		58.25	237.56	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		57.49	238.32	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		57.05	238.76	
	12/18/2000	IT		56.17	239.64	
	5/7/2001	IT	299.13	62.09	237.04	
	10/15/2001	IT		62.96	236.17	
	6/3/2002	SECOR	299.09	64.05	235.04	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-6S	9/16/2002	SECOR	304.68	68.46	236.22	Micro Purge pump installed; TOC was elevated
	11/18/2002	SECOR		68.90	235.78	
	1/27/2003	SECOR		69.70	234.98	
	6/16/2003	SECOR		70.21	234.41	
	9/8/2003	SECOR		70.45	234.23	
	12/8/2003	SECOR		70.31	234.37	
	3/8/2004	SECOR		70.62	234.06	
	6/7/2004	SECOR		71.43	233.25	
	8/6/2004	SECOR		72.05	232.63	
	11/12/2004	SECOR		72.25	232.43	
	3/11/2005	SECOR		72.38	232.30	
	5/20/2005	SECOR		72.13	232.55	
	8/5/2005	SECOR		72.87	231.81	
	11/11/2005	SECOR		70.90	233.78	
	2/9/2006	SECOR		71.22	233.46	
	5/18/2006	SECOR		71.27	233.41	
MW-7S	8/7/1984	Harding Lawson Associates 1986	293.99	45.63	248.36	
	9/11/1984	Harding Lawson Associates 1986		45.37	248.62	
	9/14/1984	Harding Lawson Associates 1986		45.32	248.67	
	5/27/1986	CH2M Hill 1988	294.18	43.82	250.36	
	7/9/1986	CH2M Hill 1988		44.19	249.99	
	8/11/1986	CH2M Hill 1988		44.10	250.08	
	8/22/1986	CH2M Hill 1988		44.07	250.11	
	9/23/1986	CH2M Hill 1988		43.96	250.22	
	10/21/1986	CH2M Hill 1988		43.95	250.23	
	11/14/1986	CH2M Hill 1988		43.94	250.24	
	12/22/1986	CH2M Hill 1988		43.97	250.21	
	1/19/1987	CH2M Hill 1988		43.78	250.40	
	2/17/1987	CH2M Hill 1988		43.80	250.38	
	4/10/1987	CH2M Hill 1988		43.62	250.56	
	4/28/1987	CH2M Hill 1988		43.71	250.47	
	5/21/1987	CH2M Hill 1988		43.77	250.41	
	6/30/1987	CH2M Hill 1988		44.08	250.10	
	8/17/1987	CH2M Hill 1988		44.23	249.95	
	9/15/1987	CH2M Hill 1988		45.17	249.01	
	10/26/1987	CH2M Hill 1988		45.57	248.61	
	12/28/1987	CH2M Hill 1988		45.72	248.46	
	1/14/1988	CH2M Hill 1988		45.64	248.54	
	2/18/1988	CH2M Hill 1988		45.77	248.41	
	3/3/1988	CH2M Hill 1988		45.74	248.44	
	4/2/1988	CH2M Hill 1988		45.48	248.70	
	1/16/1995	Envirosolve		62.87	231.31	
	4/17/1995	Envirosolve	294.15	63.24	230.91	
	7/7/1995	Envirosolve		62.88	231.27	
	10/23/1995	Envirosolve		61.60	232.55	
	4/15/1996	Envirosolve		61.57	232.58	
	3/16/1998	Envirosolve	294.15	59.21	234.94	
	6/22/1998	Envirosolve		57.73	236.42	
	9/14/1998	Envirosolve		57.19	236.96	
	12/14/1998	Envirosolve		57.39	236.76	
	3/15/1999	IT		57.70	236.45	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		57.97	236.18	
	9/13/1999	IT		57.97	236.18	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		56.92	237.23	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.70	237.45	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.72	238.43	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.07	239.08	
	12/18/2000	IT		54.26	239.89	
	5/7/2001	IT	298.83	61.50	237.33	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-7S	10/15/2001	IT	298.83	62.57	236.26	
	6/3/2002	SECOR	298.79	63.70	235.09	
	9/16/2002	SECOR		65.86	236.22	Micro Purge pump installed; TOC was elevated
	11/18/2002	SECOR	302.08	66.36	235.72	
	1/27/2003	SECOR		66.94	235.14	
	6/16/2003	SECOR		67.58	234.50	
	9/8/2003	SECOR		67.80	234.28	
	12/8/2003	SECOR		67.71	234.37	
	3/8/2004	SECOR		67.88	234.20	
	6/7/2004	SECOR		68.94	233.14	
	8/6/2004	SECOR		69.34	232.74	
	11/12/2004	SECOR		69.75	232.33	
	3/11/2005	SECOR		69.78	232.30	
	5/20/2005	SECOR		69.74	232.34	
	8/5/2005	SECOR		70.38	231.70	
	11/11/2005	SECOR		68.45	233.63	
	2/9/2006	SECOR		68.77	233.31	
	5/18/2006	SECOR		68.79	233.29	
MW-8	12/28/1987	CH2M Hill 1988	296.67	49.18	247.49	
	1/14/1988	CH2M Hill 1988		49.13	247.54	
	2/18/1988	CH2M Hill 1988		49.22	247.45	
	3/3/1988	CH2M Hill 1988		48.78	247.89	
	4/2/1988	CH2M Hill 1988		48.88	247.79	
	1/16/1995	Envirosolve		65.77	230.90	
	4/17/1995	Envirosolve	296.83	66.57	230.26	
	7/7/1995	Envirosolve		66.22	230.61	
	10/23/1995	Envirosolve		64.96	231.87	
	4/15/1996	Envirosolve		64.88	231.95	
	3/16/1998	Envirosolve		62.85	233.98	
	6/22/1998	Envirosolve		61.45	235.38	
	9/14/1998	Envirosolve		60.89	235.94	
	12/14/1998	Envirosolve		60.67	236.16	
	3/15/1999	IT		61.04	235.79	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		61.68	235.15	
	9/13/1999	IT		61.39	235.44	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		60.36	236.47	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		60.04	236.79	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		59.41	237.42	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		59.06	237.77	
	12/18/2000	IT		58.27	238.56	
	5/7/2001	IT	301.87	66.03	235.84	
	10/15/2001	IT		66.85	235.02	
	6/3/2002	SECOR	300.72	66.53	234.19	
	9/16/2002	SECOR	307.86	72.27	235.59	Micro Purge pump installed; TOC was elevated
	11/18/2002	SECOR		73.04	234.82	
	1/27/2003	SECOR		73.44	234.42	
	6/16/2003	SECOR		74.01	233.85	
	9/8/2003	SECOR		74.13	233.73	
	12/8/2003	SECOR		72.78	235.08	
	3/8/2004	SECOR		73.11	234.75	
	6/7/2004	SECOR		74.04	233.82	
	8/6/2004	SECOR		74.63	233.23	
	11/12/2004	SECOR		74.92	232.94	
	3/18/2005	SECOR		74.95	232.91	
	5/20/2005	SECOR		74.98	232.88	
	8/5/2005	SECOR		75.82	232.04	
	11/11/2005	SECOR		73.83	234.03	
	2/9/2006	SECOR		73.96	233.90	
	5/18/2006	SECOR		73.99	233.87	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-10	12/28/1987	CH2M Hill 1988	290.91	43.65	247.26	
	1/14/1988	CH2M Hill 1988		43.08	247.83	
	2/18/1988	CH2M Hill 1988		43.09	247.82	
	3/3/1988	CH2M Hill 1988		43.05	247.86	
	4/2/1988	CH2M Hill 1988	290.91	42.73	248.18	
	1/16/1995	Envirosolve		59.06	231.85	
	4/17/1995	Envirosolve	288.68	57.60	231.08	
	7/7/1995	Envirosolve	290.63	59.58	231.05	
	10/23/1995	Envirosolve		58.38	232.25	
	4/15/1996	Envirosolve		58.28	232.35	
	3/16/1998	Envirosolve		56.20	234.43	
	6/22/1998	Envirosolve		54.81	235.82	
	9/14/1998	Envirosolve		54.20	236.43	
	12/14/1998	Envirosolve		54.07	236.56	
	3/15/1999	IT		54.31	236.32	Ref. Elev. = Water elev.+ DTW
	6/14/1999	IT		54.80	235.83	
	9/13/1999	IT		54.86	235.77	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		54.07	236.56	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		53.31	237.32	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT	290.63	53.07	237.56	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		52.55	238.08	
	12/18/2000	IT		51.60	239.03	
	5/7/2001	IT		53.99	236.64	
	10/15/2001	IT		54.78	235.85	
	6/3/2002	SECOR		55.70	234.93	
	9/16/2002	SECOR		54.37	236.26	Micro Purge pump installed
	11/18/2002	SECOR		55.32	235.31	
	1/27/2003	SECOR		55.71	234.92	
	6/16/2003	SECOR		56.41	234.22	
	9/8/2003	SECOR		56.59	234.04	
	12/8/2003	SECOR		56.53	234.10	
	3/8/2004	SECOR		56.85	233.78	
	6/7/2004	SECOR		57.64	232.99	
	8/6/2004	SECOR		58.22	232.41	
	11/12/2004	SECOR		58.64	231.99	
	3/11/2005	SECOR		58.65	231.98	
	5/20/2005	SECOR		58.68	231.95	Grass and foliage needs cutting
	8/5/2005	SECOR		59.34	231.29	
	11/11/2005	SECOR		57.41	233.22	
	2/9/2006	SECOR		57.76	232.87	
	5/18/2006	SECOR		57.84	232.79	
MW-12	2/28/1982	USEPA-ERT 1982	300.74	48.17	252.57	
	8/7/1984	Harding Lawson Associates 1986	290.50	43.00	247.50	
	9/11/1984	Harding Lawson Associates 1986		42.81	247.69	
	9/14/1984	Harding Lawson Associates 1986		42.82	247.68	
	5/27/1986	CH2M Hill 1988	290.64	41.19	249.45	
	7/9/1986	CH2M Hill 1988		41.56	249.08	
	8/11/1986	CH2M Hill 1988		41.49	249.15	
	8/22/1986	CH2M Hill 1988		41.47	249.17	
	9/23/1986	CH2M Hill 1988		41.47	249.17	
	10/21/1986	CH2M Hill 1988		41.31	249.33	
	11/14/1986	CH2M Hill 1988		41.16	249.48	
	12/22/1986	CH2M Hill 1988		41.38	249.26	
	1/19/1987	CH2M Hill 1988		41.23	249.41	
	2/17/1987	CH2M Hill 1988		41.17	249.47	
	4/28/1987	CH2M Hill 1988		41.00	249.64	
	5/21/1987	CH2M Hill 1988		41.19	249.45	
	6/30/1987	CH2M Hill 1988		41.41	249.23	
	8/17/1987	CH2M Hill 1988		41.55	249.09	

Table 7
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Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-12	9/15/1987	CH2M Hill 1988		42.54	248.10	
	10/26/1987	CH2M Hill 1988		43.02	247.62	
	12/28/1987	CH2M Hill 1988		43.06	247.58	
	1/14/1988	CH2M Hill 1988		43.12	247.52	
	2/18/1988	CH2M Hill 1988		43.09	247.55	
	3/3/1988	CH2M Hill 1988	290.64	43.15	247.49	
	4/2/1988	CH2M Hill 1988		42.95	247.69	
	8/5/2005	SECOR		NA	NA	Well is dry
	11/11/2005	SECOR		NA	NA	Well is dry
	2/9/2006	SECOR		NA	NA	Destroyed December 2005
MW-14D	8/7/1984	Harding Lawson Associates 1986	296.70	49.81	246.89	
	9/11/1984	Harding Lawson Associates 1986		49.51	247.19	
	9/14/1984	Harding Lawson Associates 1986		49.53	247.17	
	5/27/1986	CH2M Hill 1988	296.68	47.63	249.05	
	7/9/1986	CH2M Hill 1988		48.19	248.49	
	8/11/1986	CH2M Hill 1988		47.94	248.74	
	8/22/1986	CH2M Hill 1988		48.00	248.68	
	9/23/1986	CH2M Hill 1988		47.91	248.77	
	10/21/1986	CH2M Hill 1988		47.83	248.85	
	11/14/1986	CH2M Hill 1988		47.92	248.76	
	12/22/1986	CH2M Hill 1988		48.10	248.58	
	1/19/1987	CH2M Hill 1988		47.95	248.73	
	2/17/1987	CH2M Hill 1988		47.93	248.75	
	4/10/1987	CH2M Hill 1988		47.66	249.02	
	4/28/1987	CH2M Hill 1988		47.82	248.86	
	5/21/1987	CH2M Hill 1988		47.85	248.83	
	6/30/1987	CH2M Hill 1988		48.11	248.57	
	8/17/1987	CH2M Hill 1988		48.36	248.32	
	9/15/1987	CH2M Hill 1988		49.49	247.19	
	10/26/1987	CH2M Hill 1988		49.80	246.88	
	12/28/1987	CH2M Hill 1988		49.76	246.92	
	1/14/1988	CH2M Hill 1988		49.23	247.45	
	2/18/1988	CH2M Hill 1988	296.67	49.79	246.89	
	3/3/1988	CH2M Hill 1988		49.20	247.48	
	4/2/1988	CH2M Hill 1988		49.53	247.15	
	4/17/1995	Envirosolve		66.92	229.75	
	7/7/1995	Envirosolve		66.60	230.07	
	10/23/1995	Envirosolve		65.27	231.40	
	4/15/1996	Envirosolve		65.21	231.46	
	3/16/1998	Envirosolve		63.21	233.46	
	6/22/1998	Envirosolve		61.83	234.84	
	9/14/1998	Envirosolve		61.22	235.45	
	12/14/1998	Envirosolve		61.01	235.66	
	3/15/1999	IT		61.44	235.23	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		62.17	234.50	
	9/13/1999	IT		61.88	234.79	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		60.64	236.03	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		60.37	236.30	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		59.75	236.92	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		59.29	237.38	
	12/18/2000	IT		58.43	238.24	
	6/3/2002	SECOR	301.85	NA	NA	Well has obstruction
	9/16/2002	SECOR		NA	NA	Well has obstruction
	11/18/2002	SECOR		NA	NA	*Well has obstruction*
	8/5/2005	SECOR		NA	NA	Well has obstruction
	11/11/2005	SECOR		NA	NA	Well has obstruction
	2/9/2006	SECOR		NA	NA	Destroyed December 2005
MW-14S	8/7/1984	Harding Lawson Associates 1986	296.68	49.80	246.88	
	9/11/1984	Harding Lawson Associates 1986		49.49	247.19	

Table 7
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-14S	9/14/1984	Harding Lawson Associates 1986		49.50	247.18	
	5/27/1986	CH2M Hill 1988		47.49	249.19	
	7/9/1986	CH2M Hill 1988		48.17	248.51	
	8/11/1986	CH2M Hill 1988		47.96	248.72	
	8/22/1986	CH2M Hill 1988		48.02	248.66	
	9/23/1986	CH2M Hill 1988		47.71	248.97	
	10/21/1986	CH2M Hill 1988		47.81	248.87	
	11/14/1986	CH2M Hill 1988		47.92	248.76	
	12/22/1986	CH2M Hill 1988		48.08	248.60	
	1/19/1987	CH2M Hill 1988		47.92	248.76	
	2/17/1987	CH2M Hill 1988		47.92	248.76	
	4/10/1987	CH2M Hill 1988		47.62	249.06	
	4/28/1987	CH2M Hill 1988		47.82	248.86	
	5/21/1987	CH2M Hill 1988		47.87	248.81	
	6/30/1987	CH2M Hill 1988		48.06	248.62	
	8/17/1987	CH2M Hill 1988		48.36	248.32	
	9/15/1987	CH2M Hill 1988		49.45	247.23	
	10/26/1987	CH2M Hill 1988		49.73	246.95	
	12/28/1987	CH2M Hill 1988		49.76	246.92	
	1/14/1988	CH2M Hill 1988		49.71	246.97	
	2/18/1988	CH2M Hill 1988		49.80	246.88	
	3/3/1988	CH2M Hill 1988		49.21	247.47	
	4/2/1988	CH2M Hill 1988		49.52	247.16	
	9/13/1999	IT	296.67	59.66	237.01	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		59.69	236.98	May be hitting top of pump
	3/13/2000	IT		59.64	237.03	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		59.64	237.03	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		59.44	237.23	
	12/18/2000	IT		52.40	244.27	
	5/7/2001	IT	301.75	66.16	235.59	
	6/3/2002	SECOR	301.62	NA	NA	Well has obstruction
	9/16/2002	SECOR		NA	NA	Well has obstruction
	11/18/2002	SECOR		NA	NA	Well has obstruction
	8/5/2005	SECOR		NA	NA	Well has obstruction
	11/11/2005	SECOR		NA	NA	Well has obstruction
	2/9/2006	SECOR		NA	NA	Destroyed December 2005
MW-16	12/28/1987	CH2M Hill 1988	295.97	49.55	246.42	
	1/14/1988	CH2M Hill 1988		49.60	246.37	
	2/18/1988	CH2M Hill 1988		49.60	246.37	
	3/3/1988	CH2M Hill 1988	296.18	49.20	246.77	
	4/2/1988	CH2M Hill 1988		49.28	246.69	
	10/23/1995	Envirosolve		65.28	230.90	
	4/15/1996	Envirosolve		65.22	230.96	
	3/16/1998	Envirosolve		63.21	232.97	
	6/22/1998	Envirosolve		61.83	234.35	
	9/14/1998	Envirosolve		61.18	235.00	
	12/14/1998	Envirosolve		60.98	235.20	
	3/15/1999	IT		61.29	234.89	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		62.11	234.07	
	9/13/1999	IT		61.73	234.45	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		60.55	235.63	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		60.02	236.16	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		59.59	236.59	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		59.44	236.74	
	12/18/2000	IT		58.47	237.71	
	5/7/2001	IT	300.50	65.58	234.92	
	10/15/2001	IT		66.73	233.77	
	6/3/2002	SECOR	300.47	66.15	234.32	
	9/16/2002	SECOR	302.65	68.18	234.47	Micro Purge pump installed; TOC was elevated

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-16	11/18/2002	SECOR		69.02	233.63	
	1/27/2003	SECOR		69.38	233.27	
	6/16/2003	SECOR		69.81	232.84	
	9/8/2003	SECOR		69.94	232.71	
	12/8/2003	SECOR		69.94	232.71	
	3/8/2004	SECOR		70.19	232.46	
	6/7/2004	SECOR		71.03	231.62	
	8/6/2004	SECOR		71.67	230.98	
	11/12/2004	SECOR		71.95	230.70	
	3/11/2005	SECOR		71.96	230.69	
	5/20/2005	SECOR		72.13	230.52	
	8/5/2005	SECOR		72.97	229.68	
	11/11/2005	SECOR		71.05	231.60	
	2/9/2006	SECOR		71.20	231.45	
	5/18/2006	SECOR		71.27	231.38	
MW-19	12/28/1987	CH2M Hill 1988	291.08	44.38	246.70	
	1/14/1988	CH2M Hill 1988		44.43	246.65	
	2/18/1988	CH2M Hill 1988		44.4	246.68	
	3/3/1988	CH2M Hill 1988		44.43	246.65	
	4/2/1988	CH2M Hill 1988		44.35	246.73	
	6/14/1999	IT	291.04	56.81	234.23	
	9/13/1999	IT		56.55	234.49	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		55.53	235.51	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		55.14	235.90	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		53.35	237.69	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT	290.47	53.04	237.43	
	12/18/2000	IT		52.41	238.06	
	5/7/2001	IT	291.04	54.96	236.08	
	10/15/2001	IT		55.52	235.52	
	6/3/2002	SECOR	290.47	56.37	234.10	
	9/16/2002	SECOR		55.27	235.20	Micro Purge pump installed
	11/18/2002	SECOR		56.12	234.35	
	1/27/2003	SECOR		56.56	233.91	
	6/16/2003	SECOR		57.12	233.35	
	9/8/2003	SECOR		57.21	233.26	
	12/8/2003	SECOR		57.16	233.31	
	3/8/2004	SECOR		57.65	232.82	
	6/7/2004	SECOR		58.38	232.09	
	8/6/2004	SECOR		59.01	231.46	
	11/12/2004	SECOR		59.35	231.12	
	3/11/2005	SECOR		59.23	231.24	
	5/20/2005	SECOR		59.44	231.03	
	8/5/2005	SECOR		60.23	230.24	
	11/11/2005	SECOR		58.47	232.00	Monument severely dented
	2/9/2006	SECOR		58.46	232.01	Monument severely dented
	5/18/2006	SECOR		58.66	231.81	Monument severely dented
MW-24	12/28/1987	CH2M Hill 1988	289.61	44.72	244.89	
	1/14/1988	CH2M Hill 1988		44.69	244.92	
	2/18/1988	CH2M Hill 1988		44.72	244.89	
	3/3/1988	CH2M Hill 1988		44.81	244.80	
	4/2/1988	CH2M Hill 1988		44.87	244.74	
	1/16/1995	Envirosolve		60.86	228.75	
	4/17/1995	Envirosolve	289.85	61.57	228.28	
	7/7/1995	Envirosolve		61.98	227.87	
	10/23/1995	Envirosolve		60.58	229.27	
	4/15/1996	Envirosolve		60.23	229.62	
	3/16/1998	Envirosolve		58.07	231.78	
	6/22/1998	Envirosolve		56.96	232.89	
	9/14/1998	Envirosolve	289.85	56.25	233.60	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-24	8/5/2005	SECOR		NA	NA	Destroyed
	11/11/2005	SECOR		NA	NA	Destroyed
	2/9/2006	SECOR		NA	NA	Destroyed
	5/18/2006	SECOR		NA	NA	Destroyed
MW-25	12/28/1987	CH2M Hill 1988	290.72	44.74	245.98	
	1/14/1988	CH2M Hill 1988		44.78	245.94	
	2/18/1988	CH2M Hill 1988		44.77	245.95	
	3/3/1988	CH2M Hill 1988		44.81	245.91	
	4/2/1988	CH2M Hill 1988		44.79	245.93	
	1/16/1995	Envirosolve		61.00	229.72	
	4/17/1995	Envirosolve	290.70	61.49	229.21	
	7/7/1995	Envirosolve		61.67	229.03	
	10/23/1995	Envirosolve		60.40	230.30	
	4/15/1996	Envirosolve		60.08	230.62	
	3/16/1998	Envirosolve		58.00	232.70	
	6/22/1998	Envirosolve		56.78	233.92	
	9/14/1998	Envirosolve		56.10	234.60	
	12/14/1998	Envirosolve		55.91	234.79	
	3/15/1999	IT		56.21	234.49	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		56.88	233.82	
	9/13/1999	IT		56.61	234.09	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		55.48	235.22	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		55.15	235.55	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		54.32	236.38	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		54.09	236.61	
	12/18/2000	IT		53.38	237.32	
	5/7/2001	IT		56.05	234.65	
	10/15/2001	IT		56.71	233.99	
	6/3/2002	SECOR	290.70	57.52	233.18	
	9/16/2002	SECOR		56.00	234.70	Micro Purge pump installed
	11/18/2002	SECOR		56.91	233.79	
	1/27/2003	SECOR		57.31	233.39	
	6/16/2003	SECOR		57.95	232.75	
	9/8/2003	SECOR		58.19	232.51	
	12/8/2003	SECOR		58.03	232.67	
	3/8/2004	SECOR		58.42	232.28	
	6/7/2004	SECOR		59.30	231.40	
	8/6/2004	SECOR		58.89	231.81	
	11/12/2004	SECOR		60.06	230.64	
	3/11/2005	SECOR		60.10	230.60	
	5/20/2005	SECOR		60.25	230.45	Forklift and hydraulics nearby
	8/5/2005	SECOR		61.15	229.55	
	11/11/2005	SECOR		59.26	231.44	
	2/9/2006	SECOR		59.29	231.41	
	5/18/2006	SECOR		59.43	231.27	
MW-34S	1/16/1995	Envirosolve	288.51	62.47	226.04	
	4/17/1995	Envirosolve		62.35	226.16	
	7/7/1995	Envirosolve		63.52	224.99	
	10/23/1995	Envirosolve		62.05	226.46	
	4/15/1996	Envirosolve		61.56	226.95	
	3/16/1998	Envirosolve		59.16	229.35	
	6/22/1998	Envirosolve		58.68	229.83	
	9/14/1998	Envirosolve		57.65	230.86	
	12/14/1998	Envirosolve		57.65	230.86	
	3/15/1999	IT		57.73	230.78	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		58.20	230.31	
	9/13/1999	IT		56.30	232.21	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		57.26	231.25	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.78	231.73	Ref. Elev. = Water elev. + DTW

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	*Top of* Casing (ft msl)	Depth to Water (ft below TOC)	*Groundwater* Elevation (ft msl)	Comments
MW-34S	6/19/2000	IT		55.78	232.73	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.68	232.83	
	12/18/2000	IT		55.02	233.49	
	5/7/2001	IT		57.21	231.30	
	10/15/2001	IT		57.67	230.84	
	6/3/2002	SECOR	288.51	59.02	229.49	
	9/16/2002	SECOR		57.44	231.07	Micro Purge pump installed
	11/18/2002	SECOR		58.19	230.32	
	1/27/2003	SECOR		58.72	229.79	
	6/16/2003	SECOR		59.38	229.13	
	9/8/2003	SECOR		59.68	228.83	
	12/8/2003	SECOR		59.48	229.03	
	3/8/2004	SECOR	288.51	59.90	228.61	
	6/7/2004	SECOR		61.02	227.49	
	8/6/2004	SECOR		61.36	227.15	
	11/12/2004	SECOR		61.43	227.08	
	3/11/2005	SECOR		61.24	227.27	
	5/20/2005	SECOR		61.78	226.73	
	8/5/2005	SECOR		62.43	226.08	
	11/11/2005	SECOR		61.08	227.43	
	2/9/2006	SECOR		60.93	227.58	
	5/18/2006	SECOR		61.06	227.45	
Shallow to Intermediate						
MW-7I	8/7/1984	Harding Lawson Associates 1986	294.05	45.69	248.36	
	9/11/1984	Harding Lawson Associates 1986		45.44	248.61	
	9/14/1984	Harding Lawson Associates 1986		45.40	248.65	
	5/27/1986	CH2M Hill 1988	294.04	43.59	250.45	
	7/9/1986	CH2M Hill 1988		44.14	249.90	
	8/11/1986	CH2M Hill 1988		43.91	250.13	
	8/22/1986	CH2M Hill 1988		43.94	250.10	
	9/20/1986	CH2M Hill 1988		43.92	250.12	
	10/21/1986	CH2M Hill 1988		43.68	250.36	
	11/14/1986	CH2M Hill 1988		43.66	250.38	
	12/22/1986	CH2M Hill 1988		43.84	250.20	
	1/19/1987	*CH2M Hill 1988*		*43.67*	*250.37*	
	2/17/1987	CH2M Hill 1988		43.72	250.32	
	4/10/1987	CH2M Hill 1988		43.48	250.56	
	4/28/1987	CH2M Hill 1988		43.57	250.47	
	5/21/1987	CH2M Hill 1988		43.67	250.37	
	6/30/1987	CH2M Hill 1988		43.98	250.06	
	8/17/1987	CH2M Hill 1988		44.13	249.91	
	9/15/1987	CH2M Hill 1988		45.05	248.99	
	10/26/1987	CH2M Hill 1988		45.46	248.58	
	12/28/1987	CH2M Hill 1988		45.58	248.46	
	1/14/1988	CH2M Hill 1988		45.54	248.50	
	2/18/1988	CH2M Hill 1988		45.65	248.39	
	3/3/1988	CH2M Hill 1988		45.60	248.44	
	4/2/1988	CH2M Hill 1988		45.34	248.70	
	4/17/1995	Envirosolve	293.99	62.76	231.23	
	7/7/1995	Envirosolve		62.42	231.57	
	10/23/1995	Envirosolve		61.18	232.81	
	4/15/1996	Envirosolve		61.17	232.82	
	3/16/1998	Envirosolve		59.07	234.92	
	6/22/1998	Envirosolve		57.60	236.39	
	9/14/1998	Envirosolve		57.04	236.95	
	12/14/1998	Envirosolve		57.04	236.95	
	3/15/1999	IT		57.42	236.57	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		57.70	236.29	
	9/13/1999	IT		57.67	236.32	Ref. Elev. = Water elev. + DTW

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-7I	12/13/1999	IT		56.63	237.36	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.37	237.62	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.59	238.40	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		54.96	239.03	
	12/18/2000	IT		54.31	239.68	
	5/7/2001	IT	298.79	61.82	236.97	
	10/15/2001	IT		62.58	236.21	
	6/3/2002	SECOR	298.74	63.44	235.30	
	9/16/2002	SECOR	301.17	64.64	236.53	Micro Purge pump installed, TOC was elevated
	11/18/2002	SECOR		65.37	235.80	
	1/27/2003	SECOR		65.88	235.29	
	6/16/2003	SECOR		66.47	234.70	
	9/8/2003	SECOR		66.67	234.50	
	12/8/2003	SECOR		66.57	234.60	
	3/8/2004	SECOR		66.92	234.25	
	6/7/2004	SECOR		67.83	233.34	
	8/6/2004	SECOR		68.40	232.77	
	11/12/2004	SECOR		68.72	232.45	
	3/11/2005	SECOR		68.74	232.43	
	5/20/2005	SECOR		68.68	232.49	
	8/5/2005	SECOR		69.41	231.76	
	11/11/2005	SECOR		67.46	233.71	
	2/9/2006	SECOR		67.79	233.38	
	5/18/2006	SECOR		67.83	233.34	
MW-9	8/7/1984	Harding Lawson Associates 1986	291	43.26	247.74	
	9/11/1984	Harding Lawson Associates 1986		43.01	247.99	
	9/14/1984	Harding Lawson Associates 1986		43.00	248.00	
	5/27/1986	CH2M Hill 1988	291	41.58	249.42	
	7/9/1986	CH2M Hill 1988		41.67	249.33	
	8/11/1986	CH2M Hill 1988		43.93	247.07	
	8/22/1986	CH2M Hill 1988	291	41.52	249.48	
	9/23/1986	CH2M Hill 1988		41.48	249.52	
	10/21/1986	CH2M Hill 1988		41.36	249.64	
	11/14/1986	CH2M Hill 1988		41.31	249.69	
	12/22/1986	CH2M Hill 1988		41.57	249.43	
	1/19/1987	CH2M Hill 1988		41.41	249.59	
	2/17/1987	CH2M Hill 1988		41.32	249.68	
	4/10/1987	CH2M Hill 1988		41.10	249.90	
	4/28/1987	CH2M Hill 1988		41.29	249.71	
	5/21/1987	CH2M Hill 1988		41.32	249.68	
	8/17/1987	CH2M Hill 1988		41.72	249.28	
	9/15/1987	CH2M Hill 1988		42.92	248.08	
	10/26/1987	CH2M Hill 1988		42.13	248.87	
	12/28/1987	CH2M Hill 1988		43.24	247.76	
	1/14/1988	CH2M Hill 1988		43.25	247.75	
	2/18/1988	CH2M Hill 1988		43.27	247.73	
	3/3/1988	CH2M Hill 1988		43.13	247.87	
	4/2/1988	CH2M Hill 1988		43.00	248.00	
	6/3/2002	SECOR	290.90	56.29	234.61	
	9/16/2002	SECOR		54.97	235.93	Micro Purge pump installed
	11/18/2002	SECOR		55.78	235.12	
	1/27/2003	SECOR		56.20	234.70	
	6/16/2003	SECOR		56.84	234.06	
	9/8/2003	SECOR		57.00	233.90	
	12/8/2003	SECOR		56.93	233.97	
	3/8/2004	SECOR		57.24	233.66	
	6/7/2004	SECOR		58.15	232.75	
	8/6/2004	SECOR		58.61	232.29	
	11/12/2004	SECOR		59.05	231.85	

Table 7
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Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-9	3/11/2005	SECOR		59.08	231.82	
	5/20/2005	SECOR		59.09	231.81	Grass and foliage needs cutting
	8/5/2005	SECOR		59.88	231.02	
	11/11/2005	SECOR		57.82	233.08	
	2/9/2006	SECOR		58.15	232.75	
	5/18/2006	SECOR		58.24	232.66	
MW-11	8/7/1984	Harding Lawson Associates 1986	290.87	42.99	247.88	
	9/11/1984	Harding Lawson Associates 1986		42.75	248.12	
	9/14/1984	Harding Lawson Associates 1986		42.76	248.11	
	5/27/1986	CH2M Hill 1988	291.04	41.30	249.74	
	7/9/1986	CH2M Hill 1988		41.55	249.49	
	8/11/1986	CH2M Hill 1988		41.50	249.54	
	8/22/1986	CH2M Hill 1988		41.45	249.59	
	9/23/1986	CH2M Hill 1988		41.40	249.64	
	10/21/1986	CH2M Hill 1988		41.25	249.79	
	11/14/1986	CH2M Hill 1988		41.21	249.83	
	12/22/1986	CH2M Hill 1988		41.39	249.65	
	1/19/1987	CH2M Hill 1988		41.26	249.78	
	2/17/1987	CH2M Hill 1988		41.22	249.82	
	4/10/1987	CH2M Hill 1988		40.99	250.05	
	4/28/1987	CH2M Hill 1988		41.14	249.90	
	5/21/1987	CH2M Hill 1988		41.22	249.82	
	6/30/1987	CH2M Hill 1988		41.46	249.58	
	8/17/1987	CH2M Hill 1988		41.61	249.43	
	9/15/1987	CH2M Hill 1988		41.61	249.43	
	10/26/1987	CH2M Hill 1988		43.09	247.95	
	12/28/1987	CH2M Hill 1988		43.10	247.94	
	1/14/1988	CH2M Hill 1988		43.14	247.90	
	2/18/1988	CH2M Hill 1988	291.04	43.16	247.88	
	3/3/1988	CH2M Hill 1988		43.12	247.92	
	4/2/1988	CH2M Hill 1988		42.90	248.14	
	1/16/1995	Envirosolve		59.68	231.36	
	7/7/1995	Envirosolve	291.02	59.92	231.10	
	10/23/1995	Envirosolve		58.73	232.29	
	4/15/1996	Envirosolve		58.61	232.41	
	3/16/1998	Envirosolve		56.56	234.46	
	6/22/1998	Envirosolve		55.12	235.90	
	9/14/1998	Envirosolve		54.53	236.49	
	12/14/1998	Envirosolve		54.44	236.58	
	3/15/1999	IT		54.73	236.29	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT	291.02	55.22	235.80	
	9/13/1999	IT		55.11	235.91	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		53.42	237.60	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		53.75	237.27	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		53.00	238.02	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		52.59	238.43	
	12/18/2000	IT		51.98	239.04	
	5/7/2001	IT		54.57	236.45	
	10/15/2001	IT		55.26	235.76	
	6/3/2002	SECOR	290.82	56.09	234.73	
	9/16/2002	SECOR		54.42	236.40	Micro Purge pump installed
	11/18/2002	SECOR		55.25	235.57	
	1/27/2003	SECOR		55.66	235.16	
	6/16/2003	SECOR		56.27	234.55	
	9/8/2003	SECOR		56.47	234.35	
	12/8/2003	SECOR		56.42	234.40	
	3/8/2004	SECOR		56.75	234.07	
	6/7/2004	SECOR		57.64	233.18	
	8/6/2004	SECOR		58.18	232.64	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-11	11/12/2004	SECOR		58.52	232.30	
	3/11/2005	SECOR		58.56	232.26	
	5/20/2005	SECOR		58.55	232.27	Grass and foliage needs cutting
	8/5/2005	SECOR		59.33	231.49	
	11/11/2005	SECOR		57.39	233.43	
	2/9/2006	SECOR		57.65	233.17	
	5/18/2006	SECOR		57.70	233.12	
MW-13	8/7/1984	Harding Lawson Associates 1986	289.77	42.68	247.09	
	9/11/1984	Harding Lawson Associates 1986		42.34	247.43	
	9/14/1984	Harding Lawson Associates 1986		42.35	247.42	
	5/27/1986	CH2M Hill 1988	289.96	40.84	249.12	
	7/9/1986	CH2M Hill 1988		41.11	248.85	
	8/22/1986	CH2M Hill 1988		40.96	249.00	
	9/23/1986	CH2M Hill 1988		40.75	249.21	
	10/21/1986	CH2M Hill 1988		40.74	249.22	
	11/14/1986	CH2M Hill 1988		40.91	249.05	
	12/22/1986	CH2M Hill 1988		41.10	248.86	
	1/19/1987	CH2M Hill 1988		40.91	249.05	
	2/17/1987	CH2M Hill 1988		40.93	249.03	
	4/10/1987	CH2M Hill 1988		40.72	249.24	
	4/28/1987	CH2M Hill 1988		40.97	248.99	
	5/21/1987	CH2M Hill 1988		40.89	249.07	
	6/30/1987	CH2M Hill 1988		40.13	249.83	
	8/17/1987	CH2M Hill 1988		40.42	249.54	
	9/15/1987	CH2M Hill 1988		42.47	247.49	
	10/26/1987	CH2M Hill 1988		42.82	247.14	
	12/28/1987	CH2M Hill 1988		42.83	247.13	
	1/14/1988	CH2M Hill 1988		42.86	247.10	
	2/18/1988	CH2M Hill 1988		42.86	247.10	
	3/3/1988	CH2M Hill 1988	289.96	41.87	248.09	
	4/2/1988	CH2M Hill 1988		42.49	247.47	
	7/7/1995	Envirosolve	289.92	59.61	230.31	
	10/23/1995	Envirosolve		58.26	231.66	
	4/15/1996	Envirosolve		58.30	231.62	
	3/16/1998	Envirosolve		56.37	233.55	
	6/22/1998	Envirosolve		54.90	235.02	
	9/14/1998	Envirosolve		54.35	235.57	
	12/14/1998	Envirosolve		54.04	235.88	
	3/15/1999	IT		54.58	235.34	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		55.37	234.55	
	9/13/1999	IT		54.99	234.93	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		53.76	236.16	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		53.43	236.49	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		52.91	237.01	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		52.72	237.20	
	12/18/2000	IT		51.85	238.07	
	5/7/2001	IT		54.82	235.10	
	10/15/2001	IT		55.74	234.18	
	6/3/2002	SECOR	289.74	56.21	233.53	
	9/16/2002	SECOR		54.50	235.24	Micro Purge pump installed
	11/18/2002	SECOR	289.74	55.29	234.45	
	1/27/2003	SECOR		55.62	234.12	
	6/16/2003	SECOR		56.27	233.47	
	9/8/2003	SECOR		56.40	233.34	
	12/8/2003	SECOR		56.28	233.46	
	3/8/2004	SECOR		56.60	233.14	
	6/7/2004	SECOR		57.48	232.26	
	8/6/2004	SECOR		58.12	231.62	
	11/12/2004	SECOR		58.39	231.35	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-13	3/11/2005	SECOR		58.38	231.36	
	5/20/2005	SECOR		58.55	231.19	Used cars dripping oil nearby
	8/5/2005	SECOR		59.41	230.33	
	11/11/2005	SECOR		57.39	232.35	Used cars dripping oil nearby
	2/9/2006	SECOR		57.48	232.26	
	5/18/2006	SECOR		57.67	232.07	
MW-18	8/7/1984	Harding Lawson Associates 1986	289.53	42.94	246.59	
	9/11/1984	Harding Lawson Associates 1986		42.65	246.88	
	9/14/1984	Harding Lawson Associates 1986		42.69	246.84	
	5/27/1986	CH2M Hill 1988	289.58	41.05	248.53	
	7/9/1986	CH2M Hill 1988		41.34	248.24	
	8/22/1986	CH2M Hill 1988		41.26	248.32	
	9/23/1986	CH2M Hill 1988		41.16	248.42	
	10/21/1986	CH2M Hill 1988		41.05	248.53	
	11/14/1986	CH2M Hill 1988		41.05	248.53	
	12/22/1986	CH2M Hill 1988		41.29	248.29	
	1/19/1987	CH2M Hill 1988		41.10	248.48	
	2/17/1987	CH2M Hill 1988		41.09	248.49	
	4/10/1987	CH2M Hill 1988		40.84	248.74	
	4/28/1987	CH2M Hill 1988		41.05	248.53	
	5/21/1987	CH2M Hill 1988		41.05	248.53	
	6/30/1987	CH2M Hill 1988		41.05	248.53	
	8/17/1987	CH2M Hill 1988		41.51	248.07	
	9/15/1987	CH2M Hill 1988		42.36	247.22	
	10/26/1987	CH2M Hill 1988		42.86	246.72	
	12/28/1987	CH2M Hill 1988	246.67	0.00	246.67	
	1/14/1988	CH2M Hill 1988		-0.01	246.68	
	2/18/1988	CH2M Hill 1988		0.02	246.65	
	3/3/1988	CH2M Hill 1988		-0.28	246.95	
	4/2/1988	CH2M Hill 1988		-0.13	246.80	
	4/17/1995	Envirosolve	289.8	60.18	229.62	
	7/7/1995	Envirosolve		60.03	229.77	
	10/23/1995	Envirosolve		58.68	231.12	
	6/7/2004	SECOR		59.34	230.46	
	8/6/2004	SECOR		59.97	229.83	
	11/12/2004	SECOR		NA	NA	Obstructed
	3/11/2005	SECOR		NA	NA	Obstructed
	5/20/2005	SECOR		NA	NA	Obstructed
	8/5/2005	SECOR		NA	NA	Buried
	11/11/2005	SECOR		NA	NA	Buried
	2/9/2006	SECOR		NA	NA	Destroyed December 2005
MW-20	7/7/1995	Envirosolve	288.53	60.37	228.16	
	10/23/1995	Envirosolve		58.67	229.86	
	4/15/1996	Envirosolve		58.63	229.90	
	3/16/1998	Envirosolve		56.49	232.04	
	6/22/1998	Envirosolve		55.17	233.36	
	9/14/1998	Envirosolve		54.47	234.06	
	12/14/1998	Envirosolve		54.19	234.34	
	3/15/1999	IT		54.80	233.73	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		55.70	232.83	
	9/13/1999	IT		55.12	233.41	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		53.85	234.68	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		53.62	234.91	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		53.04	235.49	
	9/11/2000	IT		52.89	235.64	
	12/18/2000	IT		51.92	236.61	
	5/7/2001	IT		55.07	233.46	
	10/15/2001	IT		56.09	232.44	
	6/3/2002	SECOR	288.4	56.38	232.02	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-20	9/16/2002	SECOR		55.01	233.39	Micro Purge pump installed
	11/18/2002	SECOR		55.86	232.54	
	1/27/2003	SECOR		56.16	232.24	
	6/16/2003	SECOR		56.73	231.67	
	9/8/2003	SECOR		56.91	231.49	
	12/8/2003	SECOR		56.71	231.69	
	3/8/2004	SECOR		57.16	231.24	
	6/7/2004	SECOR		58.02	230.38	
	8/6/2004	SECOR		58.59	229.81	
	11/12/2004	SECOR		58.84	229.56	Bent lid, broken latch, marked with fencing
	3/11/2005	SECOR		58.83	229.57	
	5/20/2005	SECOR		59.12	229.28	Lid broken, no lock
	8/5/2005	SECOR		60.05	228.35	Well box damaged, dented, smashed
	11/11/2005	SECOR		58.06	230.34	Lid is broken, no lock
	2/9/2006	SECOR		58.02	230.38	
	5/18/2006	SECOR		58.30	230.10	
MW-21	8/7/1984	Harding Lawson Associates 1986	289.80	43.84	245.96	
	9/11/1984	Harding Lawson Associates 1986	289.80	43.54	246.26	
	9/14/1984	Harding Lawson Associates 1986		43.55	246.25	
	5/27/1986	CH2M Hill 1988	289.73	41.89	247.84	
	7/9/1986	CH2M Hill 1988		42.43	247.30	
	8/11/1986	CH2M Hill 1988		42.03	247.70	
	8/22/1986	CH2M Hill 1988		41.97	247.76	
	9/23/1986	CH2M Hill 1988		41.90	247.83	
	10/21/1986	CH2M Hill 1988		41.74	247.99	
	11/14/1986	CH2M Hill 1988		41.83	247.90	
	12/22/1986	CH2M Hill 1988		42.05	247.68	
	1/19/1987	CH2M Hill 1988		41.85	247.88	
	2/17/1987	CH2M Hill 1988		41.83	247.90	
	4/10/1987	CH2M Hill 1988		41.62	248.11	
	4/28/1987	CH2M Hill 1988		41.85	247.88	
	5/21/1987	CH2M Hill 1988		42.05	247.68	
	6/30/1987	CH2M Hill 1988		42.18	247.55	
	8/17/1987	CH2M Hill 1988		42.41	247.32	
	9/15/1987	CH2M Hill 1988		43.62	246.11	
	10/26/1987	CH2M Hill 1988		43.80	245.93	
	12/28/1987	CH2M Hill 1988		43.76	245.97	
	1/14/1988	CH2M Hill 1988		43.81	245.92	
	2/18/1988	CH2M Hill 1988		43.81	245.92	
	3/3/1988	CH2M Hill 1988	289.73	43.69	246.04	
	4/2/1988	CH2M Hill 1988		43.75	245.98	
	4/17/1995	Envirosolve	289.77	60.84	228.93	
	7/7/1995	Envirosolve		60.86	228.91	
	10/23/1995	Envirosolve		59.36	230.41	
	4/15/1996	Envirosolve		59.19	230.58	
	3/15/1999	IT		55.25	234.52	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		56.19	233.58	
	9/13/1999	IT		55.70	234.07	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		54.56	235.21	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		54.26	235.51	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		53.39	236.38	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		53.25	236.52	
	12/18/2000	IT		52.39	237.38	
	5/7/2001	IT		55.13	234.64	
	10/15/2001	IT		56.21	233.56	
	6/3/2002	SECOR	289.47	56.56	232.83	
	9/16/2002	SECOR		55.29	234.18	Micro Purge pump installed
	11/18/2002	SECOR		56.14	233.33	
	1/27/2003	SECOR		56.51	232.96	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-21	6/16/2003	SECOR		57.09	232.38	
	9/8/2003	SECOR		57.22	232.25	
	12/8/2003	SECOR		57.13	232.34	
	3/8/2004	SECOR		57.54	231.93	
	6/7/2004	SECOR		58.33	231.14	
	8/6/2004	SECOR		58.97	230.50	
	11/12/2004	SECOR		59.23	230.24	Marked with orange fencing
	3/11/2005	SECOR		59.25	230.22	Marked with orange fencing
	5/20/2005	SECOR		59.44	230.03	Marked with orange fencing
	8/5/2005	SECOR		60.35	229.12	
	11/11/2005	SECOR		58.38	231.09	No lock, marked with orange fencing
	2/9/2006	SECOR		58.42	231.05	
	5/18/2006	SECOR		58.63	230.84	
MW-26P	5/21/1987	CH2M Hill 1988	289.8	43.17	246.63	
	6/30/1987	CH2M Hill 1988		43.60	246.20	
	9/15/1987	CH2M Hill 1988		44.96	244.84	
	10/26/1987	CH2M Hill 1988		45.18	244.62	
	2/18/1988	CH2M Hill 1988		45.07	244.73	
	3/3/1988	CH2M Hill 1988		45.22	244.58	
	4/2/1988	CH2M Hill 1988		45.21	244.59	
	4/17/1995	Envirosolve	290.79	61.50	229.29	
	7/7/1995	Envirosolve		61.46	229.33	
	10/23/1995	Envirosolve		60.55	230.24	
	4/15/1996	Envirosolve		60.25	230.54	
	3/16/1998	Envirosolve		58.21	232.58	
	6/22/1998	Envirosolve	290.79	56.97	233.82	
	9/14/1998	Envirosolve		56.25	234.54	
	12/14/1998	Envirosolve		56.05	234.74	
	3/15/1999	IT		56.45	234.34	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		56.78	234.01	
	9/13/1999	IT		56.75	234.04	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		55.68	235.11	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		55.20	235.59	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		54.24	236.55	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		53.81	236.98	
	12/18/2000	IT		53.47	237.32	
	5/7/2001	IT		55.81	234.98	
	6/3/2002	SECOR		57.24	233.55	
	9/16/2002	SECOR		55.77	235.02	
	11/18/2002	SECOR		56.83	233.96	
	1/27/2003	SECOR		57.25	233.54	
	6/16/2003	SECOR		57.79	233.00	
	9/8/2003	SECOR		58.09	232.70	
	12/8/2003	SECOR		58.06	232.73	
	3/8/2004	SECOR		58.4	232.39	
	6/7/2004	SECOR		59.30	231.49	
	8/6/2004	SECOR		59.80	230.99	
	11/12/2004	SECOR		60.15	230.64	
	3/11/2005	SECOR		60.08	230.71	
	5/20/2005	SECOR		60.23	230.56	
	8/5/2005	SECOR		61.16	229.63	
	11/11/2005	SECOR		59.43	231.36	Pump is not functional
	2/9/2006	SECOR		59.47	231.32	
	5/18/2006	SECOR		59.52	231.27	
:7P	5/21/1987	CH2M Hill 1988	288.18	43.03	245.15	
	6/30/1987	CH2M Hill 1988		43.27	244.91	
	9/15/1987	CH2M Hill 1988		44.81	243.37	
	10/26/1987	CH2M Hill 1988		44.88	243.30	
	2/18/1988	CH2M Hill 1988		44.52	243.66	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-27P	3/3/1988	CH2M Hill 1988		44.77	243.41	
	4/2/1988	CH2M Hill 1988		45.36	242.82	
	4/17/1995	Envirosolve	288.19	61.00	227.19	
	7/7/1995	Envirosolve		61.26	226.93	
	10/23/1995	Envirosolve		59.89	228.30	
	4/15/1996	Envirosolve		59.76	228.43	
	3/15/1999	IT		56.01	232.18	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		56.57	231.62	
	9/13/1999	IT		56.05	232.14	Ref. Elev. = Water elev. + DTW
	8/5/2005	SECOR		NA	NA	
	11/11/2005	SECOR		NA	NA	Well is sealed
	2/9/2006	SECOR		NA	NA	
	5/18/2006	SECOR		NA	NA	Well is sealed
MW-30P	6/19/2000	IT	0.00	54.13	-54.13	Ref. Elev. = Water elev. + DTW
	5/7/2001	IT		55.51	-55.51	
	8/5/2005	SECOR		NA	NA	Not functional
	11/11/2005	SECOR		NA	NA	Not functional
	2/9/2006	SECOR		NA	NA	
	5/18/2006	SECOR		NA	NA	Not functional - no sounding port
MW-33P	5/21/1987	CH2M Hill 1988	287.86	44.23	243.63	
	6/30/1987	CH2M Hill 1988		44.46	243.40	
	9/15/1987	CH2M Hill 1988		46.17	241.69	
	10/26/1987	CH2M Hill 1988		45.95	241.91	
	2/18/1988	CH2M Hill 1988		45.63	242.23	
	3/3/1988	CH2M Hill 1988		45.90	241.96	
	4/2/1988	CH2M Hill 1988		48.76	239.10	
	4/17/1995	Envirosolve		61.44	226.42	
	9/13/1999	IT		56.79	231.07	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		56.21	231.65	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		55.72	232.14	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		54.74	233.12	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT	287.86	54.17	233.69	
	12/18/2000	IT		53.84	234.02	
	5/7/2001	IT		56.00	231.86	
	10/15/2001	IT		56.40	231.46	
	6/3/2002	SECOR		57.65	230.21	
	9/16/2002	SECOR		56.21	231.65	
	11/18/2002	SECOR		57.18	230.68	
	1/27/2003	SECOR		57.66	230.20	
	6/16/2003	SECOR		58.31	229.55	
	9/8/2003	SECOR		58.48	229.38	
	12/8/2003	SECOR		58.48	229.38	
	6/7/2004	SECOR		59.90	227.96	
	8/6/2004	SECOR		60.31	227.55	
	11/12/2004	SECOR		NA	NA	No sampling port
	3/11/2005	SECOR		60.24	227.62	
	5/20/2005	SECOR		60.71	227.15	Pump not functional
	8/5/2005	SECOR		61.61	226.25	
	11/11/2005	SECOR		60.10	227.76	Pump is not functional
	2/9/2006	SECOR		59.90	227.96	
	5/18/2006	SECOR		60.02	227.84	
MW-36	7/7/1995	Envirosolve	286.83	62.74	224.09	
	10/23/1995	Envirosolve		61.95	224.88	
	4/15/1996	Envirosolve		61.10	225.73	
	8/5/2005	SECOR		NA	NA	Unable to locate well
	11/11/2005	SECOR		NA	NA	Unable to locate well
	2/9/2006	SECOR		NA	NA	Unable to locate well
	5/18/2006	SECOR		NA	NA	Unable to locate well
MW-38	1/16/1995	Envirosolve	289.06	63.44	225.62	

Table 7
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-38	4/17/1995	Envirosolve		63.08	225.98	
	7/7/1995	Envirosolve		63.99	225.07	
	10/23/1995	Envirosolve		63.43	225.63	
	4/15/1996	Envirosolve		62.16	226.90	
	3/16/1998	Envirosolve	289.06	60.13	228.93	
	6/22/1998	Envirosolve		59.67	229.39	
	9/14/1998	Envirosolve		58.44	230.62	
	12/14/1998	Envirosolve		58.75	230.31	
	3/15/1999	IT		58.56	230.50	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		58.94	230.12	
	9/13/1999	IT		58.38	230.68	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		58.17	230.89	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		57.39	231.67	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.89	233.17	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.27	233.79	
	12/18/2000	IT		55.60	233.46	
	5/7/2001	IT		57.22	231.84	
	10/15/2001	IT		57.19	231.87	
	6/3/2002	SECOR		59.07	229.49	
	9/16/2002	SECOR		57.28	231.78	Micro Purge pump installed
	11/18/2002	SECOR		58.50	230.56	
	1/27/2003	SECOR		59.05	230.01	
	6/16/2003	SECOR		59.66	229.40	
	9/8/2003	SECOR		60.03	229.03	
	12/8/2003	SECOR		60.06	229.00	
	3/8/2004	SECOR		60.31	228.75	
	6/7/2004	SECOR		61.26	227.80	
	8/6/2004	SECOR		61.66	227.40	
	11/12/2004	SECOR		61.96	227.10	
	3/11/2005	SECOR		61.59	227.47	
	5/20/2005	SECOR		62.01	227.05	Sulfur pile nearby
	8/5/2005	SECOR		63.11	225.95	
	11/11/2005	SECOR		61.84	227.22	Sulfur pile nearby
	2/9/2006	SECOR		61.59	227.47	
	5/18/2006	SECOR		61.43	227.63	
MW-39	1/16/1995	Envirosolve	291.26	62.83	228.43	
	4/17/1995	Envirosolve		62.91	228.35	
	7/7/1995	Envirosolve		63.34	227.92	
	10/23/1995	Envirosolve		62.37	228.89	
	4/15/1996	Envirosolve		61.74	229.52	
	3/16/1998	Envirosolve		59.67	231.59	
	6/22/1998	Envirosolve		58.75	232.51	
	9/14/1998	Envirosolve		57.85	233.41	
	12/14/1998	Envirosolve		57.70	233.56	
	3/15/1999	IT		57.82	233.44	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		58.35	232.91	
	9/13/1999	IT		58.11	233.15	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		57.27	233.99	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.77	234.49	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.72	235.54	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.28	235.98	
	12/18/2000	IT		54.92	236.34	
	5/7/2001	IT		57.15	234.11	
	10/15/2001	IT	291.26	57.47	233.79	
	6/3/2002	SECOR		58.73	232.53	
	9/16/2002	SECOR		57.20	234.06	Micro Purge pump installed
	11/18/2002	SECOR		58.16	233.10	
	1/27/2003	SECOR		58.60	232.66	
	6/16/2003	SECOR		59.22	232.04	

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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-39	9/8/2003	SECOR		59.49	231.77	
	12/8/2003	SECOR		59.58	231.68	
	3/8/2004	SECOR		59.76	231.50	
	6/7/2004	SECOR		60.70	230.56	
	8/6/2004	SECOR		61.19	230.07	
	11/12/2004	SECOR		61.49	229.77	
	3/11/2005	SECOR		61.41	229.85	
	5/20/2005	SECOR		61.65	229.61	
	8/5/2005	SECOR		62.58	228.68	
	11/11/2005	SECOR		60.95	230.31	
	2/9/2006	SECOR		60.85	230.41	
	5/18/2006	SECOR		60.91	230.35	
MW-40	1/16/1995	Envirosolve	288.76	58.93	229.83	
	4/17/1995	Envirosolve		58.98	229.78	
	7/7/1995	Envirosolve		59.21	229.55	
	10/23/1995	Envirosolve		58.30	230.46	
	4/15/1996	Envirosolve		57.73	231.03	
	3/16/1998	Envirosolve		55.70	233.06	
	6/22/1998	Envirosolve		54.64	234.12	
	9/14/1998	Envirosolve		53.84	234.92	
	12/14/1998	Envirosolve		53.66	235.10	
	3/15/1999	IT	288.76	53.77	234.99	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		54.20	234.56	
	9/13/1999	IT		54.23	234.53	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		53.24	235.52	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		52.83	235.93	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		51.77	236.99	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		51.26	237.50	
	12/18/2000	IT		50.88	237.88	
	5/7/2001	IT		53.03	235.73	
	10/15/2001	IT		53.36	235.40	
	6/3/2002	SECOR		54.66	234.10	
	9/16/2002	SECOR		53.25	235.51	Micro Purge pump installed
	11/18/2002	SECOR		54.22	234.54	
	1/27/2003	SECOR		54.77	233.99	
	6/16/2003	SECOR		55.33	233.43	
	9/8/2003	SECOR		55.57	233.19	
	12/8/2003	SECOR		55.60	233.16	
	3/8/2004	SECOR		55.94	232.82	
	6/7/2004	SECOR		56.77	231.99	
	8/6/2004	SECOR		57.26	231.50	
	11/12/2004	SECOR		57.65	231.11	
	3/11/2005	SECOR		57.62	231.14	
	5/20/2005	SECOR		57.71	231.05	
	8/5/2005	SECOR		58.66	230.10	
	11/11/2005	SECOR		56.85	231.91	
	2/9/2006	SECOR		57.03	231.73	
	5/18/2006	SECOR		57.01	231.75	
MW-41	1/16/1995	Envirosolve	290.45	60.08	230.37	
	4/17/1995	Envirosolve		60.16	230.29	
	7/7/1995	Envirosolve		60.29	230.16	
	10/23/1995	Envirosolve		59.35	231.10	
	4/15/1996	Envirosolve		58.87	231.58	
	3/16/1998	Envirosolve		56.84	233.61	
	6/22/1998	Envirosolve		55.70	234.75	
	9/14/1998	Envirosolve		54.96	235.49	
	12/14/1998	Envirosolve		54.77	235.68	
	3/15/1999	IT		54.91	235.54	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		55.32	235.13	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-41	9/13/1999	IT		55.37	235.08	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		54.38	236.07	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		52.97	237.48	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		53.00	237.45	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		52.48	237.97	
	12/18/2000	IT		52.06	238.39	
	5/7/2001	IT		54.27	236.18	
	10/15/2001	IT		54.67	235.78	
	6/3/2002	SECOR		55.87	234.58	
	9/16/2002	SECOR		54.41	236.04	Micro Purge pump installed
	11/18/2002	SECOR		55.35	235.10	
	1/27/2003	SECOR		55.86	234.59	
	6/16/2003	SECOR		56.41	234.04	
	9/8/2003	SECOR	290.45	56.65	233.80	
	12/8/2003	SECOR		56.69	233.76	
	3/8/2004	SECOR		57.02	233.43	
	6/7/2004	SECOR		57.86	232.59	
	8/6/2004	SECOR		58.36	232.09	
	11/12/2004	SECOR		58.75	231.70	
	3/11/2005	SECOR		58.73	231.72	
	5/20/2005	SECOR		58.81	231.64	
	8/5/2005	SECOR		59.72	230.73	
	11/11/2005	SECOR		57.92	232.53	
	2/9/2006	SECOR		58.06	232.39	
	5/18/2006	SECOR		58.07	232.38	
nediate						
MW-23	1/16/1995	Envirosolve	287.93	59.30	228.63	
	4/17/1995	Envirosolve		59.97	227.96	
	7/7/1995	Envirosolve		60.08	227.85	
	10/23/1995	Envirosolve		58.71	229.22	
	4/15/1996	Envirosolve		58.55	229.38	
	3/16/1998	Envirosolve		56.36	231.57	
	6/22/1998	Envirosolve		55.19	232.74	
	9/14/1998	Envirosolve		54.44	233.49	
	3/15/1999	IT	287.93	56.75	231.18	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		57.44	230.49	
	9/13/1999	IT		56.94	230.99	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		55.93	232.00	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		55.53	232.40	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		54.84	233.09	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT	290.01	54.57	235.44	
	12/18/2000	IT		53.86	236.15	
	5/7/2001	IT		56.62	233.39	
	10/15/2001	IT		57.30	232.71	
	6/3/2002	SECOR		58.00	232.01	
	9/16/2002	SECOR		56.58	233.43	Micro Purge pump installed
	11/18/2002	SECOR		57.53	232.48	
	1/27/2003	SECOR		57.81	232.20	
	6/16/2003	SECOR		58.43	231.58	
	9/8/2003	SECOR		58.70	231.31	
	12/8/2003	SECOR		58.55	231.46	
	3/8/2004	SECOR		58.88	231.13	
	6/7/2004	SECOR		59.88	230.13	
	8/6/2004	SECOR		60.37	229.64	
	11/12/2004	SECOR		60.59	229.42	
	3/11/2005	SECOR		60.49	229.52	
	5/20/2005	SECOR		60.81	229.20	
	8/5/2005	SECOR		61.73	228.28	
	11/11/2005	SECOR		59.90	230.11	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-23	2/9/2006	SECOR		59.85	230.16	
	5/18/2006	SECOR		60.02	229.99	
MW-34I	1/16/1995	Envirosolve	288.57	62.65	225.92	
	4/17/1995	Envirosolve		62.65	225.92	
	7/7/1995	Envirosolve		63.51	225.06	
	10/23/1995	Envirosolve		62.28	226.29	
	4/15/1996	Envirosolve		61.79	226.78	
	3/16/1998	Envirosolve		59.38	229.19	
	6/22/1998	Envirosolve		58.89	229.68	
	9/14/1998	Envirosolve		57.91	230.66	
	12/14/1998	Envirosolve		57.87	230.70	
	3/15/1999	IT		57.95	230.62	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		58.42	230.15	
	9/13/1999	IT		57.86	230.71	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		57.45	231.12	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.94	231.63	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.99	232.58	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.65	232.92	
	12/18/2000	IT		55.25	233.32	
	5/7/2001	IT		57.45	231.12	
	10/15/2001	IT		57.91	230.66	
	6/3/2002	SECOR		59.15	229.42	
	9/16/2002	SECOR		57.59	230.98	Micro Purge pump installed
	11/18/2002	SECOR		58.48	230.09	
	1/27/2003	SECOR		58.99	229.58	
	6/16/2003	SECOR		59.64	228.93	
	9/8/2003	SECOR		60.00	228.57	
	12/8/2003	SECOR		59.75	228.82	
	3/8/2004	SECOR		60.14	228.43	
	6/7/2004	SECOR		61.26	227.31	
	8/6/2004	SECOR		61.62	226.95	
	11/12/2004	SECOR		61.72	226.85	
	3/11/2005	SECOR		61.54	227.03	
	5/20/2005	SECOR		62.00	226.57	
	8/5/2005	SECOR		62.76	225.81	
	11/11/2005	SECOR		61.40	227.17	
	2/9/2006	SECOR		61.20	227.37	
	5/18/2006	SECOR		61.34	227.23	
Deep						
MW-2D	12/28/1987	CH2M Hill 1988	289.74	39.83	249.91	
	1/14/1988	CH2M Hill 1988		39.85	249.89	
	2/18/1988	CH2M Hill 1988		39.90	249.84	
	3/3/1988	CH2M Hill 1988		40.04	249.70	
	4/2/1988	CH2M Hill 1988		39.72	250.02	
	7/7/1995	Envirosolve	289.69	56.49	233.20	
	10/23/1995	Envirosolve		55.21	234.48	
	4/15/1996	Envirosolve		55.28	234.41	
	3/16/1998	Envirosolve		53.29	236.40	
	6/22/1998	Envirosolve		51.59	238.10	
	9/14/1998	Envirosolve		51.11	238.58	
	12/14/1998	Envirosolve		50.87	238.82	
	3/15/1999	IT		51.47	238.22	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT	289.69	51.75	237.94	
	9/13/1999	IT		51.75	237.94	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		50.75	238.94	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		50.76	238.93	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		49.76	239.93	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		49.28	240.41	
	12/18/2000	IT		48.91	240.78	

Table 7
Historical Water Level Measurements and Elevations
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-2D	5/7/2001	IT	289.69	51.24	238.45	
	10/15/2001	IT		52.23	237.46	
	6/3/2002	SECOR	289.61	52.94	236.67	
	9/16/2002	SECOR		52.13	237.48	Micro Purge pump installed
	11/18/2002	SECOR		53.06	236.55	
	1/27/2003	SECOR		53.25	236.36	
	6/16/2003	SECOR		53.80	235.81	
	9/8/2003	SECOR		53.90	235.71	
	12/8/2003	SECOR		53.98	235.63	
	3/8/2004	SECOR		54.32	235.29	
	6/7/2004	SECOR		55.19	234.42	
	8/6/2004	SECOR		55.67	233.94	
	11/12/2004	SECOR		56.07	233.54	
	3/11/2005	SECOR		56.10	233.51	
	5/20/2005	SECOR		54.61	235.00	Well housing damaged
	8/5/2005	SECOR		56.53	233.08	Concrete well box destroyed
	11/11/2005	SECOR		54.05	235.56	Well box repaired
	2/9/2006	SECOR		54.81	234.80	
	5/18/2006	SECOR		54.75	234.86	
MW-5D	8/7/1984	Harding Lawson Associates 1986	296.75	48.95	247.80	
	9/11/1984	Harding Lawson Associates 1986		48.68	248.07	
	9/14/1984	Harding Lawson Associates 1986		48.65	248.10	
	5/27/1986	CH2M Hill 1988	269.71	19.89	249.82	
	7/9/1986	CH2M Hill 1988		20.25	249.46	
	8/11/1986	CH2M Hill 1988		20.17	249.54	
	8/22/1986	CH2M Hill 1988		20.19	249.52	
	9/23/1986	CH2M Hill 1988		20.14	249.57	
	10/21/1986	CH2M Hill 1988		19.96	249.75	
	11/14/1986	CH2M Hill 1988		20.13	249.58	
	12/22/1986	CH2M Hill 1988		20.25	249.46	
	1/19/1987	CH2M Hill 1988		20.1	249.61	
	2/17/1987	CH2M Hill 1988		20.13	249.58	
	4/10/1987	CH2M Hill 1988		19.79	249.92	
	4/28/1987	CH2M Hill 1988		19.97	249.74	
	5/21/1987	CH2M Hill 1988	296.71	47.03	249.68	
	6/30/1987	CH2M Hill 1988		47.03	249.68	
	8/17/1987	CH2M Hill 1988		47.52	249.19	
	9/15/1987	CH2M Hill 1988		48.52	248.19	
	10/26/1987	CH2M Hill 1988		48.9	247.81	
	12/28/1987	CH2M Hill 1988		48.95	247.76	
	1/14/1988	CH2M Hill 1988		48.93	247.78	
	2/18/1988	CH2M Hill 1988		49	247.71	
	3/3/1988	CH2M Hill 1988		48.71	248.00	
	4/2/1988	CH2M Hill 1988		48.63	248.08	
	6/14/1999	IT	296.66	61.1	235.56	
	9/13/1999	IT		61.03	235.63	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		59.94	236.72	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		59.63	237.03	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		58.95	237.71	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		58.42	238.24	
	12/18/2000	IT		57.64	239.02	
	5/7/2001	IT	301.71	65.59	236.12	
	10/15/2001	IT		66.39	235.32	
	6/3/2002	SECOR	301.60	67.17	234.43	
	9/16/2002	SECOR	307.76	71.82	235.94	Micro Purge pump installed, TOC was elevated
	11/18/2002	SECOR		72.62	235.14	
	1/27/2003	SECOR		73.01	234.75	
	6/16/2003	SECOR		73.65	234.11	
	9/8/2003	SECOR		73.82	233.94	

Table 7
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-5D	12/8/2003	SECOR		73.76	234.00	
	3/8/2004	SECOR		74.04	233.72	
	6/7/2004	SECOR		74.99	232.77	
	8/6/2004	SECOR		75.54	232.22	
	11/12/2004	SECOR		75.85	231.91	
	3/11/2005	SECOR		75.88	231.88	
	5/20/2005	SECOR		75.92	231.84	
	8/5/2005	SECOR		76.70	231.06	
	11/11/2005	SECOR		74.70	233.06	
	2/9/2006	SECOR		74.93	232.83	
	5/18/2006	SECOR		75.02	232.74	
MW-6D	12/28/1987	CH2M Hill 1988	296.94	48.57	248.37	
	1/14/1988	CH2M Hill 1988	296.94	48.60	248.34	
	2/18/1988	CH2M Hill 1988		48.68	248.26	
	3/3/1988	CH2M Hill 1988		48.70	248.24	
	4/2/1988	CH2M Hill 1988		48.50	248.44	
	1/16/1995	Envirosolve		64.95	231.99	
	4/17/1995	Envirosolve	296.68	65.49	231.19	
	7/7/1995	Envirosolve		65.17	231.51	
	10/23/1995	Envirosolve		63.94	232.74	
	4/15/1996	Envirosolve		63.98	232.70	
	3/16/1998	Envirosolve		61.87	234.81	
	6/22/1998	Envirosolve		60.35	236.33	
	9/14/1998	Envirosolve		59.81	236.87	
	12/14/1998	Envirosolve		59.66	237.02	
	6/14/1999	IT		60.46	236.22	
	6/19/2000	IT		58.11	238.57	
	9/11/2000	IT		57.93	238.75	
	12/18/2000	IT		57.17	239.51	
	5/7/2001	IT	299.41	62.70	236.71	
	10/15/2001	IT		63.28	236.13	
	6/3/2002	SECOR	296.66	61.51	235.15	
	9/16/2002	SECOR	306.72	70.26	236.46	Micro Purge pump installed; TOC was elevated
	11/18/2002	SECOR		71.13	235.59	
	1/27/2003	SECOR		71.49	235.23	
	6/16/2003	SECOR		72.09	234.63	
	9/8/2003	SECOR		72.31	234.41	
	12/8/2003	SECOR		72.09	234.63	
	3/8/2004	SECOR		72.56	234.16	
	6/7/2004	SECOR		73.38	233.34	
	8/6/2004	SECOR		74.03	232.69	
	11/12/2004	SECOR		74.32	232.40	
	3/11/2005	SECOR		74.47	232.25	
	5/20/2005	SECOR		74.32	232.40	
	8/5/2005	SECOR		75.11	231.61	
	11/11/2005	SECOR		73.16	233.56	
	2/9/2006	SECOR		73.34	233.38	
	5/18/2006	SECOR		73.41	233.31	
MW-28P	5/21/1987	CH2M Hill 1988	290.79	44.98	245.81	
	6/30/1987	CH2M Hill 1988		45.16	245.63	
	9/15/1987	CH2M Hill 1988		46.58	244.21	
	10/26/1987	CH2M Hill 1988		46.71	244.08	
	2/18/1988	CH2M Hill 1988		46.50	244.29	
	3/3/1988	CH2M Hill 1988		46.70	244.09	
	4/2/1988	CH2M Hill 1988		47.00	243.79	
	1/16/1995	Envirosolve		62.27	228.52	
	4/17/1995	Envirosolve	290.76	62.95	227.81	
	7/7/1995	Envirosolve		63.15	227.61	
	10/23/1995	Envirosolve		61.99	228.77	

Table 7
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-28P	4/15/1996	Envirosolve		61.62	229.14	
	3/16/1998	Envirosolve		60.46	230.30	
	6/14/1999	IT		58.46	232.30	
	9/13/1999	IT		57.89	232.87	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		57.15	233.61	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.71	234.05	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.82	234.94	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.45	235.31	
	12/18/2000	IT		54.98	235.78	
	5/7/2001	IT	290.76	57.45	233.31	
	10/15/2001	IT		57.85	232.91	
	6/3/2002	SECOR		58.91	231.85	
	9/16/2002	SECOR		57.41	233.35	
	11/18/2002	SECOR		58.43	232.33	
	1/27/2003	SECOR		58.83	231.93	
	6/16/2003	SECOR		59.43	231.33	
	9/8/2003	SECOR		59.74	231.02	
	12/8/2003	SECOR		59.69	231.07	
	3/8/2004	SECOR		59.96	230.80	
	6/7/2004	SECOR		60.66	230.10	
	8/6/2004	SECOR		61.41	229.35	
	11/12/2004	SECOR		61.65	229.11	
	3/11/2005	SECOR		61.53	229.23	
	5/20/2005	SECOR		61.86	228.90	Debris around casing
	8/5/2005	SECOR		62.75	228.01	
	11/11/2005	SECOR		61.08	229.68	Debris around casing
	2/9/2006	SECOR		60.99	229.77	West Coast Waste; Casing area clean
	5/18/2006	SECOR		61.10	229.66	
MW-29P	5/21/1987	CH2M Hill 1988	288.88	44.83	244.05	
	6/30/1987	CH2M Hill 1988		45.04	243.84	
	9/15/1987	CH2M Hill 1988		46.77	242.11	
	10/26/1987	CH2M Hill 1988	288.88	46.56	242.32	
	2/18/1988	CH2M Hill 1988		46.22	242.66	
	3/3/1988	CH2M Hill 1988		46.47	242.41	
	4/2/1988	CH2M Hill 1988		48.05	240.83	
	4/17/1995	Envirosolve		62.40	226.48	
	4/15/1996	Envirosolve		61.32	227.56	
	6/22/1998	Envirosolve		58.20	230.68	
	6/14/1999	IT		58.03	230.85	
	9/13/1999	IT		57.58	231.30	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		56.84	232.04	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.38	232.50	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.07	233.81	
	12/18/2000	IT		54.57	234.31	
	5/7/2001	IT		56.97	231.91	
	10/15/2001	IT		57.52	231.36	
	6/3/2002	SECOR		58.62	230.26	
	9/16/2002	SECOR		57.22	231.66	
	11/18/2002	SECOR		58.03	230.85	
	1/27/2003	SECOR		58.51	230.37	
	6/16/2003	SECOR		59.14	229.74	
	9/8/2003	SECOR		59.35	229.53	
	3/8/2004	SECOR		59.61	229.27	
	6/7/2004	SECOR		60.74	228.14	
	8/6/2004	SECOR		61.14	227.74	
	11/12/2004	SECOR		61.20	227.68	
	3/11/2005	SECOR		61.01	227.87	
	5/20/2005	SECOR		61.51	227.37	
	8/5/2005	SECOR		62.28	226.60	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
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Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-29P	11/11/2005	SECOR		60.77	228.11	Pump not functional
	2/9/2006	SECOR		60.63	228.25	
	5/18/2006	SECOR		60.81	228.07	
MW-34D	1/16/1995	Envirosolve			225.90	
	4/17/1995	Envirosolve	288.61	62.65	225.96	
	7/7/1995	Envirosolve		63.50	225.11	
	10/23/1995	Envirosolve		62.27	226.34	
	4/15/1996	Envirosolve		61.79	226.82	
	3/16/1998	Envirosolve		59.37	229.24	
	6/22/1998	Envirosolve		58.88	229.73	
	9/14/1998	Envirosolve		57.91	230.70	
	12/14/1998	Envirosolve		57.86	230.75	
	3/15/1999	IT		57.94	230.67	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		58.41	230.20	
	9/13/1999	IT		57.85	230.76	Ref. Elev. = Water elev. + DTW
	12/13/1999	IT		57.44	231.17	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.94	231.67	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.97	232.64	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.42	233.19	
	12/18/2000	IT		55.27	233.34	
	5/7/2001	IT		57.48	231.13	
	10/15/2001	IT		57.91	230.70	
	6/3/2002	SECOR		59.18	229.43	
	9/16/2002	SECOR		57.56	231.05	Micro Purge pump installed
	11/18/2002	SECOR		58.46	230.15	
	1/27/2003	SECOR		58.96	229.65	
	6/16/2003	SECOR		59.61	229.00	
	9/8/2003	SECOR		59.99	228.62	
	12/8/2003	SECOR		59.73	228.88	
	3/8/2004	SECOR		60.12	228.49	
	6/7/2004	SECOR		61.26	227.35	
	8/6/2004	SECOR		61.60	227.01	
	11/12/2004	SECOR		61.69	226.92	
	3/11/2005	SECOR		61.48	227.13	
	5/20/2005	SECOR		61.98	226.63	
	8/5/2005	SECOR		62.75	225.86	
	11/11/2005	SECOR		61.37	227.24	
	2/9/2006	SECOR		61.17	227.44	
	5/18/2006	SECOR		61.31	227.30	
Unknown Depth						
EPA-3	2/28/1982	USEPA-ERT 1982	300.72	48.59	252.13	
EPA-5	2/28/1982	USEPA-ERT 1982	299.15	47.75	251.40	
EPA-6	2/28/1982	USEPA-ERT 1982	300.04	47.34	252.70	
EPA-7	2/28/1982	USEPA-ERT 1982	300.47	49.16	251.31	
	8/7/1984	Harding Lawson Associates 1986	289.33	43.18	246.15	
	9/11/1984	Harding Lawson Associates 1986		42.87	246.46	
	9/14/1984	Harding Lawson Associates 1986		42.92	246.41	
MW-1P	5/21/1987	CH2M Hill 1988	292.50	10.14	252.36	
	6/30/1987	CH2M Hill 1988		40.11	252.39	
	2/18/1988	CH2M Hill 1988	292.50	41.90	250.60	
	3/13/1988	CH2M Hill 1988		42.12	250.38	
	4/2/1988	CH2M Hill 1988		41.60	250.90	
MW-15	8/7/1984	Harding Lawson Associates 1986	289.98	42.84	247.14	Buried under scrap metal
	9/11/1984	Harding Lawson Associates 1986		42.57	247.41	
	9/14/1984	Harding Lawson Associates 1986		42.60	247.38	
	5/27/1986	CH2M Hill 1988	290.08	40.85	249.23	
	7/9/1986	CH2M Hill 1988		41.43	248.65	
	8/22/1986	CH2M Hill 1988		41.23	248.85	
	9/23/1986	CH2M Hill 1988		41.18	248.90	

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-15	10/21/1986	CH2M Hill 1988		41.06	249.02	
	11/14/1986	CH2M Hill 1988		41.02	249.06	
	12/22/1986	CH2M Hill 1988		41.21	248.87	
	1/19/1987	CH2M Hill 1988		41.02	249.06	
	2/17/1987	CH2M Hill 1988		41.03	249.05	
	4/10/1987	CH2M Hill 1988		40.83	249.25	
	4/28/1987	CH2M Hill 1988		40.95	249.13	
	5/21/1987	CH2M Hill 1988		40.96	249.12	
	6/30/1987	CH2M Hill 1988		41.25	248.83	
	8/17/1987	CH2M Hill 1988		40.45	249.63	
	9/15/1987	CH2M Hill 1988		42.48	247.60	
	10/26/1987	CH2M Hill 1988		42.83	247.25	
	12/28/1987	CH2M Hill 1988		42.91	247.17	
	1/14/1988	CH2M Hill 1988		42.92	247.16	
	2/18/1988	CH2M Hill 1988		42.95	247.13	
	3/3/1988	CH2M Hill 1988		42.68	247.40	
	4/2/1988	CH2M Hill 1988		42.68	247.40	
	8/5/2005	SECOR		NA	NA	Buried under scrap metal
	11/11/2005	SECOR		NA	NA	Buried under scrap metal
	2/9/2006	SECOR		NA	NA	Buried under scrap metal
	5/18/2006	SECOR		NA	NA	Buried under scrap metal
MW-17	12/28/1987	CH2M Hill 1988	289.84	43.15	246.69	
	1/14/1988	CH2M Hill 1988		43.07	246.77	
	2/18/1988	CH2M Hill 1988		43.20	246.64	
	3/3/1988	CH2M Hill 1988		42.87	246.97	
	4/2/1988	CH2M Hill 1988		43.00	246.84	
	8/5/2005	SECOR		NA	NA	Buried under scrap metal
	11/11/2005	SECOR		NA	NA	Buried under scrap metal
	2/9/2006	SECOR		NA	NA	Buried under scrap metal
	5/18/2006	SECOR		NA	NA	Buried under scrap metal
MW-22P	5/21/1987	CH2M Hill 1988	289.73	41.45	248.28	
	2/18/1988	CH2M Hill 1988		43.13	246.60	
	3/3/1988	CH2M Hill 1988		43.27	246.46	
	4/2/1988	CH2M Hill 1988		43.22	246.51	
	6/14/1999	IT	289.71	54.98	234.73	
	9/13/1999	IT		84.87	234.84	Ref. Elev. = Water elev. + DTW
	8/5/2005	SECOR		NA	NA	Obstructed
	11/11/2005	SECOR		NA	NA	Obstructed
	2/9/2006	SECOR		NA	NA	Obstructed
	5/18/2006	SECOR		NA	NA	Obstructed
MW-31P	5/21/1987	CH2M Hill 1988	290.47	45.25	245.22	
	6/30/1987	CH2M Hill 1988		46.18	244.29	
	9/15/1987	CH2M Hill 1988		46.89	243.58	
	10/26/1987	CH2M Hill 1988		47.01	243.46	
	2/18/1988	CH2M Hill 1988		46.75	243.72	
	3/3/1988	CH2M Hill 1988		47.00	243.47	
	4/2/1988	CH2M Hill 1988		47.16	243.31	
	1/16/1995	Envirosolve		62.95	227.52	
	4/17/1995	Envirosolve	290.44	62.92	227.52	
	7/7/1995	Envirosolve		63.28	227.16	
	10/23/1995	Envirosolve		62.53	227.91	
	4/15/1996	Envirosolve		61.77	228.67	
	3/16/1998	Envirosolve		59.76	230.68	
	6/22/1998	Envirosolve		58.74	231.70	
	9/14/1998	Envirosolve		57.89	232.55	
	12/14/1998	Envirosolve		57.86	232.58	
	3/15/1999	IT		57.98	232.46	Ref. Elev. = Water elev. + DTW
	6/14/1999	IT		58.41	232.03	
	9/13/1999	IT		58.11	232.33	Ref. Elev. = Water elev. + DTW

Table 7
Historical Water Level Measurements and Elevations
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Consultant	Top of Casing (ft msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft msl)	Comments
MW-31P	13/13/1999	IT		57.40	233.04	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.81	233.63	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT	290.44	55.58	234.86	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		55.10	235.34	
	12/18/2000	IT		54.96	235.48	
	5/7/2001	IT		57.06	233.38	
	10/15/2001	IT		57.20	233.24	
	6/3/2002	SECOR		58.69	231.75	
	9/16/2002	SECOR		57.10	233.34	
	11/18/2002	SECOR		58.18	232.26	
	1/27/2003	SECOR		58.72	231.72	
	6/16/2003	SECOR		59.33	231.11	
	9/8/2003	SECOR		59.63	230.81	
	12/8/2003	SECOR		59.60	230.84	
	3/8/2004	SECOR		59.92	230.52	
	6/7/2004	SECOR		60.87	229.57	
	8/6/2004	SECOR		61.19	229.25	
	11/12/2004	SECOR		61.59	228.85	Casing rusting out, holes on side
	3/11/2005	SECOR		61.39	229.05	
	5/20/2005	SECOR		61.68	228.76	Concrete cracked, casing rotting
	8/5/2005	SECOR		62.71	227.73	
	11/11/2005	SECOR		61.22	229.22	Concrete cracked, casing rotting
	2/9/2006	SECOR		61.50	228.94	
	5/18/2006	SECOR		61.06	229.38	
MW-32P	5/21/1987	CH2M Hill 1988	287.85	44.64	243.21	
	6/30/1987	CH2M Hill 1988		44.93	242.92	
	2/18/1988	CH2M Hill 1988		46.30	241.55	
	3/3/1988	CH2M Hill 1988		46.47	241.38	
	4/2/1988	CH2M Hill 1988		54.17	233.68	
	4/17/1995	Envirosolve		61.90	225.95	
	4/15/1996	Envirosolve		60.92	226.93	
	6/14/1999	IT		57.70	230.15	
	9/13/1999	IT		57.23	230.62	Ref. Elev. = Water elev. + DTW
	3/13/2000	IT		56.15	231.70	Ref. Elev. = Water elev. + DTW
	6/19/2000	IT		55.22	232.63	Ref. Elev. = Water elev. + DTW
	9/11/2000	IT		54.67	233.18	
	12/18/2000	IT		54.40	233.45	
	5/7/2001	IT		56.45	231.40	
	6/3/2002	SECOR		58.1	229.75	
	9/16/2002	SECOR		56.78	231.07	
	11/18/2002	SECOR		57.61	230.24	
	1/27/2003	SECOR		58.14	229.71	
	6/16/2003	SECOR		58.78	229.07	
	9/8/2003	SECOR		59.26	228.59	
	12/8/2003	SECOR		58.99	228.86	
	3/8/2004	SECOR		59.31	228.54	
	6/10/2004	SECOR		60.32	227.53	
	8/12/2004	SECOR		60.84	227.01	
	11/12/2004	SECOR		60.95	226.90	
	3/11/2005	SECOR		NA	NA	Unable to access property
	5/20/2005	SECOR		61.21	226.64	
	8/5/2005	SECOR		NA	NA	No property access
	11/11/2005	SECOR		NA	NA	Unable to access property
	2/9/2006	SECOR		60.42	227.43	Sierra Nevada Trailers; OK
	5/25/2006	SECOR		60.57	227.28	Gauged during sampling

Notes

ft msl = feet above mean sea level
NA = Not Available
elev. = elevation
TOC = top of casing
Ref. Elev. = reference elevation
DTW = depth to water

Table 8
Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron	Manganese	Arsenic	Selenium
	ROD/MCL/RG		1	5	0.5	6	6	10	5	0.5	300	50	10	50
Extraction Wells (shallow)														
EW-1	5/24/2006	FS	**1.1**	**2.3**	**0.9**	**0.2 J**	**88**	**1.6**	**1.3**	**0.7**	**2,100**	**992**	**10.3 J**	<9.4
EW-2	5/24/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**15.9**	<9.3	<9.4
Shallow														
MW-2S	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-6S	5/24/2006	FS	**0.7 J**	**5.9**	**3.0**	<0.5	**70**	**0.7 J**	**0.8 J**	**0.7 J**	**1,660**	**2,910**	<9.3	<9.4
MW-7S	5/25/2006	FS	**0.8**	**0.6**	**0.4 J**	<0.1	**23**	**0.6**	**0.6**	**0.1 J**	**1,770**	**846**	**23**	<9.4
MW-8	5/24/2006	FS	**0.1 J**	**1.4**	**0.2 J**	<0.1	**2.2**	<0.1	**1.0**	<0.1	**89.1 J**	**103**	<9.3	<9.4
MW-10	5/23/2006	FS	**3.9**	**4.2**	**5.4**	**0.3 J**	**110**	**2.4**	**0.4 J**	**0.7**	**6,050**	**1,670**	<9.3	<9.4
MW-16	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**5.4**	<9.3	<9.4
MW-19	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**1.5 J**	<9.3	<9.4
MW-25	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**107**	<9.3	<9.4
MW-34S	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
Shallow to Intermediate														
MW-7I	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MWD2-57 (MW-7I)	5/23/2006	FD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	**10.4 J**	<9.4
MW-9	5/23/2006	FS	<0.1	**0.2 J**	**0.2 J**	<0.1	**2.3**	<1.0	**0.1 J**	<0.1	<66.7	**216**	<9.3	<9.4
MW-11	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**12.7**	<9.3	<9.4
MW-13	NS	FS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	**9.8 J**	<9.4
MW-21	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-38	5/19/2006	FS	<0.1	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-39	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**1.2 J**	<9.3	<9.4
MW-40	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**21.8**	<9.3	<9.4
MW-41	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**204**	**680**	<9.3	<9.4
MWD1-57 (MW-41)	5/19/2006	FD	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**166 J**	**684**	<9.3	<9.4
Intermediate														
MW-23	5/22/2006	FS	<0.1	**0.3 J**	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**226**	<9.3	<9.4
MW-34I	5/22/2006	FS	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**3.3 J**	<9.3	<9.4
Deep														
MW-2D	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**3.3 J**	<9.3	<9.4
MW-5D	5/24/2006	FS	<0.1	**0.1 J**	<0.1	<0.1	**0.1 J**	<0.1	<0.1	<0.1	<66.7	**243**	<9.3	<9.4
MW-6D	5/24/2006	FS	<0.1	**2.9**	**0.3 J**	<0.1	**4.2**	<0.1	**3.7**	<0.1	<66.7	**53.5**	<9.3	<9.4
MWD3-57 (MW-6D)	5/24/2006	FD	<0.1	**2.9**	**0.3 J**	<0.1	**4.1**	<0.1	**3.6**	<0.1	**76.2 J**	**54.3**	<9.3	<9.4
MW-28P	5/25/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<52.2	**0.37 J**	<10	<9.4
MW-34D	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
Unknown Depth														
MW-32P	5/25/2006	FS	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<52.2	**6.3**	<10	<9.4

Notes:

All results are reported in micrograms/liter (µg/L)

ROD/MCL/RG = Record of Decision/Maximum Contaminant Level/Remedial Goal

FS = Field Sample

FD = Field Duplicate

NS = Well not sampled due to insufficient water

J = estimated value - The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

Bold Results = Detected values reported below the constituents' MCL/ROD/RG.

Bold Outlined Results = Values reported above the constituents' MCL/ROD/RG.

<0.1 indicates no detectable concentrations at or below corresponding MDL.

Table 9
pH Field Measurements
Purity Oil Sales Superfund Site, Malaga, California
May 2006

Well ID	May 2001	Oct. 2001	June 2002	Sept. 2002	Nov. 2002	Jan. 2003	June 2003	Sept. 2003	Dec. 2003	March 2004	June 2004	Aug. 2004	Nov. 2004	March 2005	May 2005	Aug. 2005	Nov. 2005	Feb. 2006	May 2006
Extraction Wells (shallow)																			
EW-1	6.83	6.18	6.47	6.90	6.60	7.37	6.98	7.42	6.98	6.86	7.15	7.29	6.99	6.77	6.53	6.63	6.66	6.78	6.77
EW-2	6.91	6.12	7.09	7.53	7.02	7.53	7.30	7.00	7.45	7.04	7.16	7.37	7.22	7.06	7.32	7.16	7.05	7.06	7.20
Shallow Wells																			
MW-2S	7.04	6.65	6.80	6.81	6.23	6.63	6.42	7.45	6.86	6.53	7.38	6.97	6.65	6.54	6.56	7.22	6.78	6.51	6.49
MW-3	6.89	6.11	6.65	6.83	6.74	7.49	6.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5S	6.93	NS	6.54	6.82	6.67	6.71	6.59	7.54	6.74	7.20	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6S	6.76	6.14	6.57	6.61	6.53	6.66	6.21	7.05	6.56	7.12	6.76	6.54	6.69	6.66	6.95	6.56	6.62	6.66	6.65
MW-7S	7.07	6.25	6.72	6.81	6.78	6.84	6.59	7.25	6.94	7.11	7.30	6.71	7.03	7.25	7.46	6.85	6.80	6.89	6.89
MW-8	6.74	6.10	6.68	6.71	6.62	6.70	6.45	7.13	6.74	6.76	6.81	6.61	6.68	6.53	6.92	6.63	6.62	6.57	6.67
MW-10	6.95	6.20	6.85	6.53	6.26	6.37	6.13	6.85	6.64	6.48	6.57	**6.28**	6.52	6.66	6.71	6.62	6.50	6.90	6.62
MW-16	7.01	6.37	6.83	6.84	6.83	6.93	6.82	7.66	6.90	7.09	6.61	6.32	6.62	6.59	6.53	6.44	6.59	**6.44**	6.51
MW-19	7.22	6.60	7.23	7.12	7.37	7.20	6.99	7.87	7.45	7.30	7.13	7.11	7.40	7.51	7.70	7.62	7.39	7.41	7.52
MW-25	7.08	6.47	7.01	6.98	7.08	6.96	6.60	7.63	7.36	7.10	6.70	7.20	7.23	7.43	7.88	7.50	7.06	7.05	7.33
MW-34S	7.33	6.52	7.19	6.93	6.90	6.97	6.84	7.22	7.15	6.99	6.75	7.50	7.18	7.25	7.43	7.44	7.06	7.50	7.59
Shallow to Intermediate																			
MW-7I	**6.70**	NS	7.11	7.20	6.91	7.09	6.85	7.54	7.28	7.39	7.61	6.96	7.34	7.38	7.61	7.36	7.16	7.28	7.16
MW-9	6.88	6.28	6.86	7.00	6.52	7.05	6.69	7.63	7.26	7.15	6.98	6.73	7.22	7.19	7.25	7.52	7.08	6.65	6.95
MW-11	6.75	6.53	7.16	7.09	6.67	6.96	6.91	7.66	7.37	7.04	6.51	6.84	7.23	7.31	7.31	7.27	7.04	7.01	7.05
MW-13	7.64	6.66	7.56	7.37	6.99	7.19	6.96	7.94	7.50	7.47	7.15	7.03	7.43	7.47	7.49	7.62	7.21	7.09	NS
MW-20	**7.85**	7.19	**7.95**	7.61	7.43	7.63	7.31	**8.54**	**8.01**	**7.75**	**7.91**	9.06*	**7.88**	**7.84**	7.80	**7.80**	7.00	7.57	**8.05**
MW-21	7.28	6.64	7.37	7.04	7.04	7.11	6.97	7.93	7.31	7.21	7.26	10.44*	7.36	7.41	7.28	7.34	7.24	7.24	7.32
MW-38	7.37	6.75	7.18	6.93	6.94	6.71	6.98	7.33	7.06	6.86	6.92	6.99	6.98	7.06	7.03	7.37	7.04	6.99	7.05
MW-39	7.27	6.04	6.82	6.67	6.69	6.65	6.63	6.95	6.93	6.98	6.65	7.15	6.84	6.87	6.68	6.88	6.93	6.90	6.86
MW-40	6.71	**5.45**	6.55	6.35	6.40	6.31	6.26	7.08	6.65	**6.41**	**6.25**	6.93	6.64	6.67	6.87	6.76	6.62	6.64	6.78
MW-41	6.78	5.92	**6.08**	**5.91**	**6.13**	**5.90**	**5.67**	**6.59**	**6.35**	6.62	6.32	7.68	**6.15**	**6.29**	**6.45**	**6.25**	**6.07**	6.55	**6.19**
Intermediate Wells																			
MW-23	NA	6.70	7.60	7.34	7.26	7.36	7.04	8.08	7.57	7.38	7.40	9.47*	7.45	7.45	7.28	7.34	7.34	6.94	7.21
MW-34I	NA	6.66	7.54	7.27	7.27	7.40	7.23	7.54	7.55	7.36	7.31	**7.76**	7.46	7.43	7.73	7.72	7.37	7.37	7.67
Deep Wells																			
MW-2D	NA	6.94	7.09	7.45	7.35	7.15	6.83	7.86	7.46	6.82	7.70	7.50	7.28	7.40	7.36	7.55	7.54	7.49	7.44
MW-5D	6.72	6.35	7.01	7.14	6.97	7.16	6.84	7.78	7.12	7.62	7.34	7.06	7.27	7.18	7.54	7.24	7.13	7.08	7.16
MW-6D	NA	6.64	7.20	**8.13**	**7.86**	**7.80**	7.45	8.44	7.67	7.18	7.71	7.37	7.64	7.52	**7.90**	7.74	**7.69**	**7.74**	7.82
MW-28P	NA	**7.56**	7.61	7.58	7.41	7.21	7.36	8.20	7.55	7.42	7.02	7.13	7.51	7.37	7.65	7.55	7.46	7.44	7.40
MW-34D	NA	6.79	7.56	7.25	7.29	7.48	7.23	8.05	7.62	7.35	7.40	7.65	7.55	7.43	7.76	7.51	7.43	7.39	7.71
Unknown Depth																			
MW-32P	NA	7.38	7.56	7.50	7.31	7.11	**7.55**	8.14	7.51	7.22	6.76	7.13	7.49	NS	7.71	NS	NS	7.42	7.39

Bold = Highest and lowest pH values NS = Not sampled during this event. NA = Not Available * Questionable value due to possible instrument malfunction.

Table 10
Monitored Natural Attenuation Parameters - May 2006
Groundwater Monitoring Wells
Purity Oil Sales, Malaga, California

	Field Parameters						Lab Analysis																
Well ID	DO (mg/L)	ORP (mV)	Temperature (oC)	EC (mS/cm)	pH	Fe II (mg/L)	Dissolved Iron (µg/L)	Manganese (µg/L)	Fe II (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Alkalinity (mg/L)	Total Organic Carbon (mg/L)	Methane (µg/L)	Carbon dioxide (µg/L)	Hydrogen (mg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl chloride (µg/L)	1,2 DCA (µg/L)	Ethane/ethene (µg/L)	Chloroethane (µg/L)	Total BTEX compounds (µg/L)
MW-2S	2.39	178	24.47	0.213	6.49	0.0	<66.7	<0.96	<0.008	0.540	5.4	1.6 J	102	<1.0	<2.0	22,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-2D	0.90	161	20.66	0.506	7.44	0.0	<66.7	3.3 J	<0.008	4.7	36.4	40.3	165	<1.0	<2.0	10,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-5D	3.01	60	21.51	0.503	7.16	0.0	<66.7	243	<0.008	4.7	21.4	13.3	249	1.3 J	<2.0	18,000	NS	<0.1	<0.1	0.1 J	<0.1	<0.1	<1.0	<0.1	<0.1
MW-6S	1.62	8	23.36	1.98	6.65	1.4	1,660	2,910	1.3	<0.250	294	138	778	40.4	28	150,000	NS	<0.5	0.8 J	70	0.7 J	3.0	<1.0	<0.5	0.7 J
MW-6D	1.57	20	22.53	0.571	7.82	0.0	<66.7	53.5	<0.008	<0.250	41.8	35.2	254	<1.0	2.4 J	8,600	NS	0.6	3.7	4.2	<0.1	0.3 J	<1.0	<0.1	<0.1
MW-7S	2.81	51	20.92	1.401	6.89	2.1	1,770	846**	1.8	<0.250*	139	223	385	6.4	18	47,000	NS	0.6	0.6	23	0.1 J	0.4 J	<1.0	<0.1	0.8
MW-7I	4.75	22	22.54	0.555	7.16	0.0	<66.7	<0.96	<0.008	7.4	25.1	39.8	209	<1.0	<2.0	12,000	NS	0.1 J	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-8	2.61	89	20.22	1.68	6.67	0.0	89.1 J	103	0.070 J	0.310 J	312	14.9	662	29.6	<2.0	140,000	NS	0.4 J	1.0	2.2	<0.1	0.2 J	<1.0	<0.1	0.1 J
MW-9	1.32	54	21.51	0.571	6.95	0.0	<66.7	216	<0.008	4.5	28.6	45.7	240	1.0 J	<2.0	18,000	NS	<0.1	0.1 J	2.3	<0.1	0.2 J	<1.0	<0.1	<0.1
MW-10	3.84	7	23.78	1.342	6.62	1.4	6,050	1,670	1.9	<0.250	243	123	446	32.9	100	100,000	NS	<0.1	0.4 J	110	0.7	5.4	<1.0	<0.1	5.7 J
MW-11	1.85	46	22.28	0.373	7.05	0.0	<66.7	12.7	<0.008	4.0	23.6	11.4	160	<1.0	<2.0	11,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	3.65	123	20.94	0.693	6.51	0.0	<66.7	5.4	0.012 J	3.8	69.8	7.7	326	<1.0	<2.0	84,000	NS	1.3	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-19	0.10	224	20.31	0.828	7.52	0.0	<66.7	1.5 J	<0.008	17.5	71.5	42.2	299	1.2 J	<2.0	14,000	NS	0.1 J	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-20	6.84	63	19.73	0.195	8.05	0.0	<66.7	<0.96	<0.008	0.760	4.1 J	1.6 J	101	<1.0	<2.0	4,500 J	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-21	3.29	88	19.86	0.578	7.32	0.0	<66.7	<0.96	<0.008	3.8	61.2	18.3	225	<1.0	<2.0	15,000	NS	0.1 J	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-23	0.95	130	20.25	0.758	7.21	0.0	<66.7	226	<0.008	5.4	63.9	46.4	313	1.3 J	<2.0	17,000	NS	<0.1	<0.1	<0.1	<0.1	0.3 J	<1.0	<0.1	<0.1
MW-25	4.54	36	22.33	0.746	7.33	0.0	<66.7	107	<0.008	12.4	51.9	49.3	262	<1.0	<2.0	20,000***	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-28P	4.70	25	21.19	0.588	7.40	0.0	<52.2	0.37 J**	<0.008	7.3*	36.4	48.1	206	<1.0	<2.0	13,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-32P	0.54	-15	21.91	0.697	7.39	0.0	<52.2	6.3**	0.023 J	5.6*	50.2	51.0	263	1.6 J	2.1 J	9,700	NS	<0.1	<0.1	<0.1	<0.1	0.3 J	<1.0	<0.1	<0.1
MW-34S	5.39	27	22.84	0.886	7.59	0.0	<66.7	<0.96	<0.008	21.1*	73.1	48.5	291	<1.0	<2.0	21,000***	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-34I	1.72	32	22.27	0.811	7.67	0.0	<66.7	3.3 J	<0.008	4.9	65.9	53.5	309	<1.0	<2.0	17,000***	NS	<0.1	<0.1	<0.1	<0.1	0.5	<1.0	<0.1	<0.1
MW-34D	3.19	45	21.69	0.546	7.71	0.0	<66.7	<0.96	<0.008	5.4	22.3	48.9	195	<1.0	<2.0	12,000***	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-38	5.63	55	23.22	1.036	7.05	0.0	<66.7	<0.96	<0.008	26.6	62.9	77.1	326	<1.0	<2.0	28,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-39	4.12	57	25.83	1.136	6.86	0.0	<66.7	1.2 J	<0.008	10.5	131	36.3	306	<1.0	<2.0	40,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-40	3.67	89	23.32	0.950	6.78	0.0	<66.7	21.8	<0.008	20.6	84.7	29.5	339	1.2 J	<2.0	56,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
MW-41	2.34	110	21.30	0.931	6.19	0.0	204	680	0.061 J	1.4	240	41.3	214	<1.0	<2.0	110,000	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1
EW-1	1.99	-9	22.80	1.51	6.77	1.4	2,100	992	1.6	0.690	195	186	520	<1.0	49	71,000	NS	0.5 J	1.3	88	0.7	0.9	<1.0	<0.1	1.6 J
EW-2	5.27	81	22.49	0.458	7.20	0.0	<66.7	15.9	<0.008	6.1	22.1	17.2	204	<1.0	<2.0	15,000	NS	0.1 J	<0.1	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1

Notes:

J = estimated values between the Method Detection Limit (MDL) and Limit of Quantification (LOQ)

ND = Not Detected above MDL

NS = constituent Not Sampled

ug/L = micrograms per liter

mg/L = milligrams per liter

mV = millivolts

mS/cm = micro-Siemens per centimeter

* = This sample was analyzed past the 48 hour hold time for nitrate-nitrogen.

** = The MDL for Manganese was 0.36 ug/L for the samples collected on 5/25/2006, which is lower than the normal 0.96 ug/L MDL for Manganese.

*** = Due to a laboratory error, the sample was analyzed outside the method holding time. SECOR was contacted and approved reporting the results.

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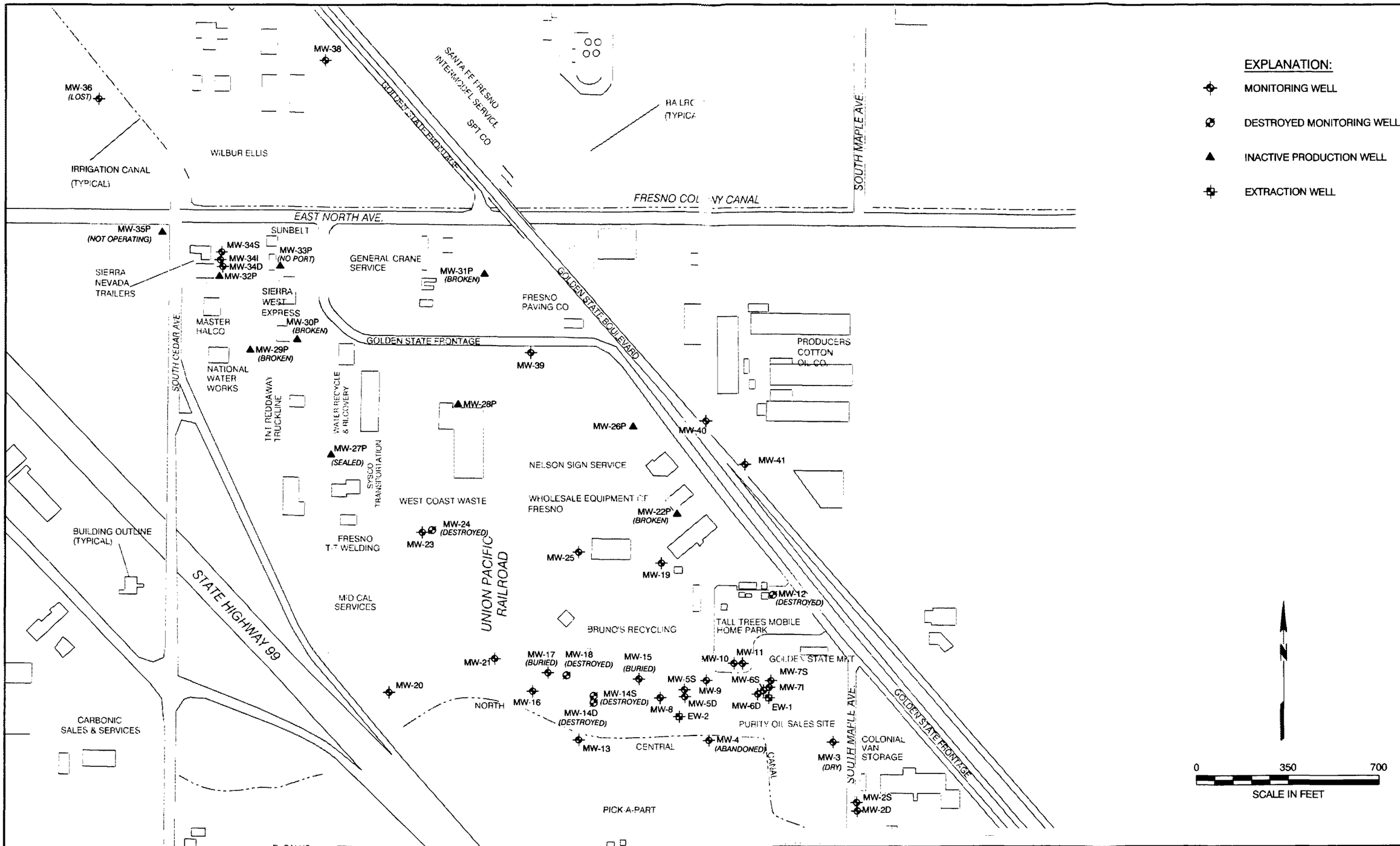
FIGURES



REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR
3475 WEST SHAW AVENUE, SUITE 104
FRESNO, CALIFORNIA
PHONE: (559) 271-2650/271-5108 (FAX)

FOR:		WELL LOCATION MAP	FIGURE:
PURITY OIL SALES 3281 SOUTH MAPLE AVENUE MALAGA, CALIFORNIA			1
JOB NUMBER: 24CH.67004.06.0002	DRAWN BY: SFR	CHECKED BY: MS	APPROVED BY: SS	DATE: 05/05/06

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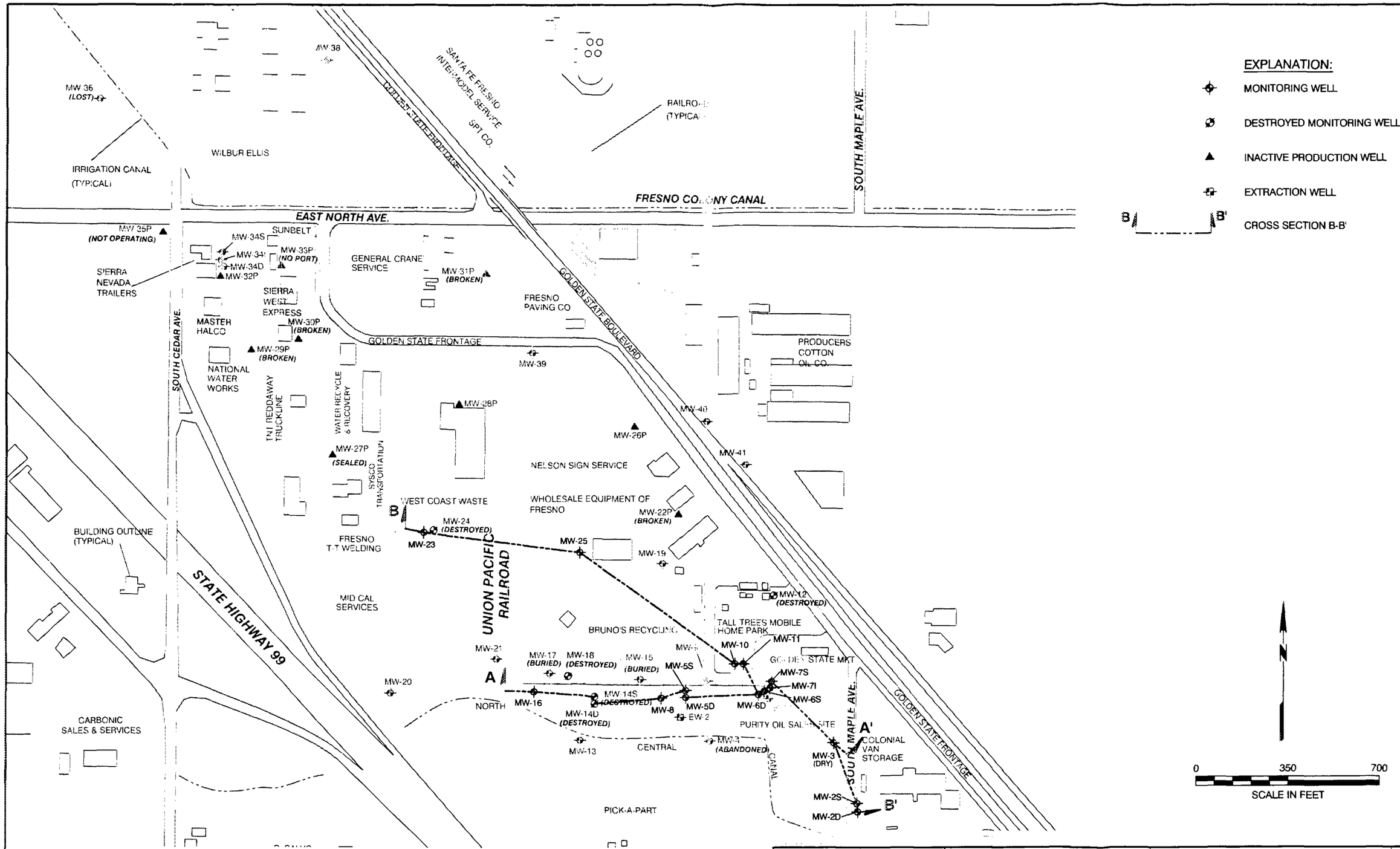
F-1_WELL LOCATION MAP.dwg



REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR
3475 WEST SHAW AVENUE, SUITE 104
FRESNO, CALIFORNIA
PHONE: (559) 271-2650/271-5108 (FAX)

FOR:		LOCATION OF CROSS SECTIONS	FIGURE:
PURITY OIL SALES 3281 SOUTH MAPLE AVENUE MALAGA, CALIFORNIA			2
JOB NUMBER: 24CH.67004.06.0002	DRAWN BY: SFR	CHECKED BY: MS	APPROVED BY: SS	DATE: 05/05/06

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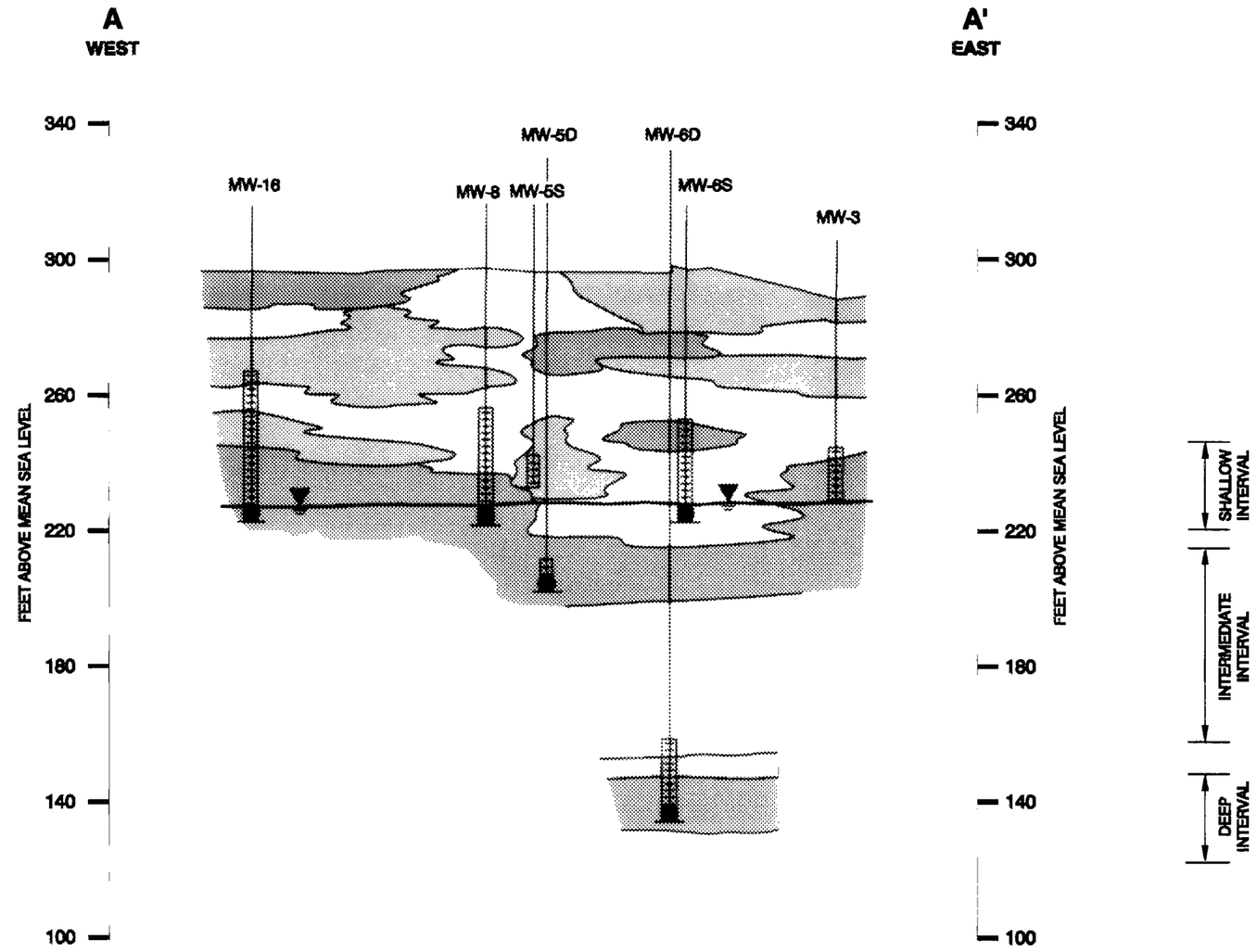
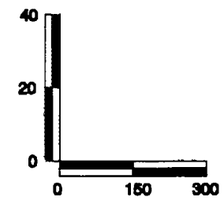
F-2_CROSS SECIONS INDEX.dwg



EXPLANATION:

- INTERPRETED LITHOLOGIC BOUNDARY
- MW-16 — WELL IDENTIFICATION
- SCREENED INTERVAL FOR MONITORING WELLS
- QED MICROPURGE PUMP LOCATION
- WATER TABLE
- POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES
- SILTY SANDS, SAND-SILT MIXTURES
- INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS

NOTE:
SOIL LITHOLOGY IS BASED ON GEOPHYSICAL LOGGING PERFORMED BY SECOR/WELENCO IN APRIL 2003



SCALE IN FEET
VERTICAL EXAGGERATION 7.5X

REFERENCE: THIS FIGURE IS BASED ON A DRAWING PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

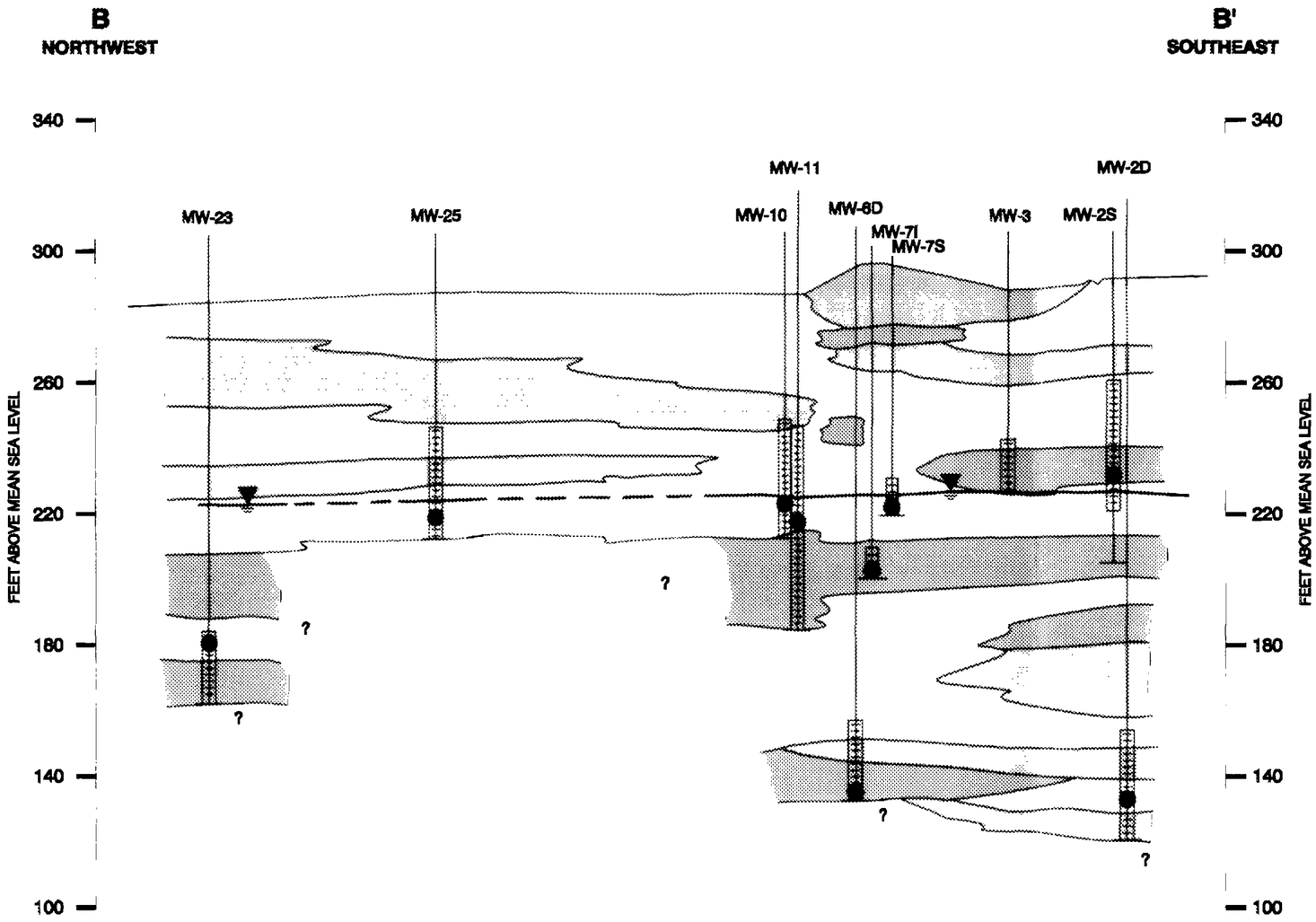
SECOR
3475 WEST SHAW AVENUE, SUITE 104
FRESNO, CALIFORNIA
PHONE: (559) 271-2650/271-5108 (FAX)

FOR:
PURITY OIL SALES
3281 SOUTH MAPLE AVENUE
MALAGA, CALIFORNIA

GENERALIZED GEOLOGIC CROSS SECTION
CROSS SECTION A-A'

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.57004.08.0002	SFR/PR	MS	SS	05/05/05

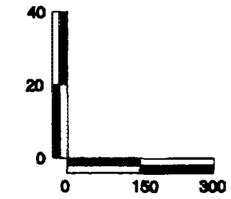


EXPLANATION:

- INTERPRETED LITHOLOGIC BOUNDARY
- MW-16 — WELL IDENTIFICATION
- SCREENED INTERVAL FOR MONITORING WELLS
- QED MICROPURGE PUMP LOCATION
- WATER TABLE
- POORLY GRADED SANDS AND GRAVELLY SANDS, LITTLE OR NO FINES
- SILTY SANDS, SAND-SILT MIXTURES
- INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS

SHALLOW INTERVAL
INTERMEDIATE INTERVAL
DEEP INTERVAL

NOTE:
SOIL LITHOLOGY IS BASED ON GEOPHYSICAL LOGGING PERFORMED BY SECOR/WELENCO IN APRIL 2003



SCALE IN FEET
VERTICAL EXAGGERATION 7.5X

REFERENCE: THIS FIGURE IS BASED ON A DRAWING PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR
3478 WEST SHAW AVENUE, SUITE 104
FRESNO, CALIFORNIA
PHONE: (559) 271-2650/271-6108 (FAX)

FOR:
PURITY OIL SALES
3281 SOUTH MAPLE AVENUE
MALAGA, CALIFORNIA

GENERALIZED GEOLOGIC CROSS SECTION
CROSS SECTION B-B'

FIGURE: 4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.57006.02.0002	PR/SPR	MS	SS	05/05/08

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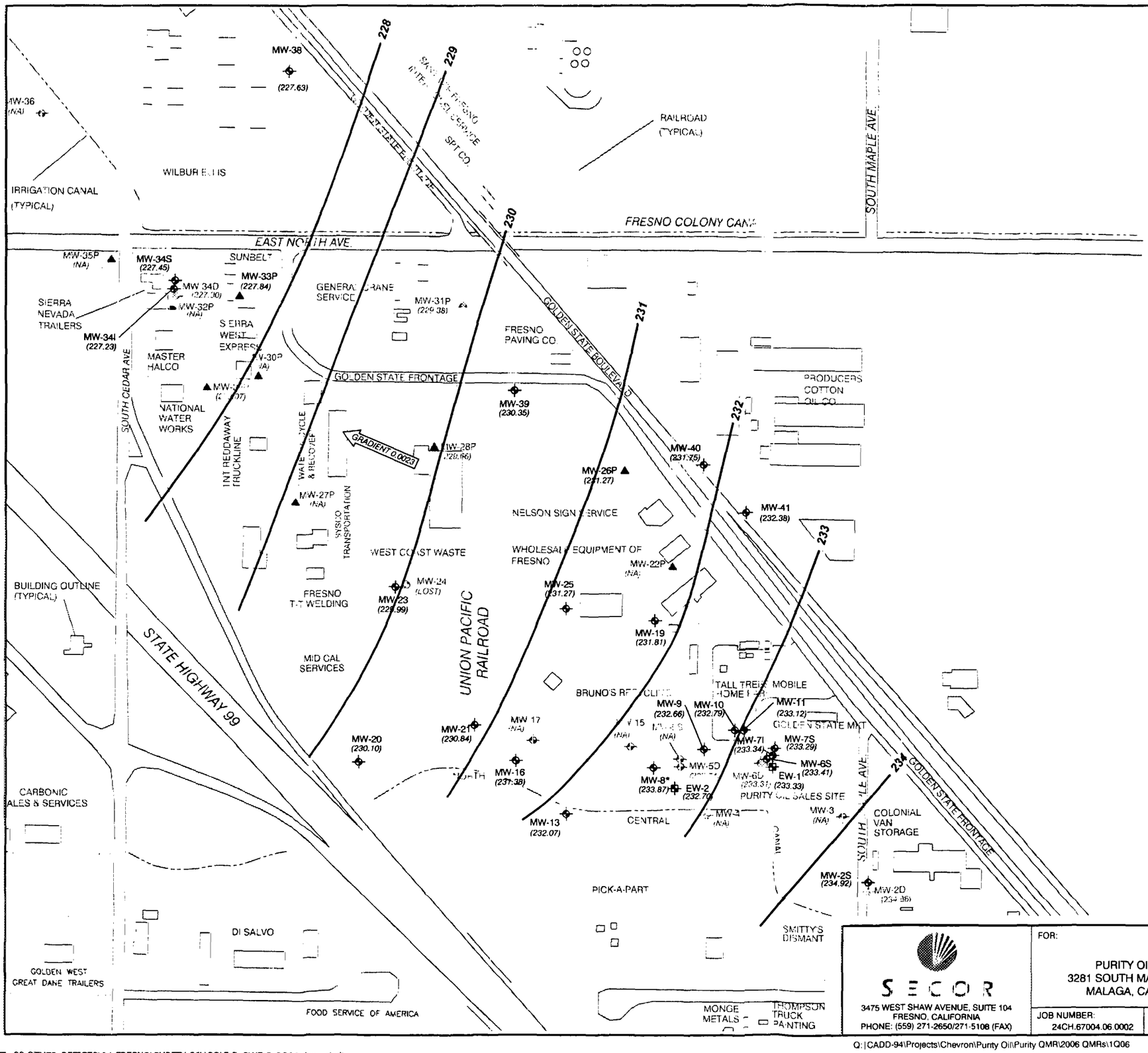
F-4_PURITY-XSBB.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT
- 234 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- (234.99) — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- * — NOT USED IN CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR
3475 WEST SHAW AVENUE, SUITE 104
FRESNO, CALIFORNIA
PHONE: (559) 271-2650/271-5108 (FAX)

FOR:
PURITY OIL SALES
3281 SOUTH MAPLE AVENUE
MALAGA, CALIFORNIA

SHALLOW AND INTERMEDIATE INTERVAL GROUNDWATER ELEVATION CONTOUR MAP MAY 2006

FIGURE: **5**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	CH	FG	SS	07/11/06

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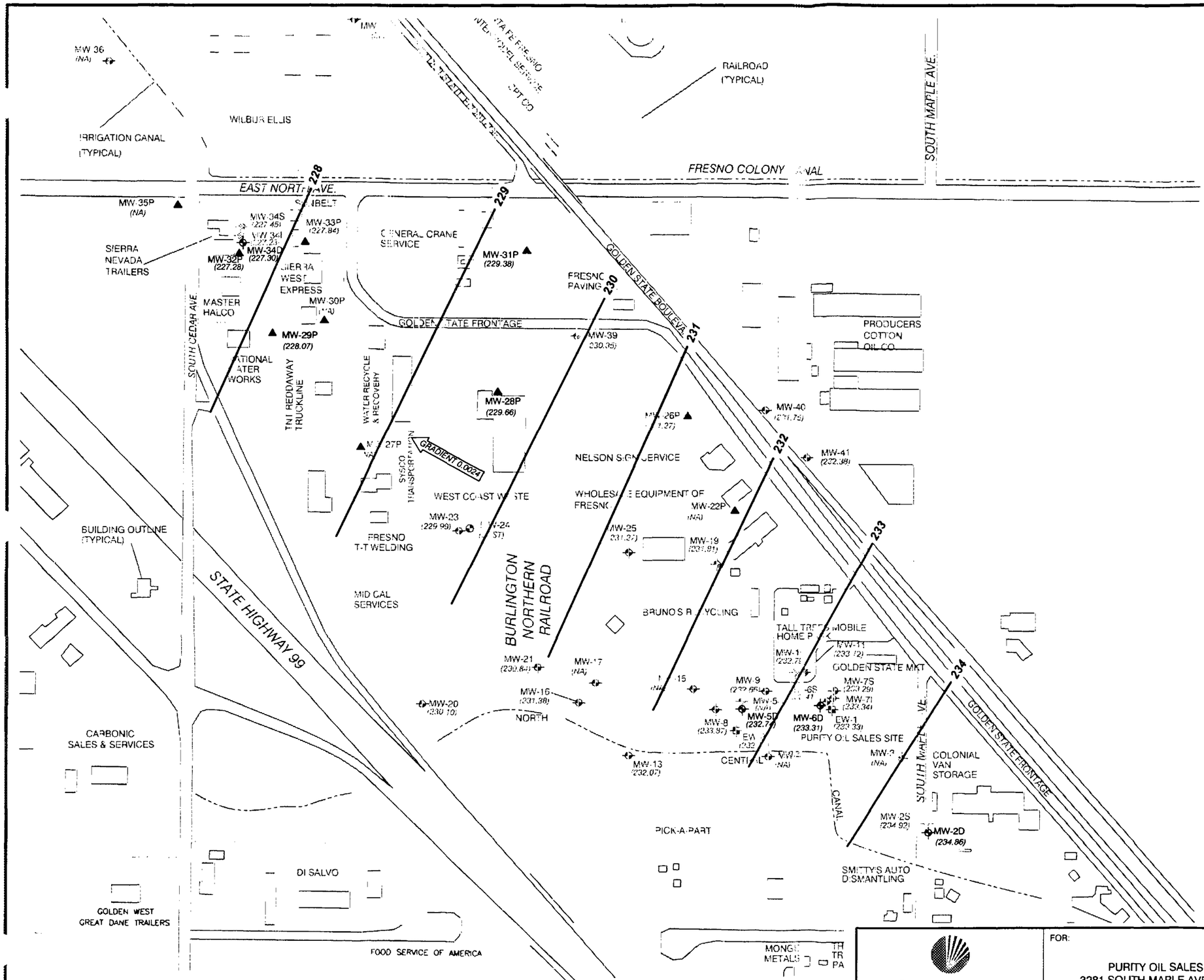
F-5_GWE-S_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT
- 234 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- (234.80) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

0 350 700

SCALE IN FEET

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR
3475 WEST SHAW AVENUE, SUITE 104
FRESNO, CALIFORNIA
PHONE: (559) 271-2650/271-5108 (FAX)

FOR:
PURITY OIL SALES
3281 SOUTH MAPLE AVENUE
MALAGA, CALIFORNIA

DEEP INTERVAL GROUNDWATER ELEVATION CONTOUR MAP MAY 2006

FIGURE: **6**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH 67004.06.0002	CH	FG	SS	07/11/06

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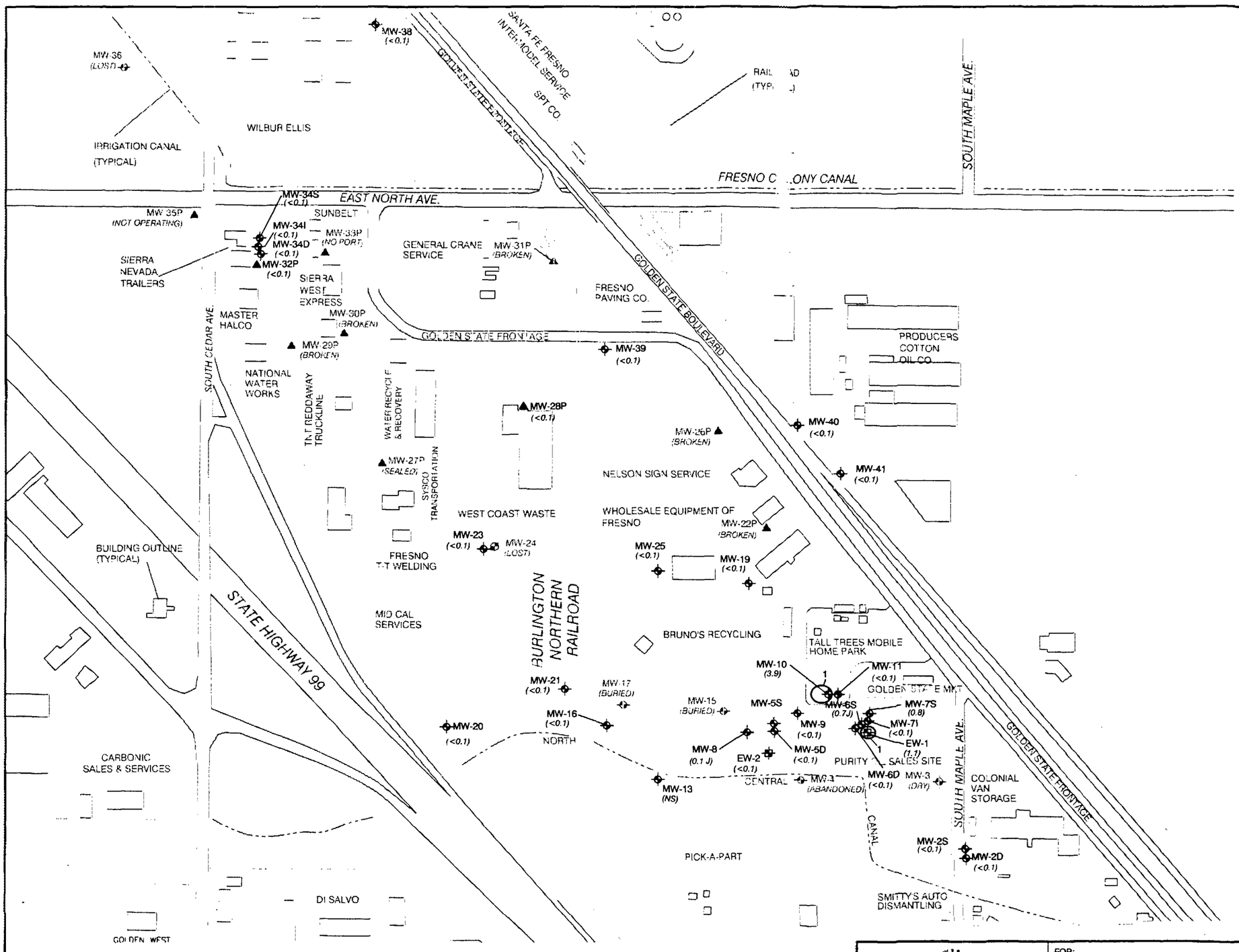
Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-6_GWE-D_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- 1 — BENZENE CONCENTRATION CONTOUR (ROD\MCL\RG = 1µg/L)
- (5.2) — BENZENE CONCENTRATION IN µg/L
- J — ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) — INDICATES WELL NOT SAMPLED

NOTE: SHALLOW AND INTERMEDIATE WELLS USED FOR CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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MALAGA, CALIFORNIA

BENZENE CONCENTRATION CONTOUR MAP MAY 2006

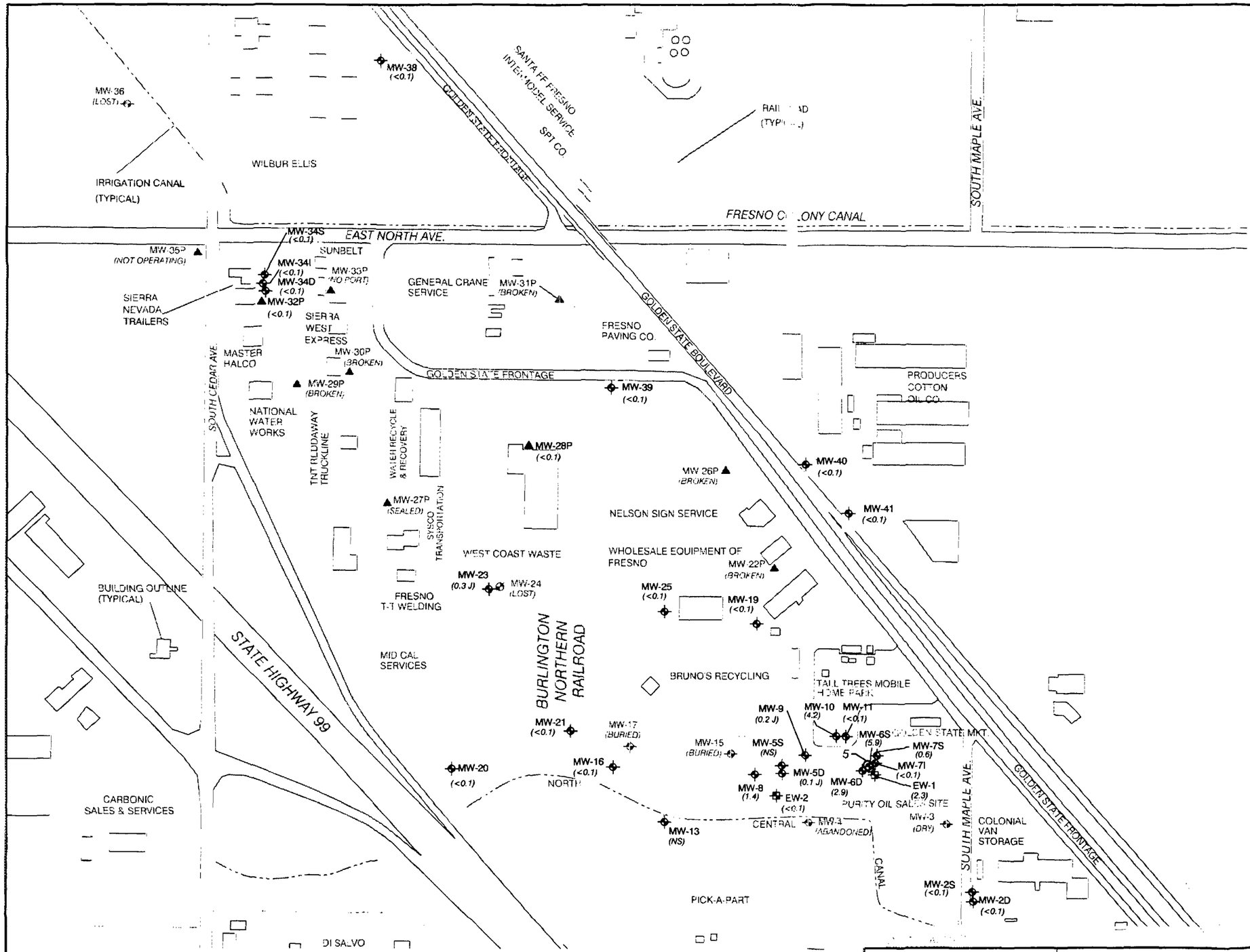
FIGURE: 7

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	CH	FG	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-7_BENZENE_2Q06.dwg, cholt

Q:\Cadd-94\Projects\Chevron\Purity Oil\Punty QMR\2006 QMRs\1Q06

F-7_BENZENE_1Q06.dwg



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1,1-DICHLOROETHANE CONCENTRATION CONTOUR MAP MAY 2006

FIGURE: **8**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-8_1-1DCA_2Q06.dwg, cholt

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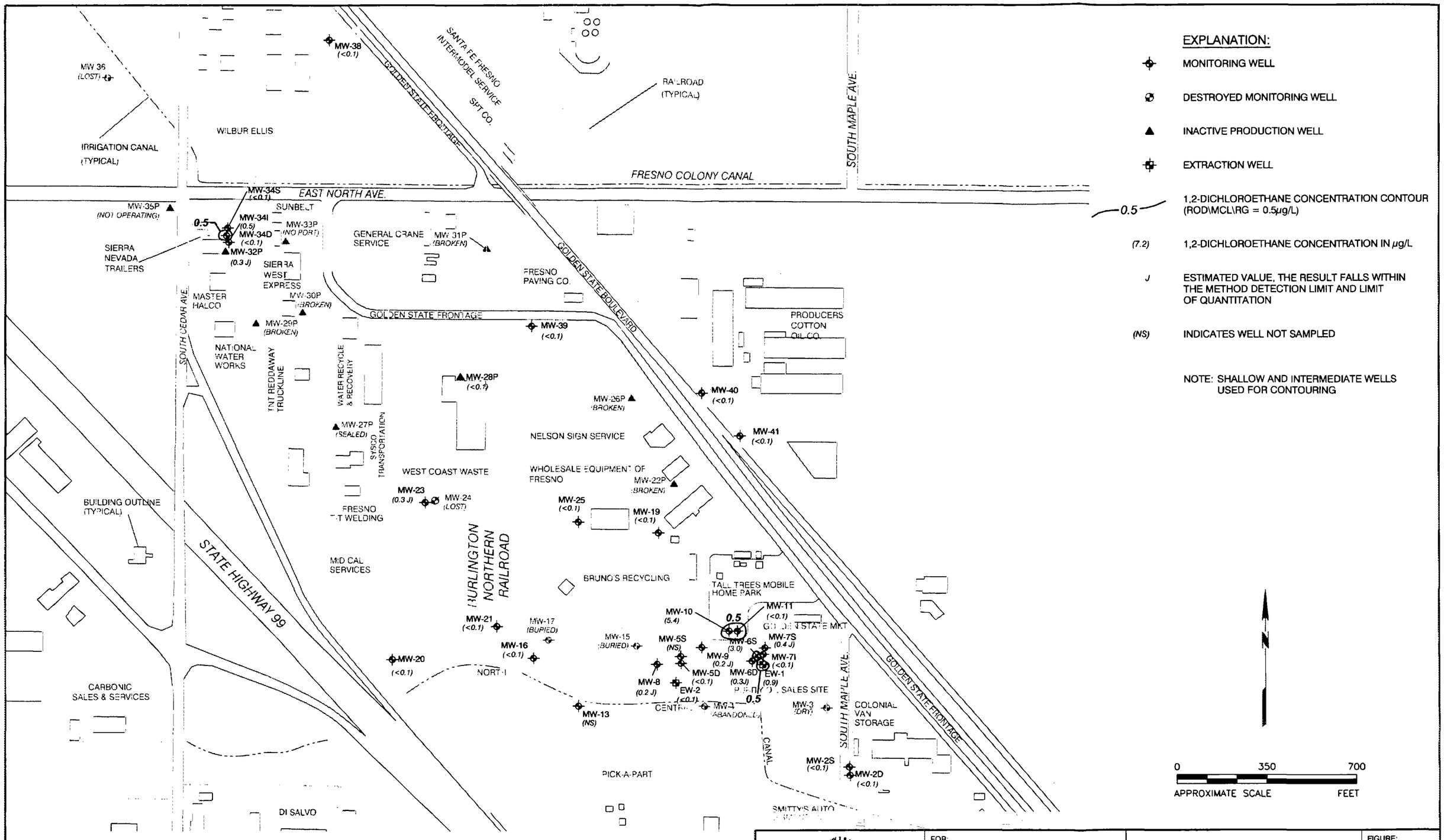
F-8_1-1DCA_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- 0.5 — 1,2-DICHLOROETHANE CONCENTRATION CONTOUR (ROD\MCL\RG = 0.5µg/L)
- (7.2) — 1,2-DICHLOROETHANE CONCENTRATION IN µg/L
- J — ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) — INDICATES WELL NOT SAMPLED

NOTE: SHALLOW AND INTERMEDIATE WELLS USED FOR CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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1,2-DICHLOROETHANE CONCENTRATION CONTOUR MAP MAY 2006

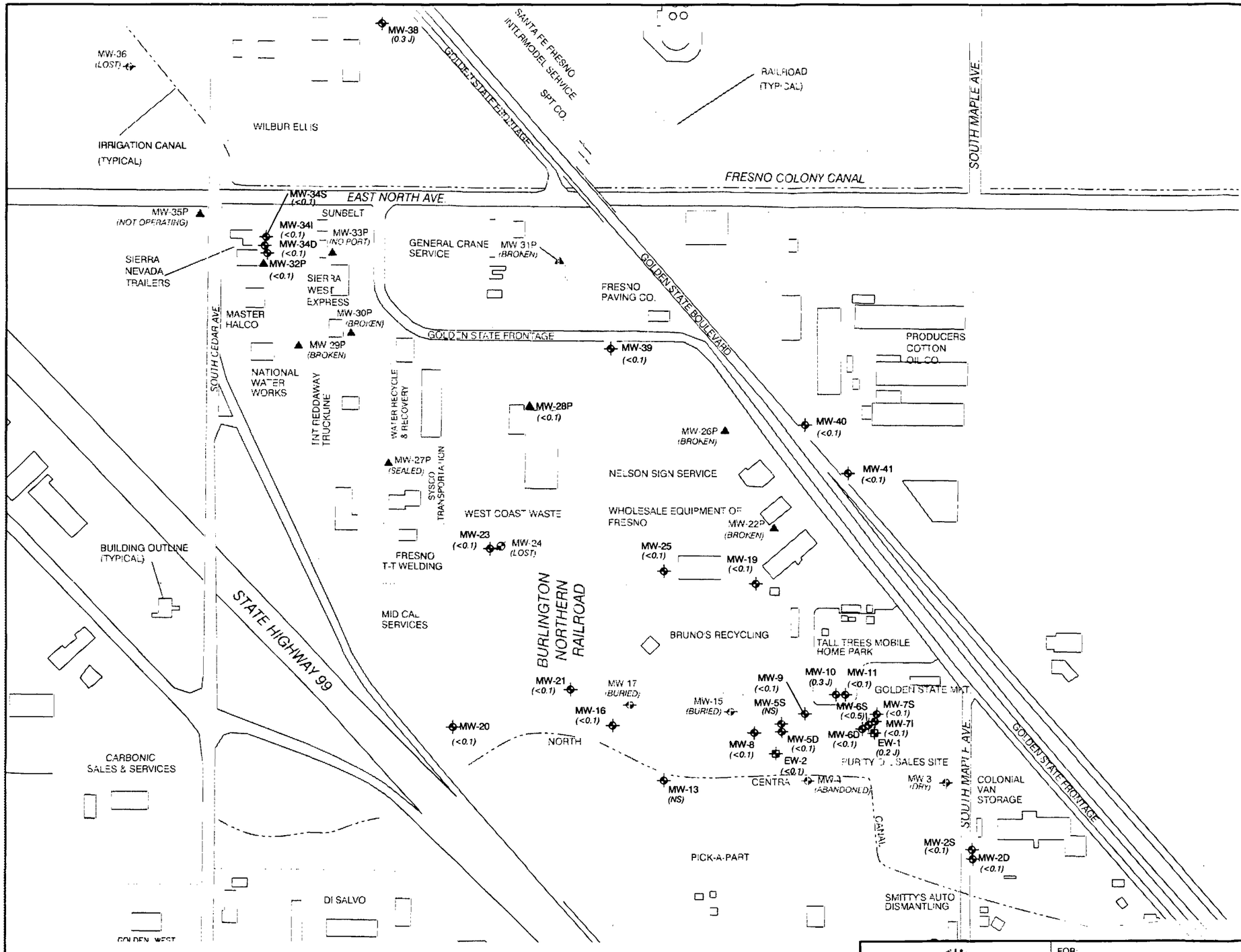
FIGURE: 9

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-9_1-2DCA_2Q06.dwg, cholt

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-9_1-2DCA_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- *(0.3 J)* 1,1-DICHLOROETHENE CONCENTRATION IN µg/L
- *J* ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- *(NS)* INDICATES WELL NOT SAMPLED

NOTE: ALL CONCENTRATIONS BELOW ROD\MCL\RG = 6µg/L

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1,1-DICHLOROETHENE CONCENTRATION CONTOUR MAP MAY 2006

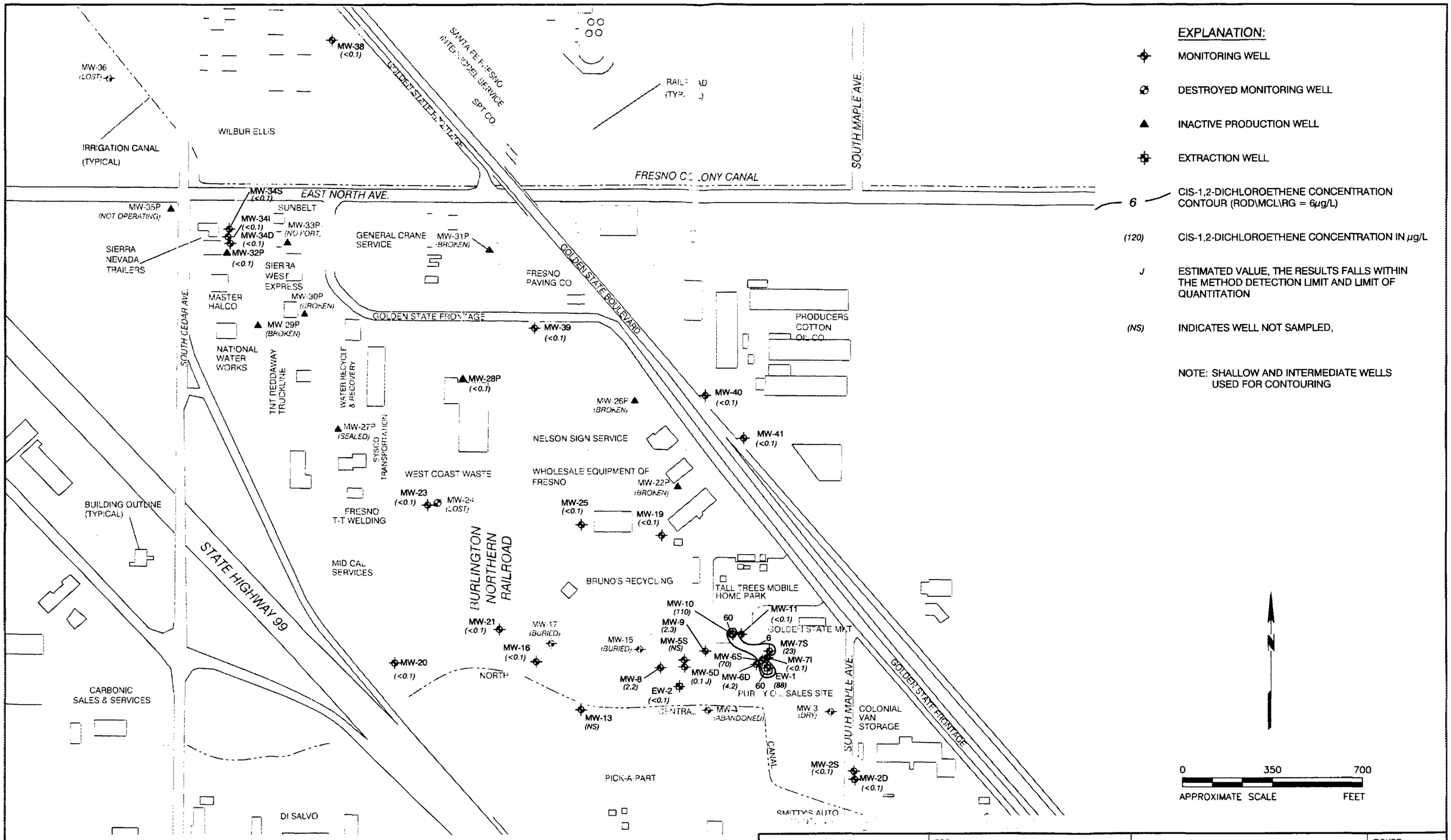
FIGURE: **10**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-10_1-1DCE_2Q06.dwg, cholt

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-10_1-1DCE_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- 6 — CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR (ROD\MCL\RG = 6µg/L)
- (120) CIS-1,2-DICHLOROETHENE CONCENTRATION IN µg/L
- J ESTIMATED VALUE, THE RESULTS FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) INDICATES WELL NOT SAMPLED,

NOTE: SHALLOW AND INTERMEDIATE WELLS USED FOR CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR MAP MAY 2006

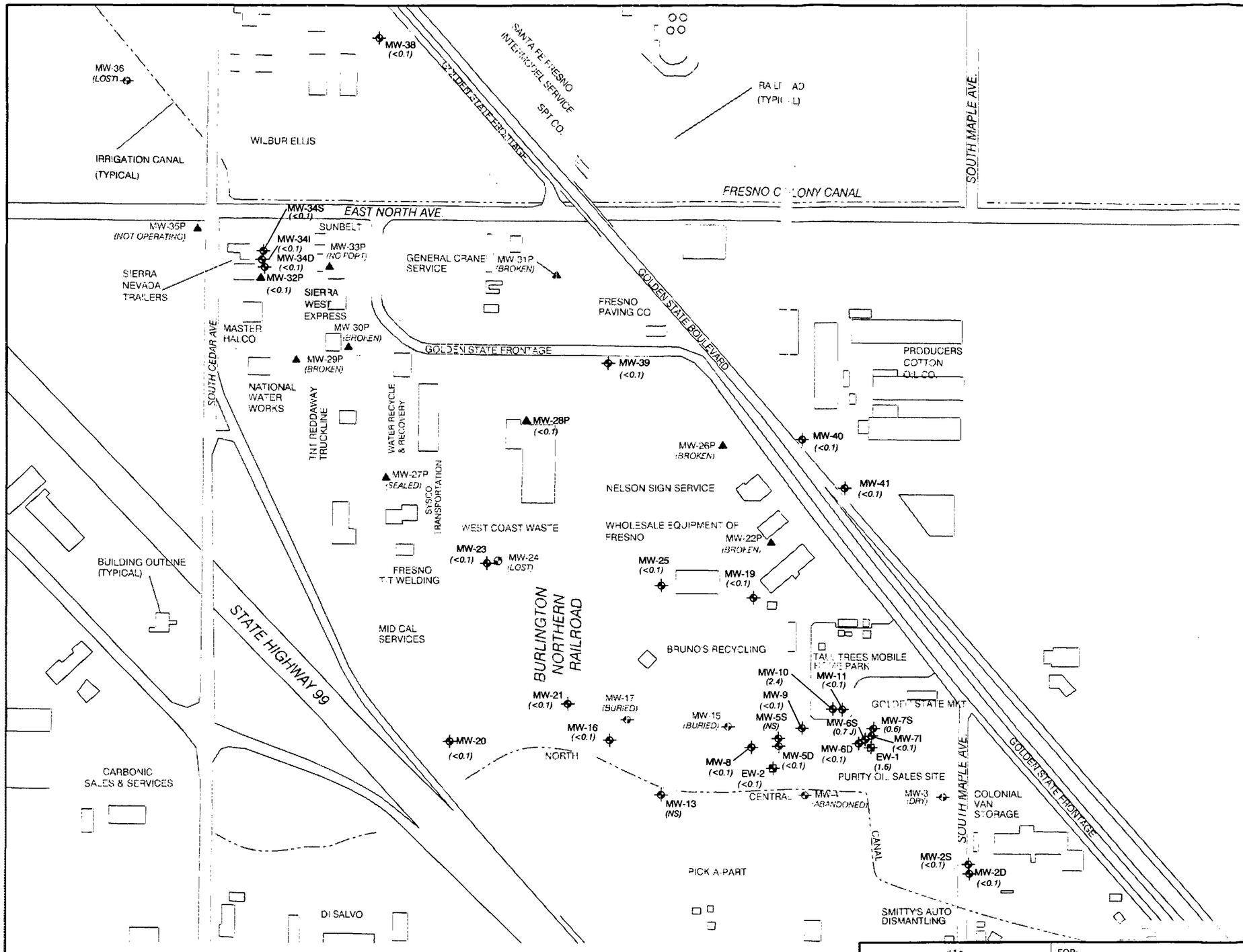
FIGURE: **11**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	CH	FG	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-11_CIS 1,2-DCE_2Q06.dwg, cholt

Q:|CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-11_CIS 1,2_DCE_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- (2.4) TRANS-1,2-DICHLOROETHENE CONCENTRATION IN µg/L
- J ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) INDICATES WELL NOT SAMPLED

NOTE: ALL CONCENTRATIONS BELOW ROD/MCL/RG = 10ug/L

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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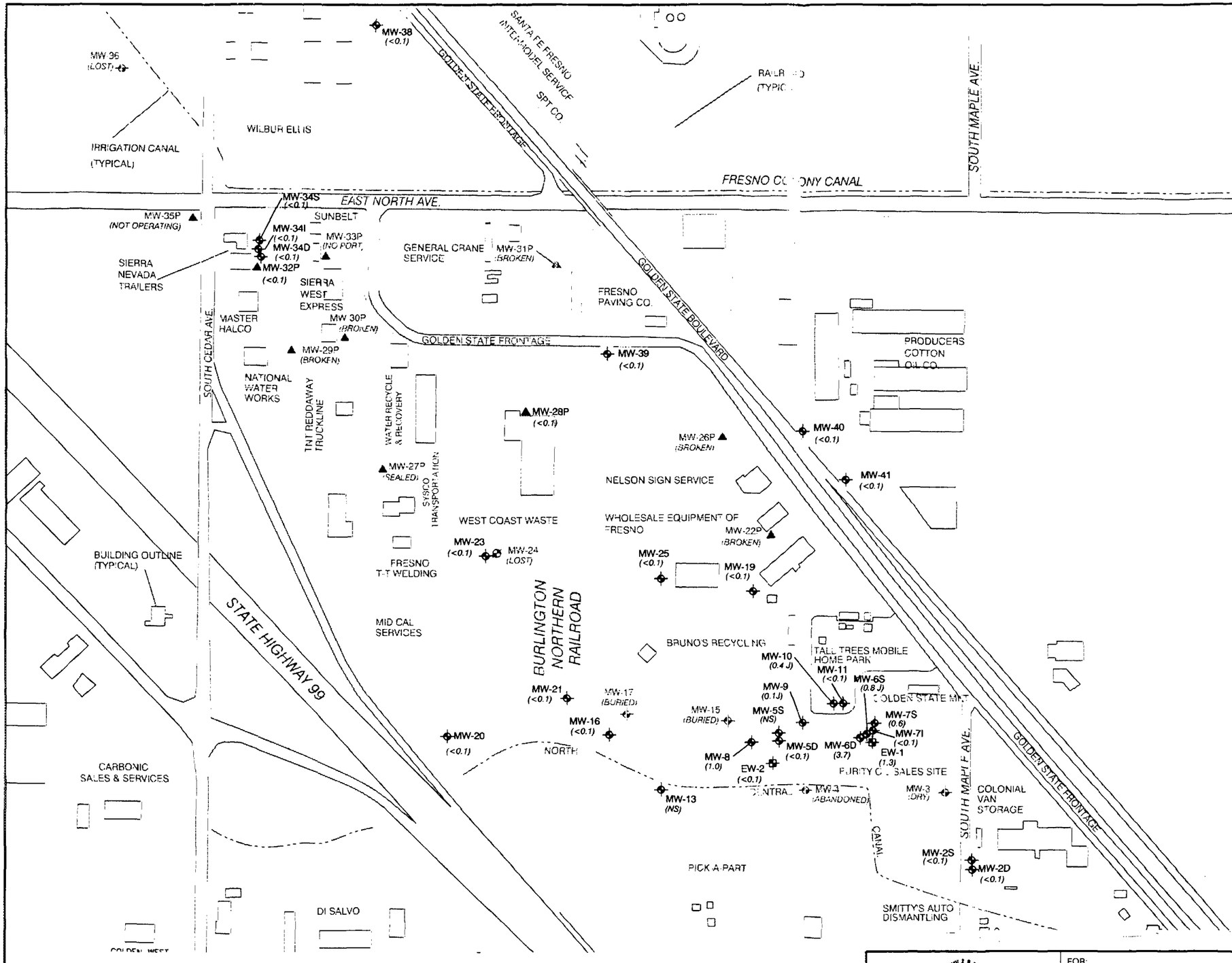
TRANS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR MAP MAY 2006

FIGURE: **12**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- (4.1) TRICHLOROETHENE CONCENTRATION IN µg/L
- J ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTIFICATION
- (NS) INDICATES WELL NOT SAMPLED

NOTE: ALL CONCENTRATIONS BELOW ROD\MCL\RG = 5µg/L

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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TRICHLOROETHENE CONCENTRATION CONTOUR MAP MAY 2006

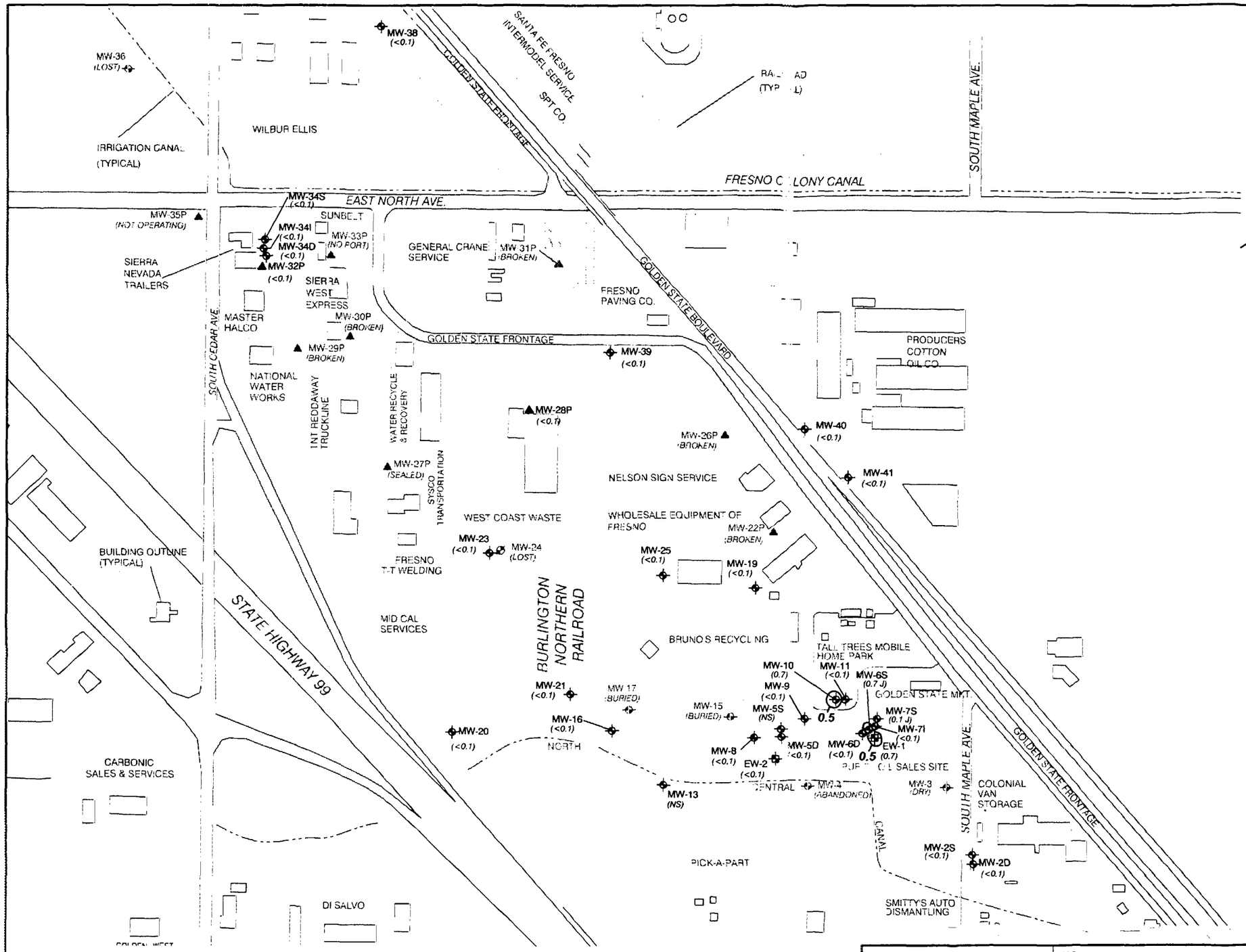
FIGURE: **13**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-13_TCE_2Q06.dwg, cholt

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-13_TCE_1Q06.dwg



REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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VINYL CHLORIDE CONCENTRATION CONTOUR MAP MAY 2006

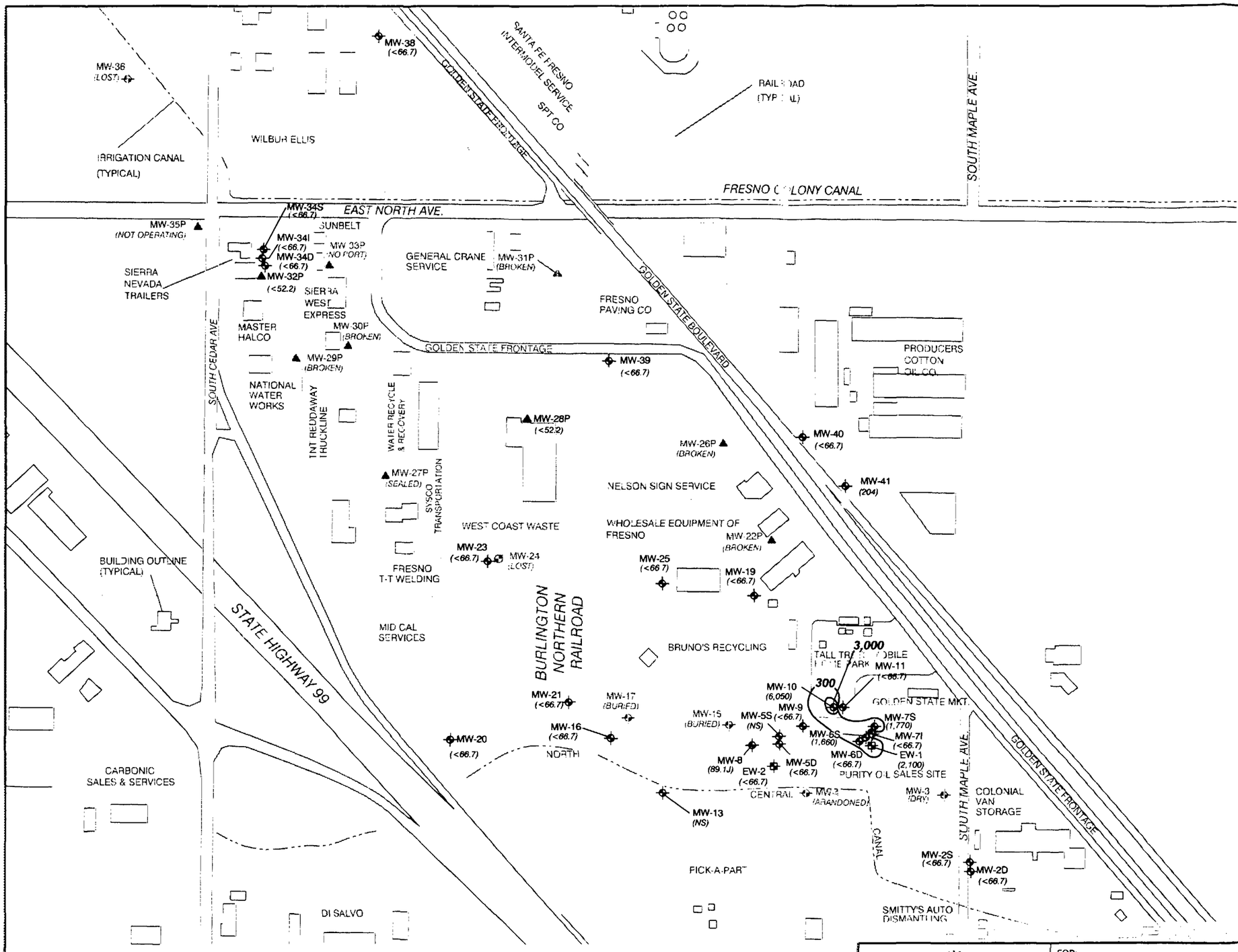
FIGURE: **14**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-14_VC_2Q06.dwg, cholt

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-14_VC_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- 300 — DISSOLVED IRON CONCENTRATION CONTOUR (ROD\MCL\RG = 300µg/L)
- (17,400) — DISSOLVED IRON CONCENTRATION IN µg/L
- J — ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) — INDICATES WELL NOT SAMPLED

NOTE: SHALLOW AND INTERMEDIATE WELLS USED FOR CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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DISSOLVED IRON CONCENTRATION CONTOUR MAP MAY 2006

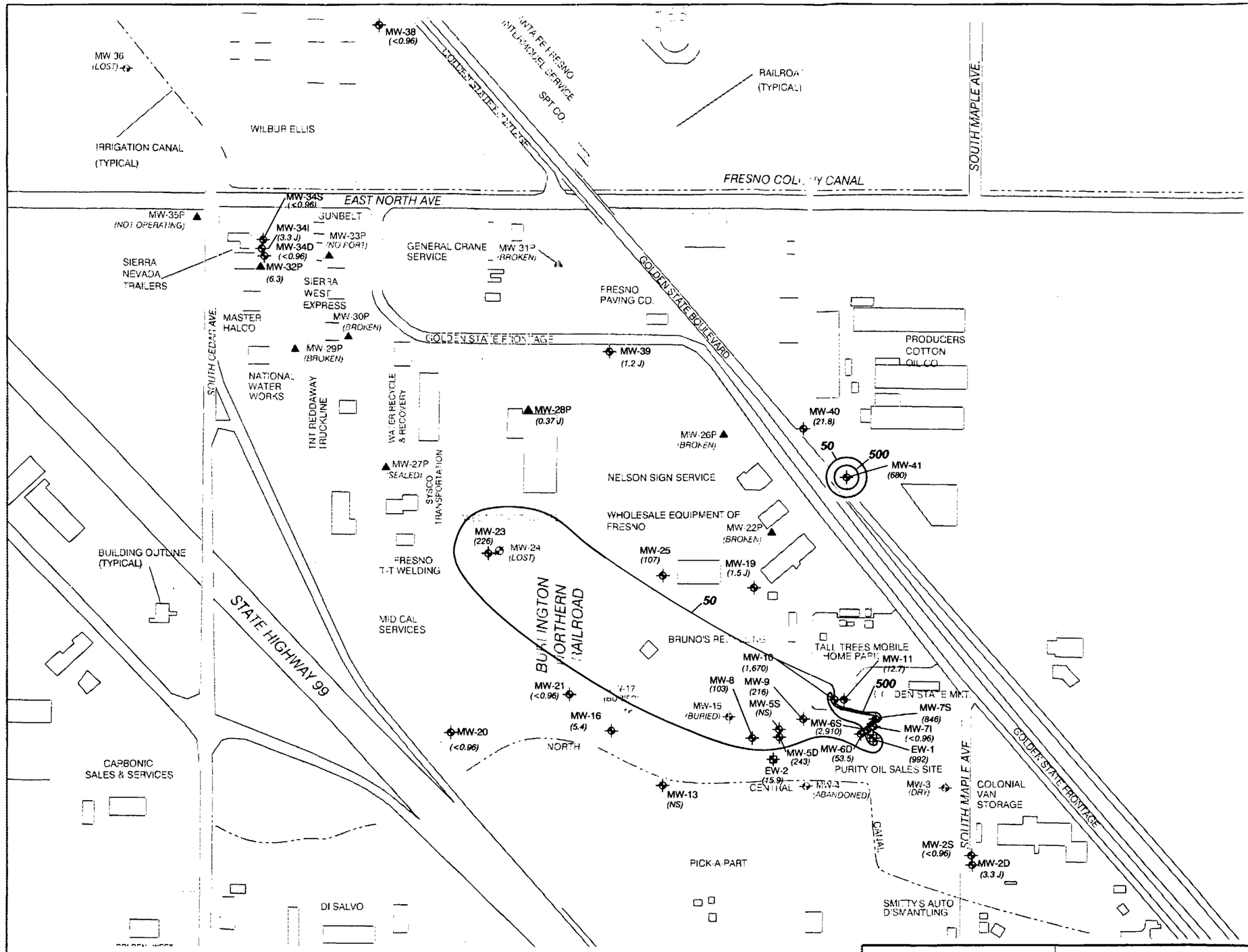
FIGURE: **15**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-15_IRON_1Q06.dwg

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-15_IRON_2Q06.dwg, cholt



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- 50 — DISSOLVED MANGANESE CONCENTRATION CONTOUR (ROD\MCL\RG = 50 µg/L)
- (2,420) — DISSOLVED MANGANESE CONCENTRATION IN µg/L
- J — ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) — INDICATES WELL NOT SAMPLED

NOTE: SHALLOW AND INTERMEDIATE WELLS USED FOR CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION, DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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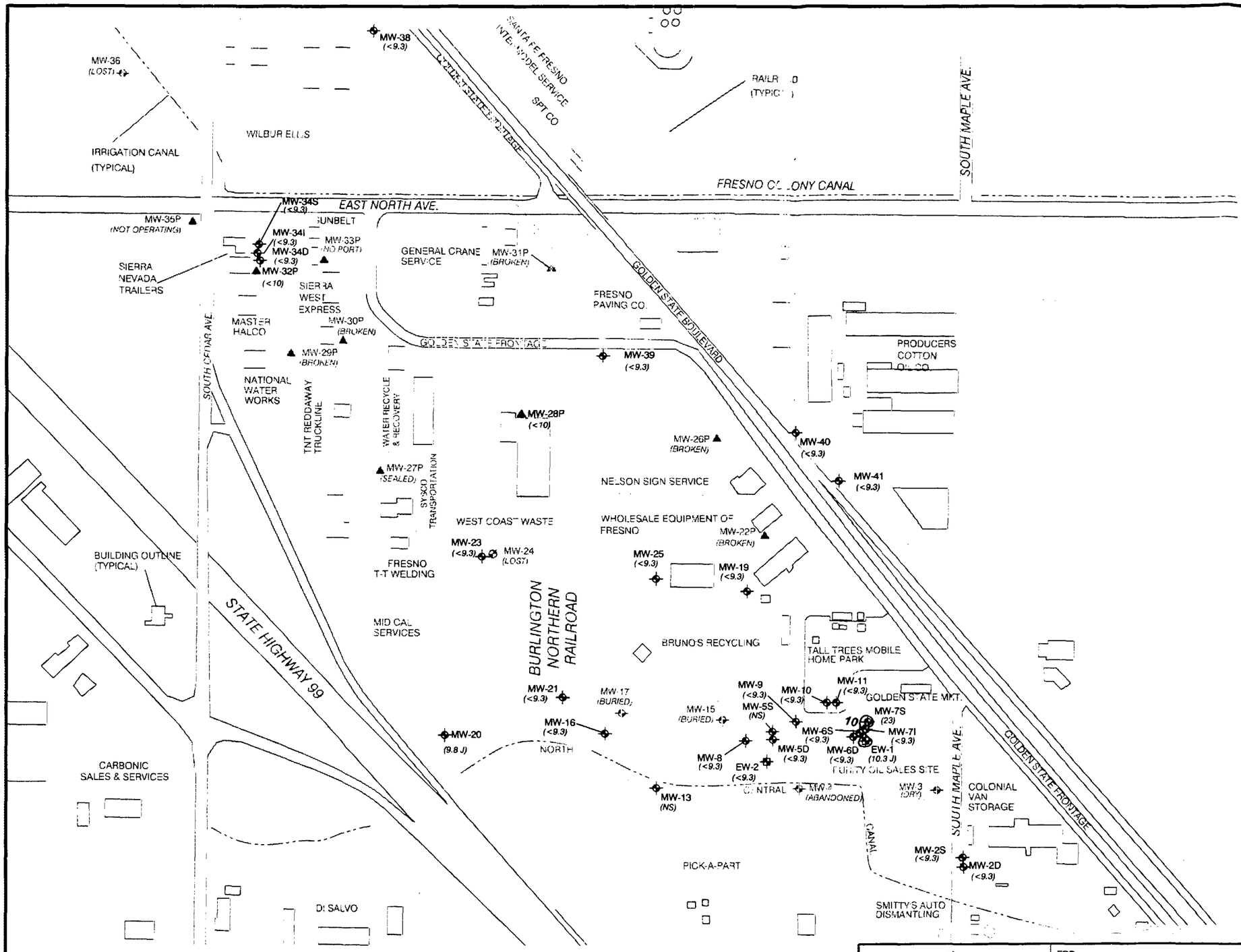
DISSOLVED MANGANESE CONCENTRATION CONTOUR MAP MAY 2006

FIGURE: **16**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	CH	FG	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-16_MANGANESE_2Q06.dwg, cholt



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- 10 — DISSOLVED ARSENIC CONCENTRATION (SMCL = 10µg/L)
- (13.8 J) — DISSOLVED ARSENIC CONCENTRATION IN µg/L
- J — ESTIMATED VALUE, THE RESULT FALLS WITHIN THE METHOD DETECTION LIMIT AND LIMIT OF QUANTITATION
- (NS) — INDICATES WELL NOT SAMPLED

NOTE: SHALLOW AND INTERMEDIATE WELLS USED FOR CONTOURING

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY IT CORPORATION. DATED MARCH 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

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DISSOLVED ARSENIC CONCENTRATION CONTOUR MAP MAY 2006

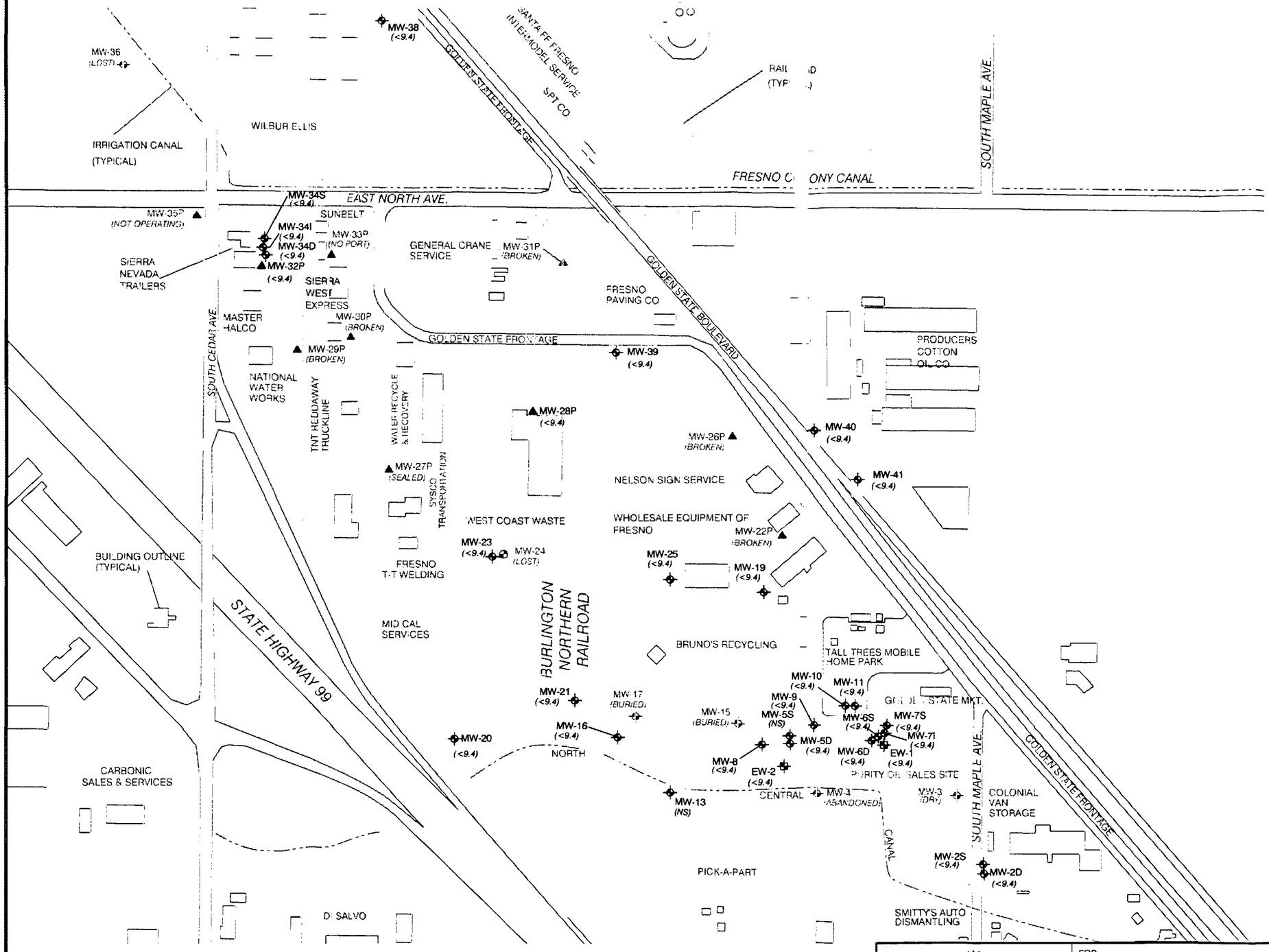
FIGURE: **17**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-17_ARSENIC_2Q06.dwg, cholt

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006 QMRs\1Q06

F-17_ARSENIC_1Q06.dwg



EXPLANATION:

- MONITORING WELL
- DESTROYED MONITORING WELL
- INACTIVE PRODUCTION WELL
- EXTRACTION WELL
- (<9.4) DISSOLVED SELENIUM CONCENTRATION IN µg/L
- (NS) INDICATES WELL NOT SAMPLED

NOTE: ALL CONCENTRATIONS BELOW SMCL = 50µg/l

0 350 700
APPROXIMATE SCALE FEET

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DISSOLVED SELENIUM CONCENTRATION CONTOUR MAP MAY 2006

FIGURE: **18**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
24CH.67004.06.0002	SFR	MS	SS	07/11/06

Q:\CADD-77_00 OTHER OFFICES\94-FRESNO\PURITY OIL\2Q\F-18_SELENIUM_2Q06.dwg, cholt

Q:\CADD-94\Projects\Chevron\Purity Oil\Purity QMR\2006QMRs\1Q06

F-18_SELENIUM_1Q06.dwg

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APPENDIX A
Groundwater Monitoring and Sampling Procedures

Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

APPENDIX A
SAMPLING PROTOCOL

DEPTH TO WATER MEASUREMENTS

On May 18, 2006, depth-to-water measurements were collected from viable wells within the monitoring network. Viable wells are accessible and undamaged wells, without questionable integrity. Wells were gauged taking into account the relative distance from the source area and historical VOC-impacts discovered in each well.

SAMPLING SEQUENCE

Groundwater sampling was initiated on May 19, 2006. Sampling began with the off-site monitoring wells in relative order, farthest from the Site to the closest. The on-site monitoring wells that have extended well casings elevated above ground surface (MW-5D, MW-6S, MW-6D, and MW-8) were sampled on May 24, 2006. Monitoring well MW-7I was sampled on May 23, 2006, and monitoring well MW-7S was sampled on May 25, 2006

DECONTAMINATION PROCEDURE

All non-dedicated equipment placed down the well, which included only the water level indicator, was decontaminated prior to sampling the first well and between each well through the following steps, performed in this order:

- All debris and soil was brushed off/removed from the equipment.
- The equipment was rinsed and washed in soapy water using an Alconox™ and purified water solution.
- The equipment was then double rinsed in purified water.

Decontamination water was consolidated with purge water derived from the sampling process and was handled and disposed of in the same fashion.

PURGING OF WELLS

Monitoring Wells Equipped With QED MicroPurge Pumps

Prior to the initiation of purging a well, the static water level (SWL) was measured and documented. The well's dedicated pump was started utilizing its documented control settings and its flow rate confirmed by volumetric discharge measurement. If necessary, any minor modifications to the control settings to achieve the well's optimum flow rate were documented on the gauging sheet.

When the optimum pump flow rate was established, the SWL drawdown was allowed to stabilize within the required range for the purging of at least one pump system volume (bladder volume plus discharge tubing volume) which was followed by the collection of field measurements to include pH, temperature (°C), specific conductivity (mS/cm), oxygen reduction potential (mV), and dissolved oxygen (mg/L) using a QED model MP-20 in-line flow cell. Turbidity (NTU) measurements were collected using a LaMotte 2020e turbidity meter. All water chemistry field measurements were documented on the gauging sheet. Measurements were taken every three to five minutes until stabilization had been achieved. Stabilization was considered achieved after all parameters had stabilized for three consecutive readings. In lieu of measuring all five parameters, a minimum subset would include pH, conductivity, and

turbidity or dissolved oxygen. Three consecutive measurements indicating stability are within the following limits for each parameter:

- Temperature ± 3% of reading (minimum of ± 0.2 C)
- pH ± 0.2 units, minimum
- Conductance ± 03-05% of reading
- Dissolved Oxygen ± 0.2 mg/L
- Redox (ORP) ± 20 mv
- Turbidity ± 10% NTU (turbidity is not a water chemistry indicator parameter but is useful as an indicator of pumping stress on the formation)

When water quality parameters had stabilized and there had been relatively no change in the stabilized SWL (i.e., no continuous drawdown), sample collection was initiated.

Monitoring Wells Without QED Pumps

Production Wells

The production wells (MW-28P and MW-32P) were purged using the owner's installed system and modified for temporary use with the owner's permission. Adjustments to the well discharge line have been made so that purge discharge volumes can be assessed by a water meter totalizer while being diverted to a 500 gallon purge water tank for subsequent transport to the groundwater treatment system. Water levels in the wells were monitored with a water level indicator only prior to and after purging, and after sampling.

Extraction Wells

Extraction wells (EW-1 and EW-2) have historically needed only short purging periods at rates of 100 to 200 milliliters/min prior to sampling. However, more extensive purging was required this quarter due to the wells being temporarily shut down per the following: Effective June 3, 2005, extraction wells EW-1 and EW-2 were temporarily shut down as part of the Improvement Alternatives Evaluation for the groundwater operable unit (OU-1) at the Purity Oil Sales Superfund Site per the Final OU-1 Treatability Study Work Plan submitted to United States Environmental Protection Agency (USEPA) on April 29, 2005, and in accordance with the notification letter of work startup submitted to USEPA dated May 9, 2005. Extraction wells EW-1 and EW-2 will remain out of service for the duration of the study to provide the optimum sampling conditions. Quarterly groundwater sampling will continue during this period to obtain data on volatile organic compounds and manganese to evaluate if rebound conditions exist at the extraction wells. To ensure water sample quality, extraction wells EW-1 and EW-2 were reactivated and purged for 24 hours prior to sampling. Water levels in the wells were monitored with a water level indicator only prior to and after purging, and after sampling.

MONITORING WELLS NO LONGER SAMPLED

Monitoring wells MW-3 and MW-5S did not have QED pumps installed due to the lack of water available in each well. Due to the lack of water as a result of the downward trend in Site groundwater levels, groundwater samples were not collected from wells MW-3 and MW-5S. Both wells are sealed with PVC caps.

Other wells within the Purity Oil groundwater monitoring network not sampled are: MW-4 (abandoned), MW-15 (buried), MW-17 (buried), MW-22P (broken pump), MW-24 (lost),

MW-26P (gauged, pump not operating), MW-27P (sealed), MW-29P (gauged, pump destroyed), MW-30P (broken), MW-31P (gauged, pump not operating), MW-33P (pump not operating), MW-35P (pump not operating), and MW-36 (lost). The condition of each well within the monitoring well network is discussed in Table 2. A well destruction letter report dated February 8, 2006 was delivered to the USEPA Region 9 office describing the destruction of OU-1 monitoring wells MW-12, MW-14D, MW-14S, and MW-18 during the Fourth Quarter 2005.

COLLECTION OF GROUNDWATER SAMPLES

QED MicroPurge Sampling Method

This procedure is designed to collect representative groundwater samples using low-flow (minimal drawdown) purging and sampling methods. The objective is to purge and sample the well so that the water that is discharged from the pump, and subsequently collected, is representative of the formation water from the aquifer's identified zone of interest.

The wells to be sampled were equipped with dedicated QED Well Wizard™ bladder (squeeze-type) pumps manufactured by QED Environmental Systems, Inc. Each dedicated bladder pump is positioned with its inlet located within the saturated screened interval of the well. During sampling activities, compressed nitrogen was fed down one set of tubing which drives the bladder pump to force discharge water out through the Teflon-lined polyethylene (PE) tubing. The nitrogen pressure was regulated by a QED Micro Purge® sample pump controller and was adjusted according to the sample intake depth of the pump. Upon installation of the dedicated pumps, nitrogen refill and discharge times for each individual pump were optimized and programmed to achieve minimal drawdown of the SWL. If a significant change in initial water level occurs between events, it may be necessary to reestablish the optimum flow rate at each sampling event.

Production Wells

After three casing volumes had been removed or stabilization was achieved, clean unused polymer tubing was connected to a discharge valve on the adapted wellhead. The flow rate out of the discharge valve was reduced to approximately 100 to 200 milliliters/minute to reduce volatilization and left to run for a few moments. For VOC sample collection, the discharge tubing was used directly to fill the 40-milliliter glass containers. For metals sample collection, a 0.45-micron filter was connected to the tubing and water was forced through the filter into the appropriate poly container.

Extraction Wells

Clean and unused polymer tubing was connected to a discharge valve on the adapted well extraction system. The flow rate out of the discharge valve was reduced to approximately 100 to 200 milliliters/minute to reduce volatilization and left to run for a few moments. For VOC sample collection, the discharge tubing was used directly to fill the 40-milliliter glass containers. For metals sample collection, a 0.45-micron filter was connected to the tubing and water was forced through the filter into the appropriate poly container.

SAMPLE HANDLING AND PRESERVATION

Once the samples were decanted, their respective containers were securely sealed. Labels denoting the company, project name, sampling location, time, date and analysis required were affixed to each container. The samples were then appropriately packaged using bubble wrap and sealable plastic bags. Samples were placed in ice-chilled insulated coolers and were

preserved on ice until arrival at the designated state-certified laboratory following chain-of-custody procedure. Samples for VOC analysis; methane, ethane, ethene analysis; and Fe^{2+} analysis were preserved in containers with laboratory-added hydrochloric acid (HCl) acid. Samples sent in for metals analysis not collected from QED pumps were filtered in the field using a 0.45-micron filter. Samples collected for metals using MicroPurge techniques were not filtered. Containers with laboratory-added nitric acid (HNO_3) were used to preserve the filtered and unfiltered water for metals analysis. Samples for TOC analysis were preserved in containers with laboratory-added phosphoric acid (H_3PO_4).

QUALITY CONTROL SAMPLES COLLECTED IN FIELD

Trip Blanks

Trip Blanks were supplied by the laboratory. A single set accompanied each shipment of containers to the field and with samples to the laboratory. Trip blanks were only analyzed for VOCs. Cooler temperature was also assessed either by using the trip blank or a laboratory-provided temperature blank. The blanks were labeled as MWT1-57 through MWT5-57.

Where:

T = Trip Blank
1, 2, etc. = the day of the sampling event
57 = the 57th consecutive quarter of monitoring at the Site

Equipment Blanks

One equipment blank was collected each day of sampling using laboratory-supplied DI water to pour over the decontaminated water level indicator probe. Water that was poured over the probe was captured within the appropriate containers. Equipment blanks were collected and analyzed for VOCs only. The samples were labeled as "MWxxE-57".

Where:

xx = the well number
E = equipment blank
57 = the 57th consecutive quarter of monitoring at the Site

Duplicates

Field duplicates were collected on a frequency of 1 per 10 wells sampled (10 percent). 28 wells were sampled, so the remainder was rounded up. Duplicates were taken from monitoring wells MW-41, MW-7I, and MW-6D. Samples were filled following the same criteria as the field samples. Samples sent in for metals analysis collected using MicroPurge techniques were not filtered. Duplicate containers were labeled as "MWD1-57, MWD2-57, and MWD3-57".

Where:

MWDxx = a duplicate sample
xx = (1) the first duplicate collected, (2) the second duplicate collected, etc.
57 = the 57th consecutive quarter of monitoring at the Site

Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate (MS/MSD) samples were collected at a frequency of 1 per 20 wells sampled (5 percent). MS/MSD samples were collected in the field from monitoring well MW-38 and production well MW-28P. A suite of containers was filled for both the MS and

MSD portions of the sample using the same criteria for the primary sample collection. The matrix spike samples were labeled as "MWxxMS-57" and the matrix spike duplicates were labeled as "MWxxMSD-57".

Where:

xx = the well number
MS = the sample used for the matrix spike
MSD = the sample used for the matrix spike duplicate
57 = the 57th consecutive quarter of monitoring at the Site

APPENDIX B
Groundwater Sampling and Gauging Forms

Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

SECOR INTERNATIONAL INC.

GROUNDWATER GAUGING FORM

NAME: PURITY OIL 2nd QUARTER 2006 JOB NUMBER: 24CH.67004.06.0002

GAUGING INSTRUMENT: Durham Geo Slope Indicator #26118 DATE: 5/18/2006

WELL I.D.	WELL DIA.	TOTAL DEPTH (ft)	DEPTH TO WATER (ft TOC)	HEIGHT OF WATER COLUMN (ft)	SAMPLE COLLECTION POINT (TOC)	SYSTEM VOLUME (GAL)	WELL CONDITION & OTHER NOTES
MW-2S	5	64.85	54.05	10.80	60.0	0.116	GOOD
MW-2D	6	163.41	54.75	108.66	155.0	0.485	GOOD
MW-3	4	68.22	—	—	NA	NA	SEALED
MW-5S	4	75.86	—	—	NA	NA	SEALED
MW-5D	4	95.55	75.02	20.53	90.0	0.321	OK BOOM LIFT
MW-6S	5	78.33	71.27	7.06	75.0	0.137	OK BOOM LIFT
MW-6D	6	176.47	73.41	103.06	165.0	0.51	OK BOOM LIFT
MW-7S	4	79.23	68.79	10.44	75.0	0.137	OK BOOM LIFT
MW-7I	4	100.17	67.83	32.34	95.0	0.334	OK BOOM LIFT
MW-8	5	79.32	73.99	5.33	79.8	0.138	OK BOOM LIFT
MW-9	4	80.98	58.24	22.74	71.0	0.274	GOOD
MW-10	5	67.19	57.84	9.35	61.0	0.117	GOOD; ACCESS NOT EASY
MW-11	4	88.21	57.70	30.51	73.0	0.279	GOOD; ACCESS NOT EASY
MW-13	4	84.60	57.67	26.93	70.0	0.271	OK; EASILY ACCESSIBLE
MW-15	NA	NA	—	—	NA	NA	BURIED [walk thru main gate]
MW-16	5	77.83	71.27	6.56	76.8	0.134	GOOD
MW-17	NA	NA	—	—	NA	NA	BURIED
MW-19	5	64.42	58.66	5.76	63.8	0.116	METAL CASING BANGED UP
MW-20	4	78.08	58.30	19.78	68.0	0.266	OK; OVERGROWN, GROSS, NO LOCK

TOC - TOP OF CASING NA - NOT AVAILABLE

SECOR INTERNATIONAL INC.

GROUNDWATER GAUGING FORM

JOB NAME: PURITY OIL 2nd QUARTER 2006 **JOB NUMBER:** 24CH.67004.06.0002

GAUGING INSTRUMENT Durham Geo Slope Indicator #26118 **DATE:** 5/18/2006

WELL I.D.	WELL DIA.	TOTAL DEPTH (ft)	DEPTH TO WATER (ft TOC)	HEIGHT OF WATER COLUMN (ft)	SAMPLE COLLECTION POINT (TOC)	SYSTEM VOLUME (GAL)	WELL CONDITION & OTHER NOTES
MW-21	4	82.25	58.63	23.62	70.0	0.271	GOOD; OVERGROWN; NO LOCK
MW-22P	8	NA	—	—	NA	NA	BROKEN
MW-23	4	112.98	60.02	52.96	105.0	0.266	GOOD
MW-24	NA	NA	—	—	NA	NA	~~BROKEN~~ Destroyed
MW-25	5	67.48	59.43	8.05	65.8	0.118	GOOD
MW-26P	8	184.00	59.52	124.48	NA	NA	JERRY OPENED GATE; OK
MW-27P	6	NA	—	—	NA	NA	SEALED
MW-28P	6	195.00	61.10	133.9	NA	NA	GOOD
MW-29P	6	NA	60.81	—	NA	NA	GOOD
MW-30P	8	NA	—	—	NA	NA	BROKEN
MW-31P	6	82.50	61.06	21.44	NA	NA	SIDE IS RUSTED OUT
MW-32P	6	195.00	NA		NA	NA	MR. TAMA WAS NOT IN
MW-33P	8	130.00	60.02	69.98	NA	NA	GOOD
MW-34S	6	71.69	61.06	10.63	65.0	0.123	GOOD
MW-34I	6	121.96	61.34	60.62	110.0	0.372	GOOD
MW-34D	6	170.22	61.31	108.91	160.0	0.497	GOOD
MW-35P	6	120.00	—	—	NA	NA	NOT OPERATING
MW-36	NA	NA	—	—	NA	NA	LOST
MW-38	4	82.37	61.43	20.94	70.0	0.271	GOOD
MW-39	4	82.45	60.91	21.54	70.0	0.271	GOOD
MW-40	4	82.41	57.01	25.40	68.0	0.266	GOOD
MW-41	4	83.25	58.07	25.18	68.0	0.266	GOOD; OVERGROWN
EW-1	8	80.24	66.44	13.80	NA	NA	GOOD
EW-2	8	79.86	69.05	10.81	NA	NA	GOOD

TOC - TOP OF CASING NA - NOT AVAILABLE

T ned on 5/23/06 @ 0957

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: EW-1 | SCREEN INTERVAL:

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **EW1-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: NA

WELL TYPE: Monitor [ ] Production [ ] Extraction [X] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N N/A

DEPTH OF WELL (feet): 80.24 | CALCULATED PURGE (gal): NA

DEPTH TO WATER (feet): pump running | ACTUAL PURGE VOL. (gal): NA

STANDING WATER IN CASING (feet):

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/24/06 | START (2400 Hr): 1203 | END (2400 Hr): 1213

DATE SAMPLED: 5/24/06 | TIME (2400 Hr): 1230 | WATER LEVEL AT SAMPLE: pump running

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [X] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [X] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:
Turn well on 24 hours prior to sampling.
TURN WELL OFF AFTER SAMPLING.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume ~~(ml)~~ gal	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1211	10			22.80	1.51	6.77	-9	1.99	0.91	pale yellow	very strong H2S	1.4

Mn (mg/L): >> 0.70

Turned on @ 1058 on 5/23/06

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: EW-2 | SCREEN INTERVAL:

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **EW2-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: NA

WELL TYPE: Monitor [ ] Production [ ] Extraction [X] Other:

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N N/A

DEPTH OF WELL (feet): 79.86 | CALCULATED PURGE (gal): NA

DEPTH TO WATER (feet): pump running | ACTUAL PURGE VOL. (gal): NA

STANDING WATER IN CASING (feet):

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): SPOUT NEEDS TO BE REPLACED

DATE PURGED: 5/24/06 | START (2400 Hr): 1114 | END (2400 Hr): 1116

DATE SAMPLED: 5/24/06 | TIME (2400 Hr): 1125 | WATER LEVEL AT SAMPLE: pump running

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [X] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [X] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:
Turn well on 24 hours proir to sampling.
A lot of suspended fines. TURN WELL OFF AFTER SAMPLING.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (~~ml~~) gal	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1115	10			27.49	0.458	7.20	81	5.27	2.41	clear	none	0.0
												Mn (mg/L)
												0.42

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco
WELL ID: MW-2S
SAMPLE ID: **MW2S-57**
LOCATION: Malaga, California

SCREEN INTERVAL: 32.5 - 64.5
SAMPLE INTAKE DEPTH: 60.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:
CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [X] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 64.85
DEPTH TO WATER (feet): 54.09
STANDING WATER IN CASING (feet): 10.76

CALCULATED PURGE (gal): 0.116 (438 ML)
ACTUAL PURGE VOL. (gal): 0.25

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
GOOD

DATE PURGED: 5/19/06 START (2400 Hr): 0939 END (2400 Hr): 0955
DATE SAMPLED: 5/19/06 TIME (2400 Hr): 1000 WATER LEVEL AT SAMPLE: 54.16

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: Extremely Very poor producer.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0941	240		55.10	26.42	0.357	7.05	165	2.43	0.55	clear	none	0.0
0944	340		54.11	25.04	0.262	6.57	172	3.49	0.40			
0949	500		54.13	24.47	0.213	6.49	178	2.39				
												Mn (mg/L)
												0.05

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-2D | SCREEN INTERVAL: 143 - 163

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW2D-57** | SAMPLE INTAKE DEPTH: 155

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 163.41 | CALCULATED PURGE (gal): 0.485 (1834 ml)

DEPTH TO WATER (feet): 54.77 | ACTUAL PURGE VOL. (gal): 1.25 gallons

STANDING WATER IN CASING (feet): 109.64

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/19/06 | START (2400 Hr): 0853 | END (2400 Hr): 0901

DATE SAMPLED: 5/19/06 | TIME (2400 Hr): 0905 | WATER LEVEL AT SAMPLE: 55.06

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
GOOD ~~& GOOD PRODUCER~~

REMARKS: GOOD PRODUCER

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0856	800		54.92	22.15	0.506	6.91	163	4.53	0.00	clear	none	
0858	1700		54.94	20.75	0.509	7.32	157	1.17	0.11			0.0
0900	2200		54.91	20.66	0.506	7.44	161	0.90				
0902			55.03									
												Mn (mg/L)
												0.1

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-5D | SCREEN INTERVAL: 85.5-95.5

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW5D-57** | SAMPLE INTAKE DEPTH: 90.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 95.55 | CALCULATED PURGE (gal): 0.321 (1217 ml)

DEPTH TO WATER (feet): 75.07 | ACTUAL PURGE VOL. (gal): 1

STANDING WATER IN CASING (feet): 20.48

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/24/06 | START (2400 Hr): 1014 | END (2400 Hr): 1019

DATE SAMPLED: 5/24/06 | TIME (2400 Hr): 1030 | WATER LEVEL AT SAMPLE: 75.07

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS: Good producer.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1015	440			21.92	0.521	6.79	76	5.07	0.07	clear	none	
1016	1100		75.10	20.97	0.503	7.03	70	3.33				0.0
1019	1600		75.09	21.51	0.503	7.16	60	3.01	0.22			
												Mn (mg/L)
												>0.70

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-6S | SCREEN INTERVAL: 46.3-78.3

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW6S-57** | SAMPLE INTAKE DEPTH: 75.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [X] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): 80.24 | CALCULATED PURGE (gal): 0.137 (517 ml)

DEPTH TO WATER (feet): 71.39 | ACTUAL PURGE VOL. (gal): 0.5

STANDING WATER IN CASING (feet): 8.85

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/24/06 | START (2400 Hr): 1356 | END (2400 Hr): 1400

DATE SAMPLED: 5/24/06 | TIME (2400 Hr): 1410 | WATER LEVEL AT SAMPLE: 71.64

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) MW T4-57 @ 1530 / MW-6S E-57 @ 1540

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS: Moderate producer.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1357	240			25.35	1.64	7.03	29	3.63	15.0	pale yellow	moderate HC	1.4
1358	480		71.48	23.64	1.95	6.68	12	2.33	2.75			
1400	780		71.51	23.36	1.98	6.65	8	1.62	1.70			

Mn (mg/L): >10.70

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco

WELL ID: MW-6D
SAMPLE ID: **MW6D-57**
LOCATION: Malaga, California

SCREEN INTERVAL: 154-176
SAMPLE INTAKE DEPTH: 165.0

WELL TYPE: Monitor [ ] Production [ ] Extraction [X] Other:
CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 176.47
DEPTH TO WATER (feet): 73.36
STANDING WATER IN CASING (feet): 103.11

CALCULATED PURGE (gal): 0.51 (1929 ml)
ACTUAL PURGE VOL. (gal): 2

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/24/06 START (2400 Hr): 1259 END (2400 Hr): 1308
DATE SAMPLED: 5/24/06 TIME (2400 Hr): 1320 WATER LEVEL AT SAMPLE: 75.16

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) MWD 3 -57 @ NO time

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
OK

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:
Good producer.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1302	660			24.57	0.615	7.63	12	6.16	0.52	clear	none	
1304	1100		73.69	23.04	0.587	7.73	19	3.58	0.20			0.0
1305	1550		74.82	22.58	0.577	7.81	17	1.97	0.05			
1307	2200		73.89	22.53	0.571	7.82	20	1.57	0.32			
												Mn (mg/L)
												0.08

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-7S | SCREEN INTERVAL: 69.0-79.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW7S-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: 75.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 79.23 | CALCULATED PURGE (gal): 0.137 (517 ml)

DEPTH TO WATER (feet): 68.74 | ACTUAL PURGE VOL. (gal): 0.5

STANDING WATER IN CASING (feet): 10.49

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/25/06 | START (2400 Hr): 0730 | END (2400 Hr): 0736

DATE SAMPLED: 5/25/06 | TIME (2400 Hr): 0745 | WATER LEVEL AT SAMPLE: 68.93

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [X] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [MW] Sample Port

REMARKS: Slow, steady producer.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0732	100			18.94	1.336	7.41	142	7.31	1.11	clear	moderate	
0733	340		68.85	20.60	1.387	7.03	93	4.83	0.0		HC	2.1
0735	700		68.91	20.92	1.401	6.89	51	2.81	1.32			

Mn (mg/L): >0.70

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco
WELL ID: MW-7I
SAMPLE ID: **MW7I-57**
LOCATION: Malaga, California

SCREEN INTERVAL: 90.0-100.0
SAMPLE INTAKE DEPTH: 95.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:
CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 100.17
DEPTH TO WATER (feet): 67.82
STANDING WATER IN CASING (feet): 32.35
CALCULATED PURGE (gal): 0.334 (1264 ml)
ACTUAL PURGE VOL. (gal): 1.5

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
OK

DATE PURGED: 5/23/06 START (2400 Hr): 1313 END (2400 Hr): 1317
DATE SAMPLED: 5/23/06 TIME (2400 Hr): 1325 WATER LEVEL AT SAMPLE: 67.84

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)
MWD 2-57 @ No TIME / MW 3-57 @ 1440 / MW 7IE-57 @ 1450

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:
Prolific producer.

LOCK #:
REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1314	220			16.59	0.741	7.18	36	6.34	5.66	clear	mod. HC	0.0
1315	840		67.86	22.91	0.567	7.30	26	5.46	0.29			
1316	1200		67.84	22.54	0.555	7.16	22	4.75	0.08			
1317	1400											

Mn (mg/L): 0.0

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-8 | SCREEN INTERVAL: 47.0-79.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW8-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: 79.08

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 79.32 | CALCULATED PURGE (gal): 0.138 (523 ml)

DEPTH TO WATER (feet): 74.06 | ACTUAL PURGE VOL. (gal): 0.5

STANDING WATER IN CASING (feet): 5.26

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): Ok

DATE PURGED: 5/24/06 | START (2400 Hr): 0851 | END (2400 Hr): 0857

DATE SAMPLED: 5/24/06 | TIME (2400 Hr): 0905 | WATER LEVEL AT SAMPLE: 74.48

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: Poor producer. Tiny bubbles in discharge.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0855	220			20.40	1.97	6.80	111	5.72	1.98	clear	none	
0856	600		74.21	20.22	1.68	6.67	89	2.61				0.0
0857	800								2.91			

Mn (mg/L): 0.41

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CII.67004.06.0002 | WELL ID: MW-9 | SCREEN INTERVAL: 60.0-80.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW9-57** | SAMPLE INTAKE DEPTH: 71.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other: ____

CASING DIAMETER (inches): 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other: ____

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 80.98 | CALCULATED PURGE (gal): 0.274 (1036 ml)

DEPTH TO WATER (feet): 58.27 | ACTUAL PURGE VOL. (gal): 0.9

STANDING WATER IN CASING (feet): 22.71

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/23/06 | START (2400 Hr): 1019 | END (2400 Hr): 1024

DATE SAMPLED: 5/23/06 | TIME (2400 Hr): 1030 | WATER LEVEL AT SAMPLE: 58.25

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS: Good producer, steady output.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1020	300			23.45	0.568	6.63	73	5.67	0.14	clear	none	
1021	900		58.29	21.50	0.560	6.89	60	2.85	0.00			0.0
1024	1250		58.23	21.51	0.571	6.95	54	1.32				
												Mn (mg/L)
												0.29

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-10 | SCREEN INTERVAL: 35.0-67.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW10-57** | SAMPLE INTAKE DEPTH: 61.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 67.19 | CALCULATED PURGE (gal): 0.117 (443 ml)

DEPTH TO WATER (feet): 57.86 | ACTUAL PURGE VOL. (gal): 0.5

STANDING WATER IN CASING (feet): 9.33

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/23/06 | START (2400 Hr): 1143 | END (2400 Hr): 1148

DATE SAMPLED: 5/23/06 | TIME (2400 Hr): 1200 | WATER LEVEL AT SAMPLE: 58.47

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

REMARKS: Weak and slow producer.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor: strong ~~slight~~	Fe^{2+} (mg/L)
1145	180			25.00	1.044	6.97	21	4.58	1.02	pale		
1147	500		57.96	23.78	1.342	6.62	7	3.84	20.9	pink	hydro-carbon	1.4

Mn (mg/L): ~~0.70~~

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-11 | SCREEN INTERVAL: 58.0-88.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW11-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: 73.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 88.21 | CALCULATED PURGE (gal): 0.279 (1055 ml)

DEPTH TO WATER (feet): 57.73 | ACTUAL PURGE VOL. (gal): 0.9

STANDING WATER IN CASING (feet): 30.48

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/23/06 | START (2400 Hr): 1111 | END (2400 Hr): 1117

DATE SAMPLED: 5/23/06 | TIME (2400 Hr): 1125 | WATER LEVEL AT SAMPLE: 57.74

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS: Excellent and consistent producer.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1113	140			25.40	0.551	7.15	53	3.24	0.09	clear	none	0.0
1114	620		57.76	22.54	0.394	6.98	50	4.99				
1116	1200		57.77	22.28	0.373	7.05	46	1.85	0.0			
												Mn (mg/L)
												0.1

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-13 | SCREEN INTERVAL: 54.0-84.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW13-57** | SAMPLE INTAKE DEPTH: 70.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches): 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? N/A Y N

DEPTH OF WELL (feet): 84.60 | CALCULATED PURGE (gal): 0.271 (1026 ml)

DEPTH TO WATER (feet): | ACTUAL PURGE VOL. (gal): N/A

STANDING WATER IN CASING (feet):

WATER LEVEL ONLY, NO SAMPLE COLLECTED: N/A [ ]

DATE PURGED: 5/23/6 | START (2400 Hr): 0930 | END (2400 Hr): 1230

DATE SAMPLED: | TIME (2400 Hr): | WATER LEVEL AT SAMPLE:

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)

OK

REMARKS: NOT ACCESSIBLE
Good producer. FOR SAMPLING
Pick-A-Part fence erected
btw Site & well. Too dangerous
to drive truck into P-A-P.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
	NOTE:						Pick-A-Part					
	Pick-a-Part re: MW-13 access on 5/23/6 Linda @ 647-0643					N/A	re: MW-13 access on 5/23/6 Linda					Mn (mg/L)

GW sample field data sheet xls

485-3071 | 647-0643 | 485-3071

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-16 | SCREEN INTERVAL: 45.8-77.8

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW16-57** | SAMPLE INTAKE DEPTH: 76.8

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [ ] Production [ ] Extraction [X] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 77.83 | CALCULATED PURGE (gal): 0.134 (506 ml)

DEPTH TO WATER (feet): 71.41 | ACTUAL PURGE VOL. (gal): 0.33

STANDING WATER IN CASING (feet): 6.42

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/23/06 | START (2400 Hr): 0850 | END (2400 Hr): 0856

DATE SAMPLED: 5/23/06 | TIME (2400 Hr): 0905 | WATER LEVEL AT SAMPLE: 71.69

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

REMARKS: Poor producer.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0852	160			20.51	0.806	7.04	141	4.33	0.20	clear	none	
0854	300		71.38	21.00	0.735	6.62	132	4.80				0.0
0855	500		71.42						0.37			
0856	640			20.94	0.693	6.51	123	3.65	0.17			
												Mn (mg/L)
												0.15

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-19 | SCREEN INTERVAL: 32.0-64.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW19-57** | SAMPLE INTAKE DEPTH: 63.08

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [X] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 64.42 | CALCULATED PURGE (gal): 0.116 (438 ml)

DEPTH TO WATER (feet): 58.71 | ACTUAL PURGE VOL. (gal): 0.5

STANDING WATER IN CASING (feet): 5.71

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/23/06 | START (2400 Hr): 0733 | END (2400 Hr): 0740

DATE SAMPLED: 5/23/06 | TIME (2400 Hr): 0750 | WATER LEVEL AT SAMPLE: 59.11

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
(SAME)
Somewhat maimed; dented but workable.

REMARKS: SLOW, MEAGER, WIMPY PRODUCER

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0737	160			19.38	0.756	7.59	34	6.03	0.09	clear	none	0.0
0739	400		58.51	19.95	0.816	7.54	233	4.48	0.0			
0740	600		58.84	20.31	0.828	7.52	224	0.10				
												Mn (mg/L)
												0.17

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: Chevron Texaco

WELL ID: ~~MW-2~~ MW-20
SAMPLE ID: MW20-57
LOCATION: Malaga, California

SCREEN INTERVAL: 52.0-82.0
SAMPLE INTAKE DEPTH: 70.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches): 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N
CLOSED

DEPTH OF WELL (feet): 82.25
DEPTH TO WATER (feet): 58.30
STANDING WATER IN CASING (feet): 23.95

CALCULATED PURGE (gal): 0.271 (1027 ml)
ACTUAL PURGE VOL. (gal): 1

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
STILL MISSING LOCK; OK
Missing lock but O.K.

DATE PURGED: 5/22/06 START (2400 Hr): 0951 END (2400 Hr): 0955
DATE SAMPLED: 5/22/06 TIME (2400 Hr): 1000 WATER LEVEL AT SAMPLE: 58.32

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: PROLIFIC PRODUCER

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0952	400			20.78	0.228	7.79	68	6.67	0.0	clear	none	
0954	1000		58.33	19.73	0.195	8.05	63	6.84	0.0			0.0
												Mn (mg/L)
												0.05

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-21 | SCREEN INTERVAL: 52.0-82.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW21-57** | SAMPLE INTAKE DEPTH: 70.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N — CLOSED

DEPTH OF WELL (feet): 82.25 | CALCULATED PURGE (gal): 0.271 (1027 ml)

DEPTH TO WATER (feet): 58.64 | ACTUAL PURGE VOL. (gal): 1.25

STANDING WATER IN CASING (feet): 23.61

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/22/06 | START (2400 Hr): 0857 | END (2400 Hr): 0904

DATE SAMPLED: 5/22/06 | TIME (2400 Hr): 0910 | WATER LEVEL AT SAMPLE: 58.64

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
still missing lock
Missing lock but O.K.

REMARKS: GOOD PRODUCER

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0859	300			19.43	0.633	7.46	79	5.85	0.04	clear	none	0.0
0901	800		58.66	20.22	0.580	7.38	85	4.55	0.15			
0903	1300		58.65	19.86	0.578	7.32	88	3.29	0.21			
												Mn (mg/L)
												0.05

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-23 | SCREEN INTERVAL: 99.0-115.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW23-57** | SAMPLE INTAKE DEPTH: 105.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 112.98 | CALCULATED PURGE (gal): 0.266 (1008 ml)

DEPTH TO WATER (feet): 60.06 | ACTUAL PURGE VOL. (gal): 1

STANDING WATER IN CASING (feet): 52.92

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/22/06 | START (2400 Hr): 0812 | END (2400 Hr): 0818

DATE SAMPLED: 5/22/06 | TIME (2400 Hr): 0825 | WATER LEVEL AT SAMPLE: 60.08

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: Prolific producer.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
0814	480			18.78	0.723	6.80	143	6.21	0.20	clear	none	
0815	800		60.11	20.32	0.716	6.91	135	2.45	0.03			0.0
0817	1400		60.10	20.25	0.758	7.21	130	0.95				
												Mn (mg/L)
												0.46

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-25 | SCREEN INTERVAL: 36.0-66.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW25-57** | SAMPLE INTAKE DEPTH: 65.1

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [X] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 67.48 | CALCULATED PURGE (gal): 0.118 (449 ml)

DEPTH TO WATER (feet): 59.48 | ACTUAL PURGE VOL. (gal): 0.4

STANDING WATER IN CASING (feet): 8.00

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/22/06 | START (2400 Hr): 1308 | END (2400 Hr): 1313

DATE SAMPLED: 5/22/06 | TIME (2400 Hr): 1325 | WATER LEVEL AT SAMPLE: 59.54

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD): MW T2-57 @ 1430 / MW 25 E-57 @ 1445

REMARKS: NOT SO GOOD Poor producer. PRODUCER

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1309	160			23.96	0.851	7.44	40	5.93	0.10	clear	None	
1310	280		59.51	22.71	0.759	7.51	38	6.09	0.06			0.0
1312	500		59.52	22.33	0.746	7.33	36	4.54				

Mn (mg/L)
0.45

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-28P | SCREEN INTERVAL: NA

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW28P-57** | SAMPLE INTAKE DEPTH: NA

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [ ] Production [X] Extraction [ ] Other:

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N N/A

DEPTH OF WELL (feet): 195.00 | CALCULATED PURGE (gal): 500

DEPTH TO WATER (feet): 61.03 | ACTUAL PURGE VOL. (gal): >500 (1032)

STANDING WATER IN CASING (feet): 133.97

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/25/06 | START (2400 Hr): 0953 | END (2400 Hr): 1018

DATE SAMPLED: 5/25/06 | TIME (2400 Hr): ~~1010~~ 1110 | WATER LEVEL AT SAMPLE: 61.12

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD): **MW28PMS-57, MW28PMSD-57**

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [X] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [X] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:

LOCK #:

REVIEWED BY: DATE:

STARTING PT. ON TOTALIZER: 3540748O

FIELD MEASUREMENTS

Time (hours)	Volume ~~(ml)~~ gal	Flow Rate ~~(ml~~/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
~~0957~~ 1004	~~282~~ 2	~21		21.18	0.592	7.38	14	4.71	0.29	clear	none	
1006	282	~21		21.18	0.590	7.39	18	4.72	0.19			0.0
1008	332	~21		21.19	0.589	7.39	20	4.66	0.02			
1011	392	~21		21.17	0.589	7.40	22	4.72	0.0			
1013	422	~21		21.19	0.588	7.39	24	4.71	0.0			
1016	492			21.19	0.588	7.40	25	4.70	0.0			
												Mn (mg/L)
												0.0

GW sample field data sheet.xls

ENDING PT. ON TOTALIZER: 3541780

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-32P | SCREEN INTERVAL: NA

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW32P-57** | SAMPLE INTAKE DEPTH: NA

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [ ] Production [X] Extraction [ ] Other:

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 195.00 | CALCULATED PURGE (gal): 500

DEPTH TO WATER (feet): 60.57 | ACTUAL PURGE VOL. (gal):

STANDING WATER IN CASING (feet): 134.43

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): OK

DATE PURGED: 5/25/06 | START (2400 Hr): 1240 | END (2400 Hr): 1307

DATE SAMPLED: 5/25/06 | TIME (2400 Hr): 1400 | WATER LEVEL AT SAMPLE: 60.61

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD): MW T5-57 @ 1520 / MW32PE-57 @ 1530 DI #3

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [X] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [X] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1248	160	~22		22.19	0.740	7.32	-1	0.94	1.37			
1250	220	~22		22.13	0.725	7.34	-1	0.65	0.48			0.0
1254	300	~22		22.13	0.717	7.35	1	0.51	0.37			
1257	350	~22		22.10	0.713	7.35	3	0.44	[illegible]			
1259	400	~22		22.09	0.710	7.35	5	0.43	0.36			
1303	500	~22		21.99	0.708	7.36	6	0.42	0.19			Mn (mg/L)
1342	580	~22		22.12	0.70	7.38	-11	1.79	1.30			
1345	630	~22		22.03	0.741	7.36	-16	1.02				
1347	700	~22		21.96	0.712	7.39	-16	0.88	0.42			0.0
1351	900			21.91	0.697	7.39	-15	0.54	0.14			

TOTALIZER START: 3541780 TOTALIZER END: 3542850

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-34S | SCREEN INTERVAL: 48.0-72.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW34S-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: 65.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2[ ] 4[ ] 5[ ] 6[X] 8[X] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 71.69 | CALCULATED PURGE (gal): 0.123 (464 ml)

DEPTH TO WATER (feet): 61.06 | ACTUAL PURGE VOL. (gal): 0.75

STANDING WATER IN CASING (feet): 10.63

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/22/06 | START (2400 Hr): 1202 | END (2400 Hr): 1207

DATE SAMPLED: 5/22/06 | TIME (2400 Hr): 1215 | WATER LEVEL AT SAMPLE: 61.06

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: MEAGER, WEAK, Poor producer. No dupes, etc... SLOW, LOW VOLUME, ETC.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1203	150		61.06	24.41	0.811	7.67	20	1.36	0.20	clear	none	0.0
1205	320		61.07	23.16	0.841	7.75	26	4.51	0.06			
1206	680		61.06	22.84	0.886	7.59	27	5.39				
												Mn (mg/L)
												0.05

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-341 | SCREEN INTERVAL: 98.0-122.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW34I-57** | SAMPLE INTAKE DEPTH: 110.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): 121.96 | CALCULATED PURGE (gal): 0.372 (1407 ml)

DEPTH TO WATER (feet): 61.34 | ACTUAL PURGE VOL. (gal): 1

STANDING WATER IN CASING (feet): 60.62

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/22/06 | START (2400 Hr): 1130 | END (2400 Hr): 1135

DATE SAMPLED: 5/22/06 | TIME (2400 Hr): 1140 | WATER LEVEL AT SAMPLE: 61.33

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: (SAME) Good producer.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1132	300			23.46	0.616	8.14	42	5.95	0.0	clear	none	0.0
1133	900		61.36	22.53	0.763	7.78	86	3.57	0.0			
1134	1500		61.34	22.27	0.811	7.67	32	1.72	0.0			

Mn (mg/L): 0.10

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco
WELL ID: MW-34D
SAMPLE ID: **MW34D-57**
LOCATION: Malaga, California

SCREEN INTERVAL: 146.0-170.0
SAMPLE INTAKE DEPTH: 160.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:
CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 170.22
DEPTH TO WATER (feet): 61.33
STANDING WATER IN CASING (feet): 108.89

CALCULATED PURGE (gal): 0.497 (1882 ml)
ACTUAL PURGE VOL. (gal): 1.25

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

DATE PURGED: 5/22/06
START (2400 Hr): 1038
END (2400 Hr): ~~1053~~ 1047

DATE SAMPLED: 5/22/06
TIME (2400 Hr): 1055
WATER LEVEL AT SAMPLE: 61.33

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

REMARKS: PROLIFIC, STEADY PRODUCER; LOTS OF WATER

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1039	400		61.33	21.45	0.440	8.24	45	6.98	~~0.0~~ 0.29	clear	none	0.0
1041	1000		61.33	21.86	0.526	7.92	44	4.06	0.02			
1043	1400		61.33	21.77	0.542	7.80	43	3.08	0.11			
1045	1700		61.33	21.72	0.546	7.74	44	3.09	0.10			
1047	2400		61.33	21.69	0.546	7.71	45	3.19				
												Mn (mg/L)
												0.11

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-38 | SCREEN INTERVAL: 50.0-80.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW38-57** | SAMPLE INTAKE DEPTH: 70.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 82.37 | CALCULATED PURGE (gal): 0.271 (1026 ml)

DEPTH TO WATER (feet): 61.43 | ACTUAL PURGE VOL. (gal): 1.25

STANDING WATER IN CASING (feet): 20.94

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/19/06 | START (2400 Hr): 1258 | END (2400 Hr): 1305

DATE SAMPLED: 5/19/06 | TIME (2400 Hr): 1315 | WATER LEVEL AT SAMPLE: 61.45

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD): **MW38MS-57, MW38MSD-57**

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS: ~~Great and prolific producer.~~ STEADY, SLOW PRODUCER

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1300	360			25.37	0.923	7.17	77	5.50	0.00	clear	none	0.0
1302	840	~~[illegible]~~	61.46	23.34	1.00	7.16	64	5.78	0.02			
1304	1200		61.45	23.22	1.036	7.05	55	5.63	0.00			

Mn (mg/L): 0.12

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-39 | SCREEN INTERVAL: 50.0-80.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW39-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: 70.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other: ____

CASING DIAMETER (inches): 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other: ____

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 82.45 | CALCULATED PURGE (gal): 0.271 (1026ml)

DEPTH TO WATER (feet): 60.92 | ACTUAL PURGE VOL. (gal): ~~0~~ 1.25

STANDING WATER IN CASING (feet): 21.53

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/19/06 | START (2400 Hr): 1409 | END (2400 Hr): 1422

DATE SAMPLED: 5/19/06 | TIME (2400 Hr): 1425 | WATER LEVEL AT SAMPLE: 0.92

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD): MW39E-57 @ 1530 / MW-1-57 @ 1335

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS:

~~Decent producer.~~ UNIMPRESSIVE, MEAGER, CONSISTANT PRODUCER (~15 ml per "squish")

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1411	320			29.10	1.167	7.45	72	5.66	0.17	clear	none	0.0
1414	580		60.92	26.91	1.140	7.36	60	5.85	0.20			
1417	880		60.92	26.25	1.135	6.94	56	4.74	0.0			
1420	1150		60.92	25.83	1.136	6.86	57	4.12	0.0			
												Mn (mg/L)
												0.15

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-40 | SCREEN INTERVAL: 51.0-81.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW40-57** | SAMPLE INTAKE DEPTH: 68.0

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [ ] Production [ ] Extraction [X] Other:

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 82.41 | CALCULATED PURGE (gal): 0.266 (1008ml)

DEPTH TO WATER (feet): 56.99 | ACTUAL PURGE VOL. (gal): 0.75

STANDING WATER IN CASING (feet): 25.42

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/19/06 | START (2400 Hr): 1205 | END (2400 Hr): 1211

DATE SAMPLED: 5/19/06 | TIME (2400 Hr): 1215 | WATER LEVEL AT SAMPLE: 57.01

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD)

REMARKS: Good producer.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1206	400		56.99	27.37	0.945	6.84	100	4.91	0.13	clear	none	0.0
1208	780		57.01	23.61	0.947	6.97	92	5.12	0.00			
1210	1000		57.01	23.32	0.950	6.78	89	3.67				
1211	1040											

Mn (mg/L): 0.07

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-41 | SCREEN INTERVAL: 50.0-80.0

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: **MW41-57**

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California | SAMPLE INTAKE DEPTH: 68.0

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other:

CASING DIAMETER (inches) 2 [ ] 4 [X] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? (Y) N

DEPTH OF WELL (feet): 83.25 | CALCULATED PURGE (gal): 0.266 (1008ml)

DEPTH TO WATER (feet): 58.08 | ACTUAL PURGE VOL. (gal): ~~1~~

STANDING WATER IN CASING (feet): 25.17

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.): GOOD

DATE PURGED: 5/19/06 | START (2400 Hr): 1100 | END (2400 Hr): 1105

DATE SAMPLED: 5/19/06 | TIME (2400 Hr): 1110 | WATER LEVEL AT SAMPLE: 58.06

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) **MWD 1 -57**

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [X] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [X] Sample Port

REMARKS: Good producer.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
1101	420			25.39	0.728	7.11	114	5.94	0.0	clear	none	
1103	1200		58.12	21.46	0.928	6.22	112	2.53	0.12			0.0
1104	1600			21.30	0.931	6.19	110	2.34				
1105			58.09									

Mn (mg/L): 0.7 †

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco

WELL ID: MW-30
SAMPLE ID: **MW30-57**
LOCATION: Malaga, California

SCREEN INTERVAL:
SAMPLE INTAKE DEPTH: NA

WELL TYPE: Monitor [X] Production [ ] Extraction [ ] Other: 5/18/06

CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): NA
DEPTH TO WATER (feet): N/A
STANDING WATER IN CASING (feet): NA

CALCULATED PURGE (gal): NA
ACTUAL PURGE VOL. (gal): NA

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [ ]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)

DATE PURGED: NA START (2400 Hr): NA END (2400 Hr): NA

DATE SAMPLED: NA TIME (2400 Hr): NA WATER LEVEL AT SAMPLE: NA

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) **NA**

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [ ] Sample Port

REMARKS:
Not functional.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
												Mn (mg/L)
												NA

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco
WELL ID: MW-26P
SAMPLE ID: **MW26P-57**
LOCATION: Malaga, California
SCREEN INTERVAL: 172-1172-184
SAMPLE INTAKE DEPTH: NA

WELL TYPE: Monitor [ ] Production [X] Extraction [ ] Other: 5/18/06
CASING DIAMETER (inches) 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:
WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): 184.00
DEPTH TO WATER (feet): 231.27
STANDING WATER IN CASING (feet):
CALCULATED PURGE (gal): NA
ACTUAL PURGE VOL. (gal): NA
WATER LEVEL ONLY, NO SAMPLE COLLECTED: [X]

DATE PURGED: NA START (2400 Hr): NA END (2400 Hr): NA
DATE SAMPLED: NA TIME (2400 Hr): NA WATER LEVEL AT SAMPLE: NA
QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) NA

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)
Well head is in fair condition.

PURGING METHOD
- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD
- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [ ] Sample Port

REMARKS:
Pump system does not work. Problems with the electrical connections at pump.

LOCK #:
REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA

Mn (mg/L)
NA

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco

WELL ID: MW-29P
SAMPLE ID: **MW29P-57**
LOCATION: Malaga, California

SCREEN INTERVAL: 97-154
SAMPLE INTAKE DEPTH: NA

WELL TYPE: Monitor [ ] Production [X] Extraction [ ] Other: 5/18/06

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): 80.24
DEPTH TO WATER (feet): 28.07
STANDING WATER IN CASING (feet):

CALCULATED PURGE (gal): NA
ACTUAL PURGE VOL. (gal): NA

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [X]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)

DATE PURGED: NA START (2400 Hr): NA END (2400 Hr): NA

DATE SAMPLED: NA TIME (2400 Hr): NA WATER LEVEL AT SAMPLE: NA

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) **NA**

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [ ] Sample Port

REMARKS:
Pump system is destroyed.
Not functional.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
												Mn (mg/L)
												NA

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002
SAMPLER: Matt Soby/Kim Wood
CLIENT NAME: ChevronTexaco

WELL ID: MW-31P
SAMPLE ID: **MW31P-57**
LOCATION: Malaga, California

SCREEN INTERVAL: NA
SAMPLE INTAKE DEPTH: NA

WELL TYPE: Monitor [ ] Production [X] Extraction [ ] Other: 5/18/06

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [ ] 6 [X] 8 [ ] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): 80.24
DEPTH TO WATER (feet): 29.38
STANDING WATER IN CASING (feet): NA

CALCULATED PURGE (gal): NA
ACTUAL PURGE VOL. (gal): NA

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [X]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)

DATE PURGED: NA START (2400 Hr): NA END (2400 Hr): NA

DATE SAMPLED: NA TIME (2400 Hr): NA WATER LEVEL AT SAMPLE: NA

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD) **NA**

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [ ] Sample Port

REMARKS:
The above ground pump system including wiring and piping is destroyed.
Not functional.

LOCK #:

REVIEWED BY: DATE:

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
												Mn (mg/L)
												NA

PURITY OIL GROUNDWATER SAMPLE FIELD DATA SHEET

SECOR

PROJECT NO: 24CH.67004.06.0002 | WELL ID: MW-33P | SCREEN INTERVAL: NA

SAMPLER: Matt Soby/Kim Wood | SAMPLE ID: MW33P-57 | SAMPLE INTAKE DEPTH: NA

CLIENT NAME: ChevronTexaco | LOCATION: Malaga, California

WELL TYPE: Monitor [ ] Production [X] Extraction [ ] Other: 5/18/06

CASING DIAMETER (inches): 2 [ ] 4 [ ] 5 [ ] 6 [ ] 8 [X] Other:

WELLHEAD SECURED UPON DEPARTURE? Y N

DEPTH OF WELL (feet): 130.00 | CALCULATED PURGE (gal): NA

DEPTH TO WATER (feet): 27.84 | ACTUAL PURGE VOL. (gal): NA

STANDING WATER IN CASING (feet): NA

WATER LEVEL ONLY, NO SAMPLE COLLECTED: [X]

WELL CONDITION (cap, cement, padlock, screws, lid, etc.)

The well network seems to be in order. The well power box has been deactivated and it is apparent that the well has not been used for some time.

DATE PURGED: NA | START (2400 Hr): NA | END (2400 Hr): NA

DATE SAMPLED: NA | TIME (2400 Hr): NA | WATER LEVEL AT SAMPLE: NA

QA SAMPLES COLLECTED AT THIS WELL (e.g.: FD, EB, MS/MSD): NA

REMARKS: Pump system is not functional.

LOCK #:

REVIEWED BY: DATE:

PURGING METHOD

- [ ] 2" Grundfos Pump
- [ ] Centrifugal Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other: Pump is continuously run.
- [ ] Bailer (Teflon)
- [ ] Bailer (PVC)
- [ ] Bailer (Stainless Steel)
- [ ] Dedicated Pump

SAMPLING METHOD

- [ ] 2" Grundfos Pump
- [ ] Dedicated Pump
- [ ] Submersible Pump
- [ ] Micro-Purge Bladder Pump
- [ ] Other:
- [ ] Disposable Bailer
- [ ] Bailer (Stainless Steel)
- [ ] Sample Port

FIELD MEASUREMENTS

Time (hours)	Volume (ml)	Flow Rate (ml/min)	DTW (ft btoc)	Temp (celcius)	Sp. Cond. (mS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Color (visual)	Odor:	Fe^{2+} (mg/L)
	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
												Mn (mg/L)
												NA

APPENDIX C
Chain-of-Custody Forms

Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
242376
Acct. #: 11408 Sample #: 4776670-91 SCR#: 28215

gr# 990402

Facility #: Parity oil
Site Address: 3281 S. Maple Ave Malaga CA 93725
Chevron PM: Bob Mihalovich Lead Consultant: SECOR
Consultant/Office: 3475 W. Shaw Ave #104 Fresno CA 93711
Consultant Prj. Mgr.: Frank Gegunde
Consultant Phone #: 559-271-2650 Fax #: -5108
Sampler: Matt Sixby / Kim Wood
Service Order #: 242H.87004.06.0002 ☐ Non SAR:

Analyses Requested / **Preservation Codes**

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan VOC	Oxygenates	Lead 7420 ☐ 7421 ☐	8015B Methane Ethane Ethylene	COD	Fe 2+	Metals (Fe, Mn, As, Se)	SO4, Cl-, NO3, Alk	TOC
Preservation Codes													H			H	—	H	N	—	O
MW20-57	H2O	NO	—	06 05 19	0905	NO	X		13				X			X	X	X	X	X	X
MW25-57					1000		X						X			X	X	X	X	X	X
MW41-57					1110		X						X			X	X	X	X	X	X
MW40-57					1215		X						X			X	X	X	X	X	X
MW38-57					1315		X						X			X	X	X	X	X	X
MW39-57					1425		X						X			X	X	X	X	X	X
MWD1-57					—		X						X			X	X	X	X	X	X
MW38MS-57					1315		X						X			X	X	X	X	X	X
MW38MSD-57					1315		X						X			X	X	X	X	X	X
MW39E-57					1530		X		3				X								
MWT1-57					1535		X		3				X								

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
5 coolers

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by	Date	Time	Received by	Date	Time
[signature]	[illegible]	[illegible]			
[signature]	5/19/6	1630			
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			[signature]	5/20/06	1000

Temperature Upon Receipt 2.6-3.7 C°
Custody Seals Intact? (Yes) No

3460 Rev. 10/04/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11408 | For Lancaster Laboratories use only — Sample #: 4777546-61 | SCR#: 242377

Group# 990556

Facility #: Purity Oil - OML

Site Address: 3281 S. Maple Ave Malaga CA 93725

Chevron PM: Bob Mihalovich | Lead Consultant: SECOR

Consultant/Office: 3475 W. Shaw Ave 104 Fresno CA 93711

Consultant Prj. Mgr.: Frank Cegunda

Consultant Phone #: 559-271-2650 | Fax #: -5108

Sampler: Matt Sob

Service Order #: 24CH5 7004 06.2002 | ☐ Non SAR:

Analyses Requested

Field Point Name (SAMPLE ID)	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan VOC	Oxygenates	Lead 7420 ☐ 7421 ☐	8015B methane ethane ethene	COD	TOC	Fe2+	Metals (Fe, Mn, As, Se)	SO4, Cl-, NO3, Alk
Preservation Codes													H			H	—	O	H	N	—
MW23-57	H2O	NO	—	06 05 22	0825	NO	X		13				X			X	X	X	X	X	X
MW21-57	H2O	NO	—	06 05 22	0910	NO	X		13				X			X	X	X	X	X	X
MW20-57	H2O	NO	—	06 05 22	1000	NO	X		13				X			X	X	X	X	X	X
MW34D-57	H2O	NO	—	06 05 22	1055	NO	X		13				X			X	X	X	X	X	X
MW 34I-57	H2O	NO	—	06 05 22	1140	NO	X		13				X			X	X	X	X	X	X
MW 34S-57	H2O	NO	—	06 05 22	1215	NO	X		13				X			X	X	X	X	X	X
MW25-57	H2O	NO	—	06 05 22	1325	NO	X		13				X			X	X	X	X	X	X
MWT2-57	H2O	NO	—	06 05 22	1430	NO	X		3				X								
MW25E-57	H2O	NO	—	06 05 22	1445	NO	X		3				X								

Preservative Codes
H = HCl | T = Thiosulfate
N = HNO_3 | B = NaOH
S = H_2SO_4 | O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
4 coolers

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) | 72 hour | 48 hour
24 hour | 4 day | 5 day

Data Package Options (please circle if required)
QC Summary | Type I – Full
Type VI (Raw Data) | ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: [signature]	05/22/06	1630	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other 4 coolers ranges			Received by: [signature]	5/23/06	0900
Temperature Upon Receipt 1.2-2.4 C°			Custody Seals Intact? (Yes) No		

3460 Rev 10/04/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Chevron California Region Analysis Request/Chain of Custody

242378

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11408 Sample #: 4778502-17 SCR#:
Group# 990746

Facility #: Purity OIL
Site Address: 3281 S. Maple Ave Maloga CA 93725
Chevron PM: Bob Mihalovich Lead Consultant: SECOR
Consultant/Office: 3475 W. Shaw Ave 104 Fresno CA 93711
Consultant Prj. Mgr.: Frank Cognile
Consultant Phone #: 559-271-2650 Fax #: -5708
Sampler: Matt Soby
Service Order #: 24H-6700428-002 ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan VOC	Oxygenates	Lead 7420 ☐ 7421 ☐	8015B methane ethane ethene	COD	TOC	Fe27	Metals (Fe, Mn, As, Se)	SO4, Cl-, NO3, Alk
MW29-57	H2O	NO	—	06 05 23	0750	NO	X		13				X			X	X	X	X	X	X
MW16-57	H2O	NO	—	06 05 23	0905	NO	X		13				X			X	X	X	X	X	X
MW9-57	H2O	NO	—	06 05 23	1030	NO	X		13				X			X	X	X	X	X	X
MW11-57	H2O	NO	—	06 05 23	1125	NO	X		13				X			X	X	X	X	X	X
MW10-57	H2O	NO	—	06 05 23	1200	NO	X		13				X			X	X	X	X	X	X
MW7I-57	H2O	NO	—	06 05 23	1325	NO	X		13				X			X	X	X	X	X	X
MWD2-57	H2O	NO	—	06 05 23	[illegible]	NO	X		13				X			X	X	X	X	X	X
MWT3-57	H2O	NO	—	06 05 23	1440	—	X		3				X								
MW7IE-57	H2O	NO	—	06 05 23	1450	—	X		3				X								

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
4 coolers

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by: [signature]	5/23/6	1630	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by: [signature]	5/24/06	0905
Temperature Upon Receipt 4 coolers C° 2.1°-3.5°			Custody Seals Intact? Yes No		

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

242379

For Lancaster Laboratories use only
Acct. #: 11408 Sample #: 4779358 - 73 SCR#:

Group# 990924

Facility #: Purity oil - oml
Site Address: 3281 S. Maple Ave malaga CA 93711
Chevron PM: Bob Mihalovich Lead Consultant: SECOR
Consultant/Office: 3475 W. Shaw Ave #104 Fresno CA 93711
Consultant Prj. Mgr.: Frank Gegunde
Consultant Phone #: 559-271-2650 Fax #: -5108
Sampler: Matt Sob / Kim Wood
Service Order #: 24CH.6004.06.0002 ☐ Non SAR:

Analyses Requested — Preservation Codes: 8260 full scan = H; 8015 B = H; COD = —; TOC = O; Fe2+ = H; Metals = N; SO4 = —

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan VOC	Oxygenates	Lead 7420 ☐ 7421 ☐	8015 B methane ethene ethane	COD	TOC	Fe2+	Metals (As Mn Se Fe)	SO4 Cl- NO3 Alk
MW 8-57	H2O	NO	—	06 05 24	0905	NO	X		13				X			X	X	X	X	X	X
MW 5D-57				06 05 24	1030		X		13				X			X	X	X	X	X	X
EW 2-57				06 05 24	1125		X		13				X			X	X	X	X	X	X
EW 1-57				06 05 24	1230		X		13				X			X	X	X	X	X	X
MW 6D-57				06 05 24	1320		X		13				X			X	X	X	X	X	X
MW 6S-57				06 05 24	1410		X		13				X			X	X	X	X	X	X
MW 6SE-57				06 05 24	1540		X		3				X								
MW T4-57				06 05 24	1530		X		3				X								
MW D3-57				06 05 24	~~[illegible]~~		X		13				X			X	X	X	X	X	X

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
- Field Filtered metals (EW 2-57)
- Field filtered metals (EW 1-57)

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
~~24 hour~~ 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/24/6	1630			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other 4 Coolers / ranges			Received by: [signature]	5/25/06	0900
Temperature Upon Receipt 1.0–2.1 C°			Custody Seals Intact? (Yes) No		

3460 Rev. 10/04/01

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11408 Sample #: 4780456-69 SCR#:

Group# 991135

Facility #: Pwrit Oil-OML
Site Address: 3280 S. Maple Ave Malaga CA 93725
Chevron PM: Bob Mihalevich Lead Consultant: SECOR
Consultant/Office: 3475 W. Shaw Ave 104 Fresno CA 93711
Consultant Prj. Mgr.: Frank Gegunde
Consultant Phone #: 559-271-2650 Fax #: -5108
Sampler: Matt Sob
Service Order #: 24CA 6 2004 / 06 ☐ Non SAR:

Matrix: Soil / Water (☐ Potable ☐ NPDES) / Oil ☐ Air ☐

Analyses Requested / Preservation Codes:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil/Air	Total Number of Containers	(struck)	H: 8260 full scan VOC	-: COD	O: TOC	(struck)	(struck)	H: Fe 2+	(struck)	N: Metals (Fe, Mn, As, Se)	-: SO4, Cl-, NO3, NH	8015B methane, ethane, ethene	[illegible] per FA 5/26/06
MW75-57	06/05/25	0745	X			X		13		X	X	X			X		X	X	X	
MW28P-57	06/05/25	1110	X			X		13		X	X	X			X		X	X	X	
MW28PMS-57	06/05/25	1110	X			X		13		X	X	X			X		X	X	X	
MW28PMSD-57	06/05/25	1110	X			X		13		X	X	X			X		X	X	X	
MW32P-57	06/05/25	1400	X			X		13		X	X	X			X		X	X	X	
MWT5-57	06/05/25	1520	X			X		3		X	[illegible]									
MW32PE-57	06/05/25	1530	X			X		3		X										

date: YY/MM/DD

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ___ oxy s on highest hit
☐ Run ___ oxy s on all hits

Comments / Remarks
Field filtered (MW75-57 through MW28PMSD-57)
Field filtered (MW32P-57)
VOC ONLY/8260 (MWT5-57)

3 coolers

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk ________ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
Matt Sob	5/25/06	1630			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Relinquished by Commercial Carrier: UPS (FedEx) Other ________
Received by: [signature] 5/26/06 0905
Temperature Upon Receipt 1.5 C° 3.0°, 1.5°
Custody Seals Intact? (Yes) No

APPENDIX D
Certified Analytical Reports

Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

Data files of the certified analytical reports are on the compact disk located inside the back cover of this report.

APPENDIX E
Quality Assurance Review

Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

APPENDIX E
QUALITY ASSURANCE REVIEW

1.1 FIELD QUALITY CONTROL SAMPLES

1.1.1 Trip Blanks

Trip blanks were included in each shipment containing samples for VOC analysis. The trip blanks remained unopened during sample storage and shipment. The trip blank results are used to assess if any contamination was introduced during sample storage and shipment. Sample results were qualified as not detected (ND) if the amount found in the sample was less than five times (ten times for common laboratory contaminants) the amount found in the associated trip blank.

1.1.2 Equipment Rinsate Blanks

Equipment rinsates are prepared to ensure that decontamination procedures are sufficient in preventing cross contamination when reusable sampling equipment is utilized. Sample results were qualified as ND if the amount found in the sample was less than five times (ten times for common laboratory contaminants) the amount found in the associated trip blank.

1.1.3 Field Duplicate Samples

One duplicate sample pair each was collected at wells MW-41 (MWD1-57), MW-7I (MWD2-57), and MW-6D (MWD3-57) (Table 5). As a quantitative measure of precision, the relative percent difference (RPD) is calculated between each pair of positive field duplicate results by the following formula:

$$RPD = [S-D/([S+D]/2)]\times 100$$

Where S = First sample value (primary value)
D = Second sample value (duplicate value)

For the metals results, manganese was detected in two sample pairs. The RPD between the primary and duplicate metals samples for MWD1-57 was 0.6 percent, and MWD3-57 was 1.5 percent. Iron was detected in one sample pair, MWD1-57. The RPD between the primary and duplicate metals sample for MWD1-57 was 20.5 percent. Arsenic and selenium were ND in any of their respective duplicate pairs.

One of three primary and duplicate samples (MWD2-57) contained reportable levels of associated VOC analytes resulting in a RPD of 0.0 percent for PCE. One of three primary and duplicate samples (MWD3-57) contained reportable levels of associated VOC analytes resulting in RPDs of 0.0 percent for 1,1-DCA, 2.4 percent for cis-1,2-DCE, 0.0 percent for 1,2-DCA, 2.7 percent for TCE, 0.0 percent for 1,2-Dichloropropane, 0.0 percent for PCE, and 0.0 percent for 1,2-Dichlorobenzene.

The remaining RPDs for other constituents ranged from 0.0 to 13.7 percent. Alkalinity had a RPD range of 0.0 to 1.6 percent. Ferrous iron had a RPD of 13.7 percent (MWD1-57). Chloride had a RPD range of 0.5 to 1.7 percent. Sulfate had a RPD range of 0.8 to 3.5 percent. Nitrate

had a RPD range of 0.0 to 1.4 percent. Methane had a RPD of 8.0 percent (MWD3-57). CO_2 had a RPD range of 0.0 to 8.0 percent.

Disagreements on Table 5 are defined as detections that are found in the primary or duplicate sample but not the constituent's corresponding sample. There were two disagreements in the metals sample pairs for arsenic (MWD2-57) and iron (MWD3-57). Additionally, there was one disagreement in the VOC sample pairs for chloromethane in MWD2-57. Finally, two disagreements between sample pairs were detected in other constituents for TOC (MWD1-57), and ferrous iron (MWD3-57).

1.2 LABORATORY QUALITY CONTROL SAMPLES

1.2.1 Data Review

Samples were analyzed by Lancaster Laboratories, Inc. (LLI) of Lancaster, Pennsylvania. LLI is certified by the State of California for environmental analyses. Although some data was qualified by the laboratory because of minor QC deviations, the overall laboratory data quality meets the project data quality objectives (DQOs) and is usable for the intended purpose.

Field documentation and field and laboratory quality control (QC) sample results were reviewed for compliance with USEPA method QC requirements by project staff and laboratory staff. All data were submitted in full USEPA Level IV data packages. All data packages were in compliance with the terms and conditions agreed to by SECOR and LLI, both technically and for completeness, except for the conditions noted in sections below. Review was performed based on the following QC elements:

- Sample receipt condition
- Holding time
- Method of analysis
- Sample preparation
- Quality Control Analysis & Nonconformance Summary
  - Data packages PUR72 through PUR76

Data flags were applied as necessary based on the guidance in the following documents:

- U.S. Environmental Protection Agency *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis Multi-media, Multi-concentrations.* ILMO 4.0.
- U.S. Environmental Protection Agency *USEPA Contract Laboratory Program Statement of Work for Organic Analysis Multi-media, Multi-concentrations.* OLMO 4.1. September, 1998.

The following sections present the findings of the data review and discuss QA/QC conditions or deviations for each QC element noted above. Data packages and their corresponding QC conditions are referenced by their respective LLI lab reference number.

1.2.2 Sample Receipt Condition

All samples were received in good condition and consistent with the accompanying chain of custody (COC) form. A Sample Receipt Exception Report was attached to the chain of custody

included in the data package where applicable. The samples were shipped overnight in coolers packed with wet ice and had a temperature range of 0.6° C to 3.5° C upon delivery at the laboratory. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

1.2.3 Holding Time

All holding times were met for sample preparation and sample analysis except as noted: Nitrates were analyzed past the hold time for samples MW40-57, MW38-57, MW38MS-57, MW7S-57, MW28P-57, MW28PMS-57, and MW32P-57. CO_2 was analyzed past the hold time for samples MW34D-57, MW34I-57, MW34S-57, and MW25-57. Holding times for the requisite analytes is 48 hours for wet chemistry analytes (sulfate, nitrate-nitrogen, chloride, and gases etc.), 14 days for VOCs, and 180 days for metals.

1.2.4 Methods of Analysis

The following methods of analysis were applied to the respective phase:

- SW846/8260B Waters – 25 mL purge (volatile organic analysis) using SW-846, Method 8260B
- GC/MS Volatiles Water Prep using SW-846, Method 5030B
- ICP Metals (iron, manganese, arsenic, and selenium) using SW-846, Method 6010B
- Metals Water Digestion using SW-846, Method 3005A
- Nitrate-nitrogen, sulfate, and chloride using EPA 600, Method 300.0
- Total Organic Carbon (TOC) using EPA 600, Method 415.1
- Alkalinity to pH 4.5/8.3 using EPA 600, Method 310.1
- Ferrous iron (Fe^{2+}) using Method SM18, 3500-Fe D (Modified)
- Carbon dioxide (CO_2) by Headspace using EPA SW-846 , Method 8000B
- Volatile Headspace Hydrocarbon (methane, ethane, and ethene) using SW-846, Method 8015B, Modified

1.2.5 Sample Preparation

Sample preparation proceeded normally for all Purity daily sampling data packages (PURs) (72 through 76). Each sampling day has a unique PUR number with the narrative as follows:

- No sample preparation was necessary for the VOA fraction for PURs 72 through 76.

1.2.6 Quality Control Analysis & Nonconformance Summary

PUR72

- No sample preparation was necessary for the VOA fraction.

- The method used for analysis was EPA SW846 Method 8260B (25 ml purge option).
- No problems were encountered during the analysis of these samples.
- Only client requested compounds are addressed in this narrative.
- All QC was within specifications.
- No further interpretation is necessary for the data submitted.

PUR73

- No sample preparation was necessary for the VOA fraction.
- The method used for analysis was EPA SW846 Method 8260B (25 ml purge option).
- No problems were encountered during the analysis of these samples.
- Only client requested compounds are addressed in this narrative.
- All QC was within specifications.
- No further interpretation is necessary for the data submitted.

PUR74

- No sample preparation was necessary for the VOA fraction.
- The method used for analysis was EPA SW846 Method 8260B (25 ml purge option).
- No problems were encountered during the analysis of these samples.
- Only client requested compounds are addressed in this narrative.
- All QC was within specifications.
- No further interpretation is necessary for the data submitted.

PUR75

- No sample preparation was necessary for the VOA fraction.
- The method used for analysis was EPA SW846 Method 8260B (25 ml purge option).
- No problems were encountered during the analysis of these samples.
- Only client requested compounds are addressed in this narrative.
- All other QC was within specifications.
- No further interpretation is necessary for the data submitted.

PUR76

- No sample preparation was necessary for the VOA fraction.
- The method used for analysis was EPA SW846 Method 8260B (25 ml purge option).
- No problems were encountered during the analysis of these samples.
- Only client requested compounds are addresses in this narrative.
- All other QC was within specifications.
- No further interpretation is necessary for the data submitted.

No other anomalies associated with the analysis of these samples were observed and all other acceptance criteria were met.

APPENDIX F
Historical Analytical Data
Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
Extraction Wells														
EW-1	6/18/1999	REG FF	0.62	0.89	1.8	<0.5	24	<0.5	<0.5	<0.5	120	440	NS	NS
	9/16/1999	REG FF	0.86	0.81	1.8	<0.5	23	<0.5	<0.5	<0.5	900	430	NS	NS
	12/15/1999	REG FF	0.60	0.84	1.9	<0.5	24	<0.5	0.57	<0.5	560	400	NS	NS
	3/15/2000	REG FF	0.63	0.85	1.8	<0.5	26	0.4	0.55	0.37	830	440	NS	NS
	6/20/2000	REG FF	<0.5	0.72	1.6	<0.5	21	<0.5	<0.5	<0.5	680	380	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	60	<5	<5	<5	6,100	1,000	NS	NS
	10/18/2001	REG	1.9	2.6	2.8	<0.5	85	0.96	0.70	<0.5	5,400 J	890	NS	NS
	6/11/2002	FS FF	0.71	1.3	1.5	<0.5	34	0.88	0.47	0.33	1,530	641	<45	<34
	9/20/2002	FS FF	0.87	1.4	1.7	0.15 J	37	0.55	0.61	0.32 J	4,840	888	14.1	5.2
	11/21/2002	FS FF	0.37	0.55	0.68	<0.5	16.0	<0.5	<0.5	<0.5	1,470	643	10.9	<2.0
	1/29/2003	FS	0.5	0.79	1	<0.5	23	0.53	0.39	0.32	1,080	661	8.3	<2
	6/19/2003	FS	0.5	0.82	1	<0.5	22	0.89	0.41 J	0.28 J	752	622	5.9	<2
	9/12/2003	FS	0.8 J	1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,850	693	<4.9	<4.7
	12/11/2003	FS	0.6	0.9	1	<0.1	22	0.3 J	0.5 J	0.3 J	807	709	<4.9	<4.7
	3/9/2004	FS	0.5	1	1.1	<0.1	27	0.3 J	0.5 J	0.2 J	1,130	749	<4.9	<4.7
	6/9/2004	FS	0.6	0.7	0.8	<0.1	23	0.4 J	0.4 J	0.2 J	1,050	658	<9.4	<5.9
	8/10/2004	FS	0.9	1.1	1.2	<0.1	33	0.3 J	0.6	0.3 J	1,810	826	8.4 J	<5.9
	11/18/2004	FS	0.4 J	0.7	0.5 J	<0.1	6.2	<0.1	<0.1	0.2 J	643	726	<4.7	<5.9
	3/18/2005	FS	0.6	1.0	<0.1	<0.1	18.0	0.2 J	0.2 J	0.2 J	3,360	787	15.1	<5.9
	5/25/2005	FS	0.7	1	<0.1	<0.1	26	0.7	0.5 J	0.2 J	1,490	799	12.1	<9.4
	8/11/2005	FS	1.4	3.0	1.3	0.2 J	83	2.9	1.1	0.6	12,500	1,400	<9.3	<9.4
	11/18/2005	FS	1.2	2.4	1.0	0.1 J	71	1.3	1.1	0.5	3,190	1,010	11.9 J	<9.4
	2/16/2006	FS	1.1	2.5	1.2	0.1 J	79	1.1	1.2	0.6	2,070	927	10.2 J	<9.4
	5/24/2006	FS	1.1	2.3	0.9	0.2 J	88	1.6	1.3	0.7	2,100	992	10.3 J	<9.4
EW-2	6/18/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	380	240	NS	NS
	9/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	81	130	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	64	120	NS	NS
	3/15/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	50	100	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	78	NS	NS
	9/14/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	360	80	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	48	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	89	630	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	170	540	NS	NS
	6/11/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.1	82	<45	<34
	9/20/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	47.6 B	<10	1.7 B	<50
	11/21/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	363	35.4	9.3 B	<2.0
	1/29/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.6	25.1	1.4	<2
	6/19/2003	FS	<0.5	<0.5	<0.5	<0.5	0.14 J	<0.5	<0.5	<0.5	<100	26	2.5	<2
	9/12/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	9.3	<4.9	<4.7
	12/11/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	20.2	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	18.8	<4.9	6.4 J
	6/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	16.1	<4.7	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.1	<49.5	12.3	<4.7	<5.9
	11/18/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	9.8	<4.7	<5.9
	3/17/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	8.2	<4.7	<5.9
	5/25/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	90.4	<9.3	<9.4
	8/12/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
EW-2	11/18/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	6.3	<9.3	<9.4
	2/17/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	23.3	<9.3	<9.4
	5/24/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	15.9	<9.3	<9.4
Shallow														
MW-2S	2/24/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	600	3,800	NS	NS
	9/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	170	36	NS	NS
	12/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160	26	NS	NS
	3/25/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	200	19	NS	NS
	6/17/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,200	52	NS	NS
	9/28/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	490	31	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	2,100	73	NS	NS
	3/16/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,300	42	NS	NS
	6/7/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	2,600	120	NS	NS
	4/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	3,100	360	NS	NS
	7/12/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	3,900	370	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	1,200	300	NS	NS
	1/29/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	2,700	290	NS	NS
	4/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	0.6	590	220	NS	NS
	4/18/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	0.7	1,300	220	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,800	220	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,500	160	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,700	190	NS	NS
	6/11/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	960	130	NS	NS
	9/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	190	39	NS	NS
	12/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	130	46	NS	NS
	3/18/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	240	48	NS	NS
	6/25/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	70	17	NS	NS
	9/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	37	7	NS	NS
	12/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	47	8	NS	NS
	12/16/1998	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	8	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	21	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	8	NS	NS
	9/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	52	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	68	NS	NS
	9/14/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	83	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	41	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	16	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	44 J	38	NS	NS
	6/6/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	65.3	57.1	<45	<34
	9/20/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	25.2 B	0.7 B	3.2 B	<50
	11/25/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,360	136	5.5	<2.0
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	124	14.1	3.6	<2
	6/18/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31 J	<5	3.1	0.3 J
	9/10/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	81.1 J	3.0 J	<4.9	<4.7
	12/11/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	149 J	3.1 J	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	73 J	1.1 J	<4.9	<4.7

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-2S	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	95.1 J	2.0 J	<9.4	<5.9
	8/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	2.8 J	<4.7	<5.9
	11/15/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	83.6J	2.3 J	<4.7	<5.9
	3/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	2.1 J	<4.7	<5.9
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	93.2 J	2.1 J	<9.3	<9.4
	8/8/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	9.7 J	<9.4
	2/10/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	168 J	4.9 J	<9.3	<9.4
	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-3	2/24/1992	REG FF	<0.5	<1	12	<1	<1	<1	<1	<0.5	360	30	NS	NS
	6/9/1992	REG FF	<0.5	<1	7.1	<1	<1	<1	<1	<0.5	290	50	NS	NS
	9/14/1992	REG FF	<0.5	<1	6.3	<1	<1	<1	<1	<0.5	290	29	NS	NS
	3/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,500	55	NS	NS
	6/22/1993	REG	<0.5	<1	2.2	<1	<1	<1	<1	<0.5	1,100	72	NS	NS
	10/1/1993	REG FF	<0.5	<1	2.3	<1	<1	<1	<1	<0.5	1,600	32	NS	NS
	12/10/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	470	18	NS	NS
	3/15/1994	REG	<0.5	<1	1.5	<1	<1	<1	<1	<0.5	1,200	26	NS	NS
	3/16/1994	REG FF									93	17	NS	NS
	9/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	12/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6	NS	NS
	3/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	330	17	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	50	8	NS	NS
	9/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	14.0	NS	NS
	12/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.33	<0.5	<30	8.0	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	5.0	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	34.0	NS	NS
	10/16/2001	REG	0.51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	19.0	NS	NS
	6/6/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	194	43.3	<45	<34
	9/18/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.34 J	<0.5	34.1 B	2.9 B	1.9 B	5.5 B
	11/19/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	22.4	6.3 B	<2.0
	1/29/2003	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.28 J	<0.5	<100	55.4	<1	<2
	6/18/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.28	<0.5	2,760	228	1.1	1.2
MW-5S	6/23/2000	REG FF	<0.5	10	2	<0.5	31	<0.5	<0.5	<0.5	<30	190	NS	NS
	9/15/2000	REG	<0.5	9.6	1.5	<0.5	31	<0.5	<0.5	0.97	<30	200	NS	NS
	12/20/2000	REG	<0.5	10	2.2	<0.5	37	0.51	<0.5	<3	40	270	NS	NS
	5/9/2001	REG	<5	13	<5	<5	33	<5	<5	<5	<30	380	NS	NS
	5/9/2001	FD	<5	13	<5	<5	33	<5	<5	<5	<30	380	NS	NS
	6/12/2002	FS FF	0.39	11	1.5	<0.5	8.9	<5	<5	0.68	41	394	12.4	<34
	9/18/2002	FS FF	<0.5	6.6	0.48 J	<0.5	4.6	<0.5	<0.5	<0.5	<100	49.9	3.5 B	5.5 B
	11/20/2002	FS FF	<0.5	5.9	0.59	<0.5	3.4	<0.5	<0.5	<0.5	<9.0	15.9	7.5	<2.0
	1/28/2003	FS FF	<0.5	4.1	0.42 J	<0.5	1.0	<0.5	<0.5	<0.5	<100	105	1.7 B	<2
	6/20/2003	FS	<0.5	4.5	0.57	<0.5	0.49 J	<0.5	<0.5	<0.5	161	265	2.0	0.5 J
	9/9/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	112	<4.9	<4.7
	12/10/2003	FS	<0.1	3.8	0.4 J	<0.1	0.3 J	<0.1	<0.1	<0.1	<45.3	94.4	<4.9	<4.7
	3/11/2004	FS	<0.1	2.2	0.2 J	<0.1	0.1 J	<0.1	<0.1	<0.1	<45.3	114	<4.9	7.2 J
MW-6S	2/25/1992	REG FF	<0.5	2.0	4.0	<1	37	<1	3.0	<0.5	1,100	610	NS	NS
	6/9/1992	REG FF									360	620	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-6S	6/10/1992	REG	0.8	2.0	4.5	<1	71	<1	3.0	1	630	630	NS	NS
	9/14/1992	REG FF	<0.5	2.2	3.4	<1	44	<1	3.0	<0.5	160	590	NS	NS
	12/13/1992	REG FF	<0.5	1.3	3.6	<1	39	<1	4.1	<0.5	1,200	680	NS	NS
	3/26/1993	REG FF	<0.5	<1	2.5	<1	26	<1	3.8	<0.5	1,200	610	NS	NS
	6/30/1993	REG FF	<0.5	1.9	3.8	<1	38	<1	4.8	<0.5	740	740	NS	NS
	9/28/1993	REG FF	<0.5	2.4	4.1	<1	90	<1	3.8	1.4	830	780	NS	NS
	12/6/1993	REG FF	<0.5	5.3	<0.5	<1	170	2.2	5.2	<0.5	840	720	NS	NS
	3/14/1994	REG FF	<0.5	2.4	5.1	<1	46	<1	3.6	<0.5	3,000	800	NS	NS
	6/7/1994	REG FF	<0.5	1.3	2.9	<1	34	<1	2.6	<0.5	6,400	1,100	NS	NS
	9/12/1994	REG FF	<0.5	1.9	4.3	<1	34	<1	2.1	<0.5	4,300	920	NS	NS
	4/25/1995	REG FF	0.7	6	9.6	<05	99	1.8	1.6	1.9	830	1,100	NS	NS
	7/13/1995	REG FF	2.1	7.6	8.4	<0.5	100	1.8	1.8	1.1	1,700	1,100	NS	NS
	10/27/1995	REG FF	1.1	6.4	10	<0.5	93	1.9	1.4	1.2	2,100	1,000	NS	NS
	1/29/1996	REG FF	0.87	5.6	10	<0.5	79	1.5	1.0	1.3	2,400	1,100	NS	NS
	4/19/1996	REG FF	0.9	5.3	9.9	0.7	68	2.0	1.1	1.0	1,600	1,100	NS	NS
	4/19/1996	FD FF	1	5.2	9.6	0.6	68	2.1	1.1	1.0	1,600	1,100	NS	NS
	7/19/1996	REG FF	1.2	6.5	11	<0.5	84	1.8	1.2	1.5	1,900	1,200	NS	NS
	10/24/1996	REG FF	1.6	6.4	11	1.1	78	2.4	1.6	3.7	1,700	1,300	NS	NS
	2/27/1997	REG FF	<0.5	4.8	10	<0.5	62	1.3	0.95	1.5	2,200	2,000	NS	NS
	6/11/1997	REG FF	0.62	4.1	10	<0.5	49	1.1	<0.5	1.6	1,000	1,900	NS	NS
	9/19/1997	REG FF	0.92	4.3	7.4	0.6	51	1.3	0.98	0.81	1,100	1,700	NS	NS
	12/18/1997	REG FF	0.89	8.2	9.1	<0.5	96	2.4	1.5	2.5	2,300	1,700	NS	NS
	3/19/1998	REG FF	0.82	4.7	5.3	0.6	61	1.2	1.5	1.4	1,500	1,300	NS	NS
	6/26/1998	REG FF	0.9	4	4.8	0.53	66	1.4	1.8	1.5	1,200	1,300	NS	NS
	9/17/1998	REG FF	0.85	3.9	5.4	<0.5	50	1.0	1.4	1.3	650	1,400	NS	NS
	12/17/1998	REG FF	1.6	9.8	10	0.96	130	26	1.3	1.6	4,500	500	NS	NS
	3/18/1999	REG FF	1.8	9.3	14	1.0	110	2.2	1.5	1.4	1,600	1,700	NS	NS
	9/17/1999	REG FF	1.4	8.4	12	0.51	130	2.1	1.2	1.2	2,400	1,800	NS	NS
	12/16/1999	REG FF	1.5	7.9	13	0.69	160	2.2	1.8	1.1	2,200	1,900	NS	NS
	12/16/1999	FD FF	1.4	7.4	12	0.64	150	2.2	2.1	1.0	2,200	2,000	NS	NS
	3/17/2000	REG FF	2.3	9.6	14	0.85	180	3.1	2.4	2.2	1,600	1,700	NS	NS
	6/23/2000	REG FF	2	8.3	14	<0.5	180	2.5	1.8	0.99	80	2,100	NS	NS
	9/15/2000	REG	2.4	8	14	<0.5	230	4.3	1.5	<0.5	360	2,200	NS	NS
	12/20/2000	REG	2.6	8.6	13	<0.5	170	2.4	1.3	<3	1,400	2,500	NS	NS
	5/9/2001	REG	<5	8.6	12	<5	160	<5	<5	<5	2,200	2,100	NS	NS
	10/19/2001	REG	1.8	8.9	14	<0.5	200	3	1.5	2.2	4,200 J	3,300	NS	NS
	10/19/2001	FD	1.7	8.6	14	<0.5	210	2.7	1.6	1.6	4,300 J	3,300	NS	NS
	6/12/2002	FS FF	1.6	7	11	0.45	170	2.5	1.2	1.9	1,710	2,700	31.3	<34
	6/12/2002	FD FF	1.6	6.8	11	0.46	170	2.5	1.2	1.9	1,970	3,740	<45	<34
	9/18/2002	FS	2.3	11	13	0.63	170 E	1.8	1.4	1.4	1,080	2,600	11.8	6.4 B
	11/20/2002	FS	3.5	16	16	0.96	220	2.2	1.4	1.4	1,290	3,000	11.8	<2.0
	1/28/2003	FS	1.8 J	8.2	11	<2.5	130	1.8 J	1.2 J	0.95 J	1,510	2,650	6.6	<2
	1/28/2003	FD	1.7 D J	8.0 D	9.5 D	<2.5	120 D	1.8 D J	1.1 D J	0.91 D J	1,580	2,710	6.5	<2
	6/20/2003	FS	1.4	7.7	12	0.54	160 E	2.2	1.7	1.3	1,620	2,790	6.8	0.2 J
	9/9/2003	FS	1 J	8	10	<0.5	130	2J	1J	0.7 J	1,680	2,860	8.0 J	<2
	12/9/2003	FS	0.9	7.0	5.4	0.2 J	54	1.2	1.3	0.4 J	1,590	2,740	5.6 J	<4.7
	3/11/2004	FS	0.7	6.2	6.2	0.2 J	80	1.3	1.2	0.5 J	1,510	2,730	<4.9	5.6 J
	6/9/2004	FS	0.9	7.0	5.0	0.2 J	78	1.3	1.2	0.5 J	1,660	2,660	<9.4	<5.9

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-6S	8/13/2004	FS	1.0	8.6	6.0	0.4 J	91	1.5	1.4	0.6	1,520	2,590	<4.7	<5.9
	11/17/2004	FS	0.9	8.3	5.5	0.3 J	74	1.1	1.3	0.5 J	1,320	2,350	<4.7	<5.9
	3/18/2005	FS	0.8	8.0	4.3	0.2 J	67.0	1.1	1.4	0.4 J	1,430	2,270	<4.7	<5.9
	5/26/2005	FS	0.7	7.3	<0.1	0.2 J	56	1.1	1.1	0.3 J	1,130	2,220	<9.3	<9.4
	8/11/2005	FS	0.8	8.2	4.7	0.3 J	64	1.2	1	0.5 J	1,260	2,310	<9.3	<9.4
	11/17/2005	FS	<1.0	7.3	4.2 J	<1.0	80	<1.0	1.0 J	<1.0	1,220	2,490	<9.3	<9.4
	2/15/2006	FS	0.1 J	1.4	0.8	<0.1	14	0.2 J	0.2 J	0.1 J	1,140	2,420	<9.3	<9.4
	5/24/2006	FS	0.7 J	5.9	3.0	<0.5	70	0.7 J	0.8 J	0.7 J	1,660	2,910	<9.3	<9.4
MW-7S	2/25/1992	REG FF	<0.5	<1	<0.5	<1	11	<1	2.0	<0.5	1,200	720	NS	NS
	2/25/1992	FD FF	<0.5	<1	<0.5	<1	12	<1	3.0	<0.5	1,600	790	NS	NS
	6/9/1992	REG FF	<0.5	<1	<0.5	<1	20	<1	5.0	<0.5	480	670	NS	NS
	9/15/1992	REG FF	<0.5	<1	0.68	<1	14	<1	4.9	<0.5	160	600	NS	NS
	12/13/1992	REG FF	<0.5	<1	<0.5	<1	15	<1	4.6	<0.5	160	670	NS	NS
	3/24/1993	REG FF	<0.5	<1	0.89	<1	19	<1	4.2	<0.5	220	760	NS	NS
	6/21/1993	REG FF	<0.5	<1	0.92	<1	<1	<1	3.0	<0.5	600	740	NS	NS
	9/30/1993	REG FF	<0.5	<1	0.79	<1	26	<1	2.7	<0.5	120	690	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	31	<1	3.1	<0.5	360	620	NS	NS
	3/16/1994	REG FF	<0.5	<1	<0.5	<1	15	<1	2.3	<0.5	290	650	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	19	<1	2.5	<0.5	310	770	NS	NS
	9/12/1994	REG FF	<0.5	<1	<0.5	<1	14	<1	1.7	<0.5	710	700	NS	NS
	1/20/1995	REG FF	<0.5	1.0	1.0	<0.5	25	1	2.2	<0.5	<7	730	NS	NS
	4/24/1995	REG FF	1.0	1.5	1.0	<0.5	43	1	1.0	0.5	90	940	NS	NS
	7/13/1995	REG FF	1.8	2.0	1.5	<0.5	62	6.7	0.8	<0.5	1,100	1,000	NS	NS
	10/27/1995	REG FF	2.5	2.7	2.2	<0.5	73	<0.5	<0.5	<0.5	2,000	880	NS	NS
	1/29/1996	REG FF	2.7	2.4	2.7	<0.5	66	0.72	1.1	0.51	3,000	770	NS	NS
	4/19/1996	REG FF	3.3	3.1	3.3	0.5	87	1.6	1.2	0.6	2,400	690	NS	NS
	7/19/1996	REG FF	2.7	2.6	3.5	<0.5	70	1.0	1.0	0.8	3,500	690	NS	NS
	10/24/1996	REG FF	2.0	2.1	3.6	<0.5	54	<0.5	0.88	<0.5	2,600	610	NS	NS
	2/27/1997	REG FF	3.1	2.9	4.3	<0.5	81	1.0	0.89	0.78	4,600	710	NS	NS
	6/11/1997	REG FF	3.7	3.5	4.9	<0.5	92	2.0	0.93	0.91	4,100	550	NS	NS
	9/19/1997	REG FF	2.1	2.3	4.7	<0.5	60	0.98	0.66	0.79	2,700	610	NS	NS
	12/18/1997	REG FF	2.0	2.8	5.5	<0.5	64	1.6	0.83	<0.5	3,600	580	NS	NS
	3/19/1998	REG FF	1.0	1.8	3.6	<0.5	39	0.98	<0.5	<0.5	2,800	510	NS	NS
	6/26/1998	REG FF	1.1	1.9	3.0	<0.5	53	1.1	<0.5	0.78	2,200	570	NS	NS
	6/26/1998	FD FF	1.2	2.0	3.1	<0.5	56	1.2	<0.5	0.77	2,300	590	NS	NS
	9/17/1998	REG FF	0.9	1.9	3.9	<0.5	44	1.0	<0.5	0.63	2,700	530	NS	NS
	12/17/1998	REG FF	4.5	4.5	5.0	0.83	130	1.7	1.1	1.1	2,200	3,400	NS	NS
	3/18/1999	REG FF	3.1	2.7	3.4	0.62	71	<0.5	1.2	0.58	4,200	450	NS	NS
	6/18/1999	REG FF	2.4	2.2	1.9	<0.5	63	<0.5	0.61	<0.5	3,100	340	NS	NS
	6/18/1999	FD FF	2.4	2.1	2.0	<0.5	63	<0.5	0.65	<0.5	3,300	360	NS	NS
	9/16/1999	REG FF	2.3	2.0	1.8	<0.5	60	<0.5	0.58	<0.5	3,600	340	NS	NS
	9/16/1999	FD FF	2.2	2.0	1.7	<0.5	57	<0.5	0.52	<0.5	3,700	360	NS	NS
	12/16/1999	REG FF	2.0	1.6	1.8	<0.5	57	0.61	0.59	<0.5	3,300	340	NS	NS
	3/17/2000	REG FF	1.6	1.3	1.4	<0.5	37	0.47	0.49	0.46	860	350	NS	NS
	6/23/2000	REG FF	1.8	1.7	1.9	<0.5	50	0.71	<0.5	<0.5	140	500	NS	NS
	9/15/2000	REG	1.4	1.5	1.7	<0.5	47	0.6	<0.5	<0.5	1,800	490	NS	NS
	12/20/2000	REG	3.2	4.5	6.4	<0.5	140	2.0	1.2	<3	5,100	920	NS	NS
	12/20/2000	FD	2.6	8.4	12.0	0.67	160	2.4	1.2	<3	4,600	2,500	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-7S	5/9/2001	REG	<5	<5	<5	<5	110	<5	<5	<5	1,600	560	NS	NS
	5/9/2001	FD	<5	<5	<5	<5	110	<5	<5	<5	1,600	540	NS	NS
	10/19/2001	REG	2.8	2.3	1.7	<0.5	80	0.59	<0.5	0.76	3,700 J	520	NS	NS
	6/12/2002	FS FF	3.2	2.7	1.5	0.26	83	1.3	0.58	0.58	5,030	481	40.3	<34
	9/18/2002	FS	1.9	1.7	1.4	<0.5	54 E	2.1	0.64	0.54	5,050	476	26.9	<50
	9/18/2002	FD	1.9	1.6	1.4	<0.5	53 E	1.8	0.62	0.58	5,250	482	29.4	4.8 B
	11/20/2002	FD	0.67	0.74	0.71	<0.5	18	0.37	0.37	0.23	1,500	509	15.3	<2.0
	1/28/2003	FS	0.75	0.78	0.75	<0.5	23	0.86	0.41 J	0.27 J	1,470	490	11.6	<2
	6/19/2003	FS	1.5	1.4	1.2	0.27 J	48 E	0.8	0.44 J	<0.5	1,090	553	9.5	<2
	9/9/2003	FS	2J	2 J	1 J	<0.5	47	0.5 J	<0.5	<0.5	1,620	548	12.2	<2
	12/9/2003	FS	1.0	0.8	<0.1	<0.1	21	0.2 J	0.4 J	0.2 J	1,030	591	8.4J	<4.7
	3/12/2004	FS	0.7	0.9	0.7	<0.1	27	0.2 J	0.3 J	0.2 J	1,340	514	11	<4.7
	6/9/2004	FS	0.7	0.8	0.4 J	<0.1	22	0.2 J	0.3 J	0.1 J	912	561	<9.4	<5.9
	8/13/2004	FS	1.2	1.1	0.7	<0.1	36	0.3 J	0.3 J	0.2 J	1,040	557	9.5 J	<5.9
	11/17/2004	FS	1.0	0.8	0.6	<0.1	25	0.2 J	0.3 J	0.2 J	752	570	7.9 J	<5.9
	3/18/2005	FS	0.9	1.1	0.7	<0.1	27.0	0.3 J	0.2 J	0.2 J	575	452	6.1 J	<5.9
	5/26/2005	FS	0.6	0.7	0.4 J	<0.1	19	0.4 J	0.2 J	0.1 J	552	581	9.9 J	<9.4
	8/11/2005	FS	1.8	1.5	0.8	<0.1	35	1.2	0.5 J	0.3 J	1,410	826	10.7 J	<9.4
	11/17/2005	FS	2.4	2.1	1.5	0.1 J	57	1.3	0.7	0.4 J	2,310	1,090	22.9	<9.4
	2/16/2006	FS	0.6	0.5	0.3 J	<0.1	16	0.4 J	0.7	0.1 J	1,170	843	13.8 J	<9.4
	5/25/2006	FS	0.8	0.6	0.4 J	<0.1	23	0.6	0.6	0.1 J	1,770	846	23	<9.4
MW-8	2/20/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	3,200	580	NS	NS
	6/9/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,300	570	NS	NS
	9/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,100	530	NS	NS
	9/15/1992	FD FF	<0.5	<1	<0.5	<1	1.2	<1	<1	<0.5	990	530	NS	NS
	12/13/1992	REG FF	<0.5	<1	<0.5	<1	2.1	<1	<1	<0.5	2,300	1,000	NS	NS
	3/29/1993	REG FF	<0.5	<1	<0.5	<1	1.6	<1	<1	<0.5	1,700	820	NS	NS
	6/21/1993	REG FF	<0.5	<1	<0.5	<1	1.6	<1	<1	<0.5	2,800	1,100	NS	NS
	10/1/1993	REG FF	<0.5	<1	<0.5	<1	5.6	<1	<1	<0.5	4,000	1,400	NS	NS
	12/10/1993	REG	<0.5	<1	<0.5	<1	2.6	<1	<1	<0.5	6,100	1,300	NS	NS
	3/16/1994	REG FF	<0.5	<1	<0.5	<1	1.6	<1	<1	<0.5	2,500	1,100	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	2.7	<1	<1	<0.5	2,800	1,400	NS	NS
	9/19/1997	REG FF	<0.5	1	<0.5	<0.5	8.1	<0.5	<0.5	<0.5	860	1,300	NS	NS
	12/18/1997	REG FF	0.71	2.3	1.0	<0.5	20	<0.5	<0.5	<0.5	770	1,100	NS	NS
	3/18/1998	REG FF	<0.5	2.4	1.2	<0.5	25	<0.5	<0.5	<0.5	880	1,100	NS	NS
	6/25/1998	REG FF	0.58	1.4	0.57	<0.5	13	<0.5	<0.5	<0.5	890	1,200	NS	NS
	6/25/1998	FD FF	0.59	1.4	0.55	<0.5	12	<0.5	<0.5	<0.5	840	1,100	NS	NS
	9/17/1998	REG FF	0.62	1.3	0.72	<0.5	13	<0.5	<0.5	<0.5	640	1,300	NS	NS
	12/16/1998	REG FF	0.51	1.7	0.99	<0.5	18	<0.5	<0.5	<0.5	890	1,200	NS	NS
	3/17/1999	REG FF	0.9	2.5	1.6	<0.5	25	<0.5	0.82	<0.5	970	1,300	NS	NS
	6/18/1999	REG FF	<0.5	1.9	0.96	<0.5	20	<0.5	<0.5	<0.5	220	940	NS	NS
	9/17/1999	REG FF	0.52	2.3	1.2	<0.5	23	<0.5	<0.5	<0.5	60	930	NS	NS
	9/17/1999	FD FF	<0.5	1.8	0.98	<0.5	19	<0.5	<0.5	<0.5	60	970	NS	NS
	12/16/1999	REG FF	<0.5	0.81	0.54	<0.5	9.2	<0.5	<0.5	<0.5	<30	1,000	NS	NS
	3/16/2000	REG FF	0.53	1.1	0.66	<0.5	13	<0.5	<0.5	<0.5	440	960	NS	NS
	6/22/2000	REG FF	<0.5	0.93	0.67	<0.5	9.6	<0.5	<0.5	<0.5	420	1,000	NS	NS
	6/22/2000	FD FF	<0.5	0.8	0.89	<0.5	7.8	<0.5	<0.5	<0.5	400	1,000	NS	NS
	9/14/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	610	1,000	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-8	12/20/2000	REG	<0.5	1.5	1.2	<0.5	14	<0.5	<0.5	<3	340	1,400	NS	NS
	12/20/2000	FD	<0.5	<0.5	0.81	<0.5	<0.5	<0.5	<0.5	<3	130	1,400	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	24	<5	<5	<5	800	1,000	NS	NS
	5/9/2001	FD	<5	<5	<5	<5	26	<5	<5	<5	700	1,000	NS	NS
	10/17/2001	REG	0.65	4.6	2.7	<0.5	42	<0.5	<0.5	<0.5	1,400	1,100	NS	NS
	6/11/2002	FS FF	0.50	4.5	1.9	<0.5	29	0.24	0.14	<0.5	16.3	15.6	16.1	<34
	9/19/2002	FS	0.36 J	2.5	0.78	<0.5	13	<0.5	<0.5	<0.5	1190	1,060	8.4 B	<50
	11/20/2002	FS	0.24	5.6	2.0	<0.5	32	<0.5	<0.5	<0.5	861	1,530	10.8	<2.0
	1/28/2003	FS	0.26 J	3.6	1.2	<0.5	19	<0.5	0.15 J	<0.5	773	1,130	5.4	<2
	6/20/2003	FS	0.26 J	4	1.7	<0.5	26	0.24 J	0.19	0.23 J	814	1,200	4.6	<2
	9/9/2003	FS	<0.5	4 J	1 J	<0.5	17	<0.5	<0.5	<0.5	541	1,090	<4.9	<4.7
	12/10/2003	FS	0.2 J	2.2	0.7	<0.1	12	<0.1	0.1 J	<0.1	792	1,220	7.6 J	<4.7
	3/11/2004	FS	0.3 J	3.4	1.9	<0.1	23	0.1 J	0.2 J	<0.1	658	1,600	5.5 J	<4.7
	6/9/2004	FS	0.2 J	3.6	1.8	<0.1	22	0.1 J	0.2 J	<0.1	513	1,490	<9.4	<5.9
	8/13/2004	FS	0.2 J	2.9	1.2	<0.1	16	<0.1	0.2 J	<0.1	781	1,540	7.1 J	<5.9
	11/17/2004	FS	0.1 J	1.7	0.4 J	<0.1	6.3	<0.1	0.2 J	<0.1	859	1,240	6.3 J	<5.9
	3/18/2005	FS	<0.1	1.7	0.3 J	<0.1	0.9	<0.1	0.9	<0.1	575	843	6.0 J	<5.9
	5/26/2005	FS	0.1 J	1.6	0.5	<0.1	1.9	<0.1	0.9	<0.1	986	1,720	<9.3	<9.4
	8/11/2005	FS	0.1 J	2	0.6	<0.1	5.1	<0.1	0.7	<0.1	1,190	1,740	<9.3	<9.4
	11/17/2005	FS	0.2 J	2.0	0.4 J	<0.1	4.4	<0.1	0.5	<0.1	177 J	981	<9.3	<9.4
	2/15/2006	FS	<0.1	1.7	0.2 J	<0.1	0.8	<0.1	1.0	<0.1	201	381	<9.3	<9.4
	5/24/2006	FS	0.1 J	1.4	0.2 J	<0.1	2.2	<0.1	1.0	<0.1	89.1 J	103	<9.3	<9.4
MW-10	2/26/1992	REG FF	<0.5	6	2	<1	52	3.0	1	<0.5	<40	1,500	NS	NS
	6/9/1992	REG FF	<0.5	8	1.9	<1	78	4.0	1	<0.5	1,100	2,000	NS	NS
	12/15/1992	REG	<0.5	5.2	2.6	<1	47	2.5	1.6	<0.5	1,300	2,000	NS	NS
	3/25/1993	REG FF	<0.5	3	2	<1	27	1.5	1.4	<0.5	1,100	1,700	NS	NS
	6/18/1993	REG FF	<0.5	6.4	2.4	<1	87	3.1	2.1	<0.5	1,400	2,100	NS	NS
	10/1/1993	REG FF	1.4	15	2.9	<1	180	6.3	1.8	<0.5	1,900	2,200	NS	NS
	10/1/1993	FD FF	1.3	15	3.2	1.6	170	6.4	2.2	<0.5	1,800	2,200	NS	NS
	12/10/1993	REG	0.96	23	3.1	<1	150	8.3	1.9	<0.5	480	2,100	NS	NS
	3/16/1994	REG FF	<0.5	25	2.9	1.8	150	9.0	1.9	2.6	1,400	2,200	NS	NS
	6/9/1994	REG FF	<0.5	25	2.7	1.9	110	11	2.0	2.0	1,200	2,300	NS	NS
	9/14/1994	REG FF	1.0	28	3	2.3	180	11	2.7	3.1	870	2,000	NS	NS
	10/27/1995	REG FF	<0.5	19	2	<0.5	140	7.7	1.3	1.0	2,200	2,100	NS	NS
	1/29/1996	REG FF	<0.5	18	1.5	0.68	120	5.2	1.0	1.0	2,100	2,000	NS	NS
	4/19/1996	REG FF	0.6	16	1.3	0.80	110	5.6	<0.5	0.7	1,300	1,800	NS	NS
	7/19/1996	REG FF	0.5	15	1.4	<0.5	97	4.3	0.70	1	1,200	1,800	NS	NS
	10/24/1996	REG FF	<0.5	13	1.2	<0.5	75	3.8	0.74	1.6	1,300	1,600	NS	NS
	2/27/1997	REG FF	<0.5	8.8	<0.5	<0.5	47	2.6	<0.5	0.69	1,500	1,800	NS	NS
	2/27/1997	FD FF	<0.5	9.1	0.68	0.55	49	2.5	0.56	0.77	1,500	1,700	NS	NS
	6/11/1997	REG FF	<0.5	10	0.85	<0.5	56	3.3	<0.5	1.0	1,600	1,600	NS	NS
	9/19/1997	REG FF	0.7	10	1.2	<0.5	65	3.2	<0.5	0.94	1,500	1,700	NS	NS
	9/19/1997	FD FF	<0.5	9.2	1.3	<0.5	62	3.1	<0.5	1.0	1,400	1,700	NS	NS
	12/18/1997	REG FF	<0.5	8.9	1.1	<0.5	49	2.6	<0.5	1.3	1,200	1,500	NS	NS
	3/19/1998	REG FF	0.7	8.7	1.0	0.71	50	2.6	0.66	0.83	1,500	1,600	NS	NS
	6/25/1998	REG FF	1.1	6.8	1.5	0.69	62	2.4	0.83	0.76	1,700	1,800	NS	NS
	9/17/1998	REG FF	1.4	7.6	2.1	0.63	73	2.6	0.95	0.81	390	1,600	NS	NS
	9/17/1998	FD FF	1.5	7.5	2.3	<0.5	75	2.6	0.93	0.83	400	1,500	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-10	12/17/1998	REG FF	0.96	6.8	1.6	0.66	67	2.1	<0.5	0.87	42	1,100	NS	NS
	3/18/1999	REG FF	2	7.2	2.3	0.87	72	2.4	1.0	0.78	<30	1,200	NS	NS
	3/18/1999	FD FF	1.9	7	2.3	0.82	69	2.3	0.99	0.76	<30	1,200	NS	NS
	6/16/1999	REG FF	1.2	7.8	1.9	<0.5	81	<0.5	<0.5	0.55	120	1,500	NS	NS
	9/17/1999	REG FF	1.4	8.3	2.2	<0.5	92	2.8	0.51	0.86	110	1,600	NS	NS
	12/16/1999	REG FF	1.2	5.5	2.1	<0.5	71	1.8	0.7	0.67	42	1,400	NS	NS
	3/16/2000	REG FF	1.3	5.5	1.6	0.29	56	1.9	0.73	0.94	50	1,200	NS	NS
	3/16/2000	FD FF	1.2	5.6	1.6	0.38	56	1.9	0.73	0.98	40	1,100	NS	NS
	6/21/2000	REG FF	1.4	5.6	2.0	<0.5	67	2.2	<0.5	0.69	350	1,200	NS	NS
	9/14/2000	REG	1.6	5	2.3	<0.5	83	1.9	<0.5	<0.5	350	1,100	NS	NS
	12/19/2000	FD	<0.5	<0.5	0.62	<0.5	<0.5	<0.5	<0.5	<3	<30	12	NS	NS
	12/20/2000	REG	1.9	4.6	2.9	<0.5	74	2	0.55	<3	960	1,300	NS	NS
	5/9/2001	REG	<5	6.4	<5	<5	74	<5	<5	<5	<30	1,000	NS	NS
	5/9/2001	FD	<5	6.2	<5	<5	70	<5	<5	<5	<30	1,000	NS	NS
	10/17/2001	REG	6.5	8.9	6.9	<0.5	150	4.3	0.38	1.0	210	1,600	NS	NS
	6/10/2002	FS FF	4.6	6.6	7.2	<0.5	130	4.1	<0.5	0.99	1,520	1,600	42.7	<34
	9/19/2002	FS	3.1	5.4	5	0.36 J	110 D	2.8	.33 J	0.66	1,910	1,940	2.7 B	2.9 B
	11/21/2002	FS	1.7	3.6	3.8	0.36	74.0	1.6	0.18	0.65	2,240	2,110	13.4	<2.0
	1/29/2003	FS	2.3	3.7	4.0	0.28 J	88 E	2.2	0.24 J	0.69	3,430	2,120	9.1	<2
	6/19/2003	FS	2.9	4	5	0.4 J	96 E	2.1	0.27 J	0.84	3,130	2,080	7.1	<2
	9/11/2003	FS	4 J	5	6	<0.5	110	2 J	<0.5	<0.5	3,840	2,190	<4.9	<4.7
	12/10/2003	FS	3.4	4.4	5.1	0.4 J	85	2.3	0.3 J	0.5	3,850	2,200	6.6J	<4.7
	3/10/2004	FS	4.3	4.7	6.6	0.4 J	110	3.2	0.4 J	0.6	4,480	2,300	6.7J	<4.7
	6/10/2004	FS	4.7	4.6	5.4	0.3 J	110	2.8	0.3 J	0.6	4,260	2,300	<4.7	<5.9
	8/12/2004	FS	6.3	6.0	7.3	0.4 J	120	3.2	0.4 J	0.7	4,720	2,220	7.1 J	<5.9
	11/18/2004	FS	5.8	5.2	5.9	0.5 J	130	3.1	0.4 J	0.7	4,660	2,170	<4.7	<5.9
	3/16/2005	FS	5.5	5.2	<0.1	0.4 J	130	3.0	0.3 J	0.7	8,490	2,270	6.4 J	<5.9
	5/25/2005	FS	5.9	5.3	<0.1	0.4 J	120	2.8	0.4 J	0.7	7,390	2,070	11.6 J	<9.4
	8/15/2005	FS	5.6	4.5	5.9	0.4 J	140	2.9	0.3 J	0.6	5,580	1,920	10.1 J	<9.4
	11/21/2005	FS	5.6	4.6	6.0	0.4 J	120	2.8	0.4 J	0.6	38,700	3,590	11.7 J	<9.4
	2/16/2006	FS	5.2	5.0	7.2	0.3 J	120	2.4	0.4 J	0.7	17,400	2,360	13.6 J	<9.4
	5/23/2006	FS	3.9	4.2	5.4	0.3 J	110	2.4	0.4 J	0.7	6,050	1,670	<9.3	<9.4
MW-14D	2/27/1992	REG FF	22	<1	<0.5	<1	<1	<1	<1	<0.5	960	40	NS	NS
	6/8/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	150	<10	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,600	31	NS	NS
	12/8/1993	REG									44	29	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	330	29	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	640	17	NS	NS
	4/22/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	10	NS	NS
	4/19/1996	REG FF	<0.5	<0.5	0.8	<0.5	<0.7	<0.5	1.4	<0.5	<30	<5	NS	NS
	6/4/997	REG FF	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	1.7	<0.5	<30	<5	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	0.99	<0.5	<0.5	<0.5	1.7	<0.5	<30	<5	NS	NS
	6/24/1998	FD FF	<0.5	<0.5	0.97	<0.5	<0.5	<0.5	1.7	<0.5	<30	<5	NS	NS
	6/18/1999	REG FF	<0.5	<0.5	0.81	<0.5	<0.5	<0.5	1.5	<0.5	<30	<5	NS	NS
	9/16/1999	REG FF	<0.5	<0.5	0.86	<0.5	<0.5	<0.5	1.8	<0.5	<30	<5	NS	NS
	12/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<30	<5	NS	NS
	3/17/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-14D	6/22/2000	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.83**	<0.5	<30	<5	NS	NS
	9/14/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.92**	<3	<30	<5	NS	NS
	2/25/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**7.3**	**0.2**	NS	NS
	6/9/1992	REG FF									**0.6**	**0.02**	NS	NS
	2/9/2006		**Destroyed December 2005**											
MW-16	6/10/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**250**	**10**	NS	NS
	9/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**160**	**20**	NS	NS
	12/13/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**540**	**30**	NS	NS
	3/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**310**	<10	NS	NS
	6/17/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**1,000**	**45**	NS	NS
	10/2/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**340**	**20**	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**590**	**33**	NS	NS
	3/16/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**19,000**	**170**	NS	NS
	3/16/1994	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**26,000**	**210**	NS	NS
	6/10/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**2,400**	**56**	NS	NS
	9/19/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**35**	NS	NS
	12/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**280**	**54**	NS	NS
	3/19/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	**48**	NS	NS
	6/25/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**160**	**31**	NS	NS
	9/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	**32**	NS	NS
	12/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**290**	**31**	NS	NS
	3/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**110**	**42**	NS	NS
	3/17/1999	FD FF	**0.64**	<0.5	<0.5	**0.5**	<0.5	<0.5	<0.5	<0.5	**120**	**43**	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	**47**	NS	NS
	6/17/1999	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120**	**44**	NS	NS
	9/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**11**	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**23**	NS	NS
	3/16/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	**12**	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/14/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	<5	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	<5	NS	NS
	10/17/2001	REG	**0.38**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	**17**	NS	NS
	6/11/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**16.3**	**15.6**	<45	<34
	9/19/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**46.8 B**	**1.5 B**	<10	**5.4 B**
	11/20/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**73.2**	**1.6**	**9.9**	2.0
	1/28/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.6 B**	<5	**1.0 B**	<2
	6/20/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**25 J**	<5	**1.8**	<2
	9/9/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	9/9/2003	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	12/10/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	6/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1 J**	<0.1	<49.5	<0.84	<4.7	<5.9
	11/18/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**82.0 J**	<0.84	<4.7	<5.9
	5/25/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**58.4 J**	**3.0 J**	<9.3	<9.4

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-16	8/12/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	772	40.0	<9.3	<9.4
	11/21/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	126 J	5.8	<9.3	<9.4
	2/14/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	140 J	16.2	<9.3	<9.4
	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	5.4	<9.3	<9.4
MW-19	9/19/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	600	170	NS	NS
	12/17/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,500	390	NS	NS
	3/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	180	62	NS	NS
	6/18/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	140	48	NS	NS
	6/18/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	120	51	NS	NS
	10/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	56	40	NS	NS
	12/10/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160	35	NS	NS
	6/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	160	110	NS	NS
	6/16/1999	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	160	110	NS	NS
	9/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	140	200	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	220	NS	NS
	12/15/1999	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	200	NS	NS
	3/15/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40	220	NS	NS
	6/21/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	80	NS	NS
	9/14/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	210	NS	NS
	12/20/2000	REG	<05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	75	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	140	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50 J	81	NS	NS
	10/18/2001	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.9 UJ	75	NS	NS
	6/7/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	162	72	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	139	4.7 B	<10	5.3 B
	11/25/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29.1	2.5	2.9	<2.0
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.7 B	6.4 B	1.1	0.83 B
	6/18/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	2.8 J	1.9	1.5
	9/12/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	14.9	<4.9	<4.7
	9/12/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	14.9	<4.9	<4.7
	12/12/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	7.0	7.0 J	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	5.2	<4.9	<4.7
	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	8.4	<4.7	<5.9
	11/19/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	55.6 J	14.4	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1 J	<0.1	3.8	4.1	7.3	1.5
	5/24/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	14.3	<9.3	<9.4
	8/10/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	4.1 J	<9.3	<9.4
	11/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	3.8 J	<9.3	<9.4
	2/14/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	3.2 J	<9.3	<9.4
	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	1.5 J	<9.3	<9.4
MW-24	2/21/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	5,900	4,100	NS	NS
	4/22/1992	REG FF	<1	<1	<1	<1	<1	<1	<1	<1	700	1,800	NS	NS
	6/1/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	300	1,800	NS	NS
	6/17/1992	REG									410	2,400	NS	NS
	9/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	96	1,900	NS	NS
	12/13/1992	REG									76	1,900	NS	NS
	12/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	1,900	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-24	3/23/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	78	1,800	NS	NS
	6/17/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	1,900	NS	NS
	9/28/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	1,400	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	340	1,400	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160	1,400	NS	NS
	6/7/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	470	1,500	NS	NS
	6/7/1994	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	580	1,500	NS	NS
	9/14/1994	REG FF	1.8	<1	<0.5	<1	1.1	<1	2.9	<0.5	1,100	1,500	NS	NS
	1/17/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	27	700	NS	NS
	4/21/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	40	1,000	NS	NS
	7/12/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	790	NS	NS
	7/12/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	780	NS	NS
	10/26/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	610	NS	NS
	1/26/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	730	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	<0.5	0.8	<0.7	1.3	0.6	<0.5	<30	730	NS	NS
	7/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	680	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	670	NS	NS
	2/26/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	770	NS	NS
	6/4/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	660	NS	NS
	9/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	840	NS	NS
	9/18/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	780	NS	NS
	12/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	730	NS	NS
	3/18/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	580	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	730	NS	NS
	9/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	710	NS	NS
	9/16/1998	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	730	NS	NS
MW-25	2/20/1992	REG FF	<0.5	2.0	<0.5	<1	7.0	<1	<1	<0.5	330	2,400	NS	NS
	6/2/1992	REG FF	<0.5	1	<0.5	<1	5.0	<1	<1	<0.5	290	3,000	NS	NS
	6/8/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	280	60	NS	NS
	6/8/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	240	60	NS	NS
	9/14/1992	REG FF	<0.5	3.2	1.8	<1	15	<1	<1	<0.5	1,200	2,400	NS	NS
	12/17/1992	REG FF	<0.5	<1	<0.5	<1	1.9	<1	<1	<0.5	480	2,300	NS	NS
	3/15/1993	REG									780	1,800	NS	NS
	3/23/1993	REG FF	<0.5	1.0	1.7	<1	2.3	<1	<1	<0.5	340	3,200	NS	NS
	7/1/1993	REG FF	<0.5	1.1	1.4	<1	1.2	<1	<0.5	<0.5	700	2,700	NS	NS
	9/28/1993	REG									61	1,500	NS	NS
	9/30/1993	REG FF	<0.5	1.8	1.7	<1	22	<1	<1	<0.5	290	2,100	NS	NS
	12/9/1993	REG	<0.5	5.5	2.20	<1	35	<1	<1	<0.5	640	3,100	NS	NS
	3/15/1994	REG FF	<0.5	8.0	2.7	<1	36	<1	<1	<0.5	220	1,900	NS	NS
	6/7/1994	REG FF	<0.5	4.5	<0.5	<1	17	<1	<1	<0.5	1,800	1,100	NS	NS
	9/14/1994	REG FF	<0.5	4.0	1.2	<1	7.5	<1	<1	<0.5	2,900	1,700	NS	NS
	9/14/1994	FD FF	<0.5	4.6	1.3	<1	10	<1	<1	<0.5	7,900	1,600	NS	NS
	9/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	3,600	120	NS	NS
	1/19/1995	REG FF	<0.5	2.0	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	44	1,300	NS	NS
	4/22/1995	REG FF	<0.5	2.0	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	260	1,200	NS	NS
	4/22/1995	FD FF	<0.5	1.8	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	240	1,300	NS	NS
	7/13/1995	REG FF	<0.5	2.8	0.7	<0.5	<0.7	<0.5	<0.5	<0.5	430	2,100	NS	NS
	7/13/1995	FD FF	<0.5	2.8	1.1	<0.5	1.9	<0.5	<0.5	<0.5	440	2,100	NS	NS

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Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-25	10/27/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	110	1,900	NS	NS
	10/27/1995	FD FF	<0.5	0.6	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	110	1,800	NS	NS
	1/29/1996	REG FF	<0.5	1.5	0.96	<0.5	<0.7	<0.5	<0.5	<0.5	290	1,700	NS	NS
	1/29/1996	FD FF	<0.5	1.5	0.91	<0.5	<0.7	<0.5	<0.5	<0.5	270	1,600	NS	NS
	4/18/1996	REG FF	<0.5	0.8	0.6	<0.5	0.8	<0.5	<0.5	0.9	30	1,400	NS	NS
	7/19/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	50	1,500	NS	NS
	7/19/1996	FD FF	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40	1,400	NS	NS
	10/24/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	170	1,400	NS	NS
	10/24/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	160	1,400	NS	NS
	2/27/1997	REG FF	<0.5	0.62	<0.5	<0.5	2.9	<0.5	<0.5	<0.5	640	1,700	NS	NS
	6/5/1997	REG FF	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	360	1,400	NS	NS
	6/5/1997	FD FF	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	340	1,400	NS	NS
	9/19/1997	REG FF	<0.5	<0.5	<0.5	<0.5	0.81	<0.5	<0.5	<0.5	630	1,600	NS	NS
	12/18/1997	REG FF	<0.5	1.1	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	500	1,400	NS	NS
	12/18/1997	FD FF	<0.5	1.1	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	500	1,400	NS	NS
	3/19/1998	REG FF	<0.5	1.5	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	520	1,400	NS	NS
	3/19/1998	FD FF	<0.5	1.4	<0.5	<0.5	4.0	<0.5	<0.5	<0.5	460	1,300	NS	NS
	6/25/1998	REG FF	<0.5	1.8	<0.5	<0.5	5.4	<0.5	<0.5	<0.5	610	1,400	NS	NS
	9/17/1998	REG FF	<0.5	1.0	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	640	1,600	NS	NS
	12/17/1998	REG FF	<0.5	2.0	<0.5	<0.5	5.5	<0.5	<0.5	<0.5	320	1,300	NS	NS
	12/17/1998	FD FF	<0.5	2.1	0.5	<0.5	6.0	<0.5	<0.5	<0.5	320	1,300	NS	NS
	3/18/1999	REG FF	<0.5	1.0	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	340	1,200	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,200	1,700	NS	NS
	9/15/1999	REG FF	<0.5	1.0	0.92	<0.5	5.5	<0.5	<0.5	<0.5	660	1,800	NS	NS
	12/14/1999	REG FF	<0.5	0.62	0.99	<0.5	3.7	<0.5	<0.5	<0.5	1,900	2,500	NS	NS
	3/15/2000	REG FF	<0.5	0.30	0.69	<0.5	1.6	<0.5	<0.5	<0.5	1,400	2,000	NS	NS
	3/15/2000	FD FF	<0.5	0.28	0.65	<0.5	1.3	<0.5	<0.5	<0.5	1,400	2,100	NS	NS
	6/21/2000	REG FF	<0.5	<0.5	0.53	<0.5	<0.5	<0.5	<0.5	<0.5	<30	1,400	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	290	1,600	NS	NS
	12/20/2000	REG	<0.5	<0.5	0.85	<0.5	<0.5	<0.5	<0.5	<3	130	1,400	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	930	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.7 U J	820	NS	NS
	6/7/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	91.7	1,030	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	263	<10	3.4 B
	9/23/2002	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.9 B	258	<10	3 B
	11/25/2002	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	148	6.9	<2.0
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.1 B	55.6	3.1	<2
	6/18/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	459	2.1	0.6 J
	9/11/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	85.9	<4.9	<4.7
	12/12/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	49.0	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	11.2	<4.9	4.9 J
	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	40.0	<9.4	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	63.5	<4.7	<5.9
	11/19/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	87.3	<4.7	<5.9
	3/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	18.7	<4.7	<5.9
	5/24/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	41.2	<9.3	<9.4
	8/10/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	133	<9.3	<9.4
	11/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	380	<9.3	<9.4

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-25	2/14/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**363**	<9.3	<9.4
	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**107**	<9.3	<9.4
MW-34S	2/21/1992	REG FF	<0.5	<1	>0.5	<1	<1	<1	<1	<0.5	**1,100**	**50**	NS	NS
	6/5/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/17/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**120**	<10	NS	NS
	3/23/1993	REG FF	<0.5	<1	**1.5**	<1	<1	<1	<1	<0.5	**45**	<10	NS	NS
	6/14/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**400**	<10	NS	NS
	12/7/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/7/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**74**	<10	NS	NS
	3/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**340**	<10	NS	NS
	1/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**19**	**2**	NS	NS
	1/18/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**8**	<2	NS	NS
	4/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**160**	<5	NS	NS
	7/11/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/24/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	**0.5**	<0.5	**0.6**	<30	<5	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	<5	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/14/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**6**	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**10**	NS	NS
	9/12/2000	REG	<0.5	<0.5	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	**31**	**20**	NS	NS
	12/19/2000	REG	<0.5	<0.5	**0.68**	<0.5	<0.5	<0.5	<0.5	<3	<30	**12**	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	**10**	NS	NS
	10/16/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	**15**	NS	NS
	6/4/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	**17.5**	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**18.2 B**	**13.3**	<10	**2.8 B**
	11/22/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	**20.5**	**6.9 B**	<2.0
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**35 B**	**9.5 B**	**1.8**	<2
	6/17/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	**1.9**	**0.9 J**
	9/8/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	**10**	<4.9	<4.7
	12/16/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	**7.7**	<4.9	<4.7
	3/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	6/7/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	**0.96 J**	<4.7	<5.9

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-34S	11/19/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.050	**2.0**	**1.6**	**2.7**
	5/24/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	8/10/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	2/13/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
Shallow to Intermediate														
MW-7I	2/20/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**1,800**	**70**	NS	NS
	6/9/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**180**	<10	NS	NS
	6/9/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**140**	<10	NS	NS
	6/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	**34**	NS	NS
	12/13/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**49**	<10	NS	NS
	3/25/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**230**	<10	NS	NS
	3/25/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**260**	**12**	NS	NS
	6/16/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	6/16/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	9/28/1993	REG FF	<0.5	<1	**2.6**	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/8/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**100**	<10	NS	NS
	6/7/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**170**	<10	NS	NS
	4/22/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**270**	**33**	NS	NS
	4/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	**0.8**	**90**	**15**	NS	NS
	6/5/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/18/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/23/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	**290**	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50 J	**15**	NS	NS
	6/12/2002	FS FF	**0.16**	<0.5	<0.5	<0.5	**0.12**	<0.5	<0.5	<0.5	<100	**2.5**	<45	<34
	9/18/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	439	**3.6 B**	**4.2 B**	**4 B**
	11/21/2002	FS	<0.5	**1.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29.8 B**	**1.5 B**	**8 B**	**3.6 B**
	1/28/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**38 B**	<5	**3.4**	<2
	6/19/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**76 J**	<5	**2.6**	<2
	9/9/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**144 J**	<5	<4.9	<2
	12/9/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	3/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	6/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**98.6 J**	<0.84	<9.4	<5.9
	8/13/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	11/18/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	5/26/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	**12.5 J**	<9.4
	8/11/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/21/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	**1.6 J**	<9.3	<9.4
	2/16/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-9	5/9/2001	REG	<5	**36**	**9.8**	<5	**210**	<5	<5	<5	<30	**830**	NS	NS
	10/18/2001	REG	**0.93**	**24**	**6.6**	<0.5	**190**	**3.0**	<0.5	**1.6**	**60 J**	**2,000**	NS	NS
	6/12/2002	FS FF	**0.11**	**2.1**	**0.49**	<0.5	**12**	**0.28**	<5	<5	<100	**619**	<45	<34
	9/19/2002	FS	<0.5	**0.56**	**0.39 J**	<0.5	**4.9**	<0.5	<0.5	<0.5	<100	**458**	<10	**4.7 B**

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-9	11/21/2002	FS	0.14	8.6	2.4	0.41	46	0.69	<0.5	0.62	9.0	753	13.4 B	4 B
	1/29/2003	FS	<0.5	0.41 J	0.24 J	<0.5	2.7	<0.5	<0.5	<0.5	5.2 B	383	1.6 B	<2
	1/29/2003	FD	<0.5	0.4 J	0.24 J	<0.5	2.7	<0.5	<0.5	<0.5	<100	376	2.2	<2
	6/19/2003	FS	<0.5	0.57	0.31 J	<0.5	3.8	0.16 J	<0.5	<0.5	<100	356	2.1	<2
	9/11/2003	FS	<0.5	<0.5	<0.5	<0.5	3 J	<0.5	<0.5	<0.5	<45.3	314	<4.9	<4.7
	12/10/2003	FS	<0.1	0.2 J	0.2 J	<0.1	2.1	<0.1	0.1 J	<0.1	<45.3	296	<4.9	<4.7
	3/12/2004	FS	<0.1	0.1 J	0.1 J	<0.1	1.6	<0.1	0.1 J	<0.1	<45.3	242	<4.9	<4.7
	6/11/2004	FS	<0.1	0.7	0.8	ND	11	0.1 J	0.3 J	0.1 J	<49.5	322	<9.4	<5.9
	8/11/2004	FS	<0.1	0.3 J	0.4 J	<0.1	4.9	<0.1	0.3 J	<0.1	<49.5	343	<4.7	<5.9
	11/18/2004	FS	<0.1	0.2 J	0.2 J	<0.1	2.8	<0.1	0.2 J	<0.1	<49.5	295	<4.7	<5.9
	3/16/2005	FS	<0.1	0.4 J	0.4 J	<0.1	5.8	<0.1	0.3 J	<0.1	<49.5	355	<4.7	<5.9
	5/25/2005	FS	<0.1	0.2 J	<0.1	<0.1	4.1	<0.1	0.2 J	<0.1	74.5 J	237	<9.3	<9.4
	8/10/2005	FS	<0.1	0.2 J	0.3 J	<0.1	2.6	<0.1	0.1 J	<0.1	<37.8	207	<9.3	<9.4
	11/16/2005	FS	<0.1	0.2 J	0.2 J	<0.1	2.1	<0.1	<0.1	<0.1	<37.8	141	<9.3	<9.4
	2/16/2006	FS	<0.1	0.3 J	0.2 J	<0.1	2.1	<0.1	<0.1	<0.1	<66.7	224	<9.3	<9.4
	5/23/2006	FS	<0.1	0.2 J	0.2 J	<0.1	2.3	<1.0	0.1 J	<0.1	<66.7	216	<9.3	<9.4
MW-11	2/26/1992	REG FF	<0.5	<1	<0.5	<1	1.0	<1	<1	<0.5	1,700	350	NS	NS
	6/9/1992	REG FF	<0.5	<1	1.2	<1	9.0	<1	1.0	<0.5	3,700	270	NS	NS
	12/15/1992	REG FF	<0.5	<1	<0.5	<1	7.8	<1	1.1	<0.5	320	190	NS	NS
	3/26/1993	REG FF	<0.5	<1	<0.5	<1	6.5	<1	<1	<0.5	460	200	NS	NS
	6/18/1993	REG FF	<0.5	<1	1.6	<1	14	<1	2.0	<0.5	740	320	NS	NS
	10/1/1993	REG FF	<0.5	1.1	1.2	<1	23	<1	1.7	<0.5	710	120	NS	NS
	12/10/1993	REG	<0.5	1.9	<0.5	<1	22	<1	1.4	<0.5	660	110	NS	NS
	3/16/1994	REG FF	<0.5	2.4	<0.5	<1	19	<1	1.2	<0.5	570	65	NS	NS
	6/8/1994	REG FF									<40	53	NS	NS
	6/8/1994	FD FF									<40	58	NS	NS
	6/9/1994	REG	<0.5	<1	<0.5	<1	11	<1	1.6	<0.5	910	82	NS	NS
	6/9/1994	FD	<0.5	1.5	<0.5	<1	13	1.5	1.6	<0.5	870	83	NS	NS
	9/14/1994	REG FF	<0.5	2.6	1.8	<1	32	2.5	2.9	<0.5	840	230	NS	NS
	1/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	8.6	<0.5	<0.5	<0.5	<7	36	NS	NS
	4/24/1995	REG FF	<0.5	1.7	0.6	<0.5	18	<0.5	<0.5	<0.5	<30	86	NS	NS
	4/24/1995	FD FF	<0.5	1.9	0.7	<0.5	19	0.8	<0.5	<0.5	40	86	NS	NS
	7/13/1995	REG FF	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	<0.5	380	140	NS	NS
	10/26/1995	REG FF	<0.5	3.0	1.0	<0.5	27	1	<0.5	<0.5	<30	59	NS	NS
	1/29/1996	REG FF	<0.5	3.5	1.4	<0.5	30	1.3	<0.5	<0.5	<30	28	NS	NS
	4/19/1996	REG FF	<0.5	4.2	1.4	<0.5	36	2.2	<0.5	<0.5	<30	70	NS	NS
	7/19/1996	REG FF	0.7	9.3	2.2	<0.5	80	3.7	<0.5	0.9	<30	130	NS	NS
	10/24/1996	REG FF	<0.5	6.4	1.8	<0.5	55	2.8	<0.5	1.0	89	140	NS	NS
	2/27/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	6/11/1997	REG FF	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	<30	26	NS	NS
	6/11/1997	FD FF	<0.5	0.89	<0.5	<0.5	6.1	<0.5	<0.5	<0.5	<30	26	NS	NS
	9/19/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	12/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	13	NS	NS
	3/19/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	16	NS	NS
	6/25/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	38	NS	NS
	9/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	11	NS	NS
	12/7/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	56	NS	NS
	3/18/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	12	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-11	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7.0	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1999	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7.0	NS	NS
	6/21/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7.0	NS	NS
	9/12/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6.0	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	6.0	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	40	49	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	93	150	NS	NS
	6/10/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	47.9	<45	<34
	6/10/2002	FD FF	<0.5	<0.5	<0.5	<0.5	0.3	<0.5	<0.5	<0.5	<100	58.3	<45	<34
	9/19/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	76.8 B	45.1	<10	4 B
	9/19/2002	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5,250	482	29.4	4.8 B
	11/22/2002	FS	0.27	0.12	0.43	<0.5	<0.5	<0.5	<0.5	<0.5	22.5 B	127	12.2 B	3.8 B
	1/29/2003	FS	<0.5	<0.5	<0.5	<0.5	0.18 J	<0.5	<0.5	<0.5	15.5 B	51.8	1.6 B	<2
	6/19/2003	FS	<0.5	<0.5	<0.5	<0.5	0.15 J	<0.5	<0.5	<0.5	<100	50	1.7	<2
	9/11/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	36.9	<4.9	<4.7
	12/11/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	27.5	<4.9	<4.7
	3/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	26.2	<4.9	7.8 J
	6/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	84.8 J	33.3	<4.7	<5.9
	8/12/2004	FS	<0.1	<0.1	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.1	<49.5	34.5	<4.7	<5.9
	11/18/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	28.7	<4.7	<5.9
	3/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	21.9	<4.7	<5.9
	5/25/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	18.8	<9.3	<9.4
	8/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	17.9	<9.3	<9.4
	11/21/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	15.6	<9.3	<9.4
	2/16/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	21.9	<9.3	<9.4
	5/23/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	12.7	<9.3	<9.4
MW-13	2/24/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	2,810	20	NS	NS
	6/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,200	10	NS	NS
	9/17/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,300	23	NS	NS
	12/13/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,400	17	NS	NS
	3/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	660	<10	NS	NS
	6/21/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,100	27	NS	NS
	10/2/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	710	14	NS	NS
	10/2/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,500	38	NS	NS
	12/10/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	720	18	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	61	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32	19	NS	NS
	6/10/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35.5	13.8	<45	<34
	9/19/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	96.6 B	1.9 B	<10	5.4 B
	11/21/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.7 B	0.8 B	4.7 B	<2.0
	1/29/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.8 B	<5	1.1 B	<2
	6/19/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	2.0	<2
	9/12/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	2.5 J	<4.9	<4.7
	12/10/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	0.79 J	<4.9	<4.7
	3/12/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-13	6/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	7.3 J
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	11/18/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	239	1.3 J	<4.7	<5.9
	3/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	246	2.1 J	5.0 J	<5.9
	5/25/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	136 J	2.9 J	<9.3	<9.4
	8/10/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	961	8.5	<9.3	<9.4
	11/16/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	411	2.7 J	<9.3	<9.4
	2/14/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	372	2.4 J	<9.3	<9.4
	NS	FS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	2/27/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	950	1,200	NS	NS
	6/8/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	180	NS	NS
	3/17/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	110	NS	NS
	3/17/2000	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	110	NS	NS
MW-20	3/10/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160	50	NS	NS
	6/9/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	640	160	NS	NS
	9/19/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	570	100	NS	NS
	12/16/1992	REG FF									140	12	NS	NS
	12/18/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5			NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	62	<10	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	73	<10	NS	NS
	9/28/1993	REG									41	<10	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/8/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	270	<10	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	<5	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50 J	0.93	NS	NS
	6/5/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.1	<5	<45	<34
	9/20/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	3 B	4 B
	11/22/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	0.3	6.8 B	2.1 B
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9 B	<5	8.1	<2
	6/17/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	42 J	<5	5.8	<2
	9/11/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	13.0 J	5.8 J	<4.7
	12/12/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	7.1 J	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	7.5 J	<4.7
	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	6.0 J	<5.9
	11/19/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.050	0.21	2.9	6.9
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	8/9/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	11.6 J	<9.4
	2/13/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	9.8 J	<9.4
MW-21	2/21/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	380	50	NS	NS
	6/1/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	40	10	NS	NS
	9/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	88	<10	NS	NS
	12/13/1992	REG									150	13	NS	NS
	12/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/22/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	990	<10	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-21	6/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**170**	<10	NS	NS
	9/28/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**1,000**	**33**	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**84**	<10	NS	NS
	6/7/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**250**	<10	NS	NS
	9/12/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**370**	<10	NS	NS
	1/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**10**	<2	NS	NS
	1/19/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	<2	NS	NS
	4/21/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/12/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/26/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/26/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	<0.5	**0.9**	<0.7	**1.3**	**0.6**	<0.5	<30	<5	NS	NS
	7/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/26/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<5	NS	NS
	2/26/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/4/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**30**	<5	NS	NS
	9/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/18/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/18/1998	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**0.018**	NS	NS
	9/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**8.0**	NS	NS
	3/14/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**8.0**	NS	NS
	6/21/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	<5	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	**14**	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2 UJ**	**2.5**	NS	NS
	6/5/2002	FS FF	<0.5	**0.11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	<45	<34
	9/20/2002	FS	<.5	**0.31 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	**1.7 B**	**3.3 B**	<50
	11/22/2002	FS	<0.5	**0.21**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.4 B**	**1.5 B**	**9.1 B**	<2.0
	1/31/2003	FS	<0.5	**0.26 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8.8 B**	<5	**5.3**	<2
	6/17/2003	FS	<0.5	**0.22 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	**4.8**	**0.2 J**
	9/11/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	**0.84 J**	<4.9	<4.7
	12/12/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**385**	**24.4**	**6.4 J**	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	**0.51 J**	<4.9	<4.7
	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	11/19/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**8.4**	**2.3**	**6.6**	**5.2**
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**162 J**	**12.8**	<9.3	<9.4

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-21	8/9/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	2/13/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-26P	3/3/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**40**	<10	NS	NS
	6/3/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**70**	<10	NS	NS
	6/3/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**280**	**20**	NS	NS
	6/17/1992	REG									**1,300**	**43**	NS	NS
	9/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**260**	**16**	NS	NS
	12/17/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**140**	<10	NS	NS
	3/26/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**440**	**16**	NS	NS
	6/17/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**55**	<10	NS	NS
	9/28/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**45**	<10	NS	NS
	12/10/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**320**	<10	NS	NS
	6/7/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**240**	**18**	NS	NS
	9/12/1994	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**87**	<10	NS	NS
	1/20/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	<2	NS	NS
	1/20/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	<2	NS	NS
	4/21/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/13/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/18/1996	REG FF	<0.5	<0.5	<0.5	**0.9**	<0.7	**1.4**	**0.8**	<0.5	<30	<5	NS	NS
	7/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/26/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/5/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/18/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/14/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	<5	NS	NS
	9/12/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/18/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	<5	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	<5	NS	NS
MW-27P	2/25/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**1,800**	**230**	NS	NS
	3/14/1993	REG	**1.3**	<1	**0.63**	<1	<1	<1	<1	<0.5			NS	NS
	3/14/1993	FD	<1	<1	<0.5	<1	<1	<1	<1	<0.5			NS	NS
	6/15/1993	REG FF	<0.5	<1	**0.64**	<1	<1	<1	<1	<0.5	**1,000**	**100**	NS	NS
	9/27/1993	REG FF	<0.5	<1	**0.6**	**2.3**	<1	<1	<1	<0.5	**290**	**64**	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	**27**	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-27P	3/14/1994	REG FF									81	24	NS	NS
	3/14/1994	FD FF									63	23	NS	NS
	6/6/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	97	18	NS	NS
	6/6/1994	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	130	20	NS	NS
	9/12/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	70	<10	NS	NS
	9/12/1994	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	110	19	NS	NS
	4/20/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	18	NS	NS
	4/20/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	18	NS	NS
	7/12/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	11	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	12	NS	NS
	1/26/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	10	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	0.9	<0.5	<0.7	0.8	<0.5	1.0	<30	10	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	8	NS	NS
	6/4/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	6/4/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	9/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	5	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1998	REG FF	<0.5	<0.5	<0.5	0.88	<0.5	<0.5	<0.5	<0.5	<30	5	NS	NS
MW-30P	2/25/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	290	250	NS	NS
	6/15/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	4,900	360	NS	NS
	9/27/1993	REG FF	<0.5	1.5	0.93	<1	<1	<1	<1	<0.5	300	290	NS	NS
	12/9/1993	REG	<0.5	1.3	<0.5	<1	<1	<1	<1	<0.5	120	280	NS	NS
	3/14/1994	REG FF	<0.5	<1	0.91	<1	<1	<1	<1	<0.5	150	250	NS	NS
	6/6/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	270	300	NS	NS
	9/12/1994	REG FF	<0.5	1.2	1.0	<1	<1	<1	<1	<0.5	200	250	NS	NS
	1/20/1995	REG FF	<0.5	0.8	0.6	<0.5	<0.7	<0.5	<0.5	<0.5	<7	280	NS	NS
	4/20/1995	REG FF	<0.5	0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	270	NS	NS
	7/10/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	250	NS	NS
	10/24/1995	REG FF	<0.5	0.7	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	250	NS	NS
	1/26/1996	REG FF	<0.5	0.7	0.7	<0.5	<0.7	<0.5	<0.5	<0.5	<30	250	NS	NS
	4/16/1996	REG FF	<0.5	0.6	0.7	<0.5	<0.7	<0.5	<0.5	0.9	<30	240	NS	NS
	7/17/1996	REG FF	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	270	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	240	NS	NS
	10/23/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	290	NS	NS
MW-33P	3/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	370	50	NS	NS
	6/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160	60	NS	NS
	9/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	28	NS	NS
	12/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	43	35	NS	NS
	3/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	180	16	NS	NS
	6/15/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	36	NS	NS
	9/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	38	NS	NS
	9/30/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	1.7	<0.5	<40	38	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	42	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-33P	3/16/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	41	42	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	91	53	NS	NS
	9/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	60	39	NS	NS
MW-36	3/10/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	170	140	NS	NS
	6/8/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	170	50	NS	NS
	9/19/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	190	19	NS	NS
	9/19/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	230	20	NS	NS
	12/16/1992	REG FF									<40	<10	NS	NS
	12/17/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	460	74	NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	130	30	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	210	15	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	56	<10	NS	NS
	12/8/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	850	27	NS	NS
MW-38	6/24/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	930	320	NS	NS
	6/24/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	760	260	NS	NS
	9/19/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	100	12	NS	NS
	12/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	150	11	NS	NS
	3/15/1993	REG									1,400	38	NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	120	14	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	150	<10	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	75	<10	NS	NS
	9/29/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	120	13	NS	NS
	12/8/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	380	<10	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	490	13	NS	NS
	9/13/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	230	47	NS	NS
	1/17/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	130	6	NS	NS
	4/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	30	<5	NS	NS
	7/10/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/24/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/24/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	0.6	<0.5	0.5	<30	<5	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/17/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-38	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/15/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**60**	**370**	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/19/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	<5	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	<5	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	**2.2**	NS	NS
	6/4/2002	FS FF	<0.5	**0.2**	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<100	<5	<45	<34
	9/23/2002	FS	<0.5	**0.1 J**	<0.5	**0.81**	<0.5	<0.5	<0.5	<0.5	<100	<5	<10	**4.8 B**
	11/22/2002	FS	<0.5	<0.5	<0.5	**0.45**	<0.5	<0.5	<0.5	<0.5	<9.0	**0.3**	**5.9 B**	<2.0
	1/30/2003	FS	<0.5	<0.5	<0.5	**0.69**	<0.5	<0.5	<0.5	<0.5	**4.2 B**	<5	<1	<2
	6/17/2003	FS	<0.5	<0.5	<0.5	**0.29 J**	<0.5	<0.5	<0.5	<0.5	**50 J**	**2.6 J**	**1.8**	**0.3 J**
	9/8/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	12/16/2003	FS	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	3/8/2004	FS	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	**5.3 J**
	6/7/2004	FS	<0.1	<0.1	<0.1	**0.2 J**	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/10/2004	FS	<0.1	<0.1	<0.1	**0.1 J**	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	11/15/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	8/8/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	2/10/2006	FS	<0.1	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
	5/19/2006	FS	<0.1	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
MW-39	6/25/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**210**	**90**	NS	NS
	9/18/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**350**	**86**	NS	NS
	12/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**270**	**130**	NS	NS
	3/15/1993	REG									**1,800**	**48**	NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**120**	**12**	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	**95**	<10	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**86**	<10	NS	NS
	12/8/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**830**	**23**	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**47**	<10	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**1,500**	**40**	NS	NS
	9/13/1994	REG FF									**45**	<10	NS	NS
	1/17/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	**2**	NS	NS
	1/17/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	<2	NS	NS
	4/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/12/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**60**	<5	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**30**	**28**	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	**0.8**	<0.5	<0.5	<30	<5	NS	NS
	7/19/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**7**	NS	NS
	9/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/17/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-39	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**5**	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**14**	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**7**	NS	NS
	6/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/15/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	**6.0**	NS	NS
	12/19/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	<5	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	<5	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**33**	**1.6**	NS	NS
	6/5/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<100	<5	<45	<34
	6/5/2002	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<100	<5	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	**263**	<10	**4.8 B**
	11/22/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	**0.5 B**	**4.1 B**	**2.2 B**
	1/29/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	**1.7 B**	<2
	6/17/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**139**	<5	**2.2**	**0.5 J**
	9/8/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	12/12/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	**2.0 J**	**19.5**	**22.5**
	3/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	6/7/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	**5.4 J**	<5.9
	11/15/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.050	**0.23**	**1.9**	<0.0059
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	**1.2 J**	<9.3	<9.4
	8/9/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	**1.2 J**	<9.3	<9.4
	11/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	**1.5 J**	<9.3	<9.4
	2/13/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**1.6 J**	<9.3	<9.4
	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**1.2 J**	<9.3	<9.4
MW-40	6/24/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**83,000**	**12,000**	NS	NS
	9/18/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**130,000**	**25,000**	NS	NS
	12/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**120,000**	**26,000**	NS	NS
	3/15/1993	REG									**84,000**	**25,000**	NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**110,000**	**25,000**	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	**99,000**	**25,000**	NS	NS
	7/1/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	**97,000**	**26,000**	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**110,000**	**27,000**	NS	NS
	12/8/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**120,000**	**26,000**	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**79,000**	**24,000**	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**49,000**	**20,000**	NS	NS
	9/13/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**78,000**	**19,000**	NS	NS
	1/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**1,300**	**940**	NS	NS
	4/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**870**	**990**	NS	NS
	7/11/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**500**	**740**	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-40	7/11/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	480	680	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	380	350	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	250	310	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	0.9	<0.5	<0.5	210	220	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	390	470	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	260	370	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,700	1,400	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	100	360	NS	NS
	6/3/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	80	360	NS	NS
	9/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	200	140	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	150	150	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	110	140	NS	NS
	3/17/1998	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	100	140	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	72	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	52	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	60	90	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	60	100	NS	NS
	6/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	120	NS	NS
	9/15/1999	REG FF	0.73	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7.0	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	360	170	NS	NS
	3/15/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,800	4,900	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	220	100	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,200	3,600	NS	NS
	12/19/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	60	180	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	36	150	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	58	130	NS	NS
	6/7/2002	FS FF	0.18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.8	63.9	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	22 B	124	<10	6.6 B
	11/25/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.9	28.6	3.7	<2.0
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.2 B	39.1	2.4	<2
	6/17/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	58 J	82	2.0	0.6 J
	9/8/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	56.2	<4.9	<4.7
	12/11/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	7.4	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	21.5	<4.9	<4.7
	6/7/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	20.7	<9.4	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	33.3	<4.7	<5.9
	11/15/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	25.2	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.050	31.2	<0.0047	2.1
	5/24/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	44.8	<9.3	<9.4
	8/8/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	57.3	<9.3	<9.4
	11/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	27.9	10.2 J	<9.4
	2/10/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	27.0	<9.3	<9.4
	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	21.8	<9.3	<9.4
MW-41	6/25/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,300	1,400	NS	NS
	9/18/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	200,000	20,000	NS	NS
	12/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	180,000	15,000	NS	NS
	3/15/1993	REG									110,000	14,000	NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	190,000	18,000	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-41	3/24/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	180,000	16,000	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	200,000	16,000	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160,000	26,000	NS	NS
	12/8/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	120,000	17,000	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	100,000	14,000	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	98,000	15,000	NS	NS
	9/13/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	73,000	12,000	NS	NS
	1/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	9,200	3,000	NS	NS
	4/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	3,100	2,500	NS	NS
	7/11/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	7,800	3,700	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	920	1,600	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	680	1,700	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	<0.5	**0.9**	<0.7	**1.5**	**0.7**	<0.5	610	1,400	NS	NS
	4/17/1996	FD FF	<0.5	<0.5	<0.5	**0.8**	<0.7	**1.4**	**0.6**	<0.5	650	1,500	NS	NS
	7/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	820	1,300	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3,300	1,800	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	24,000	8,900	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	390	630	NS	NS
	9/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	400	450	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7,500	2,600	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	680	270	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14,000	20,000	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	370	190	NS	NS
	9/15/1998	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	400	200	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	700	290	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	560	360	NS	NS
	6/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	62	50	NS	NS
	12/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	320	NS	NS
	3/15/2000	REG FF	**0.25**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6,100	3,600	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	60	1,500	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	74	980	NS	NS
	12/19/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	220	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	240	420	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	64	96	NS	NS
	6/7/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5,270	4,490	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4,810	740	<10	**4 B**
	11/25/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	65.4	114	3.9	<2.0
	1/30/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	63 B	189	<1	<2
	6/18/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	224	424	0.7	0.2 J
	9/8/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	456	<4.9	<4.7
	12/11/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	528	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	379	<4.9	<4.7
	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	59.5 J	612	<9.4	<5.9
	8/11/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	91.5 J	259	<4.7	<5.9
	11/15/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	52.9 J	516	<4.7	<5.9
	3/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	81.3	561	2.3	1.70
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	288	819	<9.3	<9.4

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-41	8/9/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	331	769	<9.3	<9.4
	11/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	107 J	783	12.0 J	<9.4
	2/10/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	115 J	758	<9.3	<9.4
	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	204	680	<9.3	<9.4
Intermediate														
MW-23	3/5/1992	REG FF									150,000	33,000	NS	NS
	3/10/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	80	70	NS	NS
	4/22/1992	REG FF	<1	<1	<1	<1	<1	<1	<1	<1	<40	30	NS	NS
	6/9/1992	REG FF									<40	50	NS	NS
	6/10/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	590	60	NS	NS
	9/19/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	50	28	NS	NS
	12/16/1992	REG FF									<40	43	NS	NS
	12/17/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	79	46	NS	NS
	3/15/1993	REG									480	76	NS	NS
	3/24/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	480	130	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	98	42	NS	NS
	9/28/1993	REG									<40	51	NS	NS
	9/29/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	48	NS	NS
	12/8/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	250	58	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	37	NS	NS
	6/8/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	190	58	NS	NS
	6/8/1994	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	190	56	NS	NS
	9/12/1994	REG FF									140	280	NS	NS
	9/13/1994	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5			NS	NS
	1/17/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	11	36	NS	NS
	4/21/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	8	NS	NS
	4/21/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	8	NS	NS
	7/12/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	6	NS	NS
	10/26/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	12	NS	NS
	1/26/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	13	NS	NS
	1/26/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	13	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	0.7	<0.5	<0.7	1.4	0.7	<0.5	<30	7	NS	NS
	7/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	11	NS	NS
	7/18/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	10	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	21	NS	NS
	2/26/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	21	NS	NS
	6/4/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	13	NS	NS
	9/18/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	16	NS	NS
	12/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	30	NS	NS
	12/17/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	30	NS	NS
	3/18/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6	NS	NS
	6/24/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	5	NS	NS
	9/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	7	NS	NS
	3/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	120	710	NS	NS
	6/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	160	770	NS	NS
	9/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	480	NS	NS
	9/15/1999	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	490	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	190	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-23	3/14/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	280	NS	NS
	6/21/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	18	NS	NS
	9/13/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	160	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	60	210	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	44	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50 J	2.2	NS	NS
	6/5/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	7.6	<45	<34
	9/20/2002	FS	<0.5	0.41 J	0.17 J	<0.5	<0.5	<0.5	<0.5	<0.5	17.9 B	265	<10	2.9 B
	11/22/2002	FS	<0.5	0.33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	256	6.1 B	<2.0
	1/31/2003	FS	<0.5	0.4 J	0.2 J	<0.5	<0.5	<0.5	<0.5	<0.5	4.9 B	283	3.4	<2
	6/17/2003	FS	<0.5	0.53	0.29 J	<0.5	<0.5	<0.5	<0.5	<0.5	40 J	263	2.2	0.3 J
	9/11/2003	FS	<0.5	0.6 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	267	<4.9	<4.7
	9/11/2003	FD	<0.5	0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	275	<4.9	<4.7
	12/12/2003	FS	<0.1	<0.1	0.3 J	0.6	<0.1	<0.1	<0.1	<0.1	<45.3	324	5.2 J	<4.7
	3/9/2004	FS	<0.1	0.6	0.3 J	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	312	<4.9	<4.7
	6/8/2004	FS	<0.1	0.5	0.3 J	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	253	<9.4	<5.9
	8/10/2004	FS	<0.1	0.6	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	249	<4.7	<5.9
	11/19/2004	FS	<0.1	0.5 J	0.3 J	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	301	<4.7	<5.9
	3/14/2005	FS	<0.1	0.4 J	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	269	<4.7	<5.9
	5/23/2005	FS	<0.1	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	224	<9.3	<9.4
	8/9/2005	FS	<0.1	0.5 J	0.5 J	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	279	<9.3	<9.4
	11/15/2005	FS	<0.1	0.4 J	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	258	<9.3	<9.4
	2/13/2006	FS	<0.1	0.2 J	0.2 J	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	212	<9.3	<9.4
	5/22/2006	FS	<0.1	0.3 J	0.3 J	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	226	<9.3	<9.4
MW-34I	2/19/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	80	20	NS	NS
	6/3/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	60	<10	NS	NS
	9/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	33	NS	NS
	12/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/25/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	6/14/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	9/27/1993	REG FF	<0.5	<1	0.86	<1	<1	<1	7.7	<0.5	<40	<10	NS	NS
	9/27/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/7/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	48	<10	NS	NS
	6/6/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	83	<10	NS	NS
	9/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	100	<10	NS	NS
	1/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	46	10	NS	NS
	4/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	170	12	NS	NS
	7/11/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/24/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	0.5	<30	<5	NS	NS
	4/16/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	0.6	<30	<5	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	59	<5	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-34I	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<30	<5	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/23/1998	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	0.74	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	FD FF	<0.5	<0.5	0.51	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/1999	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	10	NS	NS
	6/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/14/2000	REG FF	<0.5	<0.5	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6.0	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	8.0	NS	NS
	9/12/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	52	16	NS	NS
	12/19/2000	REG	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	<0.5	<3	<30	17	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	66	20	NS	NS
	10/16/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	71	25	NS	NS
	10/16/2001	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	110	30	NS	NS
	6/4/2002	FS FF	<0.5	<0.5	0.28	<0.5	<0.5	<0.5	<0.5	<0.5	17.7	14.4	<45	<34
	9/23/2002	FS	<.5	0.15 J	0.53	<0.5	<0.5	<0.5	<0.5	<0.5	36.2 B	3.3 B	<10	2.8 B
	11/22/2002	FS	<0.5	0.15	0.35 J	<0.5	<0.5	<0.5	<0.5	<0.5	12.6 B	3.5 B	4.5 B	<2.0
	1/31/2003	FS	<0.5	0.12 J	0.46 J	<0.5	<0.5	<0.5	<0.5	<0.5	12.4 B	3.5 B	3.1	<2
	6/17/2003	FS	<0.5	0.12 J	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	2.5	<2
	9/8/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	2.9 J	<4.9	<4.7
	12/15/2003	FS	<0.1	0.1 J	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	2.6 J	<4.9	<4.7
	3/8/2004	FS	<0.1	0.1 J	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	2.4 J	<4.9	<4.7
	6/7/2004	FS	<0.1	<0.1	0.4 J	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	2.5 J	<9.4	<5.9
	8/10/2004	FS	<0.1	0.1 J	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	2.7J	<4.7	<5.9
	11/19/2004	FS	<0.1	0.1 J	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	10.7	<4.7	<5.9
	3/14/2005	FS	<0.1	0.1J	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	2.3J	<4.7	<5.9
	5/24/2005	FS	<0.1	0.1 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	3.4 J	<9.3	<9.4
	8/10/2005	FS	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	3.1 J	<9.3	<9.4
	11/15/2005	FS	<0.1	0.1 J	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	3.5 J	<9.3	<9.4
	2/13/2006	FS	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	3.1 J	<9.3	<9.4
	5/22/2006	FS	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	3.3 J	<9.3	<9.4
Deep														
MW-2D	2/24/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	730	20	NS	NS
	6/8/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	40	<10	NS	NS
	6/17/1992	REG									41	<10	NS	NS
	9/16/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	65	<10	NS	NS
	9/16/1992	FD	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	84	<10	NS	NS
	12/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	200	<10	NS	NS
	3/23/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	100	16	NS	NS
	6/17/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	10/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	91	<10	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,300	32	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	91	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-2D	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1 UJ	61	NS	NS
	6/6/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.1	6.7	<45	<34
	9/20/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	89.8 B	4.8 B	<10	4.1 B
	11/25/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	22.1	54.5	4.6	<2.0
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20.1 B	8.8 B	1.6	<2
	6/18/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	4.6 J	1.4	0.2 J
	9/10/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	51.5 J	7.9	<4.9	<4.7
	12/11/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	6.5	<4.9	<4.7
	3/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	65.6 J	6.8	<4.9	<4.7
	6/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	6.5	<9.4	<5.9
	8/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	5.8	<4.7	<5.9
	8/9/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	5.8	<4.7	<5.9
	11/15/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	106 J	5.1	<4.7	<5.9
	3/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	4.0 J	<4.7	<5.9
	5/23/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	80.7 J	5.1	<9.3	<9.4
	8/8/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	127 J	4.6 J	<9.3	<9.4
	11/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	283	7.7	<9.3	<9.4
	2/10/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	1.9 J	<9.3	<9.4
	5/19/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	3.3 J	<9.3	<9.4
MW-5D	2/25/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	250	150	NS	NS
	6/9/1992	REG FF									<40	210	NS	NS
	6/10/1992	REG	5.8	<1	<0.5	<1	<1	<1	<1	<0.5	40	250	NS	NS
	9/14/1992	REG FF	8.6	<1	<0.5	<1	<1	<1	<1	<0.5	51	270	NS	NS
	12/13/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	80	290	NS	NS
	3/26/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	56	230	NS	NS
	6/18/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	220	NS	NS
	9/28/1993	REG FF	<0.5	<1	1.6	<1	<1	<1	<1	<0.5	<40	240	NS	NS
	12/7/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	180	260	NS	NS
	6/23/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	44	340	NS	NS
	12/20/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	380	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	280	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	15 UJ	150	NS	NS
	6/11/2002	FS FF	0.31	0.16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	6.8	<45	<34
	9/18/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	48.8 B	68.5	3.7 B	3.9 B
	11/20/2002	FS	<0.5	0.27	<0.5	<0.5	0.27	<0.5	<0.5	<0.5	<9.0	156	5.3	<2.0
	1/28/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2 B	50.3	<1	<2
	6/20/2003	FS	<0.5	0.12 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	90	1.4	<2
	9/9/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	125	<4.9	<4.7
	12/9/2003	FS	<0.1	0.2 J	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.1	<45.3	120	<4.9	<4.7
	3/11/2004	FS	<0.1	0.2 J	<0.1	<0.1	0.2 J	<0.1	<0.1	<0.1	<45.3	204	<4.9	<4.7
	6/9/2004	FS	<0.1	0.4 J	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<49.5	281	<9.4	<5.9
	8/13/2004	FS	<0.1	0.5 J	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<49.5	266	<4.7	<5.9
	11/17/2004	FS	<0.1	0.2 J	<0.1	<0.1	0.2 J	<0.1	<0.1	<0.1	<49.5	135	<4.7	<5.9
	3/18/2005	FS	<0.1	0.5 J	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<49.5	641	<4.7	<5.9
	5/26/2005	FS	<0.1	0.2 J	<0.1	<0.1	0.2 J	<0.1	<0.1	<0.1	<37.8	329	<9.3	<9.4
	8/11/2005	FS	<0.1	0.1 J	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.1	<37.8	645	<9.3	<9.4
	11/17/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	181	<9.3	<9.4

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-5D	2/15/2006	FS	<0.1	0.1 J	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.1	<66.7	543	<9.3	<9.4
	5/24/2006	FS	<0.1	0.1 J	<0.1	<0.1	0.1 J	<0.1	<0.1	<0.1	<66.7	243	<9.3	<9.4
MW-6D	9/18/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	290	62	NS	NS
	12/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	270	88	NS	NS
	3/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	120	62	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	700	32	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	720	67	NS	NS
	6/10/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	230	27	NS	NS
	4/24/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	25	NS	NS
	4/19/1996	REG FF	0.5	1.3	0.6	<0.5	4.0	0.6	1.1	<0.5	<30	24	NS	NS
	6/5/1997	REG FF	0.59	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<30	24	NS	NS
	6/25/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	16	NS	NS
	6/18/1999	REG FF	<0.5	<0.5	<0.5	<0.5	0.58	<0.5	0.75	<0.5	<30	16	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	18	NS	NS
	6/22/2000	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	20	NS	NS
	5/9/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	21	NS	NS
	10/18/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.9 UJ	12	NS	NS
	6/11/2002	FS FF	<0.5	0.13	<0.5	<0.5	0.33	<0.5	0.19	<0.5	<100	10.7	<45	<34
	9/18/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.32 J	<0.5	140	11.5	1.9 B	<50
	11/20/2002	FS	<0.5	0.63	<0.5	<0.5	1.2	<0.5	0.64	<0.5	93.5	4.8	<1.0	<2.0
	1/28/2003	FS	<0.5	1.1	0.13 J	<0.5	1.8	<0.5	1.1	<0.5	159	3.9 B	1.7 B	<2
	6/20/2003	FS	<0.5	1.5	0.23 J	<0.5	2.8	0.16 J	1.5	<0.5	39 J	2.1 J	1.8	<2
	9/9/2003	FS	<0.5	2 J	<0.5	<0.5	4J	<0.5	2J	<0.5	<45.3	0.74 J	<4.9	<4.7
	12/9/2003	FS	<0.1	1.9	0.3 J	<0.1	4.3	<0.1	2.2	<0.1	<45.3	0.83 J	<4.9	<4.7
	3/11/2004	FS	<0.1	2.2	0.4 J	<0.1	4.8	<0.1	2.6	<0.1	<45.3	0.62 J	<4.9	<4.7
	6/9/2004	FS	<0.1	2.6	0.4 J	<0.1	5.9	<0.1	3.2	<0.1	<49.5	1.4 J	<9.4	<5.9
	8/13/2004	FS	<0.1	3.1	0.4 J	<0.1	6.0	<0.1	3.7	<0.1	<49.5	0.94 J	<4.7	<5.9
	11/17/2004	FS	<0.1	3.5	0.5	<0.1	6.2	<0.1	4.3	<0.1	<49.5	1.7 J	<4.7	<5.9
	3/18/2005	FS	<0.1	3.7	0.5 J	<0.1	5.5	<0.1	4.2	<0.1	<49.5	<0.84	<4.7	<5.9
	5/26/2005	FS	<0.1	3.6	0.5 J	<0.1	5.1	<0.1	3.9	<0.1	<37.8	1.9 J	<9.3	<9.4
	8/11/2005	FS	<0.1	4.0	0.6	<0.1	5.7	<0.1	4.2	<0.1	<37.8	0.99 J	<9.3	<9.4
	11/17/2005	FS	<0.1	4.1	0.6	<0.1	5.3	<0.1	4.4	<0.1	<37.8	0.97 J	<9.3	<9.4
	2/15/2006	FS	<0.1	3.9	0.5	<0.1	4.8	<0.1	4.1	<0.1	<66.7	26.1	<9.3	<9.4
	5/24/2006	FS	<0.1	2.9	0.3 J	<0.1	4.2	<0.1	3.7	<0.1	<66.7	53.5	<9.3	<9.4
MW-28P	3/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	6/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	230	<10	NS	NS
	9/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	400	<10	NS	NS
	3/15/1993	REG									75	<10	NS	NS
	3/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	42	<10	NS	NS
	3/30/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	46	<10	NS	NS
	6/15/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	9/27/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/15/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	6/6/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	87	<10	NS	NS
	9/13/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	56	<10	NS	NS
	1/21/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	8	<2	NS	NS
	1/21/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	<2	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-28P	4/21/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/10/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/10/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/29/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	**0.8**	<0.5	<0.5	<30	<5	NS	NS
	7/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/26/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/14/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/12/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/19/2000	REG	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	<30	<5	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	<5	NS	NS
	10/16/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**27**	**2.1**	NS	NS
	6/5/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	<45	<34
	9/17/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	<10	<50
	11/19/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<9.0	**0.9 B**	**4.2 B**	<2.0
	1/30/2003	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.0**	<5	**1.7 B**	<2
	6/16/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	**2.0**	<2
	9/10/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	12/15/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	3/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	6/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/12/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	**6.2 J**	<5.9
	11/22/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/17/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	5/27/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	8/12/2005	FS	**0.1 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/18/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	2/17/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**1.3 J**	<9.3	<9.4
	5/25/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<52.2	**0.37 J**	<10	<9.4
MW-29P	3/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	**70**	NS	NS
	6/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	**410**	NS	NS
	9/16/1992	REG									<40	**76**	NS	NS
	9/17/1992	REG	<0.5	<1	**0.65**	<1	<1	<1	<1	<0.5	<40	**76**	NS	NS
	12/13/1992	REG									**130**	**200**	NS	NS
	12/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	**190**	NS	NS
	12/14/1992	FD FF									<40	**200**	NS	NS
	12/30/1992	REG	<0.5	<1	**0.9**	<1	<1	<1	<1	<0.5			NS	NS
	12/30/1992	FD	<0.5	<1	**0.87**	<1	<1	<1	<1	<0.5			NS	NS
	3/23/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**55**	**280**	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-29P	6/14/1993	REG FF	<0.5	<1	0.7	<1	<1	<1	<1	<0.5	120	340	NS	NS
	9/27/1993	REG FF	<0.5	<1	0.55	<1	<1	<1	<1	<0.5	<40	260	NS	NS
	12/6/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	130	110	NS	NS
	12/6/1993	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	81	110	NS	NS
	6/6/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	68	150	NS	NS
	4/20/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	140	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	<0.5	0.6	<0.7	0.8	<0.5	0.9	<30	99	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	110	NS	NS
MW-34D	2/21/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	140	20	NS	NS
	6/5/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	9/16/1992	REG									<40	<10	NS	NS
	9/17/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	43	<10	NS	NS
	12/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	150	10	NS	NS
	12/15/1992	REG	<0.5	<1	<0.5	<1	7.8	<1	1.1	<0.5			NS	NS
	3/25/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	47	<10	NS	NS
	6/14/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	57	<10	NS	NS
	9/28/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/14/1994	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	6/6/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	46	<10	NS	NS
	9/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	100	<10	NS	NS
	1/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	8	NS	NS
	4/18/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/18/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	40	<5	NS	NS
	7/11/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/24/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/25/1996	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<30	<5	NS	NS
	12/16/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<30	<5	NS	NS
	3/17/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/16/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/15/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40	<5	NS	NS
	9/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/14/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/14/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	8.0	NS	NS
	9/12/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	6.0	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-34D	12/19/2000	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3	**320**	**66**	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	**160**	**57**	NS	NS
	10/16/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**94**	**26**	NS	NS
	6/4/2002	FS FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	**10.3**	<45	<34
	9/23/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**13.4 B**	**0.5 B**	**1.1 B**	**4.7 B**
	11/22/2002	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10.4 B**	**0.3**	**4.7 B**	**3.3 B**
	1/31/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**7.1 B**	<5	**2.7**	<2
	6/17/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**54 J**	**4.2 J**	**2.0**	**0.2 J**
	9/11/2003	FS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	9/11/2003	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	<0.51	<4.9	<4.7
	12/15/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	**6.1 J**	<4.7
	3/8/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	<0.51	<4.9	<4.7
	6/7/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<9.4	<5.9
	8/10/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	11/19/2004	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	3/14/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	<0.84	<4.7	<5.9
	5/24/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	8/9/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	11/15/2005	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	<0.96	<9.3	<9.4
	2/13/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
	5/22/2006	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	<0.96	<9.3	<9.4
None														
MW-22P	3/3/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**90**	**10**	NS	NS
	6/1/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**40**	<10	NS	NS
	9/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**57**	<10	NS	NS
	12/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**46**	<10	NS	NS
	12/16/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**48**	<10	NS	NS
	3/22/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**42**	<10	NS	NS
	9/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**56**	<10	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	12/9/1993	FD	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	3/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**77**	<10	NS	NS
	6/7/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**73**	<10	NS	NS
	9/12/1994	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS
	1/20/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<7	<2	NS	NS
	4/22/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	7/13/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	**40**	<5	NS	NS
	10/26/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/26/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/29/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	4/18/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	**0.7**	<30	<5	NS	NS
	7/19/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/23/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
MW-31P	3/2/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**330**	<10	NS	NS
	3/2/1992	FD FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**520**	<10	NS	NS
	6/2/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5			NS	NS
	6/3/1992	REG FF									**550**	**30**	NS	NS
	9/16/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<40	<10	NS	NS

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-31P	12/14/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	1,100	25	NS	NS
	3/23/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	150	<10	NS	NS
	7/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	140	<10	NS	NS
	10/1/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	160	<10	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	300	<10	NS	NS
	3/14/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	400	<10	NS	NS
	6/9/1994	REG FF	<1	<1	<1	<1	<1	<1	<1	<1	710	22	NS	NS
	9/13/1994	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	170	<10	NS	NS
	4/20/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	110	31	NS	NS
	7/13/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	30	<5	NS	NS
	10/25/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	40	<5	NS	NS
	10/25/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	1/25/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	40	6	NS	NS
	4/16/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	1.0	40	<5	NS	NS
	7/17/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/22/1996	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35	<5	NS	NS
	2/25/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	2/25/1997	FD FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40	<5	NS	NS
	9/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/16/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	3/17/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	9/16/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	12/15/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
MW-32P	2/24/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	110	10	NS	NS
	6/4/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	190	40	NS	NS
	9/16/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	55	11	NS	NS
	12/15/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	290	170	NS	NS
	3/22/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	140	<10	NS	NS
	6/21/1993	REG FF	<0.5	<1	0.82	<1	<1	<1	<1	<0.5	83	12	NS	NS
	9/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	270	16	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	480	18	NS	NS
	12/9/1993	FD	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	660	22	NS	NS
	6/9/1994	REG FF	<1	<1	<1	<1	<1	<1	<1	<1	330	29	NS	NS
	4/19/1995	REG FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	110	13	NS	NS
	4/19/1995	FD FF	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	12	NS	NS
	4/16/1995	REG FF	<0.5	<0.5	0.6	<0.5	<0.7	<0.5	<0.5	1.0	<30	12	NS	NS
	6/3/1997	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	10	NS	NS
	6/23/1998	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33	10	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	12	NS	NS
	6/20/2000	REG FF	<0.5	<0.5	0.66	<0.5	<0.5	<0.5	<0.5	<0.5	<30	13	NS	NS
	5/8/2001	REG	<5	<5	<5	<5	<5	<5	<5	<5	<30	11	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	12	NS	NS
	6/4/2002	FS FF	<0.5	0.12	0.55	<0.5	<0.5	<0.5	<0.5	<0.5	12.8	10.1	<45	<34
	9/17/2002	FS FF	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	<0.5	<0.5	9.8 B	10.5	<10	3.7 B
	11/19/2002	FS FF	<0.5	<0.5	0.34	<0.5	<0.5	<0.5	<0.5	<0.5	13.4 B	12.2	5.2 B	<2.0
	1/30/2003	FS	<0.5	<0.5	0.4	<0.5	<0.5	<0.5	<0.5	<0.5	14.8	11.9	2.2	<2

Appendix F
Historical Concentrations of Selected Volatile Organic Compounds and Metals
Purity Oil Sales Superfund Site, Malaga, California

Well ID	Date	Type	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Iron *	Manganese *	Arsenic	Selenium
		MCL/ROD/RG	1	5	0.5	6	6	10	5	0.5	300	50	10	50
MW-32P	6/16/2003	FS	<0.5	<0.5	**0.44 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<5	**0.04 J**	<2
	9/10/2003	FS	<0.5	<0.5	**0.6 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<45.3	**10.7**	<4.9	<4.7
	12/16/2003	FS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	**10.4**	<4.9	<4.7
	3/10/2004	FS	<0.1	<0.1	**0.5 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<45.3	**12.6**	<4.9	<4.7
	6/10/2004	FS	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	**11.8**	<9.4	<5.9
	8/12/2004	FS	<0.1	<0.1	**0.4 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	**10.7**	<4.7	<5.9
	11/22/2004	FS	<0.1	<0.1	**0.2 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<49.5	**9.1**	<4.7	<5.9
	5/27/2005	FS	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<37.8	**7.0**	<9.3	<9.4
	2/17/2006	FS	<0.1	<0.1	**0.4 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<66.7	**14.8**	<9.3	<9.4
	5/25/2006	FS	<0.1	<0.1	**0.3 J**	<0.1	<0.1	<0.1	<0.1	<0.1	<52.2	**6.3**	<10	<9.4
MW-35P	3/6/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**80**	**130**	NS	NS
	6/5/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**100**	**30**	NS	NS
	9/17/1992	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**390**	**26**	NS	NS
	12/17/1992	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	.	**63**	**60**	NS	NS
	12/17/1992	FD FF	<0.5	<1	**0.56**	<1	<1	<1	<1	<0.5	**57**	**70**	NS	NS
	3/30/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**79**	**160**	NS	NS
	6/18/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**91**	**250**	NS	NS
	10/2/1993	REG FF	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**330**	**24**	NS	NS
	12/9/1993	REG	<0.5	<1	<0.5	<1	<1	<1	<1	<0.5	**510**	**44**	NS	NS
	6/9/1994	REG FF	<1	<1	<1	<1	<1	<1	<1	<1	**93**	<10	NS	NS
	10/26/1995	REG	<0.5	<0.5	<0.5	<0.5	<0.7	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/17/1999	REG FF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	6/22/2000	REG FF	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<5	NS	NS
	10/17/2001	REG	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**41**	**4.0**	NS	NS

Notes:

Data and information prior to June 2002 was supplied to SECOR by IT Corporation. SECOR accepts no responsibility for the accuracy of this data.

All results are reported in micrograms/liter (µg/L) unless otherwise noted.

* Prior to September 1999 most results appeared to be reported in milligrams/liter (mg/L). These results have been changed to micrograms/liter (µg/L) to be more consistent with subsequent sampling data.

ROD/MCL/RG - Record of Decision/Maximum Contaminant Level/Remedial Goal

REG/FS - primary sample/field sample

FF - field filtered

NS - not sampled

< - not detected above the reporting limit

J - estimated value

B = Value is less than contract required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

D = Organic constituent is identified in an analysis at a secondary dilution factor.

E = Organic constituent value reported exceeds the linear calibration range for that compound.

UJ - reporting limit is estimated

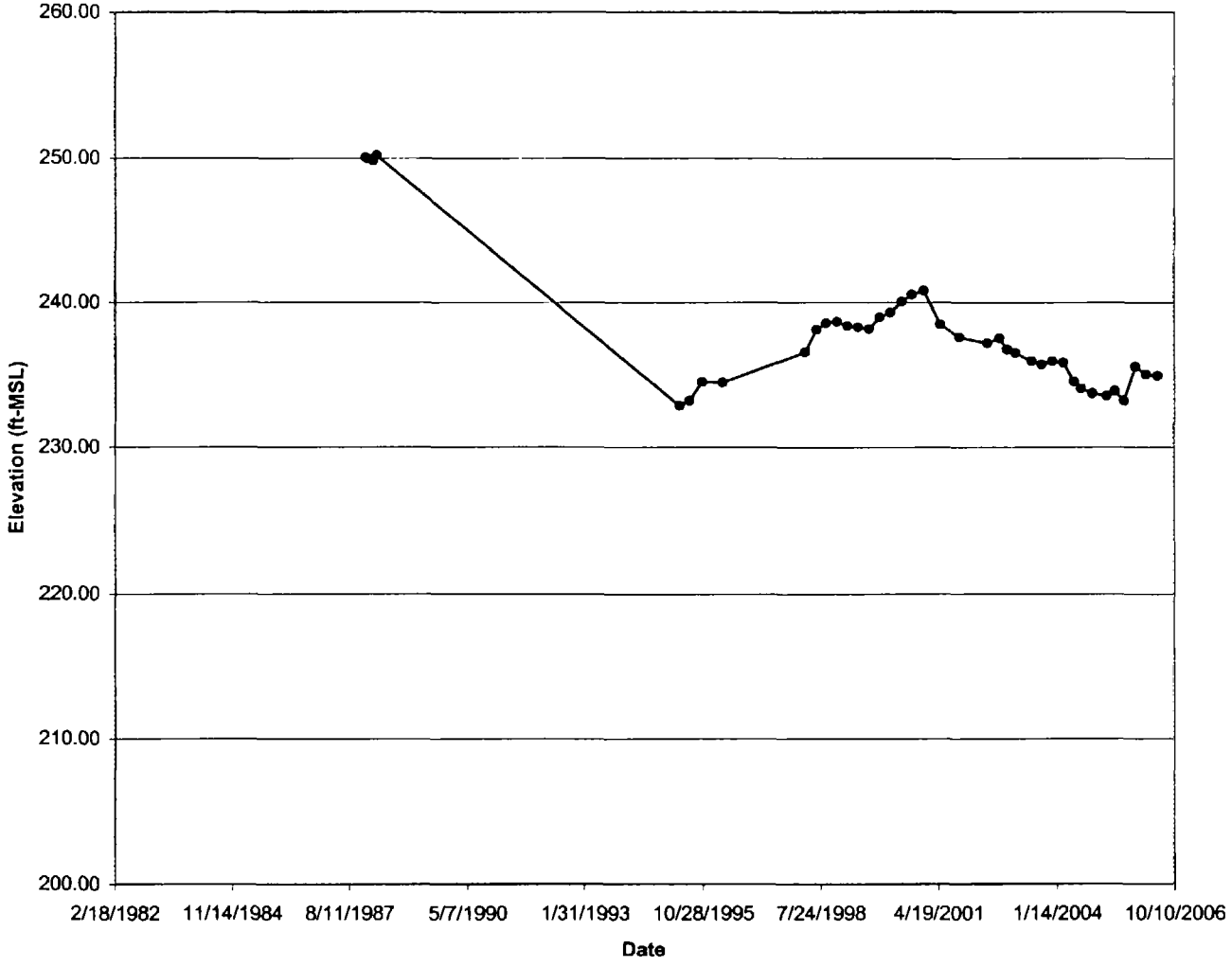
Bolded values are detected above the method detection limit

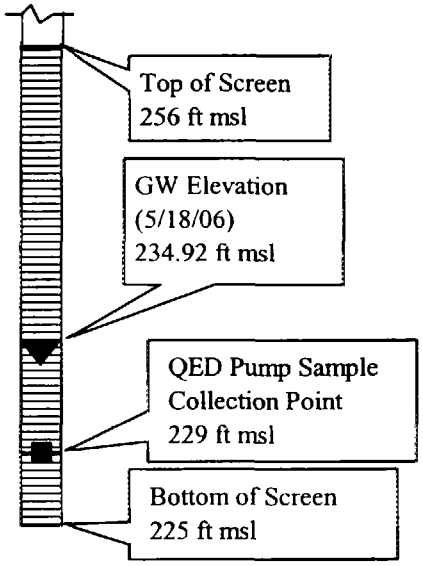
Outlined values exceed the ROD/MCL/RG

APPENDIX G
Hydrographs

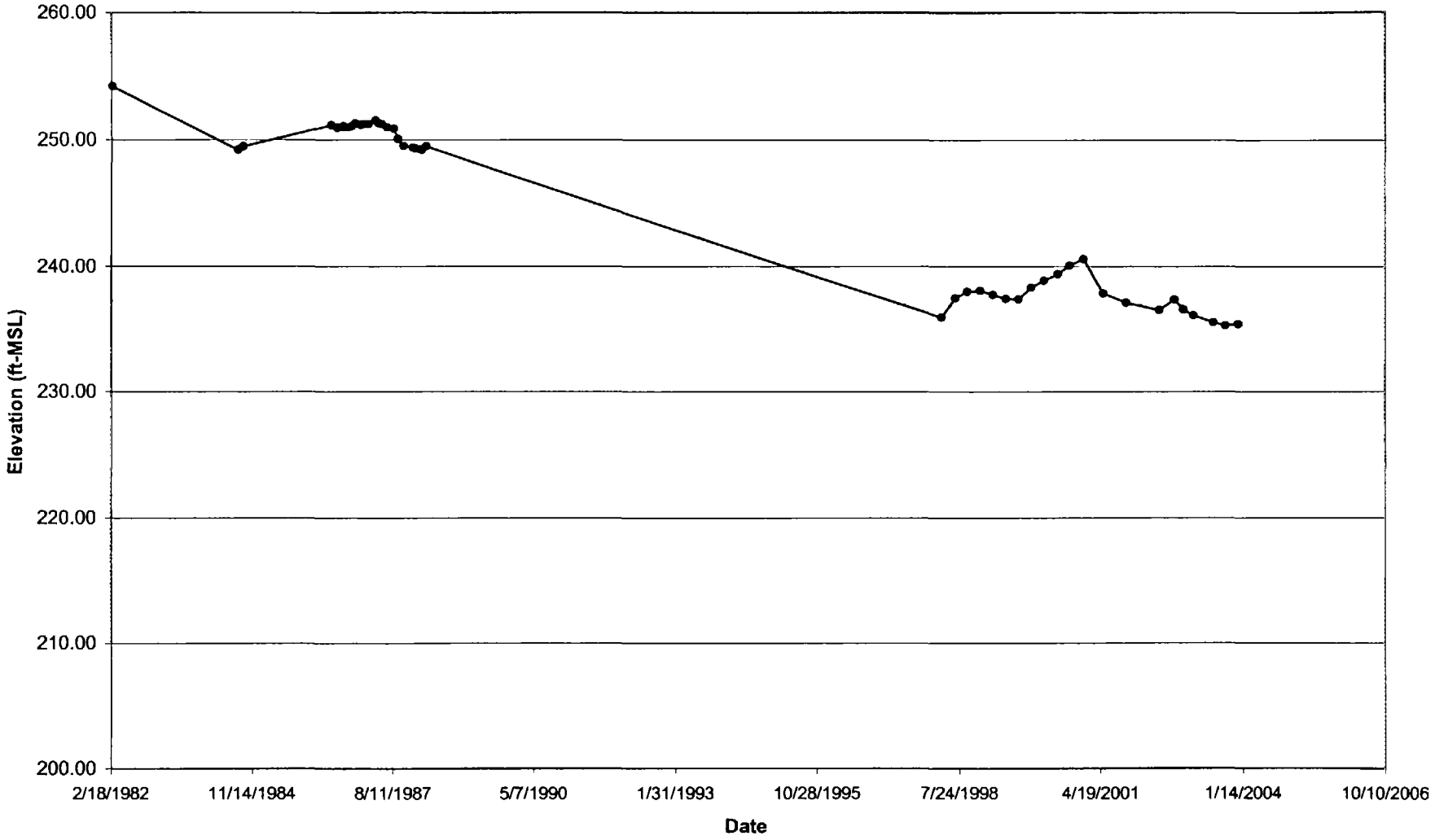
Groundwater Monitoring Report
Second Quarter 2006
Chevron
Purity Oil Sales Superfund Site
3281 South Maple Avenue
Malaga, California
24CH.67004.06
July 2006

Water Level Elevations
Well MW-2S

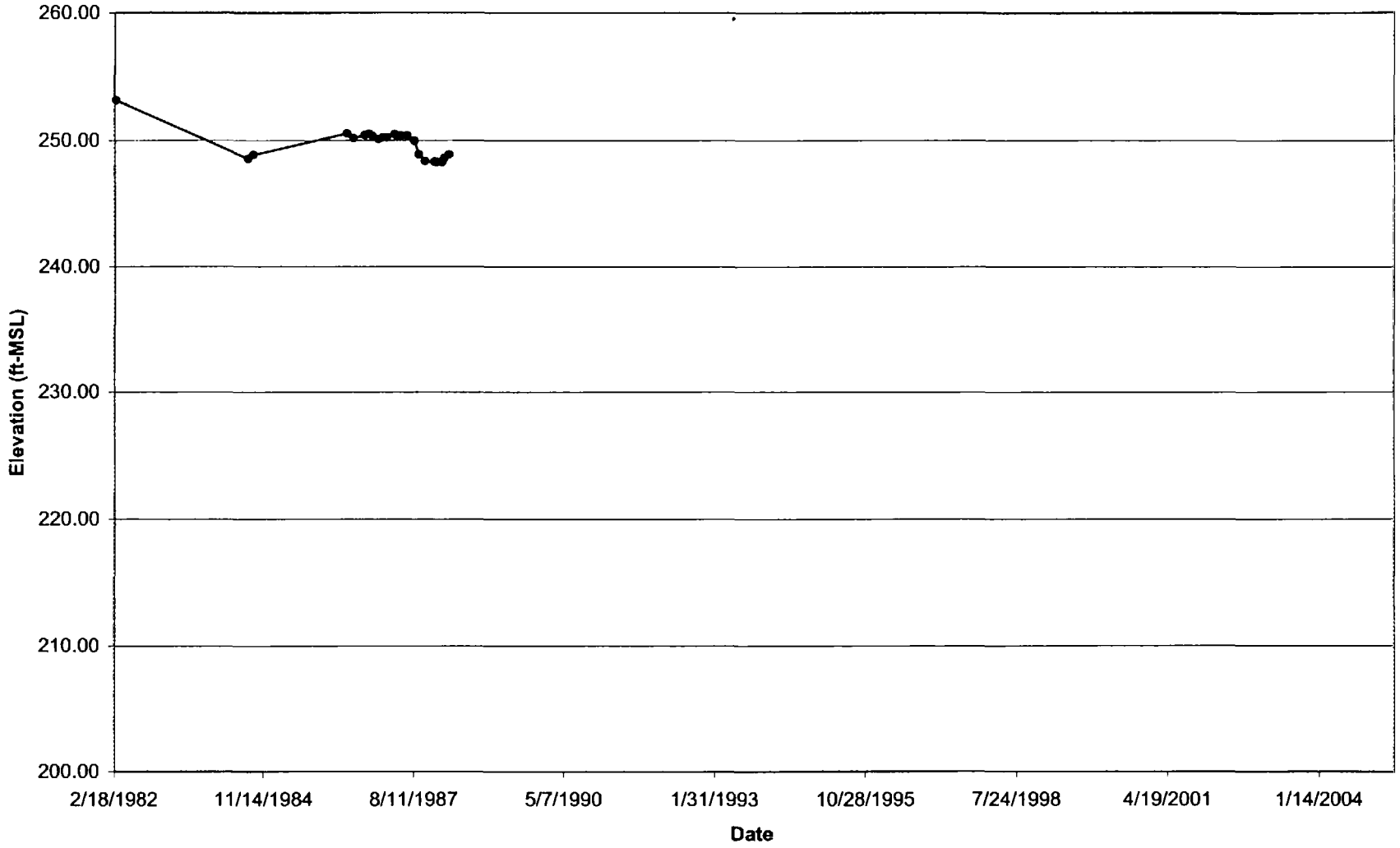




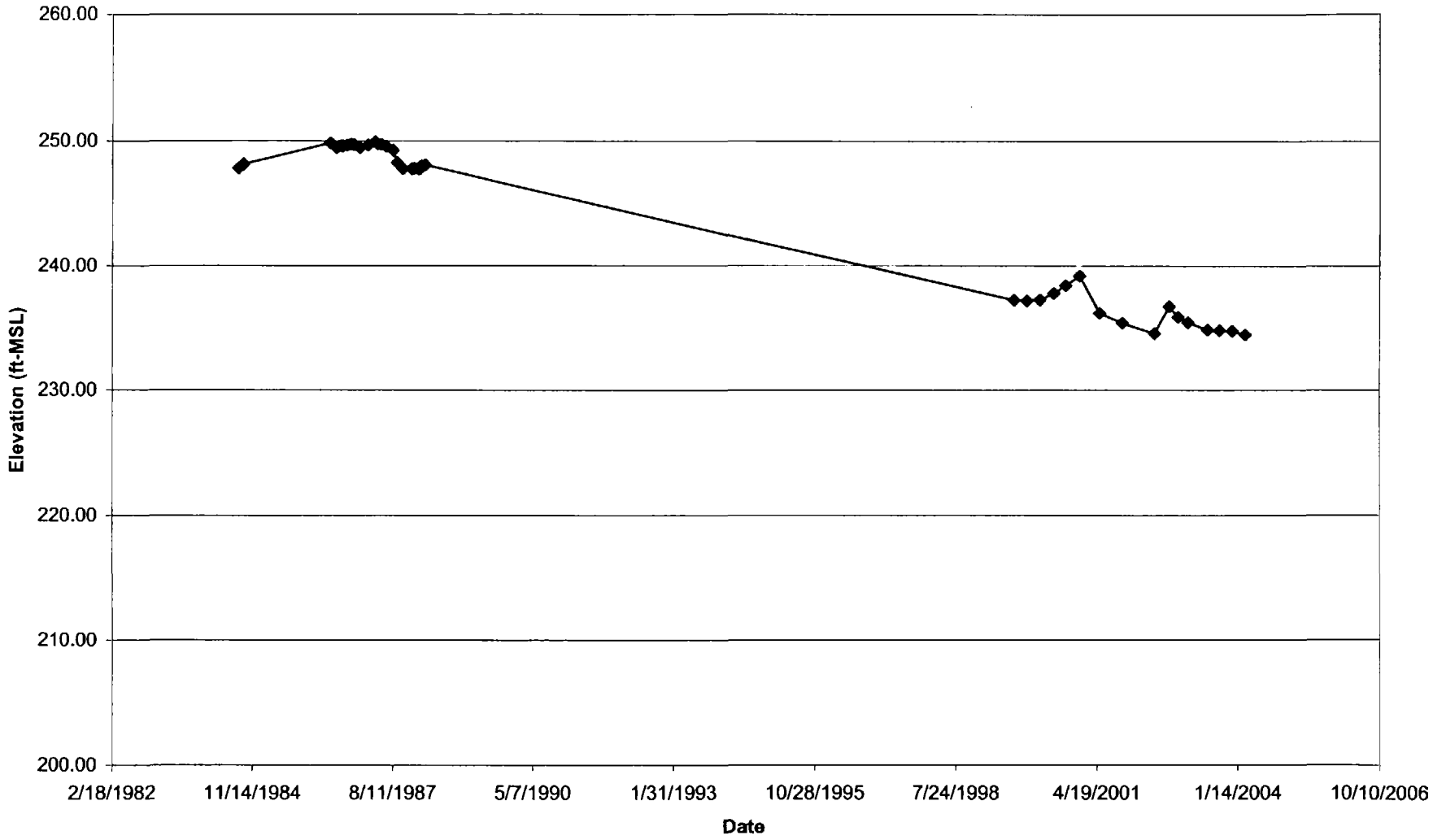
Water Level Elevations
Well MW-3



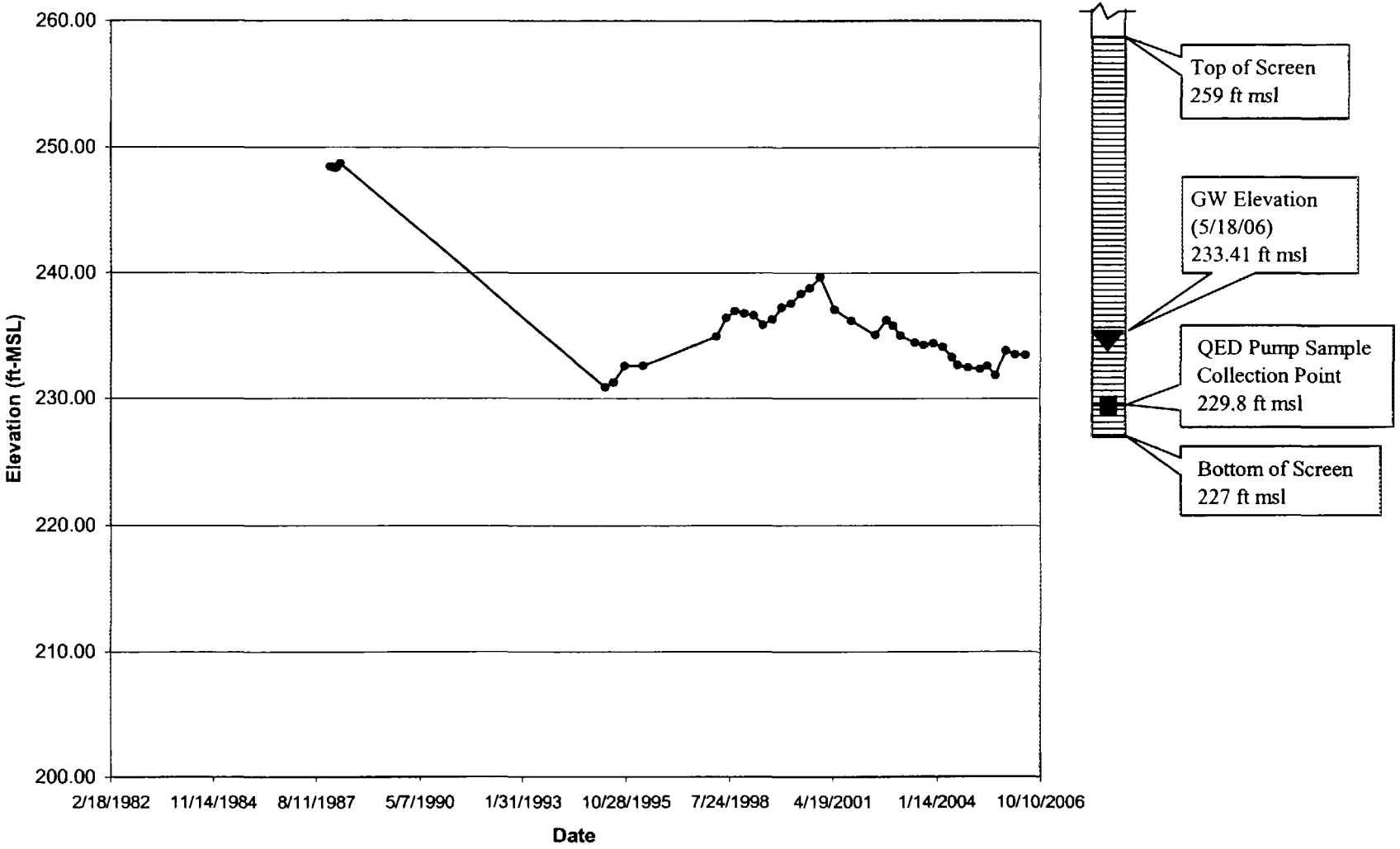
Water Level Elevations
Well MW-4



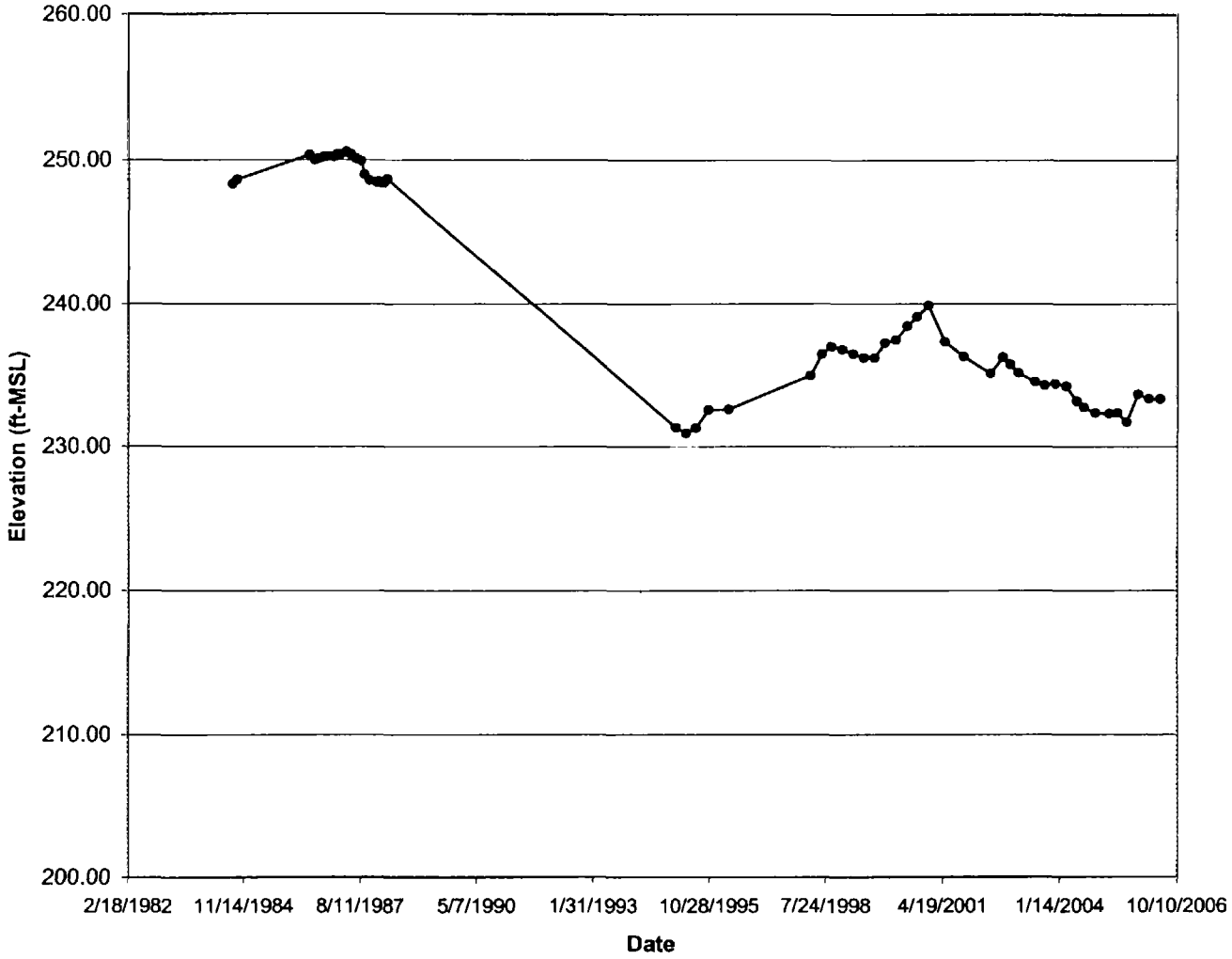
Water Level Elevations
Well MW-5S

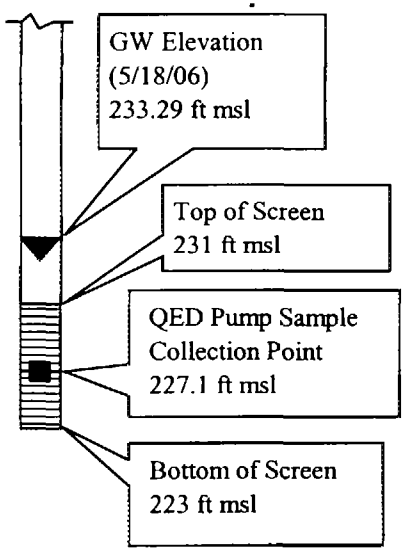


Water Level Elevations
Well MW-6S

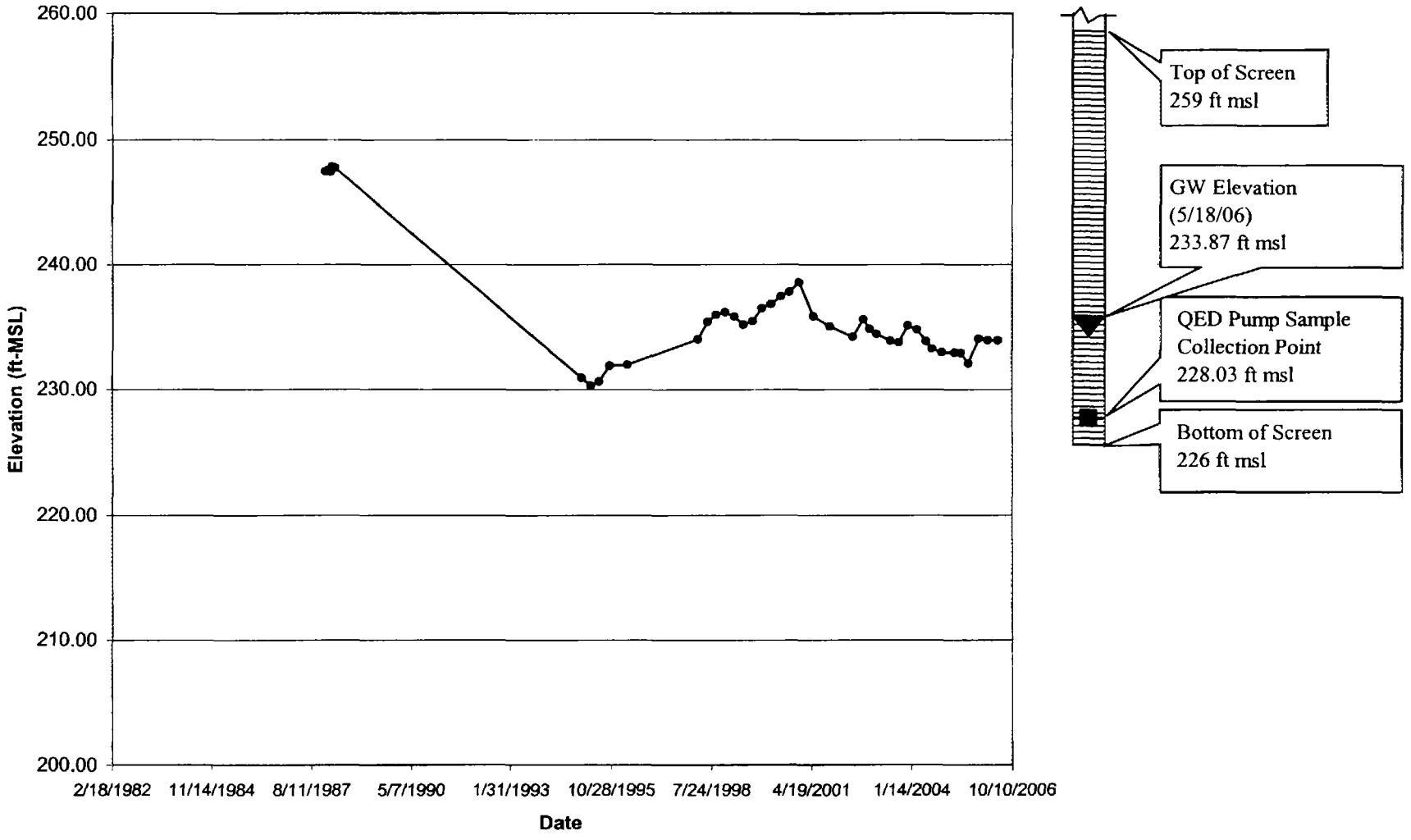


Water Level Elevations
Well MW-7S

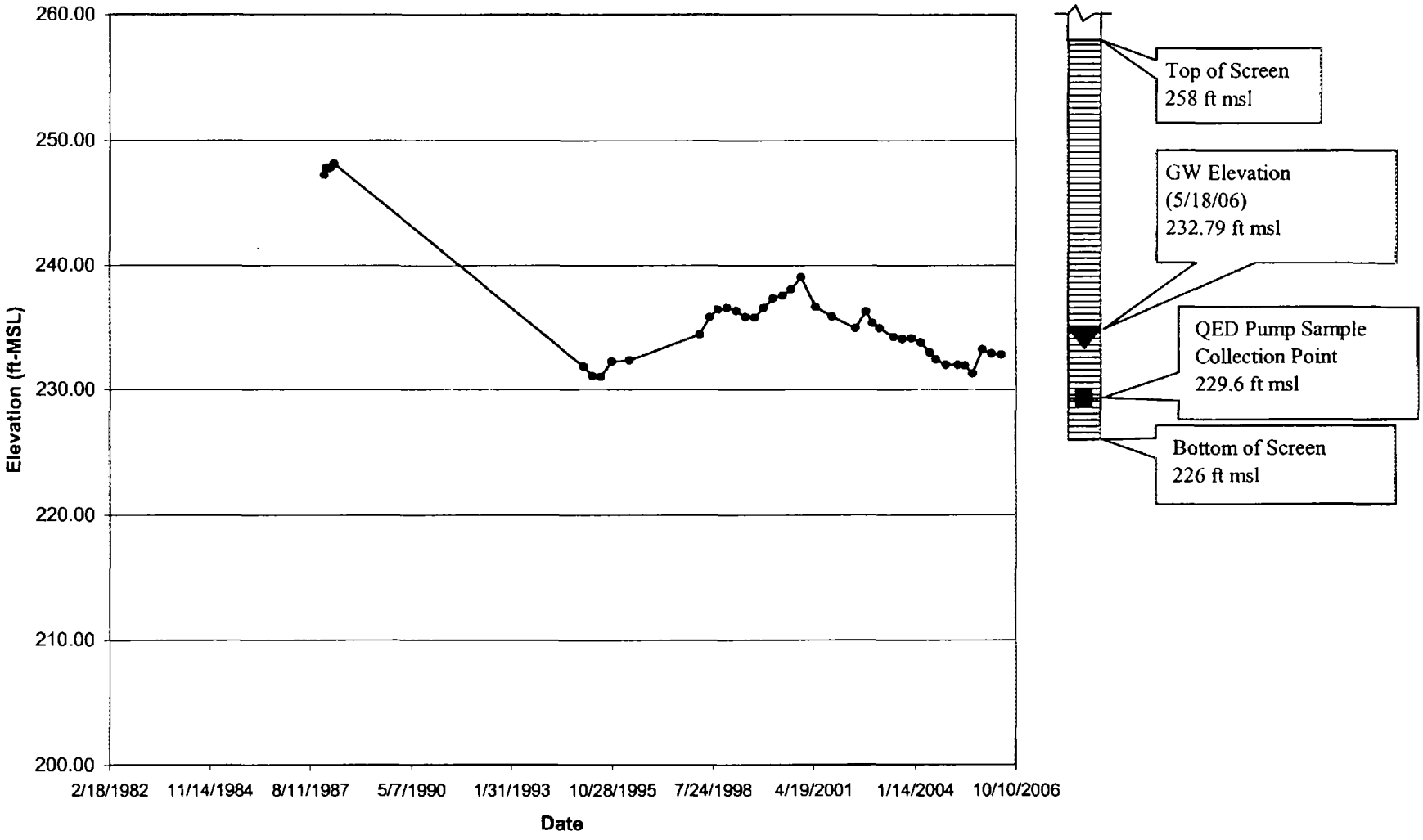




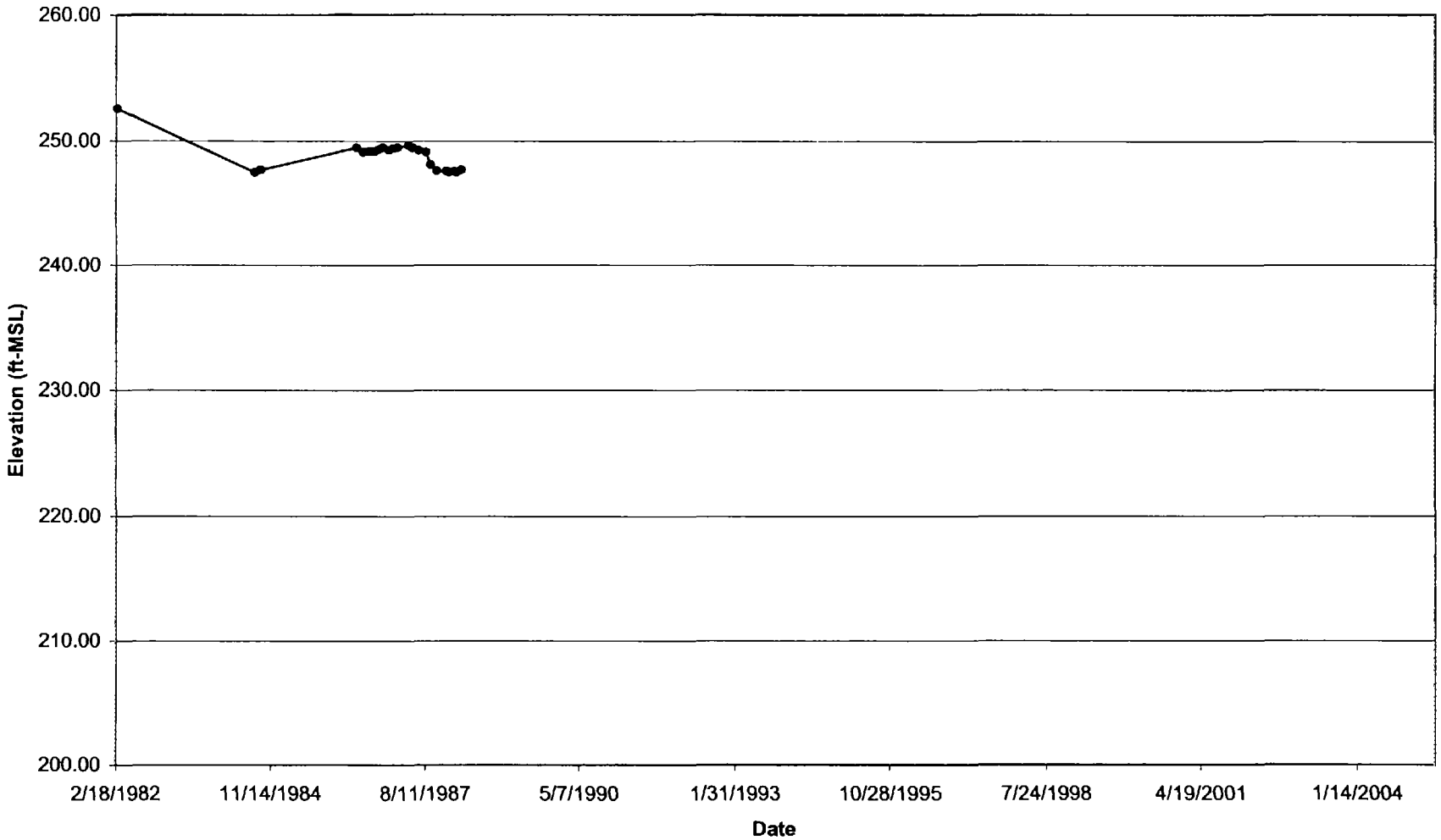
Water Level Elevations
Well MW-8



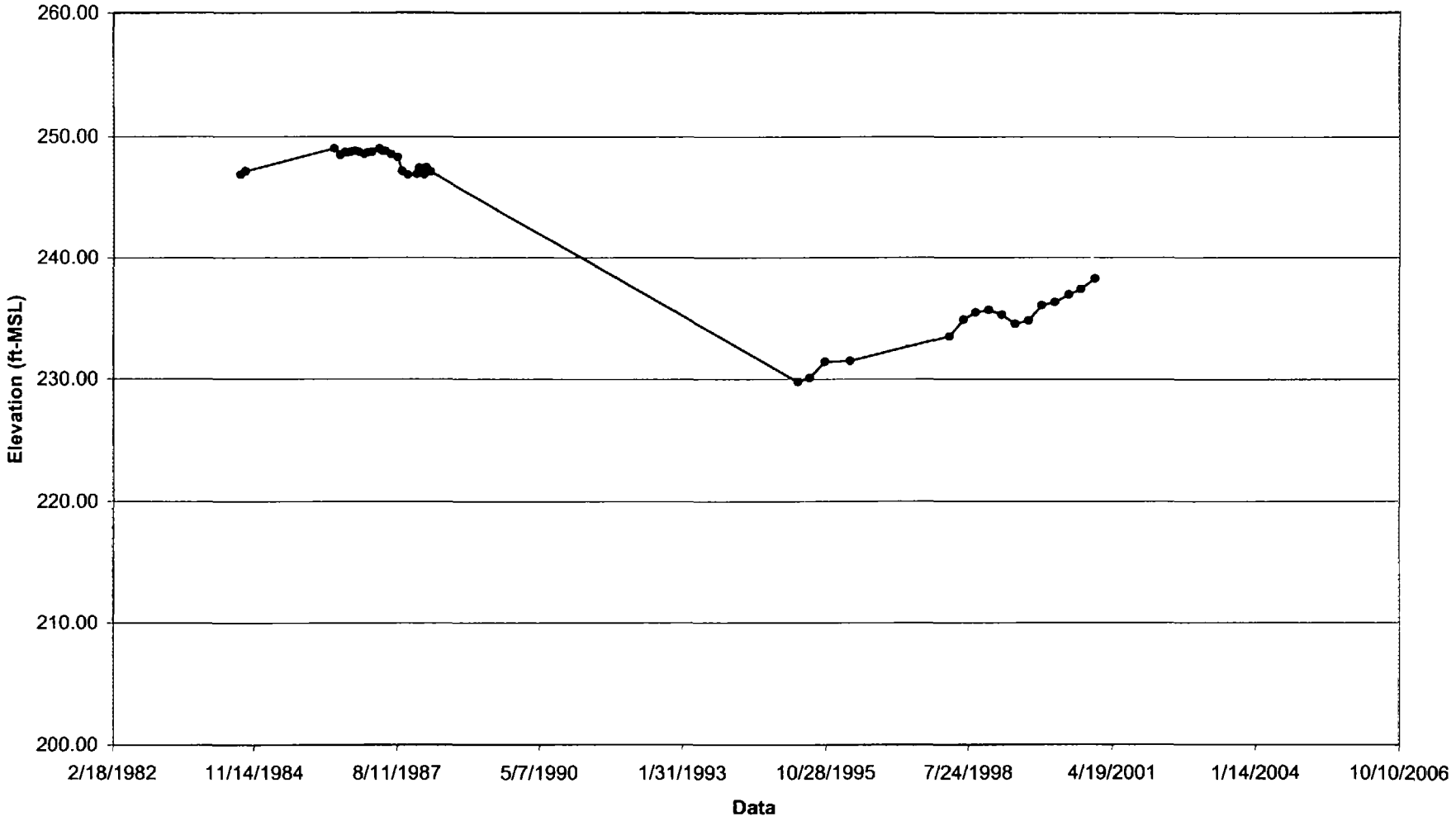
Water Level Elevations
Well MW-10



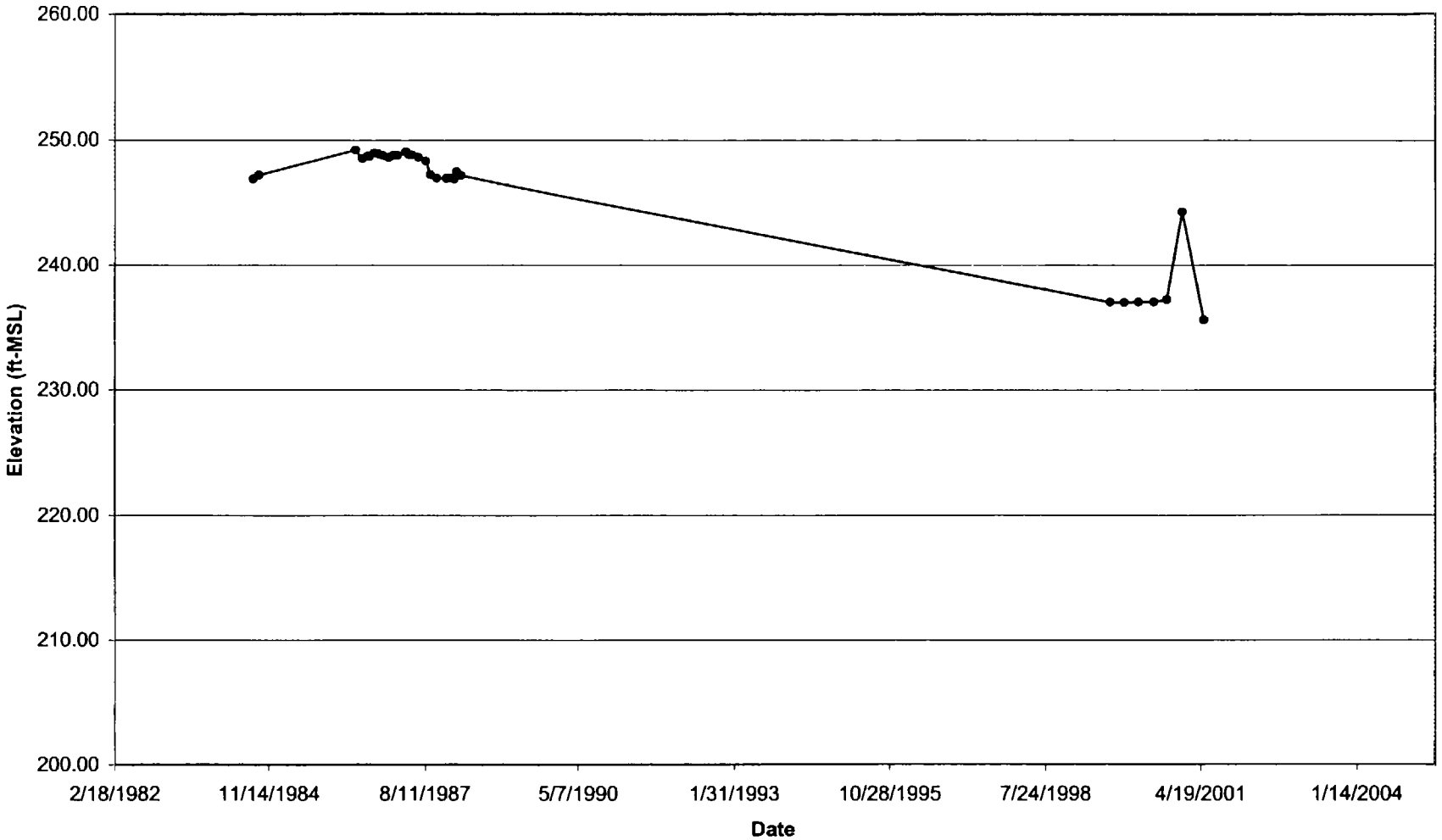
Water Level Elevations
Well MW-12
Destroyed December 2005



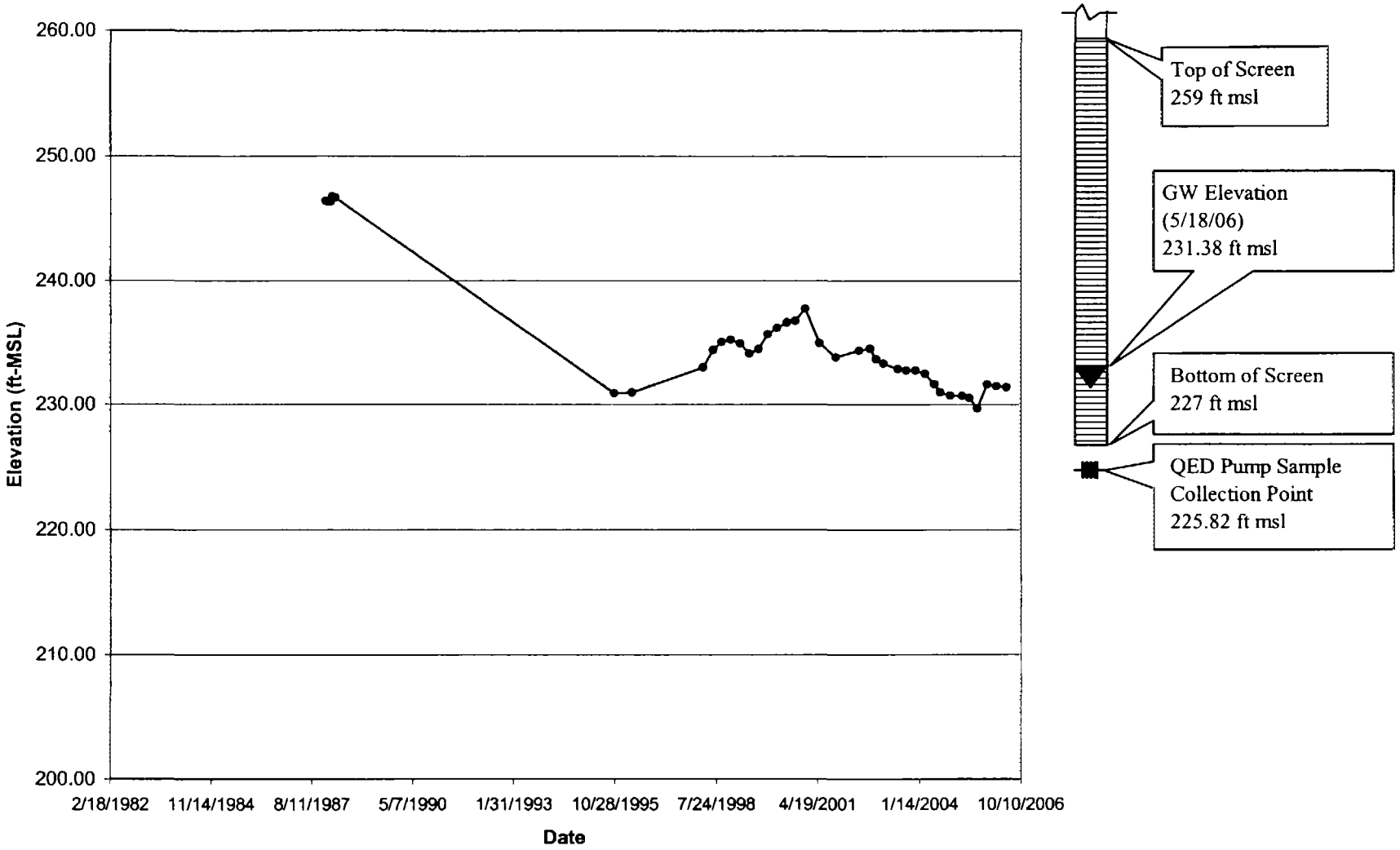
Water Level Elevations
Well MW-14D
Destroyed December 2005



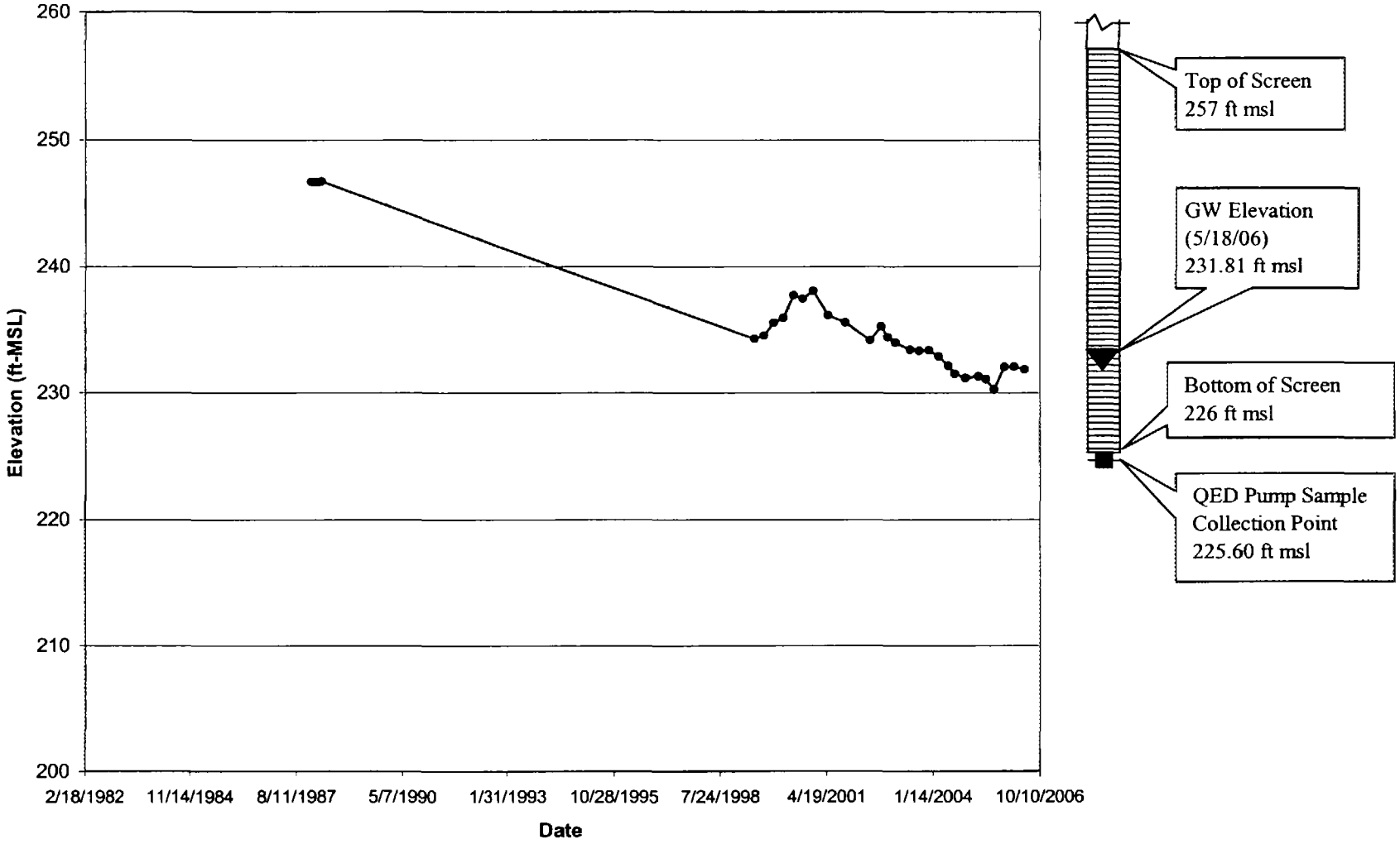
Water Level Elevations
MW-14S
Destroyed December 2005



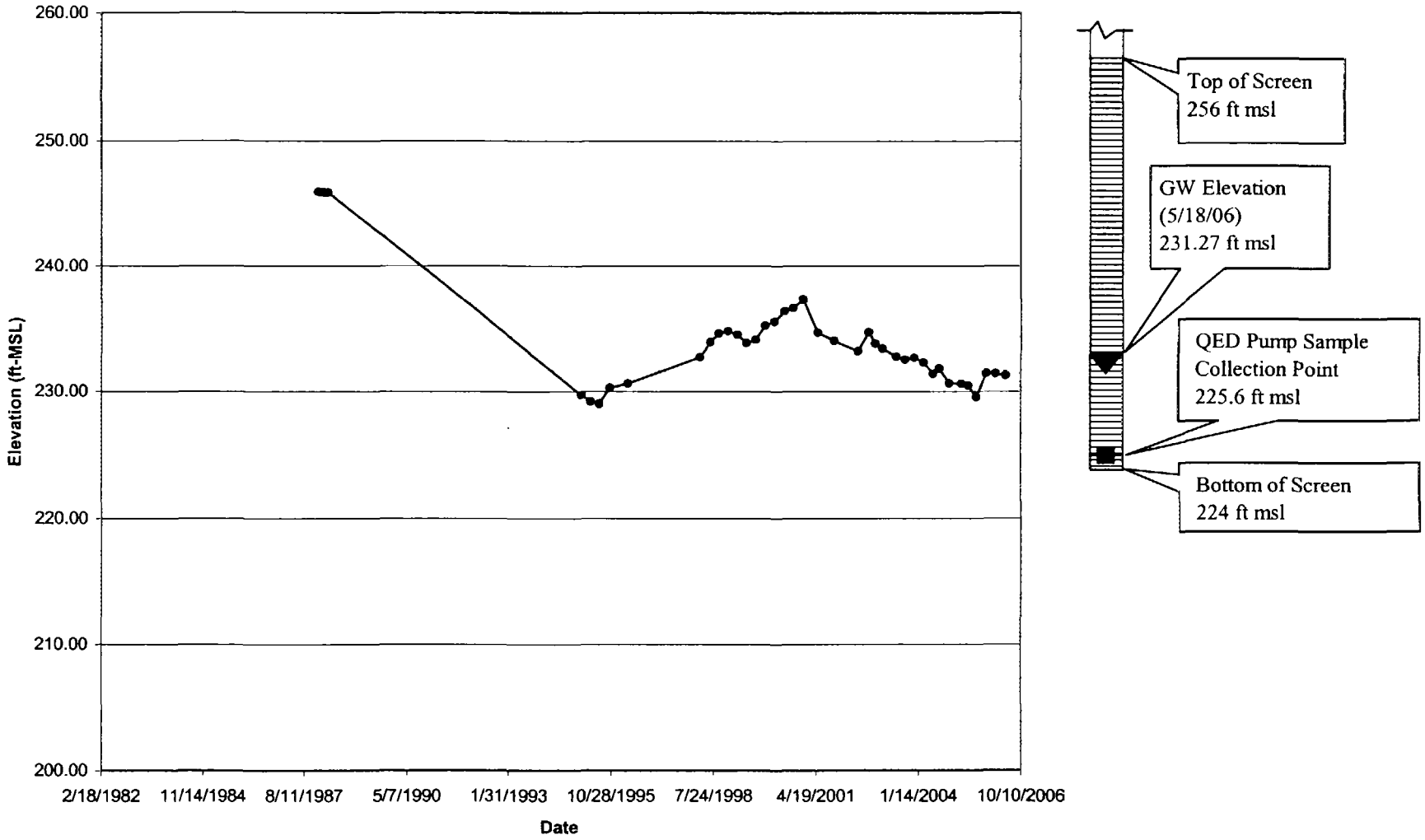
Water Level Elevations
Well MW-16



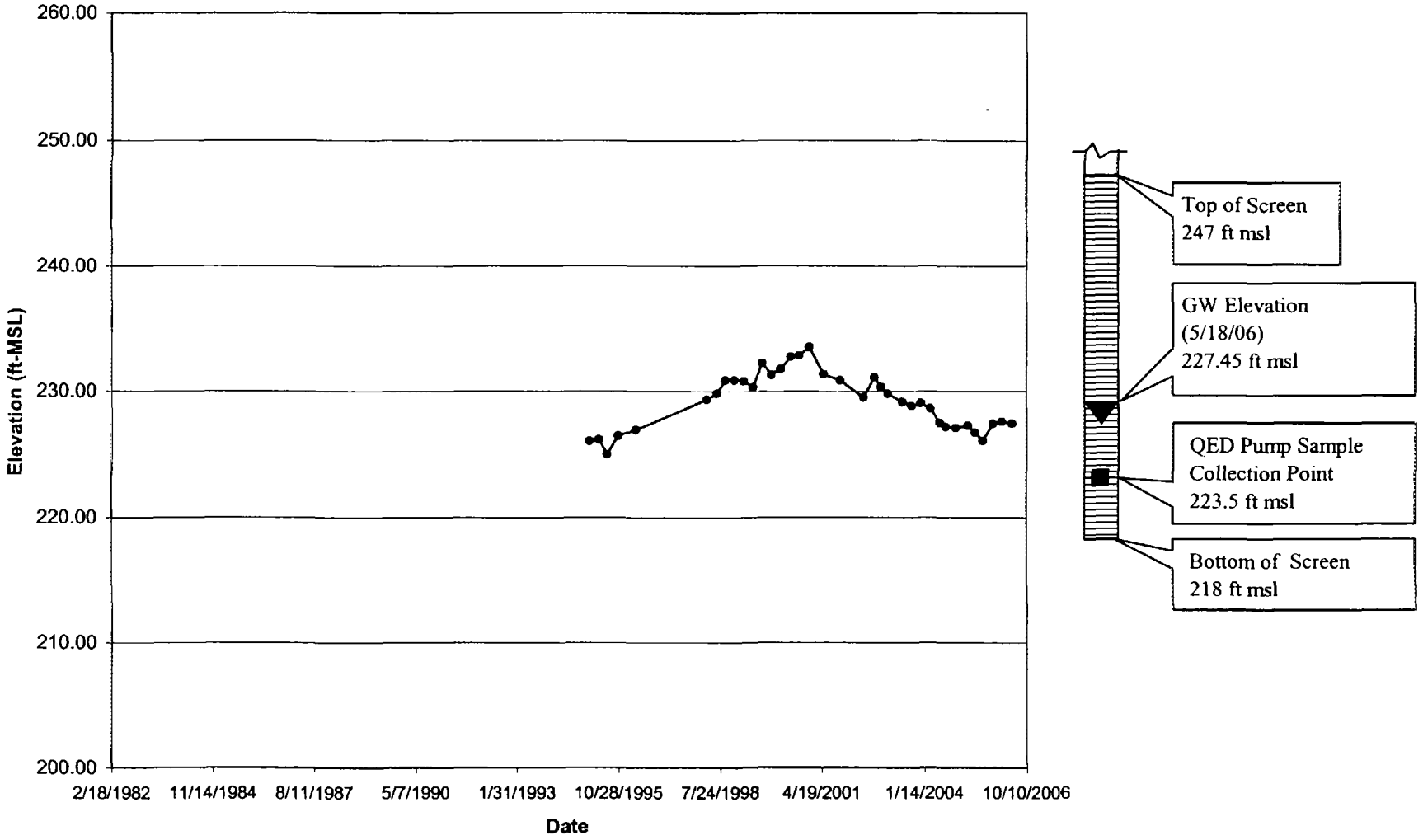
Water Level Elevations
Well MW-19



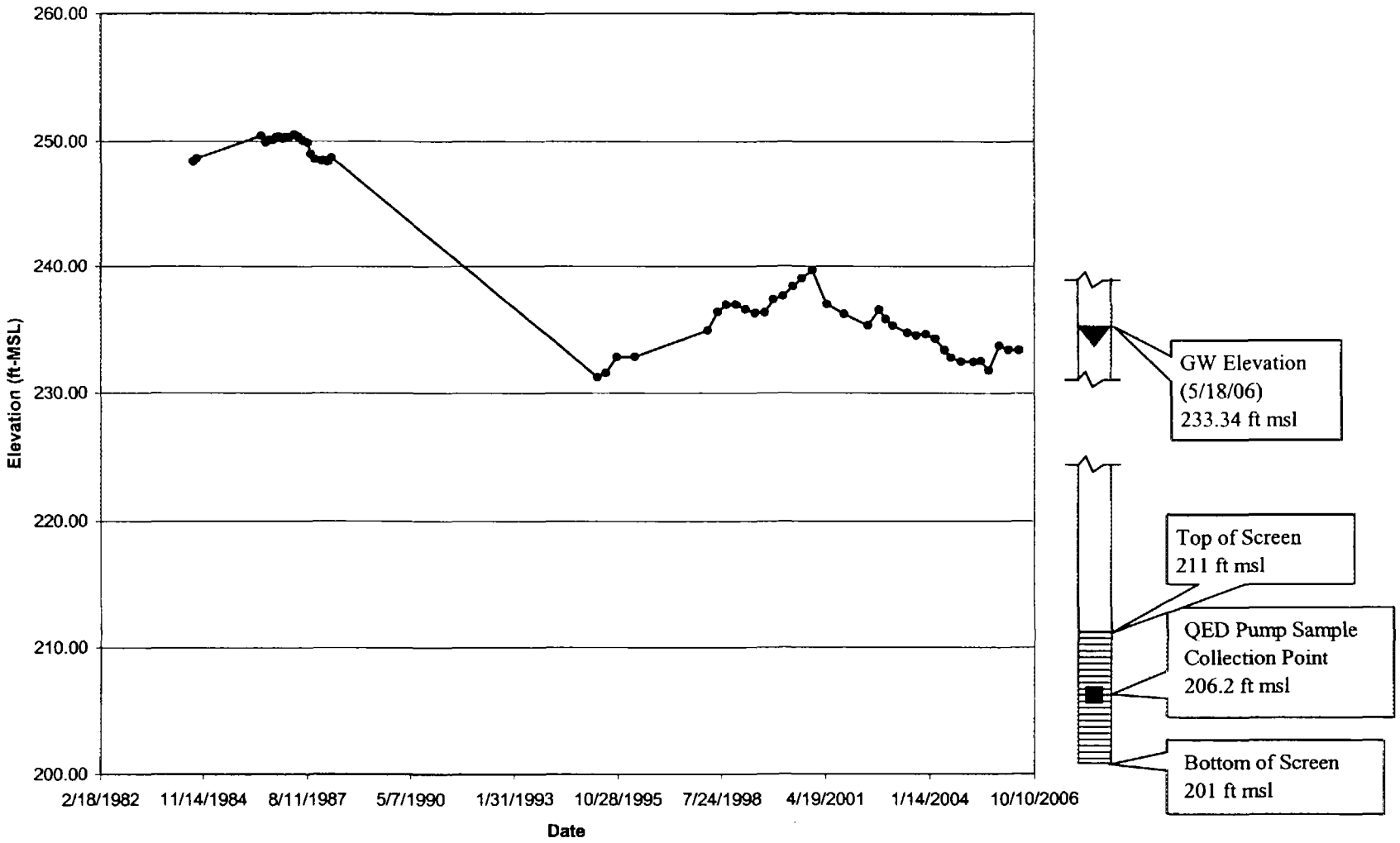
Water Level Elevations
Well MW-25



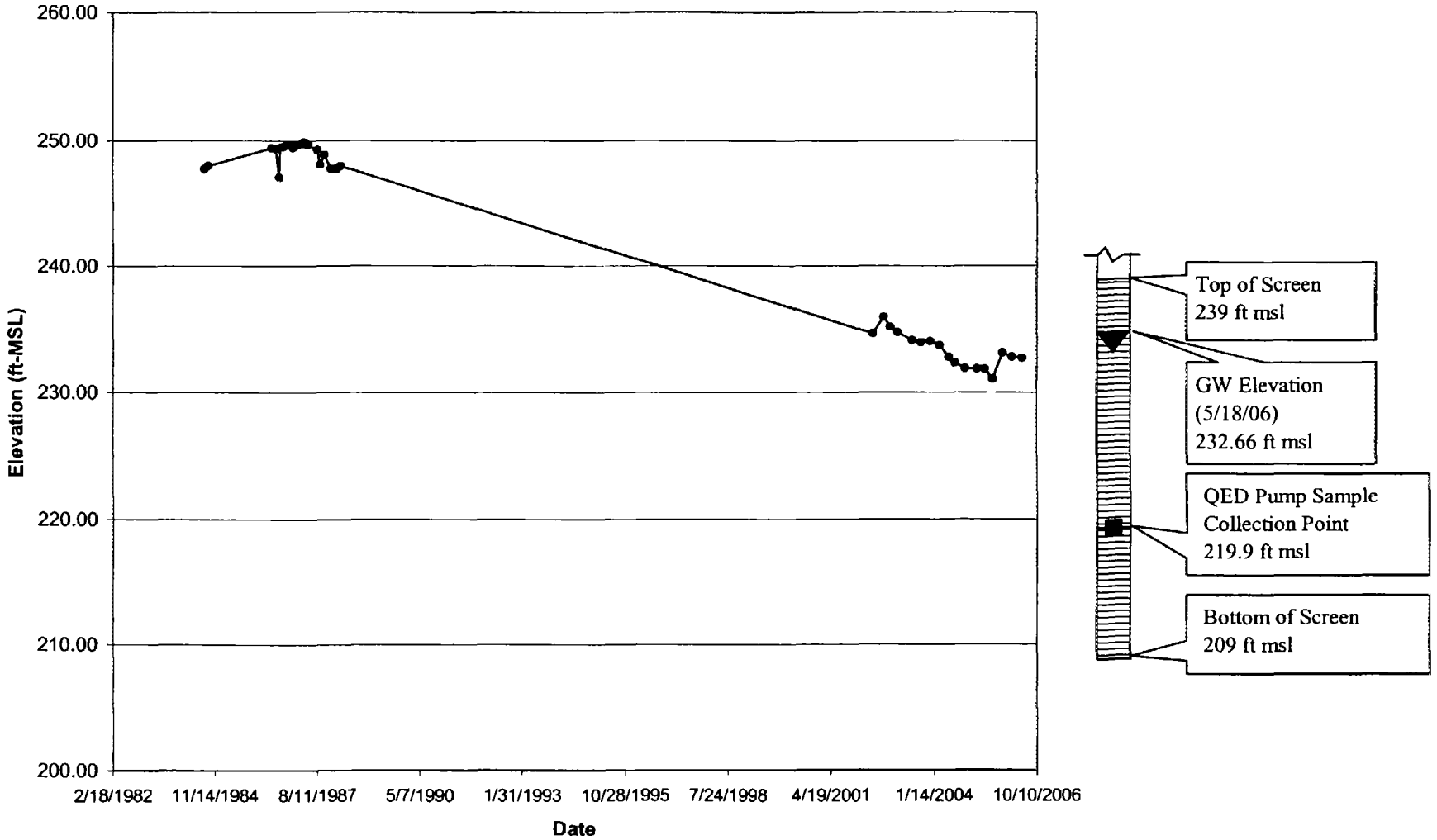
Water Level Elevations
Well MW-34S



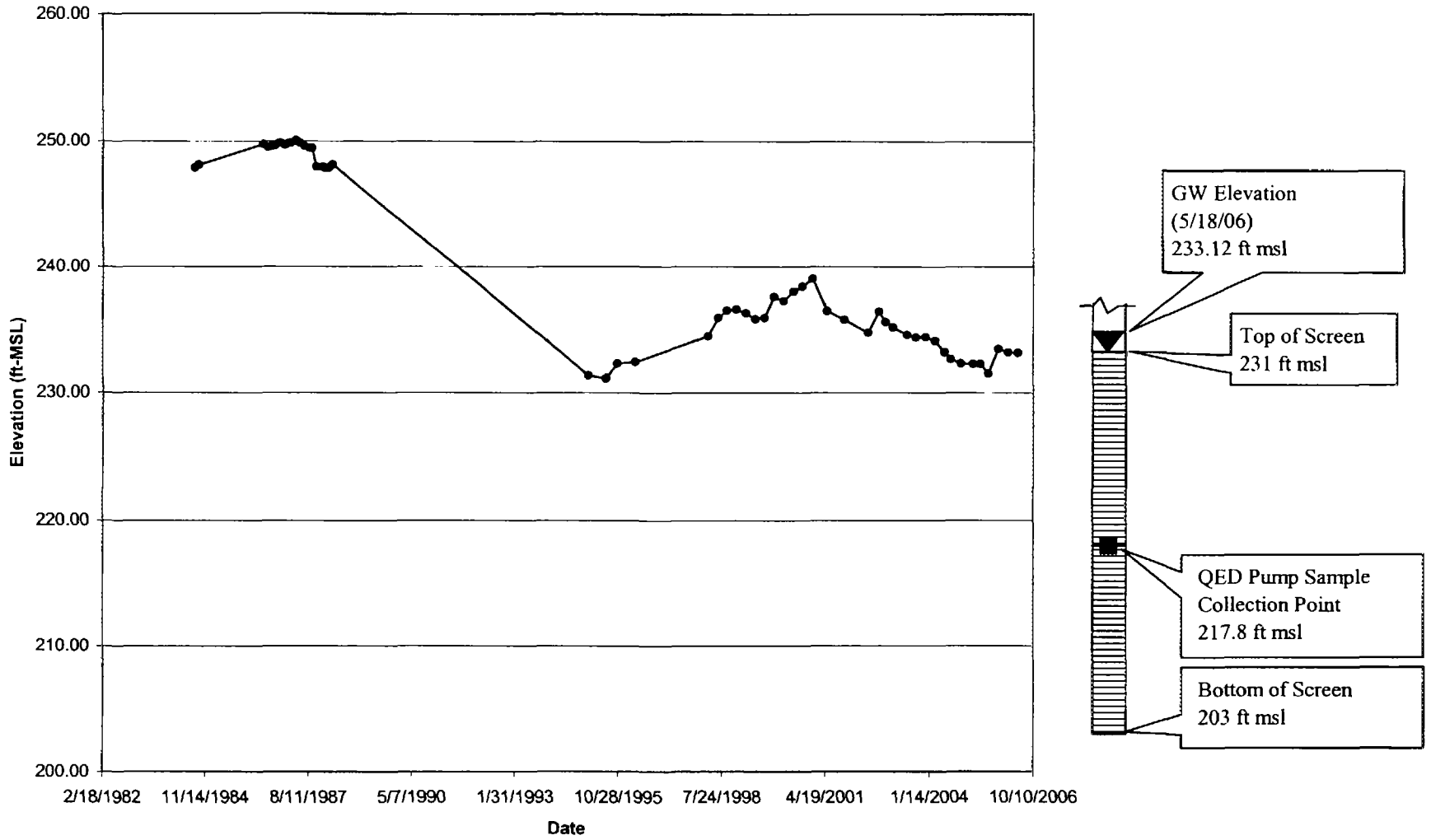
Water Level Elevations
Well MW-7I



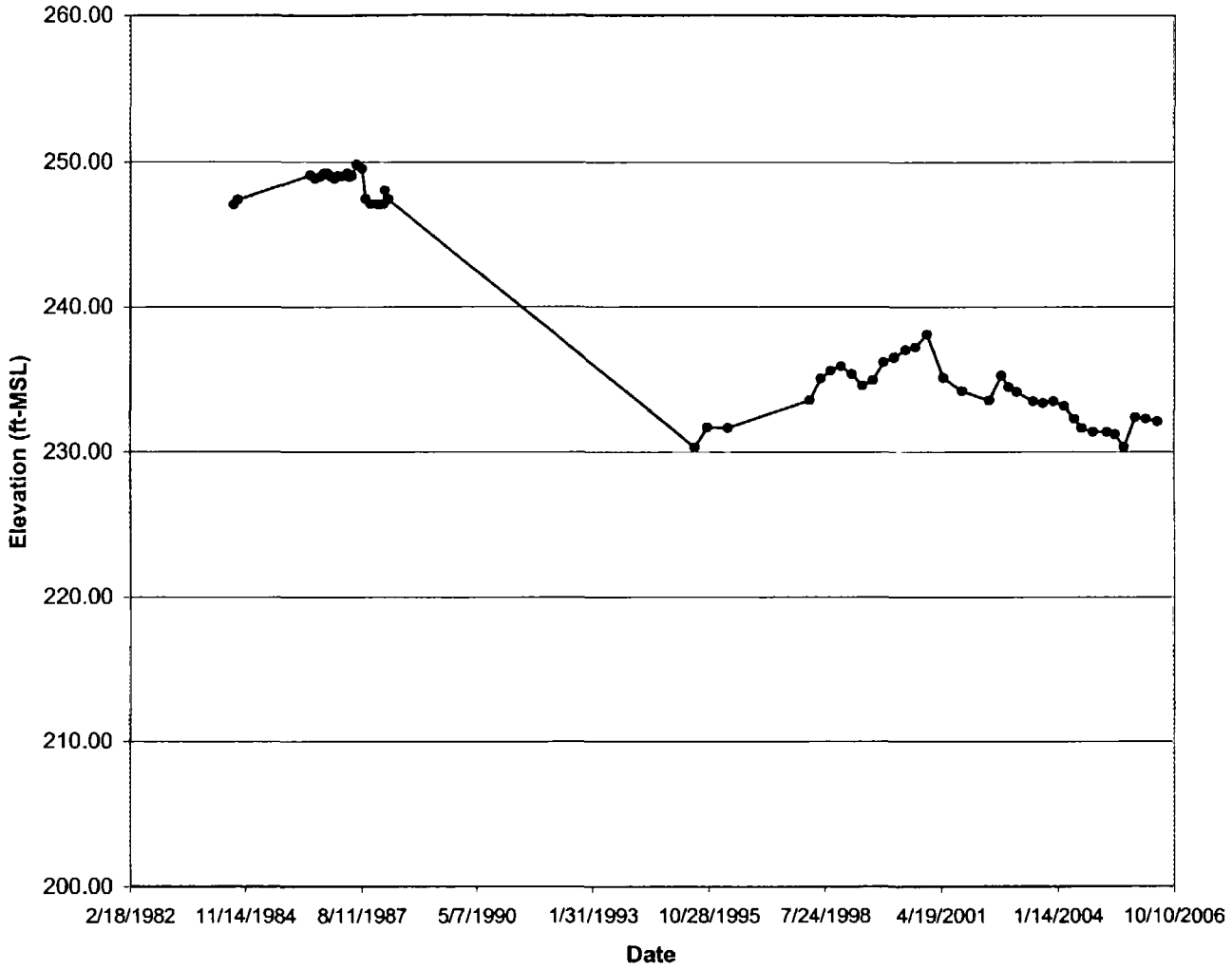
Water Level Elevations
Well MW-9

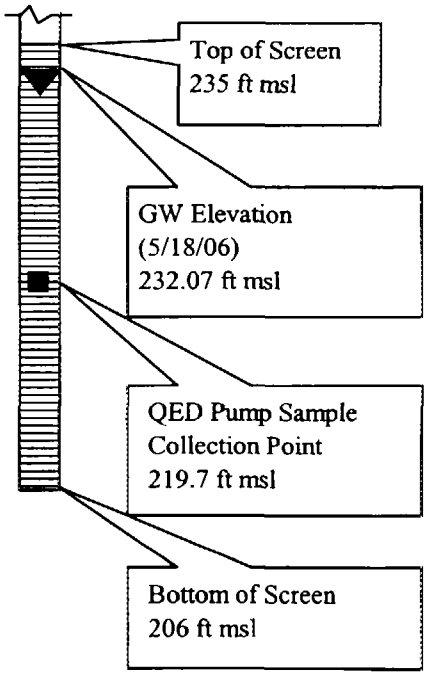


Water Level Elevations
Well MW-11

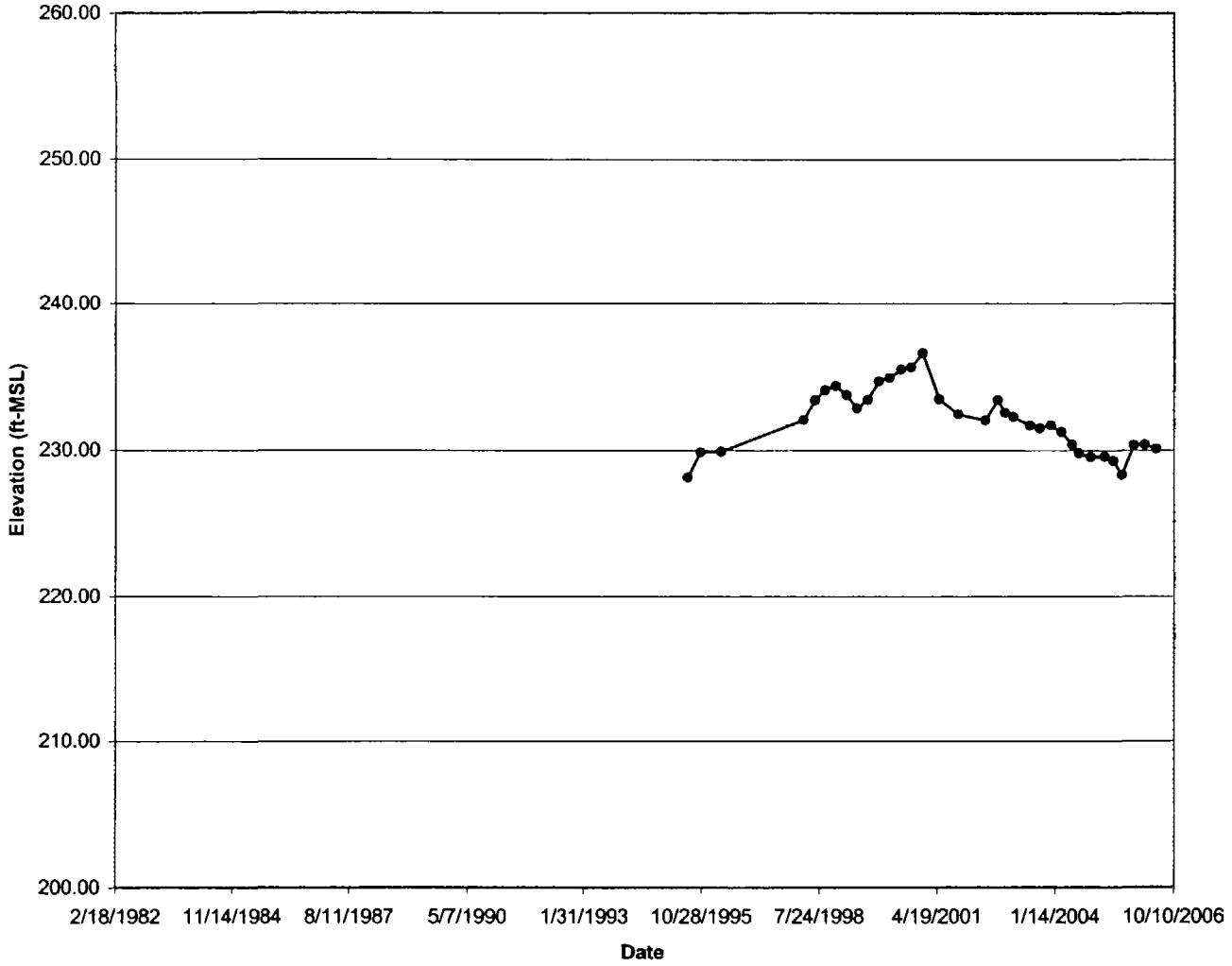


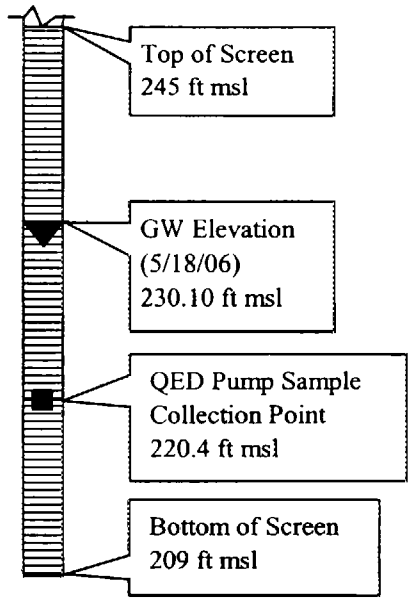
Water Elevations
Well MW-13



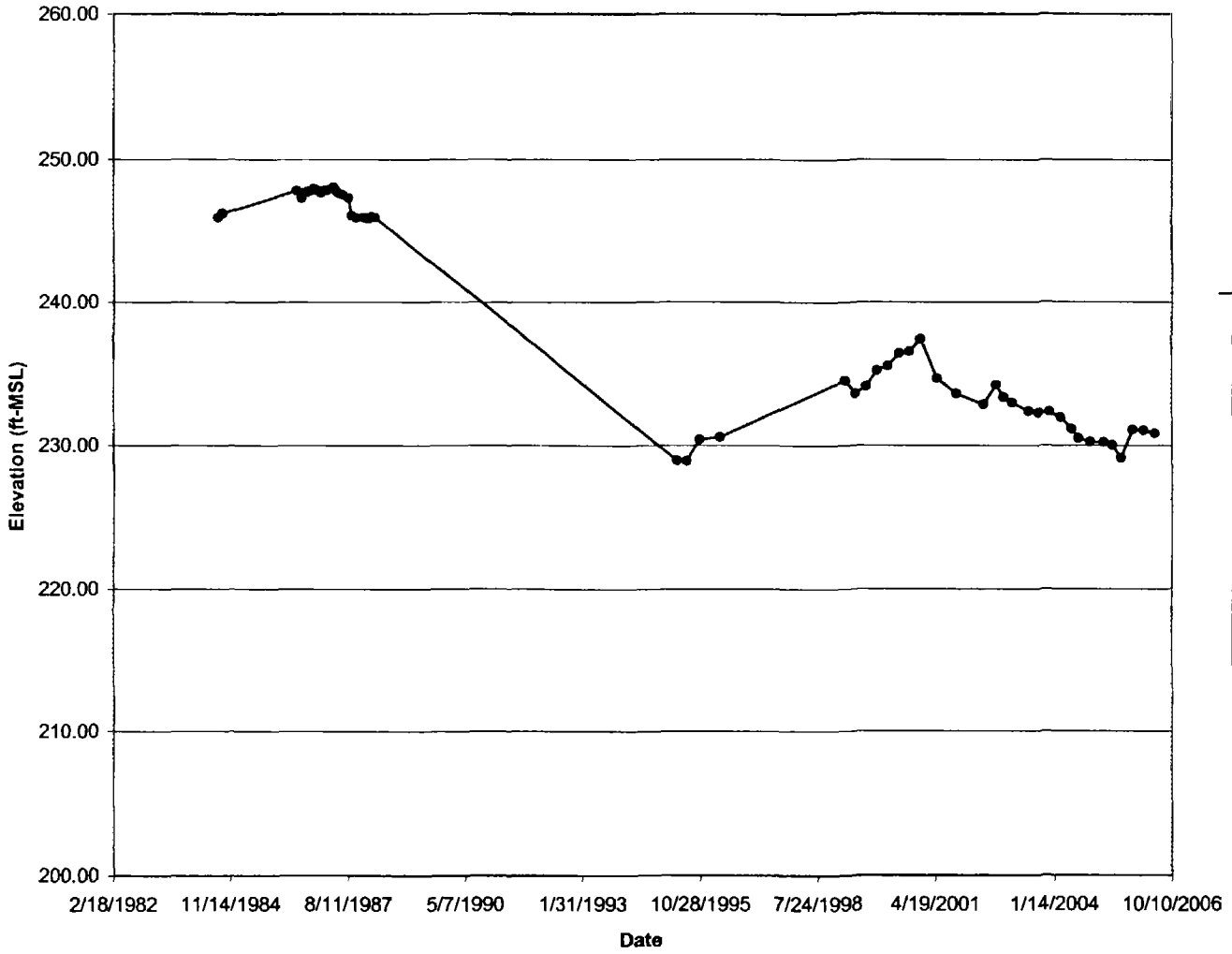


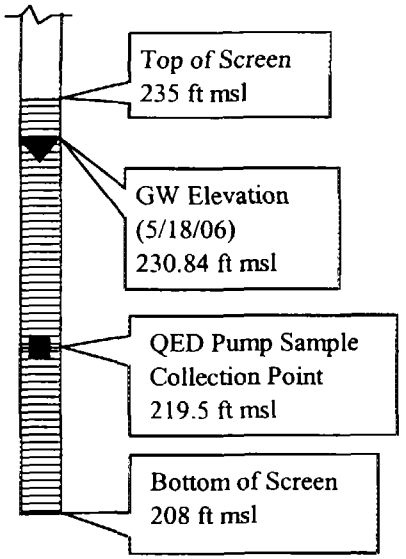
Water Level Elevations
Well MW-20



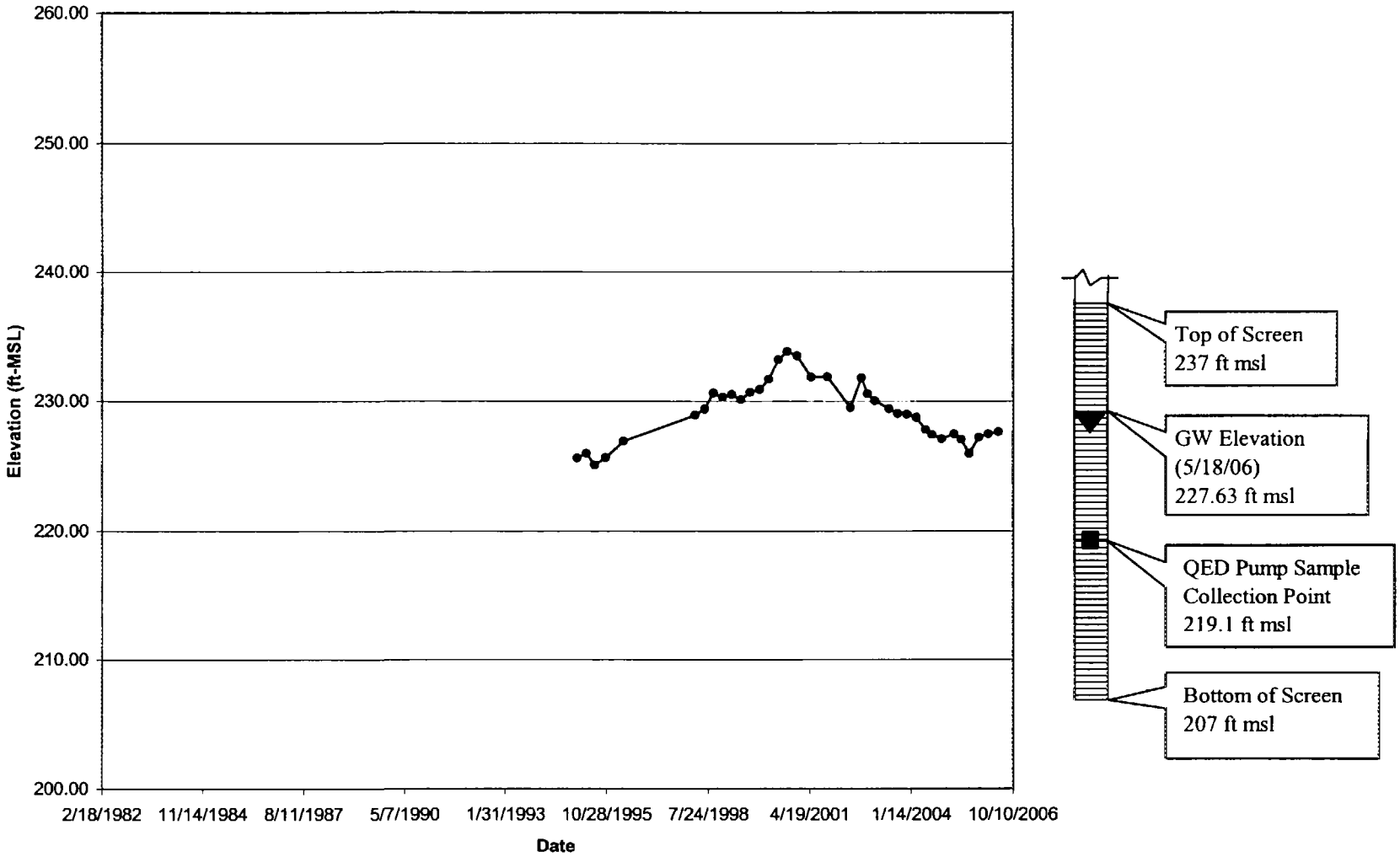


Water Level Elevations
Well MW-21

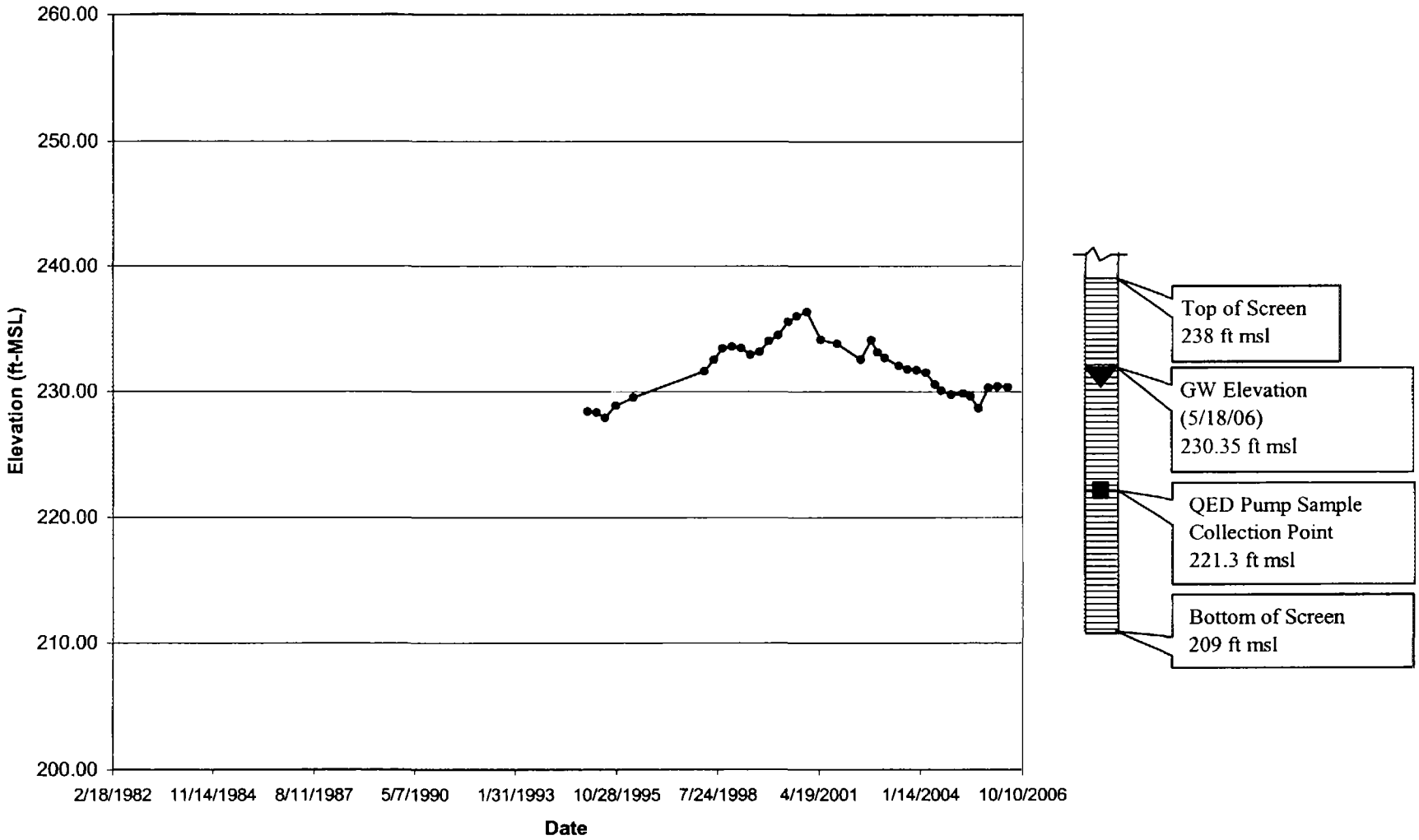




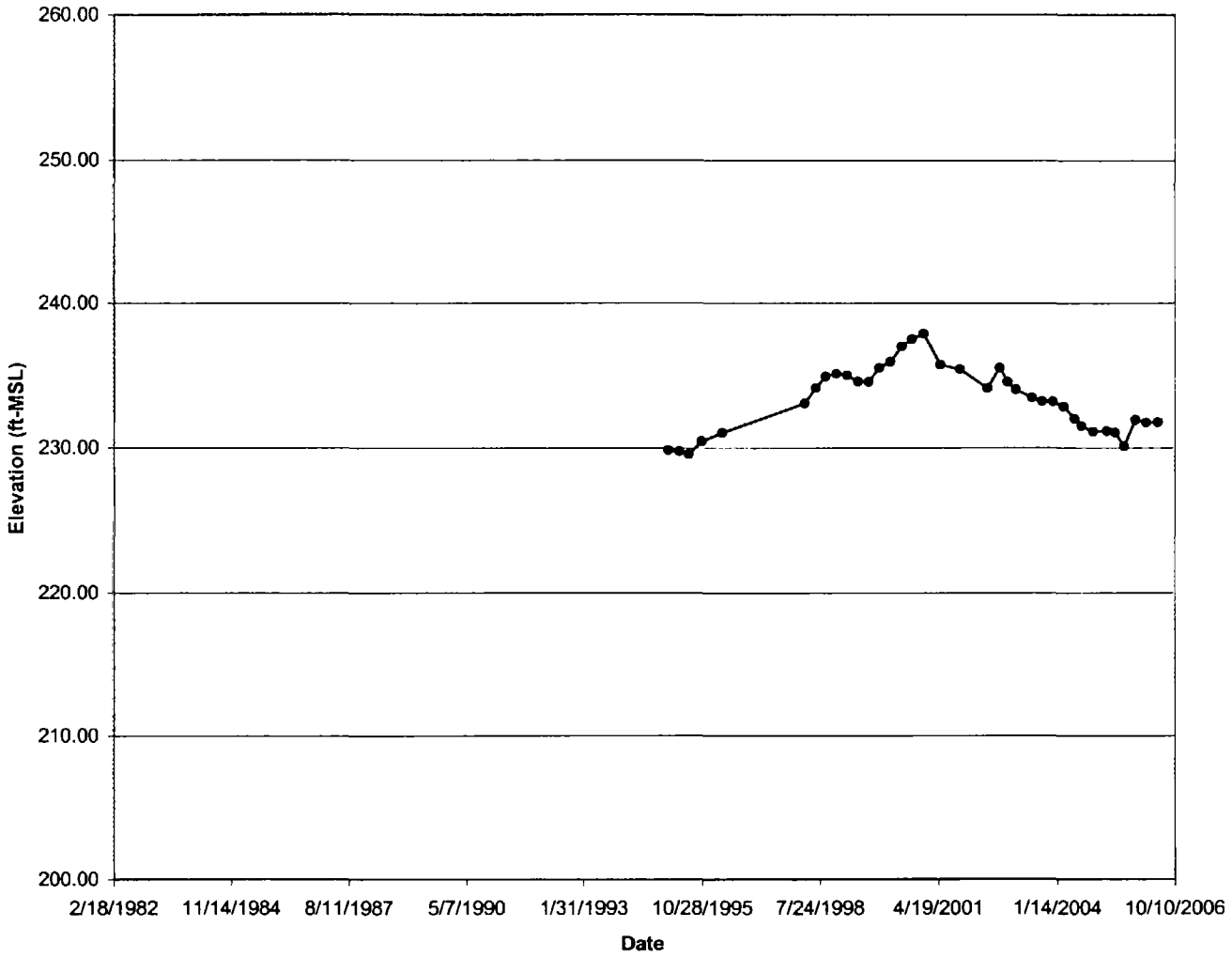
Water Level Elevations
Well MW-38

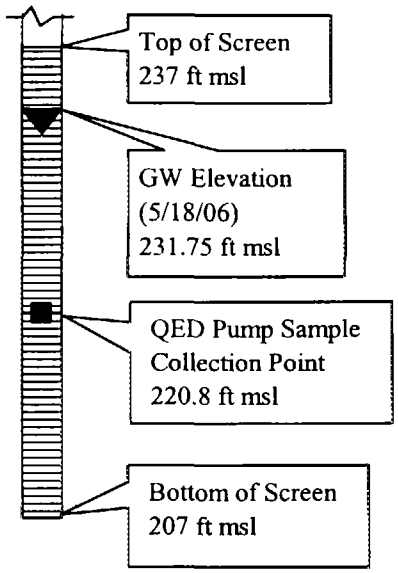


Water Level Elevations
Well MW-39

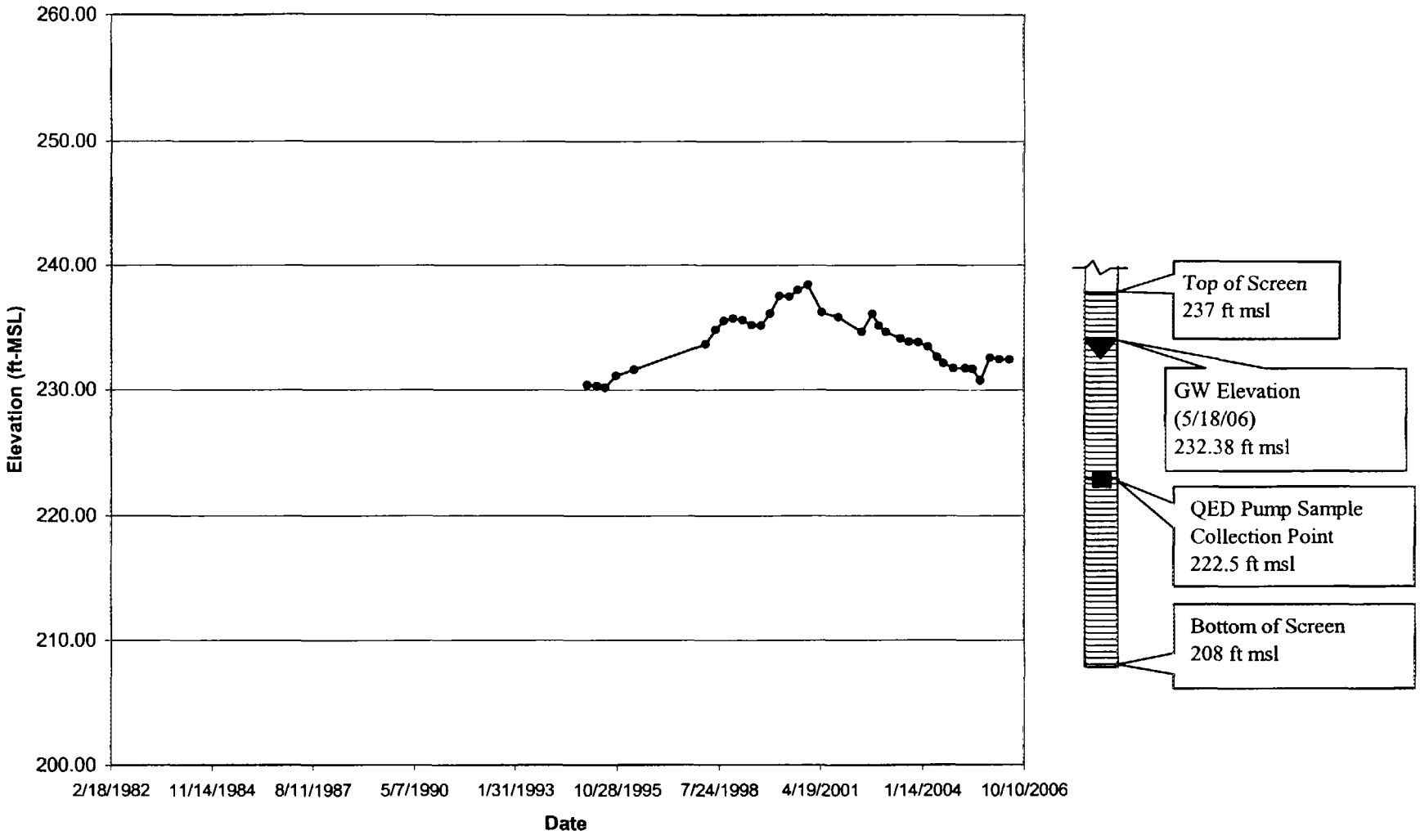


Water Level Elevations
Well MW-40

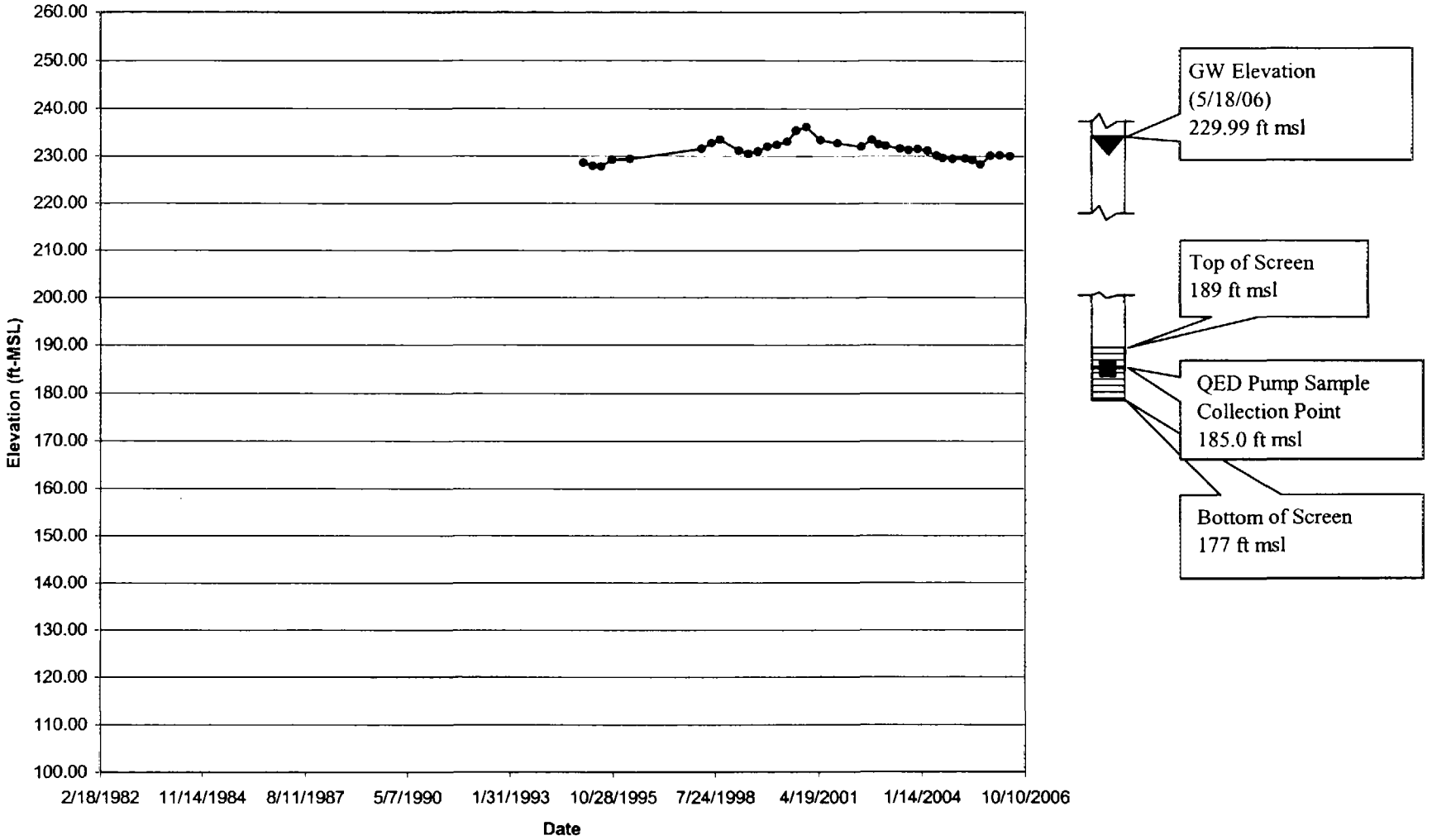




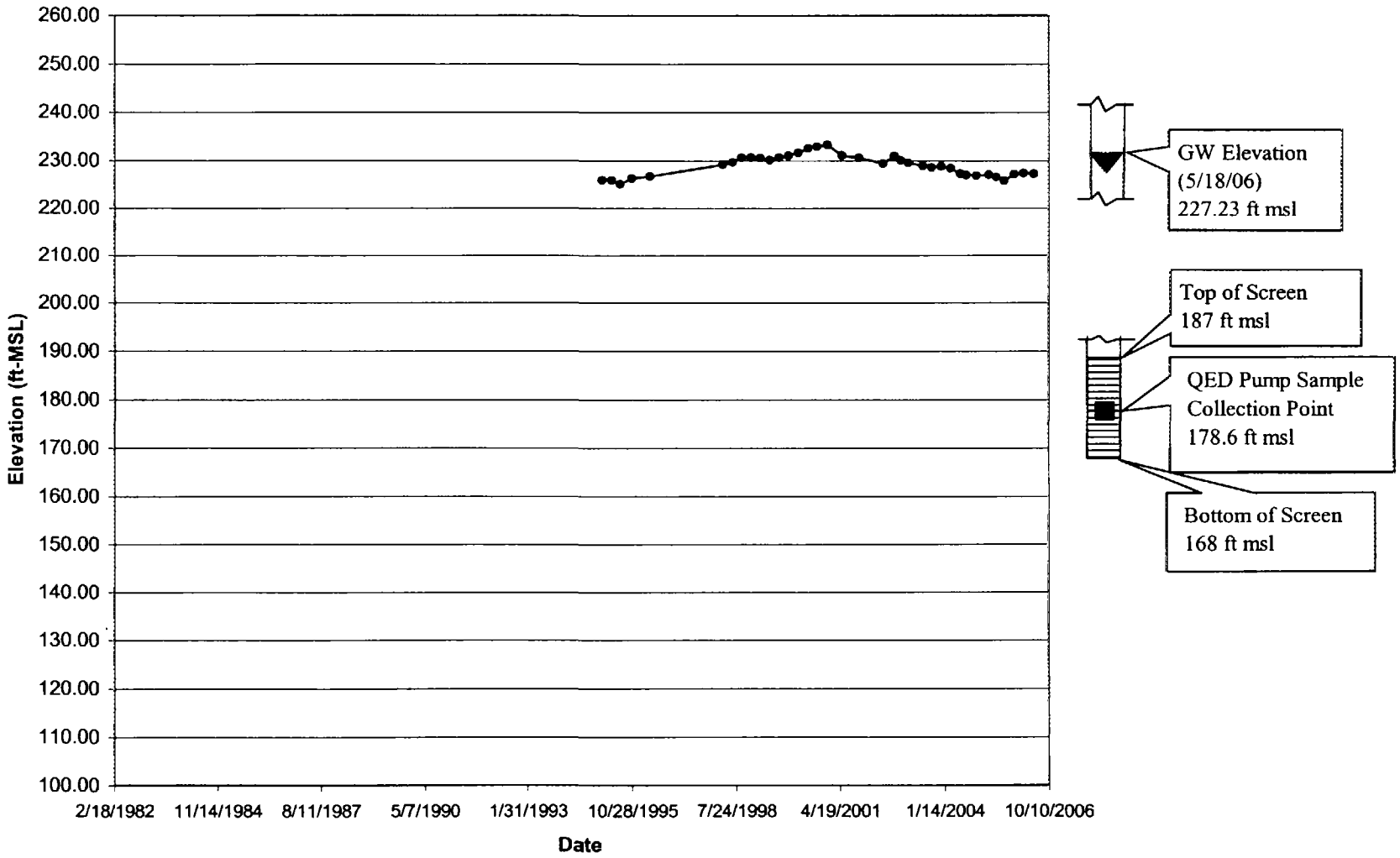
Water Level Elevations
Well MW-41



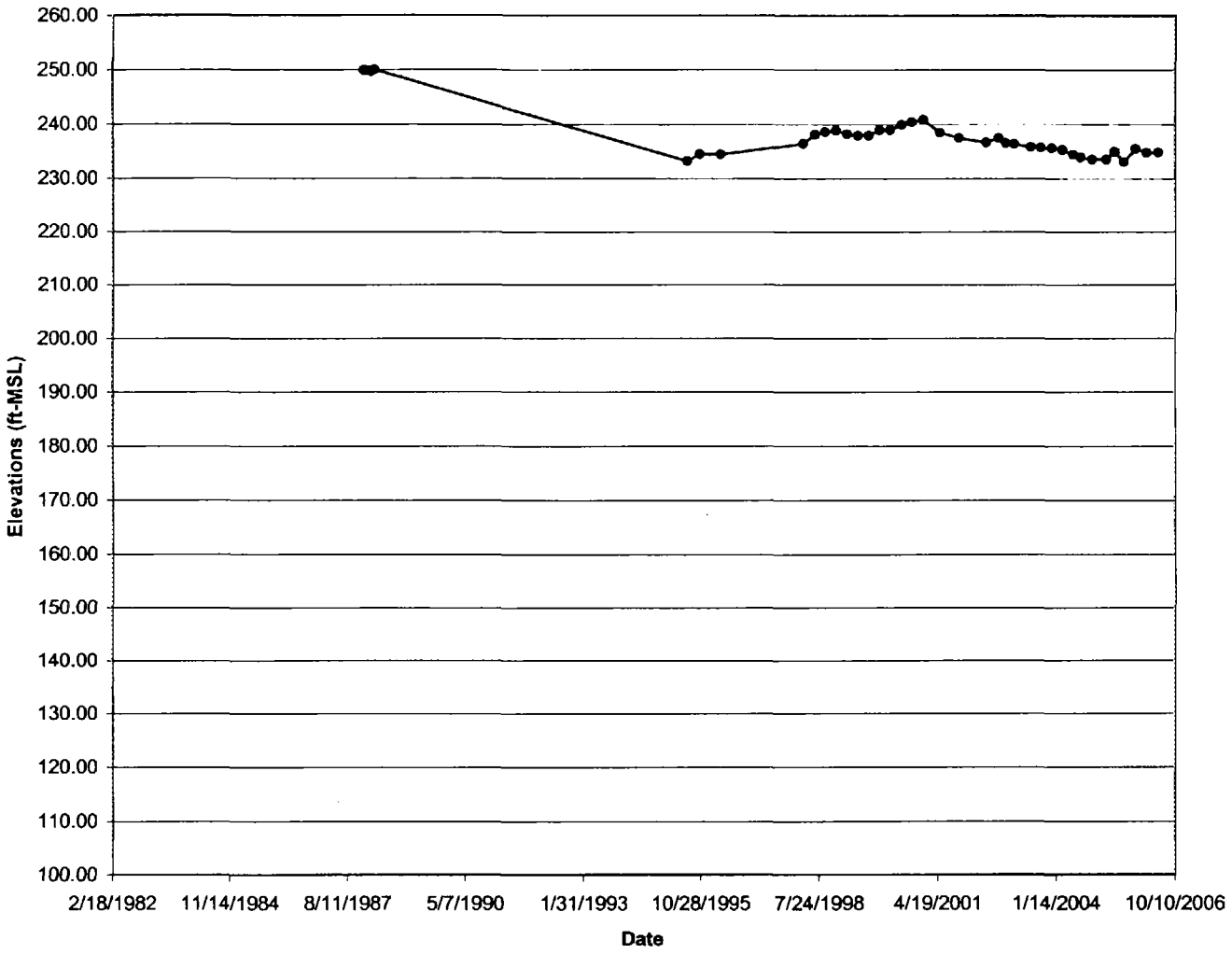
Water Level Elevations
Well MW-23

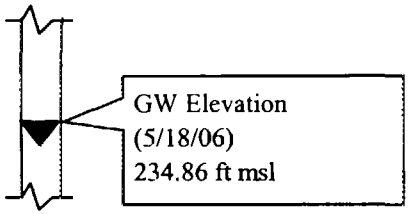


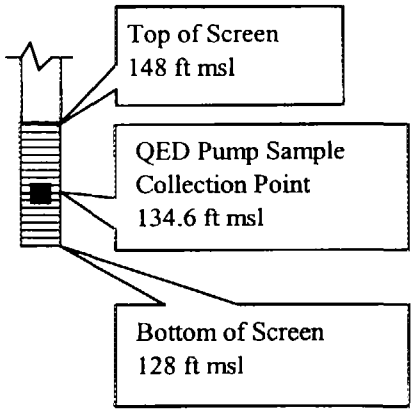
Water Level Elevations
Well MW-34I



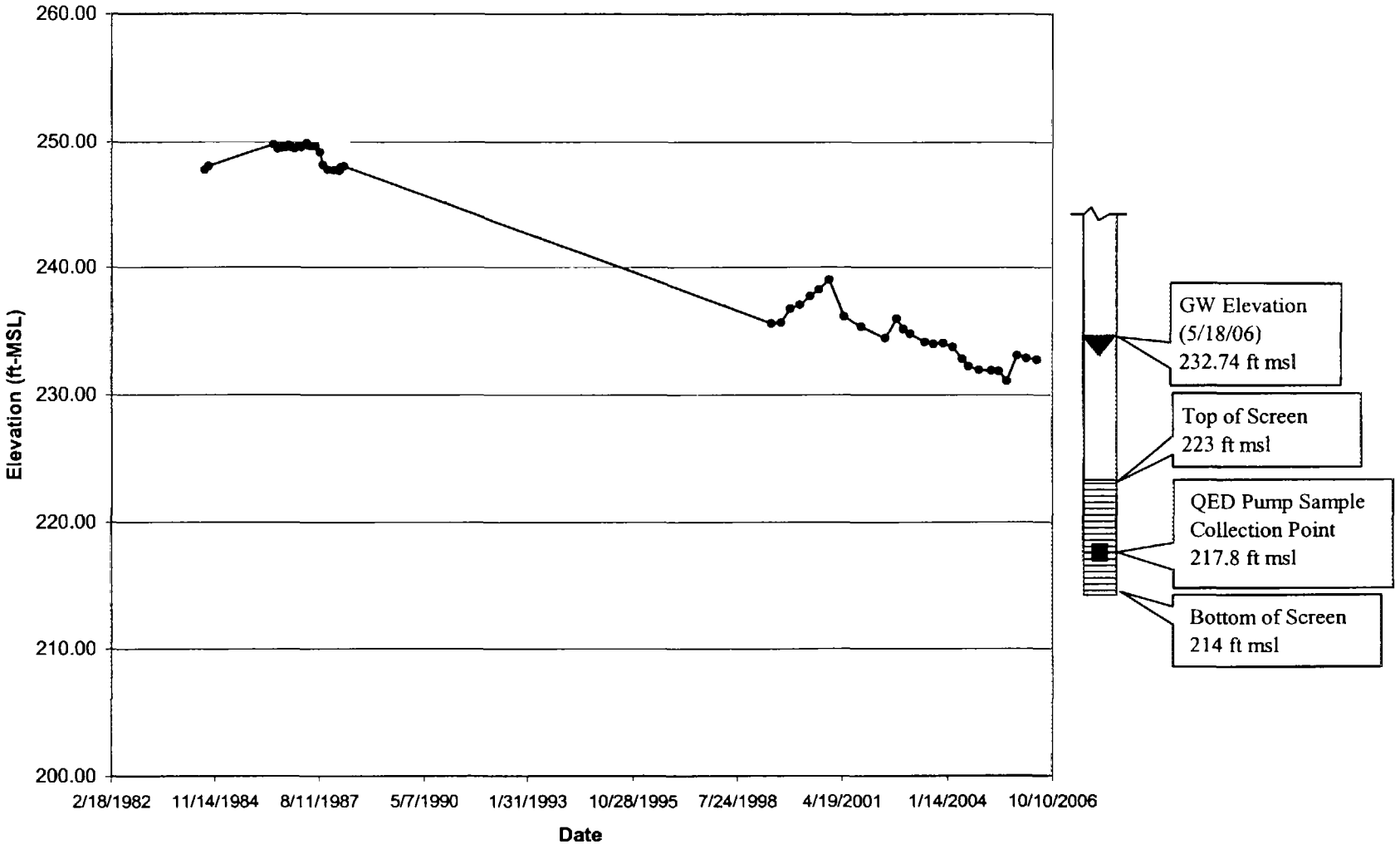
Water Level Elevations
Well MW-2D



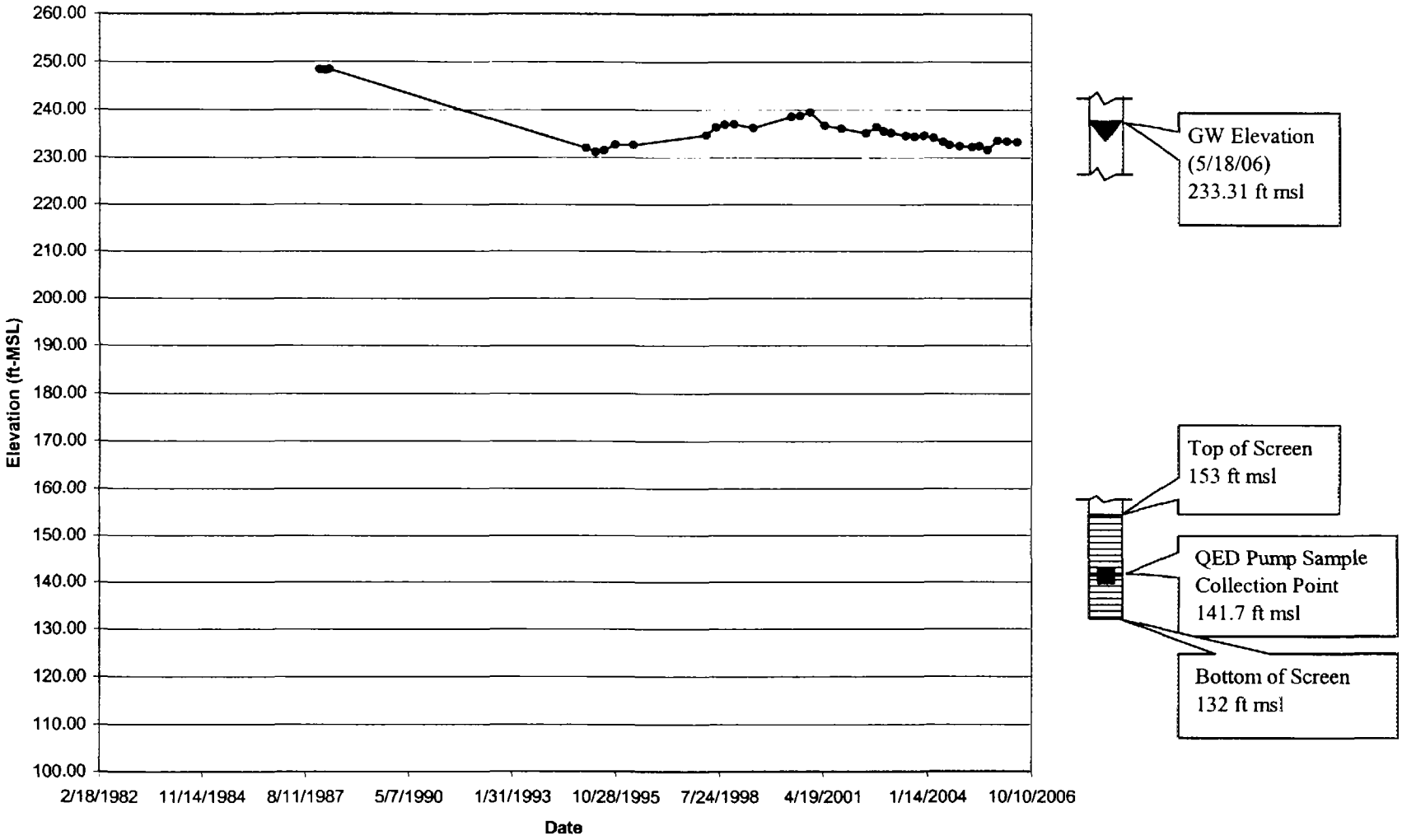




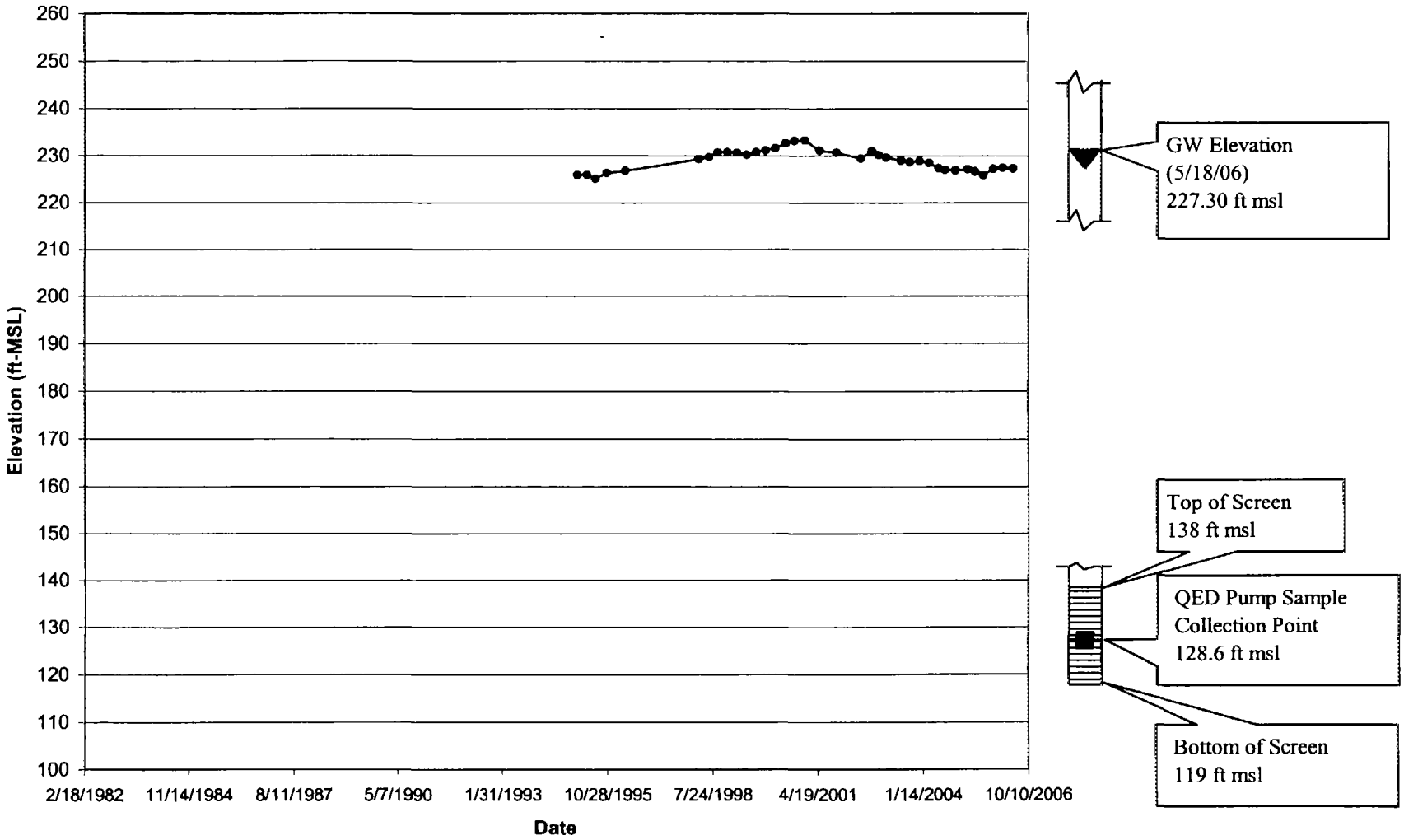
Water Level Elevations
Well MW-5D



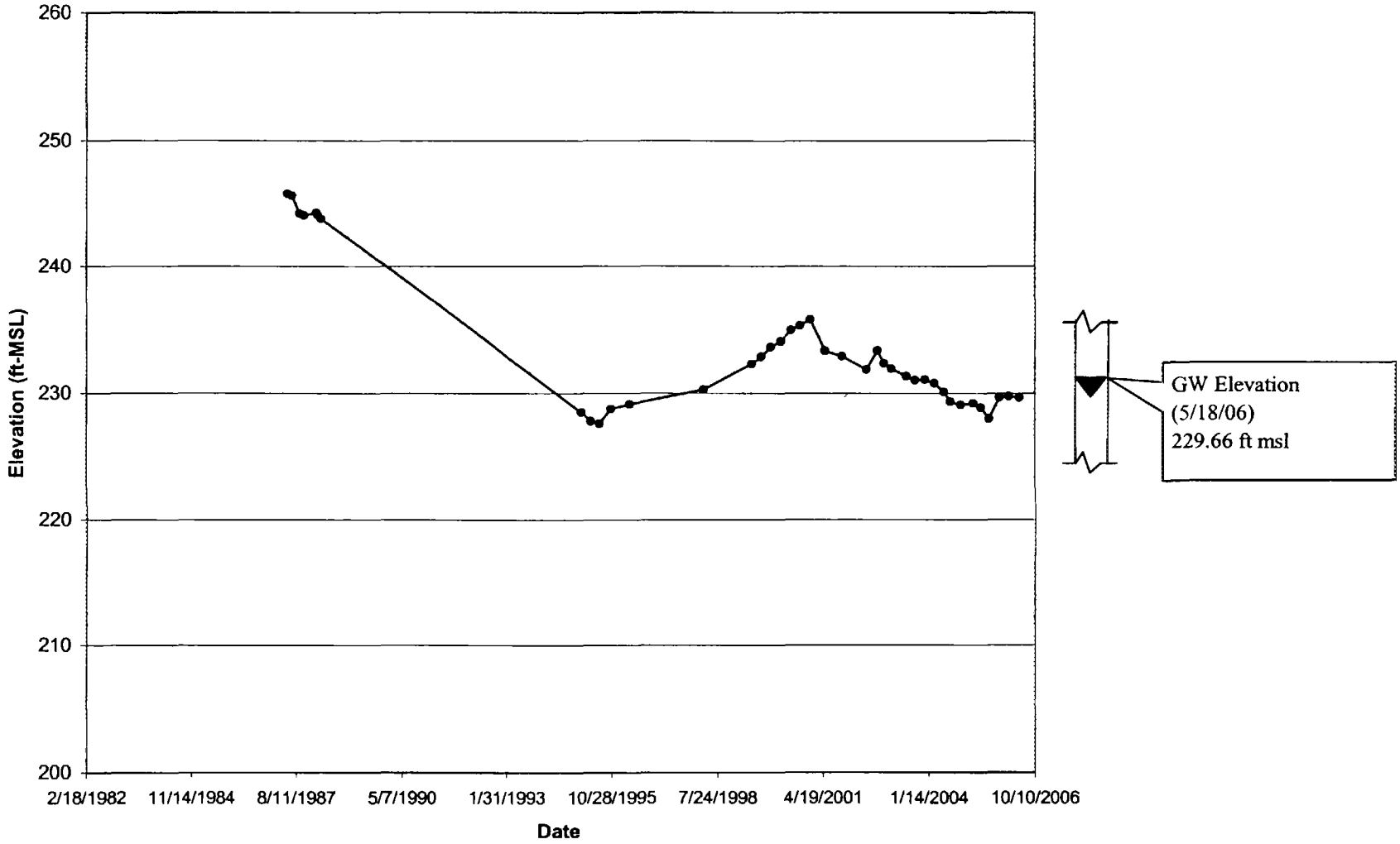
Water Level Elevations
Well MW-6D



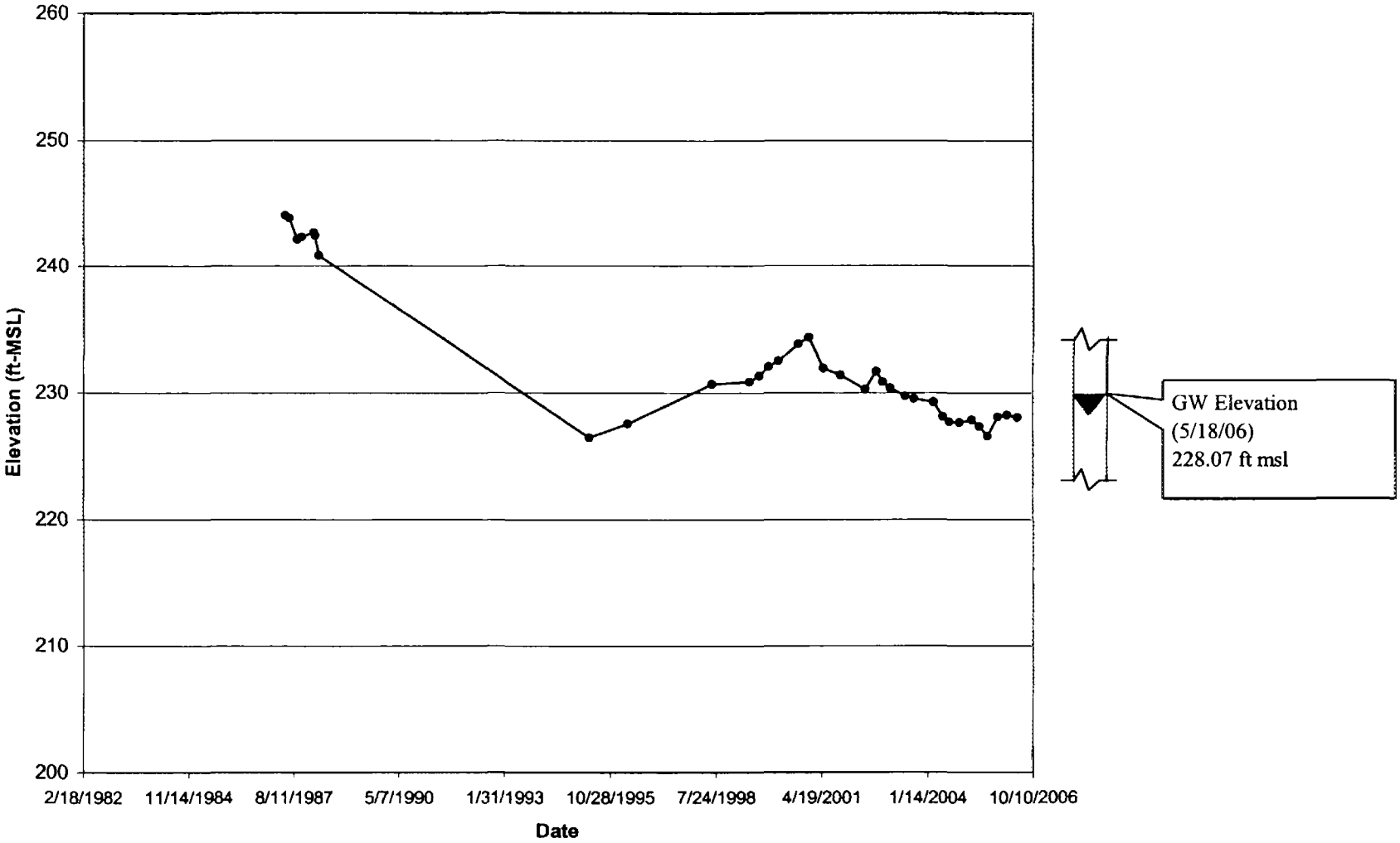
Water Level Elevations
Well MW-34D



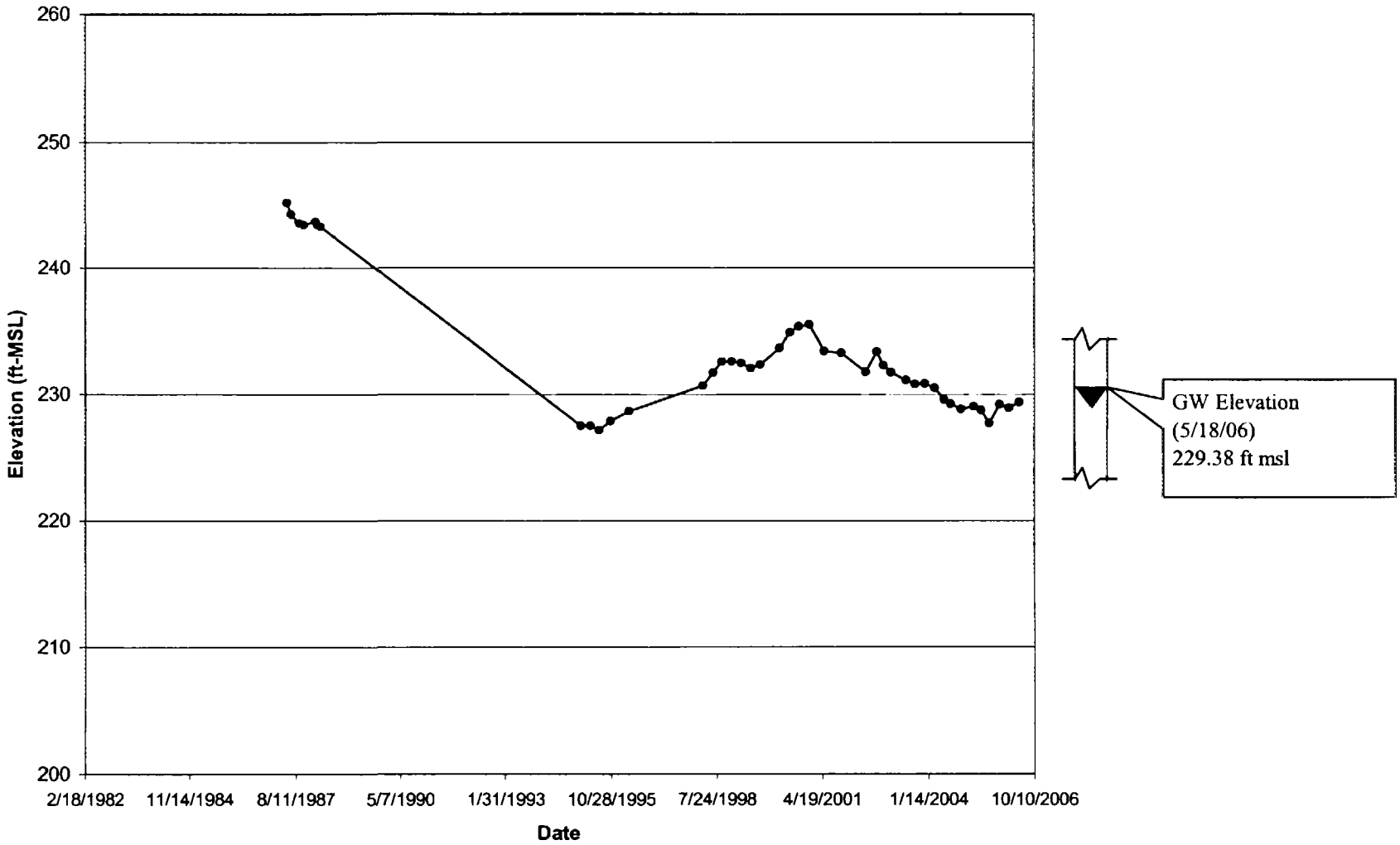
Water Level Elevations
Well MW-28P



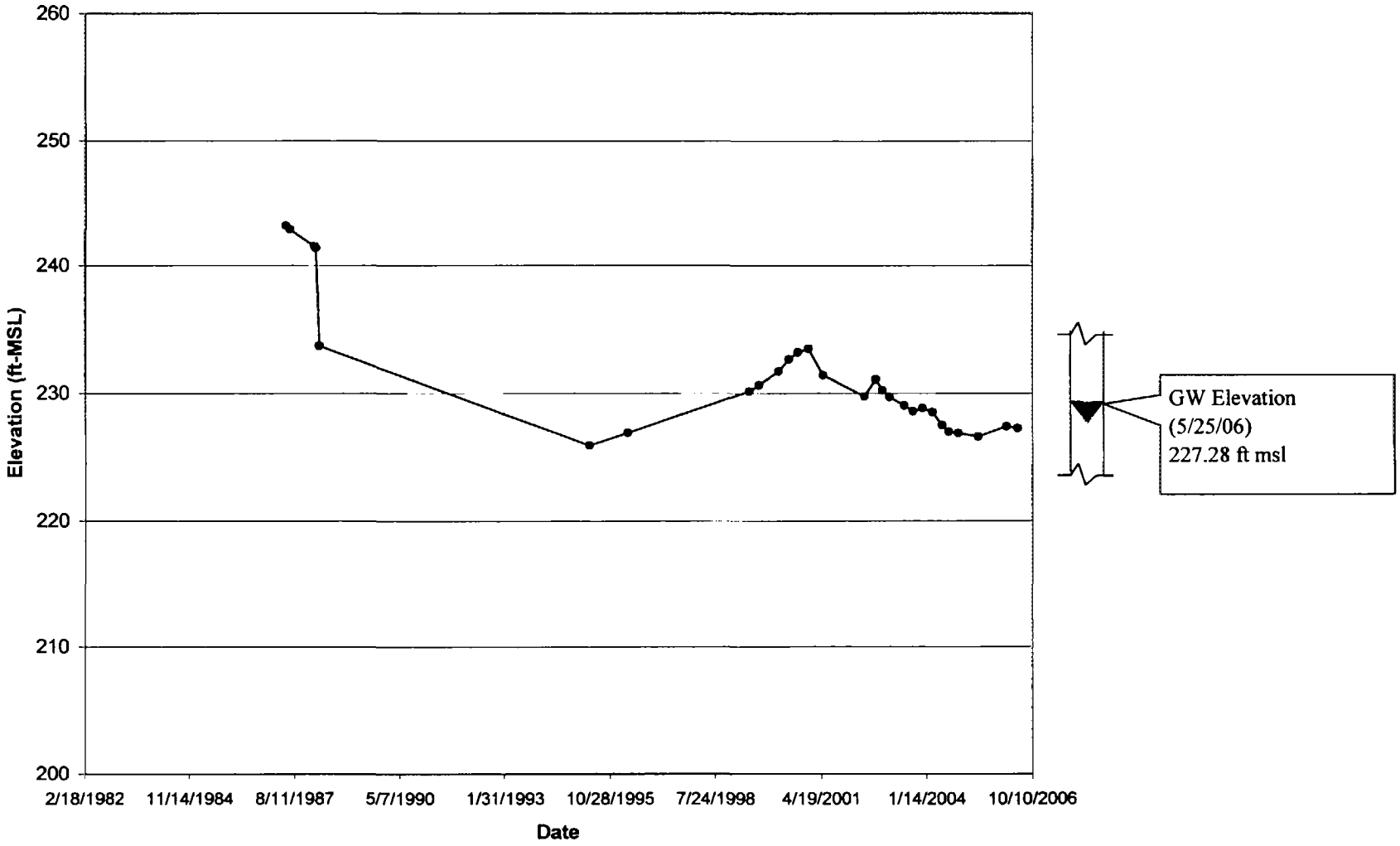
Water Level Elevations
Well MW-29P



Water Level Elevations
Well MW-31P



Water Level Elevations
Well MW-32P



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