FINAL ANNUAL SUMMARY GROUNDWATER MONITORING REPORT – 2005

Underground Storage Tank Site 2666
Marine Corps Base
Camp Pendleton, California
Project Number 102910

Document Control Number EAR-0008
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Acronyms and Abbreviations

BTEX	benzene, toluene, ethylbenzene, and total xylenes
CA LUFT	California leaking underground fuel tank
CAP	corrective action plan
DON	U.S. Department of the Navy
EPA	U.S. Environmental Protection Agency
ft/ft	feet per foot (or foot per foot)
MCB	Marine Corps Base
mg/L	milligrams per liter
N	nitrogen
NTUs	nephelometric turbidity units
OHM	OHM Remediation Services Corp.
ORP	oxidation reduction potential
RWQCB	California Regional Water Quality Control Board
SAM	site assessment and mitigation
SWDIV	Southwest Division Naval Facilities Engineering Command
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOCs	volatile organic compounds

1.0 Introduction

This *Final Annual Summary Groundwater Monitoring Report – 2005, Underground Storage Tank Site 2666, Marine Corps Base (MCB) Camp Pendleton, California*, was prepared by Shaw Environmental, Inc. for EAR Engineering, Construction & Support Services, Riverside, California for submittal to the U.S. Department of the Navy (DON). The report covers the first through fourth quarters of 2005. Groundwater sampling and associated reporting activities were performed under a Shaw Environmental, Inc. Professional Services Agreement with EAR Engineering, Construction & Support Services.

This report was prepared in accordance with direction from the DON and recommendations by the California Regional Water Quality Control Board (RWQCB), San Diego Region. The quarterly groundwater sampling was performed in accordance with the sampling and analysis plan (Southwest Division Naval Facilities Engineering Command [SWDIV], 2003) and the *Site Assessment and Mitigation (SAM) Manual* prepared by the County of San Diego (San Diego County, 2004).

1.1 Scope of Work

Quarterly groundwater monitoring and reporting are included in the scope of work developed by the DON for the remediation of hydrocarbon-impacted soil and groundwater at Underground Storage Tank (UST) Site 2666. Monitoring includes the measurement of water levels and the collection and analysis of groundwater samples. Groundwater samples from the site are analyzed for total petroleum hydrocarbons (TPH) as diesel; benzene, toluene, ethylbenzene, and total xylenes (BTEX); nitrate/nitrite as nitrogen (N); sulfate; alkalinity; and methane. In addition to laboratory analyses of groundwater samples, measurements of dissolved oxygen concentrations, oxidation/reduction potential (ORP) and ferrous-iron concentrations of the groundwater are collected in the field at the time of sampling.

1.2 Site Background

MCB Camp Pendleton is located in northern San Diego County, California, and covers approximately 125,000 acres of land bordered on the west by the Pacific Ocean (Figure 1). The project site is in the southeastern portion of MCB Camp Pendleton in the 26 Area (Figure 1).

UST Site 2666 site is currently a vacant lot that was formerly occupied by the MCB Laundry and Dry Cleaning Facility. The site is located on Vandegrift Boulevard, near the intersection with Santa Margarita Road, and is approximately 12 miles northeast of the MCB Camp Pendleton Oceanside gate. The site is within the Santa Margarita Groundwater Basin, and three water-

supply wells (10/4 7A2, 10/4 7H2, and 10/4 7R2) are located in the bed of the Santa Margarita River within 1 mile of the site.

A 25,000-gallon UST (UST 2666-2) and a concrete sump were removed from the site in February 1995 (Figure 2). An assessment of the site was conducted, during May through October 1996, by Brown and Caldwell (Brown and Caldwell, 1997). Six soil borings out of 28 soil borings drilled at the site were completed as groundwater monitoring wells (RW-1 and MW-1 through MW-5).

OHM Remediation Services Corp. (OHM) advanced three soil borings, in March 1998, to assess contamination beneath the site in greater detail. OHM installed three groundwater monitoring wells (MW-6, MW-7, and MW-8) at the site during July 1998 and two additional monitoring wells (MW-9 and MW-10) in the downgradient portion of the site during June 2000.

An interim remedial action was undertaken at the site in January 2000. The former tank excavation at the site was dewatered, overexcavated, and refilled and compacted with clean soil to eliminate perched water that had ponded in the backfilled excavation. Well RW-1 (previously located in the former tank area) was abandoned at that time. In addition to the excavation activities, a subsurface storm drain adjacent to the former tank excavation was sealed off at both ends to eliminate the source of subsurface inflow of water to the backfilled excavation. The subsurface storm drain was replaced with an aboveground V-ditch to channel surface runoff.

The *Final Corrective Action Plan (CAP), Underground Storage Tank Site 2666, Marine Corps Base, Camp Pendleton, California*, was submitted to the San Diego RWQCB on October 27, 2000 (IT Corporation, 2000). The corrective action selected for site remediation, based on the alternative analysis presented in the CAP, was bioventing for soil near the former tank area, biosparging for groundwater on the southeast side of Vandegrift Boulevard, and monitoring natural attenuation for downgradient groundwater on the northwest side of Vandegrift Boulevard.

An addendum to the CAP was submitted to the San Diego RWQCB on February 28, 2002 (IT Corporation, 2002) to address and implement their comments to the CAP as stated in a letter dated February 7, 2002. In the addendum, the Navy agreed to implement active remediation for downgradient groundwater on the northwest side of Vandegrift Boulevard. The San Diego RWQCB (in a letter dated June 18, 2002) approved the Final CAP and CAP Addendum, with system startup commencing on May 29, 2003.

2.0 Fluid Level Measurements and Groundwater Sampling

This section summarizes the fluid level measurements and quarterly groundwater sampling events conducted at UST Site 2666 during the first through fourth quarters of 2005.

2.1 Fluid Level Measurements

Fluid levels were measured in the monitoring wells at UST Site 2666 on March 1, April 27, April 28, August 22, November 2, and November 3, 2005. Fluid level measurements are documented on the field data sheets presented in Appendix A and are summarized in Table 1. To date, no free product has been observed by Shaw Environmental, Inc. at the site.

An oil-water interface probe was used to measure the depth from the top of each well casing to the top of groundwater. Depths to water were converted to elevations using the surveyed top-of-casing elevation for each well. Quarterly groundwater elevation maps prepared using the four sets of fluid level data are presented in Figures 3 through 6. Trends in groundwater elevations at the site since July 1998 are shown on the hydrograph in Figure 7.

2.2 Wells Sampled, Sampling Methodology, and Analytical Results

Groundwater samples were collected from monitoring wells MW-1 through MW-10, 24W10A, and 24MW11A during the first through fourth quarters of 2005. Analytical results are summarized in Table 2 and are shown in Figure 8. The analytical laboratory reports are presented in Appendix B.

Each monitoring well was purged using a low-flow bladder pump lowered to the approximate midpoint of the well screen. Attached to the pump was a length of dual-bonded, Teflon™-lined tubing and safety line sufficient to reach the surface. A compressor was attached to the end of the inlet tubing, and the outlet tubing drained into a waste collection tank. Purging proceeded until three successive and stable water-quality parameter measurements were observed in each well. Stabilization was determined electronically using a PurgeScan™ water-quality instrument.

Frequent water samples were collected during well purging and were tested for several parameters (pH, turbidity, specific conductance, temperature, oxidation-reduction potential, and dissolved oxygen) using calibrated field instruments. Readings and measurements collected at each well were recorded on groundwater sample collection logs, which are presented in Appendix A. Ferrous iron concentrations were measured using a portable field kit.

Groundwater samples were collected using the low-flow pump after the field instrument measurements had stabilized. Samples were collected in containers appropriate for the requested analyses. The sample containers were properly identified with labels completed using a

waterproof marker, and the containers were then carefully placed on ice in a cooler for delivery to a California-certified, DON-approved laboratory.

The following variances from the groundwater monitoring plan occurred during the monitoring events for the first through fourth quarters of 2005:

- Turbidity exceeded 10 nephelometric turbidity units (NTUs) during the first quarter 2005 in wells MW-6, 24W10A, and 24W11A, during the second quarter 2005 in wells 24W10A and 24W11A, during the third quarter 2005 in well 24W11A, and during the fourth quarter 2005 in well 24W11A. The sampling team was unable to achieve 10 NTUs prior to sample collection, as measured by a calibrated turbidity meter. The flow rate was adjusted and the other purge measurements were monitored. The samples were collected when it was determined that the other parameters were stable.

- The drawdown slightly exceeded the 0.3-foot limit established for performing micropurge sampling at the site during the first quarter 2005 sampling of wells MW-1, MW-7, and 24W10A; during the second quarter 2005 sampling of well MW-7; during the third quarter 2005 sampling of wells MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-10, and 24W10A; and during the fourth quarter 2005 sampling wells MW-1, MW-2, MW-6, MW-8, MW-10, and 24W10A. Adjustments were made to the flow rate and the drawdown was stabilized as much as possible. Samples were collected when the field parameters were stable.

The disposable pump bladder and the pump safety line were discarded and the wellhead was secured after each well was sampled. The water-level probe and bladder pump were decontaminated after each use. The dedicated Teflon™-lined discharge tubing was placed in a clean plastic bag, labeled with the well identification, and properly stored. The sampling equipment was then moved to the next well location.

The purge water and decontamination water for both quarters were stored at the Area 13 storage tank and were eventually transported by vacuum truck for disposal (see Section 5).

The groundwater samples, during the quarterly monitoring events, were analyzed for TPH as diesel by California Leaking Underground Fuel Tank (CA LUFT) Method 8015 modified; BTEX by U.S. Environmental Protection Agency (EPA) Method 8021B; nitrate/nitrite as N by EPA Method 353.3; sulfate by EPA Method 300.0; alkalinity by EPA Method 310.1; and methane by Method RSK 175. Analytical results from the quarterly sampling events are summarized in Table 2. Concentrations of TPH as diesel and benzene for each monitoring well are plotted in Figure 8. In addition to the laboratory samples, dissolved oxygen concentrations, ORP, and ferrous-iron concentrations were measured in the field. These data are presented in Figure 9 and are summarized in Table 3.

2.3 Groundwater Flow Direction and Contaminant Distribution

Groundwater conditions and the distribution of TPH as diesel and benzene in groundwater beneath UST Site 2666, as observed during the four quarterly monitoring events of 2005, are described in this section. Water-level data are presented in Figures 3 through 6 and are summarized in Table 1. Contaminant concentrations are presented in Figure 8 and are summarized in Table 2. Field monitoring results are presented in Figure 9 and are summarized in Table 3. Laboratory reports and chain-of-custody forms are presented in Appendix B.

As shown on Figures 3 through 6, the direction of groundwater flow beneath UST Site 2666 is generally to the west. The hydraulic gradient was 0.07 feet per foot (ft/ft) in March and 0.03 ft/ft in April, August, and November, 2005. The depth to groundwater beneath the site varied from 8.92 feet in MW-6 to 24.70 feet in MW-4 during the four monitoring events. As shown in Figure 7, groundwater elevations in site wells have generally been declining since July 1998; however, heavy rainfall in March and April 2005 resulted in a sharp increase in the groundwater elevation.

Laboratory analyses of groundwater samples collected during the four 2005 quarterly monitoring events (Table 2 and Figure 6) show that TPH as diesel was detected in seven of the site monitoring wells (MW-01, MW-2, MW-5, MW-7, MW-8, MW-9, and MW-10). TPH as diesel was not detected in well MW-9 during the first quarter of 2005. TPH as diesel was not detected above reporting limits in wells MW-3, MW-4, MW-6, 24W-10A, and 24W-11A. Concentrations of TPH as diesel ranged from 0.02J milligrams per liter (mg/L) in several wells to a maximum of 5.79 mg/L in well MW-2.

Benzene was not detected at or above the reporting limit for any wells during the four quarters of 2005. Benzene was reported below the reporting limit for wells MW-1, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, and 24W-10A during the same period. All other results were reported as not detected.

Summaries of historical laboratory and field analyses for UST Site 2666 are presented in Tables C-1 through C-5 in Appendix C. Third-party data validations were performed by The Data Validation Group, Inc. on 25 percent of the laboratory reports per the project Sampling and Analysis Plan (SWDIV, 2003). The remaining laboratory reports were validated internally. Both the third-party and internal summary validation reports are provided in Appendix D.

Results were uploaded to Geotracker for the first and second quarters 2005 sampling events on June 29, 2005 (Confirmation numbers 2579722404, 7829540908, and 6357-106328). Results for the third quarter 2005 were uploaded on October 26, 2005 (Confirmation numbers 4838339269, 7430979132, 4780378878, and 9573747634). Results for the fourth quarter 2005 were uploaded on December 20, 2005 (Confirmation numbers 2436024129 and 9453224182).

The field monitoring results presented in Figure 9 and Table 3 show that concentrations of dissolved oxygen in groundwater were generally higher during the first and fourth quarter compared to the second and third quarter. In addition, dissolved oxygen was generally lower in the wells with TPH contamination than those without contamination. There was no clear trend for the ORP analyses.

3.0 Quality Assurance and Quality Control

Groundwater samples, during both quarterly monitoring events of 2005, were collected and preserved in accordance with EPA and CA LUFT methods and were delivered to the laboratory within 24 hours of collection. Applied Physics & Chemistry Laboratory of Chino, California, a State-certified laboratory, analyzed the groundwater samples within the required analytical holding times.

Field duplicate samples were collected from wells MW-8 (102910-0145), MW-3 (102910-0192), MW-1 (102910-0228), and MW-9 (102910-0234). Duplicate samples are used to assess the accuracy, precision, and consistency of the sampling program. The analytical results for the duplicate sample correlated well with the results for the primary samples (102910-0144, 102910-0191, 102910-0227, and 102910-0233), except for one diesel analysis from MW-8. The relative percent difference between the duplicate and primary sample for MW-8 was 109 percent (0.44 mg/L diesel, compared to 0.20 mg/L).

Ten trip blank samples (102910-0133, 102910-0141, 102910-0171, 102910-0180, 102910-0182A, 102910-0183A, 102910-0190, 102910-0199, 102910-0236, and 102910-0237) were transported with the groundwater samples for analysis of BTEX. Trip blanks are used to determine whether cross-contamination by volatile organic compounds (VOCs) has occurred during transportation of the samples to the laboratory. The trip blanks were shipped with the coolers containing samples to be analyzed for BTEX. The reporting limits for BTEX in some of the trip blanks were raised because of method blank contamination. BTEX compounds were not detected above reporting limits in the trip blank samples.

Ten equipment rinsate samples (102910-0140, 102910-0149, 102910-0179, 102910-0186, 102910-0181A, 102910-0189, 102910-0198, 102910-0209, 102910-0235, and 102910-0244) were collected and analyzed to assess the adequacy of the equipment decontamination procedures. The samples were collected by pouring analyte-free water over the tip of the interface probe after it was decontaminated. TPH as diesel and BTEX were not detected at concentrations exceeding the reporting limits in the equipment rinsate samples with one exception. Ethylbenzene was detected at a concentration of 2 micrograms per liter during third quarter 2005.

4.0 Remediation System Progress

This section summarizes the progress of the remediation activities at UST Site 2666. A bioventing/biosparging system is operating at this site.

The bioventing/biosparging system at UST Site 2666 consists of 2 bioventing wells (BV-1 and BV-2) and 11 biosparging wells (BS-1 through BS-7 and BS-15 through BS-18). System operation began on May 29, 2003. Currently, the operation schedule includes injecting air into each well for 45 minutes a day, every other day.

To date, approximately 1,005 milligrams per kilogram of TPH has been degraded in the vadose zone (Figure 10).

5.0 Waste Management

The volumes of purged water and the decontamination water generated from monitoring wells at UST Site 2666 during the four quarters of 2005 were approximately 18, 18, 33, and 18 gallons, respectively. The water was stored in an aboveground wastewater storage tank located in the 13 Area. The purged groundwater and decontamination water from the first quarter were transported on April 18, 2005 (by Island Environmental Services to Demenno Kerdoon in Compton, California) for treatment and disposal under Uniform Hazardous Waste Manifest Number 23393597. The purged groundwater and decontamination water from the second quarter were transported on July 1, 2005 (by Island Environmental Services to Demenno Kerdoon in Compton, California) for treatment and disposal under Uniform Hazardous Waste Manifest Number 24430067. The purged groundwater and decontamination water from the third quarter were transported on September 29, 2005 (by Patriot Environmental Services to Demenno Kerdoon in Compton, California) for treatment and disposal under Uniform Hazardous Waste Manifest Number 24420791. The purged groundwater and decontamination water from the fourth quarter were transported on November 22, 2005 (by Patriot Environmental Services to Demenno Kerdoon in Compton, California) for treatment and disposal under Uniform Hazardous Waste Manifest Number 24798861. Copies of the waste manifests are presented in Appendix E.

6.0 Conclusions

This section summarizes water-level and water-quality data collected during the four 2005 quarterly monitoring events conducted at UST Site 2666.

The depth-to-groundwater beneath the site varied from 8.92 feet in MW-6 to 24.70 feet in MW-4 during the four quarterly monitoring events of 2005. The overall direction of groundwater flow beneath UST Site 2666 was generally to the west and the hydraulic gradient was 0.07 ft/ft in March and 0.03 ft/ft in April, August, and November. Groundwater elevations in site wells have generally been declining since July 1998; however, heavy rainfall in March and April 2005 resulted in a sharp increase in groundwater elevation.

Analytical results indicate that groundwater beneath UST Site 2666 has been impacted by TPH as diesel. TPH as diesel was detected at concentrations exceeding the reporting limit of 0.096 mg/L in seven of the twelve site monitoring wells (MW-1, MW-2, MW-5, MW-7, MW-8, MW-9, and MW-10). TPH as diesel was not detected in well MW-9 during the first quarter of 2005. Concentrations of TPH as diesel ranged from 0.1 mg/L in well MW-9 to a maximum of 5.79 mg/L in well MW-2. Benzene was not detected above the reporting limit during all four quarters of 2005.

Field data collected during the quarterly monitoring events of 2005 show that concentrations of dissolved oxygen in groundwater were generally higher during the first and fourth quarter compared to the second and third quarter. In addition, dissolved oxygen was generally lower in the wells with TPH contamination than those without contamination. There was no clear trend for the ORP analyses.

7.0 References

Brown and Caldwell, 1997, *Final Site Assessment Report, Underground Storage Tank Site 2666-2, Marine Corps Base Camp Pendleton, California*, June.

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SWDIV, see Southwest Division, Naval Facilities Engineering Command.

Figures

Figure 1
Site Vicinity and Location Map – UST Site 2666

Figure 2
Site Map – UST Site 2666

Figure 3
Groundwater Elevation Contours – March 2005 – UST Site 2666

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Figure 10
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Tables

Table 1
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Table 2
Summary of Groundwater Analytical Results – UST Site 2666 – March Through November 2005

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Summary of Field Monitoring Results – UST Site 2666 – March Through November 2005

Appendix A
Groundwater Sample Collection Logs, Fluid Level Measurement Documentation, and Operation and Maintenance Logs

Appendix B
Laboratory Reports and Chain-of-Custody Forms

Appendix C
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Appendix D
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Table 1
Quarterly Fluid Level Measurements - UST Site 2666 - March Through November 2005

Well No.	Date	Wellhead Elevation (ft msl)	Depth to Top of Screen (ft bgs)	Total Depth (ft bgs)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft msl)
MW-1	3/1/2005	121.48	15.00	34.10	11.48	ND	0.00	110.00
	4/27/2005	121.48	15.00	34.10	18.77	ND	0.00	102.71
	8/22/2005	121.48	15.00	34.10	15.78	ND	0.00	105.70
	11/2/2005	121.48	15.00	34.10	16.68	ND	0.00	104.80
MW-2	3/1/2005	123.25	15.00	35.40	17.52	ND	0.00	105.73
	4/27/2005	123.25	15.00	35.40	16.00	ND	0.00	107.25
	8/22/2005	123.25	15.00	35.40	18.13	ND	0.00	105.12
	11/2/2005	123.25	15.00	35.40	20.11	ND	0.00	103.14
MW-3	3/1/2005	125.03	15.00	35.60	18.56	ND	0.00	106.47
	4/27/2005	125.03	15.00	35.60	17.84	ND	0.00	107.19
	8/22/2005	125.03	15.00	35.60	19.93	ND	0.00	105.10
	11/2/2005	125.03	15.00	35.60	21.91	ND	0.00	103.12
MW-4	3/1/2005	128.12	15.00	42.90	22.40	ND	0.00	105.72
	4/27/2005	128.12	15.00	42.90	20.63	ND	0.00	107.49
	8/22/2005	128.12	15.00	42.90	22.70	ND	0.00	105.42
	11/2/2005	128.12	15.00	42.90	24.70	ND	0.00	103.42
MW-5	3/1/2005	118.00	15.00	37.40	19.86	ND	0.00	98.14
	4/27/2005	118.00	15.00	37.40	17.61	ND	0.00	100.39
	8/22/2005	118.00	15.00	37.40	18.91	ND	0.00	99.09
	11/2/2005	118.00	15.00	37.40	19.83	ND	0.00	98.17
MW-6	3/1/2005	121.90	8.50	28.50	8.92	ND	0.00	112.98
	4/27/2005	121.90	8.50	28.50	10.15	ND	0.00	111.75
	8/22/2005	121.90	8.50	28.50	14.77	ND	0.00	107.13
	11/2/2005	121.90	8.50	28.50	17.42	ND	0.00	104.48
MW-7	3/1/2005	120.11	13.50	28.50	19.32	ND	0.00	100.79
	4/27/2005	120.11	13.50	28.50	17.56	ND	0.00	102.55
	8/22/2005	120.11	13.50	28.50	18.96	ND	0.00	101.15
	11/2/2005	120.11	13.50	28.50	20.11	ND	0.00	100.00
MW-8	3/1/2005	117.62	13.50	27.00	17.20	ND	0.00	100.42
	4/27/2005	117.62	13.50	27.00	14.88	ND	0.00	102.74
	8/22/2005	117.62	13.50	27.00	16.57	ND	0.00	101.05
	11/3/2005	117.62	13.50	27.00	17.76	ND	0.00	99.86
MW-9	3/1/2005	118.30	15.00	30.10	14.36	ND	0.00	103.94
	4/28/2005	118.30	15.00	30.10	12.97	ND	0.00	105.33
	8/22/2005	118.30	15.00	30.10	14.68	ND	0.00	103.62
	11/2/2005	118.30	15.00	30.10	16.29	ND	0.00	102.01
MW-10	3/1/2005	117.10	15.00	33.24	18.54	ND	0.00	98.56
	4/28/2005	117.10	15.00	33.24	17.27	ND	0.00	99.83
	8/22/2005	117.10	15.00	33.24	18.88	ND	0.00	98.22
	11/2/2005	117.10	15.00	33.24	19.70	ND	0.00	97.40
24W10A	3/1/2005	104.94	9.00	29.00	9.53	ND	0.00	95.41
	4/28/2005	104.94	9.00	29.00	11.25	ND	0.00	93.69
	8/22/2005	104.94	9.00	29.00	13.50	ND	0.00	91.44
	11/2/2005	104.94	9.00	29.00	13.21	ND	0.00	91.73
24W11A	3/1/2005	113.59	NA	30.68	16.98	ND	0.00	96.61
	4/28/2005	113.59	NA	30.68	18.74	ND	0.00	94.85
	8/22/2005	113.59	NA	30.68	20.26	ND	0.00	93.33
	11/2/2005	113.59	NA	30.68	20.35	ND	0.00	93.24

bgs - below ground surface
ft - feet
msl - mean sea level
NA - not available
ND - not detected
UST - underground storage tank

Table 2
Summary of Groundwater Analytical Results - UST Site 2666 - March Through November 2005

Method			8015B - TPH	EPA 8021B	EPA 8021B	EPA 8021B	EPA 8021B	RSK175	EPA 310.1	EPA 353.3	EPA 300.0
Analyte			Diesel	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Methane	Alkalinity (as $CaCO_3$)	Nitrate/Nitrite as N	Sulfate
Unit			(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Location Code	Date Sampled	Sample Number									
MW-1	03/02/05	102910-0138	1.4	0.1 J	0.5 U	0.5 U	1.5 U	3 U	45.5	0.74	61.4
MW-1	04/27/05	102910-0176	1.2	0.5 U	0.8 U	0.5 U	1.5 U	3 U	50.9	0.098 J	226
MW-1	08/23/05	102910-0186A	1.5	0.5 U	0.5 U	0.5 U	1.5 U	3 U	86.3	0.5 U	290
MW-1	11/02/05	102910-0227	1.6	0.5 U	0.5 U	0.5 U	1.5 U	7	116	0.5 U	179
MW-1	11/02/05	102910-0228 (Dup)	1.6	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
MW-2	03/02/05	102910-0136	0.46	0.5 U	0.5 U	0.5 U	1.5 U	500	651	0.084 J	108
MW-2	04/27/05	102910-0174	5.79	0.5 U	0.5 U	0.5 U	1.5 U	3 U	253	111	696
MW-2	08/23/05	102910-0188	3.87	0.5 U	0.5 U	0.3 J	1.5 U	3 U	174	54.3	563
MW-2	11/02/05	102910-0230	1.6 J	0.5 U	0.5 U	0.5 U	1.5 U	6.2	284	20.9	488
MW-3	03/02/05	102910-0135	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	3 U	125	12.4	111
MW-3	04/27/05	102910-0173	0.1 U	0.5 U	0.7 U	0.6 U	1.5 U	3 U	209	27.2	189
MW-3	08/24/05	102910-0191	0.02 J	0.5 U	0.5 U	0.5 U	1.5 U	3 U	178	21	176
MW-3	08/24/05	102910-0192 (Dup)	0.02 J	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
MW-3	11/02/05	102910-0231	0.096 U	0.2 J	0.5 J	0.5 J	3.3	3 U	164	16.8	151
MW-4	03/02/05	102910-0134	0.096 U	0.5 UJ	0.5 UJ	0.5 UJ	1.5 UJ	3 U	234	11.8	306
MW-4	04/27/05	102910-0172	0.1 U	0.5 U	0.5 U	0.6 U	1.5 U	3 U	248	12	82.8
MW-4	08/24/05	102910-0193	0.03 J	0.5 U	0.5 U	0.5 U	1.5 U	3 U	216	6.6	291
MW-4	11/02/05	102910-0232	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	3 U	228	6.1	233
MW-5	03/03/05	102910-0143	0.29	0.09 J	0.6 U	0.5 U	1.5 U	2400	648	0.5 U	722
MW-5	04/27/05	102910-0178	0.4	0.5 U	0.6 U	0.6 U	1.5 U	210	560	0.13 J	1540
MW-5	08/23/05	102910-0185A	0.93	0.5 U	0.5 U	0.5 U	1.5 U	210	541	0.43 B	496
MW-5	11/03/05	102910-0239	0.82	0.5 U	0.5 U	0.5 U	1.5 U	1700	552	0.5 U	511
MW-6	03/02/05	102910-0137	0.096 U	0.09 J	0.5 U	0.5 U	1.5 U	3 U	41.5	41.2	201
MW-6	04/27/05	102910-0175	0.1 U	0.5 U	1.7 U	0.7 U	1.5 U	3 U	28.1	93.4	255
MW-6	08/23/05	102910-0187	0.05 J	0.5 U	1	0.4 J	2.2 U	3 U	27.2	63.5	243
MW-6	11/02/05	102910-0229	0.096 U	0.2 J	0.5 U	0.5 U	1.5 U	3 U	30.7	47.8	254
MW-7	03/03/05	102910-0142	1.3	0.09 J	0.5 U	0.5 U	1.5 U	160	651	0.5 U	540
MW-7	04/27/05	102910-0177	1.7	0.8 U	0.5 U	0.5 U	1.5 U	240	600	0.5 U	464
MW-7	08/25/05	102910-0208	1.6	0.8 U	0.5 U	0.5 U	1.5 U	290	652	0.5 U	378
MW-7	11/03/05	102910-0240	2	0.3 J	0.5 U	0.5 U	1.5 U	270	721	0.5 U	376
MW-8	03/03/05	102910-0144	0.2	0.2 J	0.5 U	0.5 U	1.5 U	300	844	0.5 U	509
MW-8	03/03/05	102910-0145 (Dup)	0.44	0.3 J	1.4 U	0.5 U	1.5 U	NA	NA	NA	NA
MW-8	04/28/05	102910-0182	0.2	0.5 U	0.5 U	0.5 U	1.5 U	3 U	833	0.054 J	461
MW-8	08/23/05	102910-0184A	0.2	0.5 U	0.5 U	0.5 U	1.5 U	23	730	0.5 U	448
MW-8	11/03/05	102910-0238	0.24	0.5 U	0.5 U	0.5 U	1.5 U	860	690	0.5 U	401

Table 2
Summary of Groundwater Analytical Results - UST Site 2666 - March Through November 2005

Method			8015B - TPH	EPA 8021B	EPA 8021B	EPA 8021B	EPA 8021B Xylenes	RSK175	EPA 310.1 Alkalinity	EPA 353.3 Nitrate/Nitrite	EPA 300.0
Analyte			Diesel	Benzene	Ethylbenzene	Toluene	(total)	Methane	(as $CaCO_3$)	as N	Sulfate
Unit			(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Location Code	Date Sampled	Sample Number									
MW-9	03/02/05	102910-0139	0.096 U	0.08 J	0.5 U	0.5 U	1.5 U	3 U	102	1.6	88.1
MW-9	04/28/05	102910-0181	0.1	0.5 U	0.5 U	0.5 U	1.5 U	3 U	93.7	1	75
MW-9	08/24/05	102910-0194	0.1	0.5 U	0.5 U	0.5 U	1.5 U	3 U	124	8.1	102
MW-9	11/02/05	102910-0233	0.35	0.5 U	0.5 U	0.5 U	1.5 U	3 U	116	7.2	113
MW-9	11/02/05	102910-0234 (Dup)	0.38	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
MW-10	03/03/05	102910-0146	0.19	0.1 J	1.5 U	0.5 U	1.5 U	110	469	0.5 U	398
MW-10	04/28/05	102910-0183	0.1	0.5 U	0.5 U	0.5 U	1.5 U	190 J	335	0.5 U	768
MW-10	08/22/05	102910-0180A	0.1	0.5 U	0.5 U	0.5 U	1.5 U	210	264	0.5 U	690
MW-10	11/03/05	102910-0241	0.2	0.5 U	0.5 U	0.5 U	1.5 U	75	264	0.5 U	693
24W-10A	03/03/05	102910-0147	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	3 U	351	0.5 U	116
24W-10A	04/28/05	102910-0184	0.096 U	0.2 J	1.8	0.6	3.8 U	3 U	301	4	99.4
24W-10A	08/24/05	102910-0195	0.03 J	0.5 U	0.5 U	0.5 U	1.5 U	3 U	233	6.1	76.9
24W-10A	11/03/05	102910-0242	0.02 J	0.5 U	0.5 U	0.5 U	1.5 U	3 U	258	2.7	96.9
24W-11A	03/03/05	102910-0148	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	3 U	252	1.3	452
24W-11A	04/28/05	102910-0185	0.096 U	0.5 U	0.7	0.5 U	1.7 U	3 U	250	1.6	467
24W-11A	08/24/05	102910-0196	0.02 J	0.5 U	0.5 U	0.5 U	1.5 U	3 U	235	1.5	431
24W-11A	11/03/05	102910-0243	0.1 U	0.5 U	0.5 U	0.5 U	1.5 U	3 U	228	3.1	433
Equipment Rinsate	03/02/05	102910-0140	0.009 J	0.5 UJ	0.5 UJ	0.5 UJ	1.5 UJ	NA	NA	NA	NA
Equipment Rinsate	03/03/05	102910-0149	0.096 U	0.5 U	1.6 U	0.5 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	04/27/05	102910-0179	0.1 U	0.2 J	0.5 U	0.6 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	04/28/05	102910-0186	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	08/22/05	102910-0181A	0.096 U	0.3 J	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	08/23/05	102910-0189	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	08/24/05	102910-0198	0.096 U	0.2 J	0.5 U	0.5 U	0.9 J	NA	NA	NA	NA
Equipment Rinsate	08/25/05	102910-0209	0.096 U	0.3 J	2	0.5 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	11/02/05	102910-0235	0.096 U	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Equipment Rinsate	11/03/05	102910-0244	0.1 U	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Trip Blank	03/02/05	102910-0133	NA	0.5 U	0.7 U	0.5 U	1.5 U	NA	NA	NA	NA
Trip Blank	03/03/05	102910-0141	NA	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Trip Blank	04/27/05	102910-0171	NA	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Trip Blank	04/28/05	102910-0180	NA	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Trip Blank	08/22/05	102910-0182A	NA	0.5 U	0.5 U	0.5 U	1 J	NA	NA	NA	NA
Trip Blank	08/23/05	102910-0183A	NA	0.2 J	0.5 U	0.5 U	1 J	NA	NA	NA	NA
Trip Blank	08/24/05	102910-0190	NA	0.2 J	0.5 U	0.5 U	0.9 J	NA	NA	NA	NA
Trip Blank	08/25/05	102910-0199	NA	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA

Table 2
Summary of Groundwater Analytical Results - UST Site 2666 - March Through November 2005

Method			8015B - TPH	EPA 8021B	EPA 8021B	EPA 8021B	EPA 8021B	RSK175	EPA 310.1	EPA 353.3	EPA 300.0
Analyte			Diesel	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Methane	Alkalinity (as $CaCO_3$)	Nitrate/Nitrite as N	Sulfate
Unit			(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Location Code	Date Sampled	Sample Number									
Trip Blank	11/02/05	102910-0236	NA	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA
Trip Blank	11/03/05	102910-0237	NA	0.5 U	0.5 U	0.5 U	1.5 U	NA	NA	NA	NA

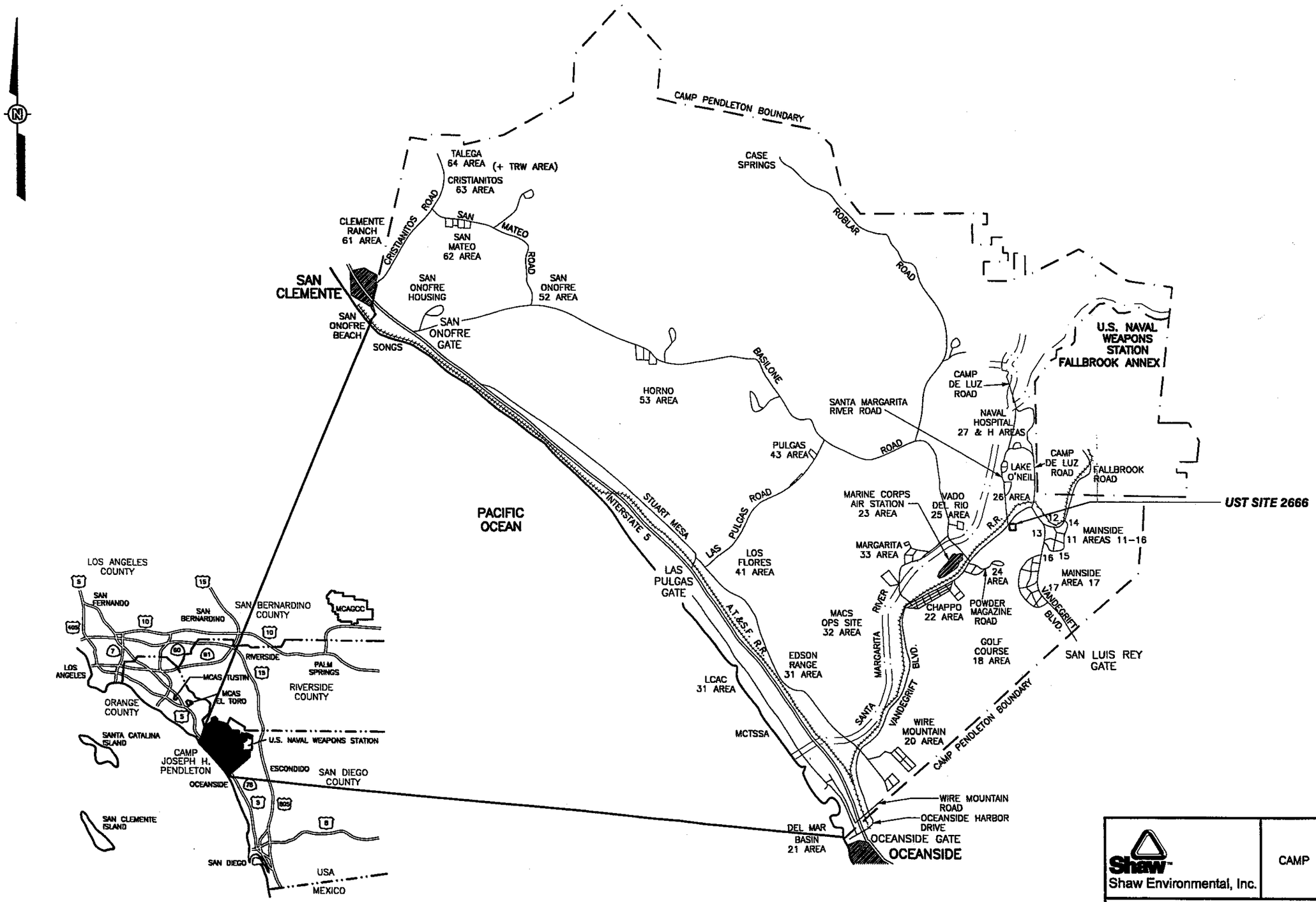
Dup - duplicate
EPA - U.S. Environmental Protection Agency
J - estimated
mg/L - milligrams per liter
NA - not analyzed
U - not detected above, or equal to, the stated reporting limit
UST - underground storage tank
µg/L - micrograms per liter

Table 3
Summary of Field Monitoring Results - UST Site 2666 - March Through November 2005

Well	Date	Dissolved Oxygen (mg/L)	Electrical Conductivity (mS/cm)	Ferrous Iron (mg/L)	Redox Potential (mV)	Water Temperature (°C)
MW-1	3/2/2005	2.90	0.470	ND	+125	22.04
	4/27/2005	0.43	0.702	ND	+46	21.84
	8/23/2005	0.78	0.941	3.2	-27	25.02
	11/2/2005	1.35	0.934	2.8	-22	22.69
MW-2	3/2/2005	2.97	1.83	2.2	+12	22.92
	4/27/2005	0.75	3.00	ND	+1	21.55
	8/23/2005	0.69	2.46	ND	-54	27.50
	11/2/2005	1.71	2.37	ND	+34	25.01
MW-3	3/2/2005	4.05	0.895	ND	+94	20.94
	4/27/2005	0.95	1.409	ND	+46	20.77
	8/24/2005	5.20	1.111	ND	+39	21.94
	11/2/2005	4.63	1.173	ND	+72	24.22
MW-4	3/2/2005	2.27	1.890	ND	+84	19.88
	4/27/2005	0.83	1.960	ND	-40	20.24
	8/24/2005	1.50	1.487	ND	-19	22.55
	11/2/2005	1.02	1.700	ND	+18	23.05
MW-5	3/3/2005	2.89	5.81	2.6	+10	20.82
	4/27/2005	0.71	6.43	ND	-52	22.33
	8/23/2005	2.32	5.71	ND	-80	21.68
	11/3/2005	1.45	6.37	1.8	-55	21.05
MW-6	3/2/2005	4.82	0.767	1.8	+87	21.76
	4/27/2005	1.12	1.294	ND	+54	21.96
	8/23/2005	6.42	1.167	ND	+34	25.13
	11/2/2005	6.11	1.154	ND	+23	24.48
MW-7	3/3/2005	2.88	6.00	0.8	+22	20.11
	4/27/2005	0.37	4.55	1.2	-112	20.95
	8/25/2005	0.89	4.89	3.0	-119	24.17
	11/2/2005	1.60	6.13	2.2	-63	22.30
MW-8	3/3/2005	2.91	5.81	1.6	+7	18.56
	4/28/2005	0.50	6.89	1.2	-78	17.58
	8/23/2005	1.18	4.94	1.4	-93	19.37
	11/3/2005	0.55	5.48	2.9	-79	19.36
MW-9	3/2/2005	2.53	0.719	ND	+115	22.26
	4/28/2005	0.69	0.765	ND	+4	19.19
	8/24/2005	1.16	0.655	ND	-26	25.16
	11/2/2005	1.24	0.748	ND	+35	23.09
MW-10	3/3/2005	4.07	4.76	4.0	-41	19.83
	4/28/2005	0.49	11.69	1.2	-93	19.00
	8/22/2005	3.45	1.26	1.4	-98	23.46
	11/3/2005	3.72	11.51	1.7	-54	22.12
24W10A	3/3/2005	1.92	1.940	2.6	-18	19.02
	4/28/2005	0.57	1.710	0.6	-67	18.01
	8/24/2005	1.44	1.148	ND	-40	23.77
	11/3/2005	1.20	1.331	0.4	-84	20.97
24W11A	3/3/2005	3.88	6.37	3.8	+43	22.28
	4/28/2005	0.72	7.72	ND	-38	21.39
	8/24/2005	2.76	6.93	0.6	-18	25.24
	11/3/2005	2.42	8.27	ND	-35	23.62

mg/L - milligrams per liter
mS/cm - millisiemens per centimeter
mV - millivolts
ND - not detected
Redox - oxidation/reduction
UST - underground storage tank
°C - degrees Celsius

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
J. VASQUEZ/RP 06/14/04	6/27/05	6/28/05	102910-B1



NOTE: MODIFIED FROM BROWN AND CALDWELL, SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK SITE 21478, MARINE CORPS BASE, CAMP PENDLETON, CALIFORNIA, MARCH 1996, DWG. NO. 1801001.

"DRAWING NOT TO SCALE"

Shaw Environmental, Inc.

CAMP PENDLETON, CALIFORNIA

FIGURE 1

SITE VICINITY AND LOCATION MAP
UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

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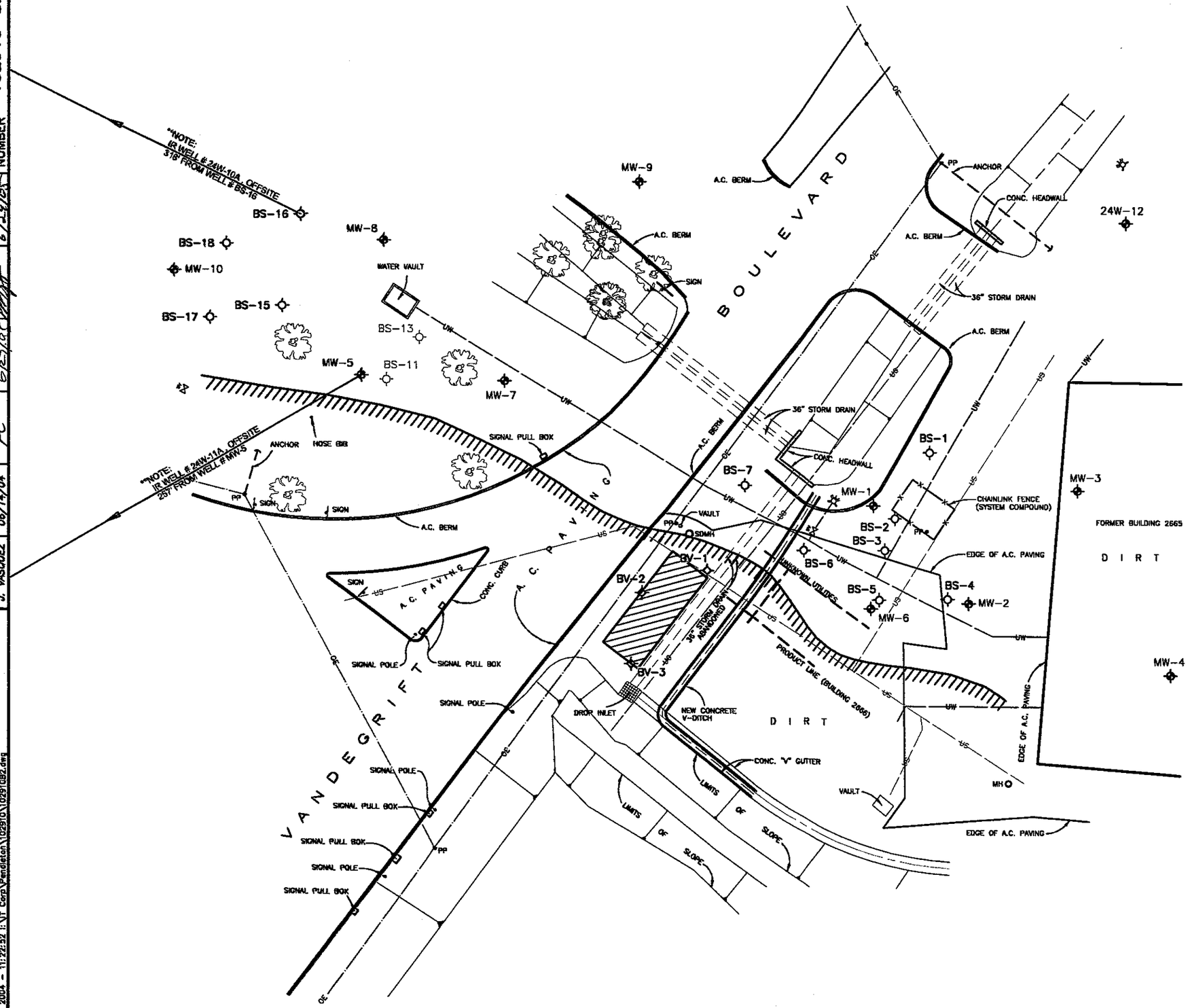
DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
J. VASQUEZ 06/14/04			102910-B2



EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- PP — POWER POLE
- -OE- OVERHEAD ELECTRIC
- -UW- UNDERGROUND WATER
- -US- UNDERGROUND SEWER
- -UG- UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. #30", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

Shaw Environmental, Inc.

CAMP PENDLETON, CALIFORNIA

FIGURE 2
SITE MAP
UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

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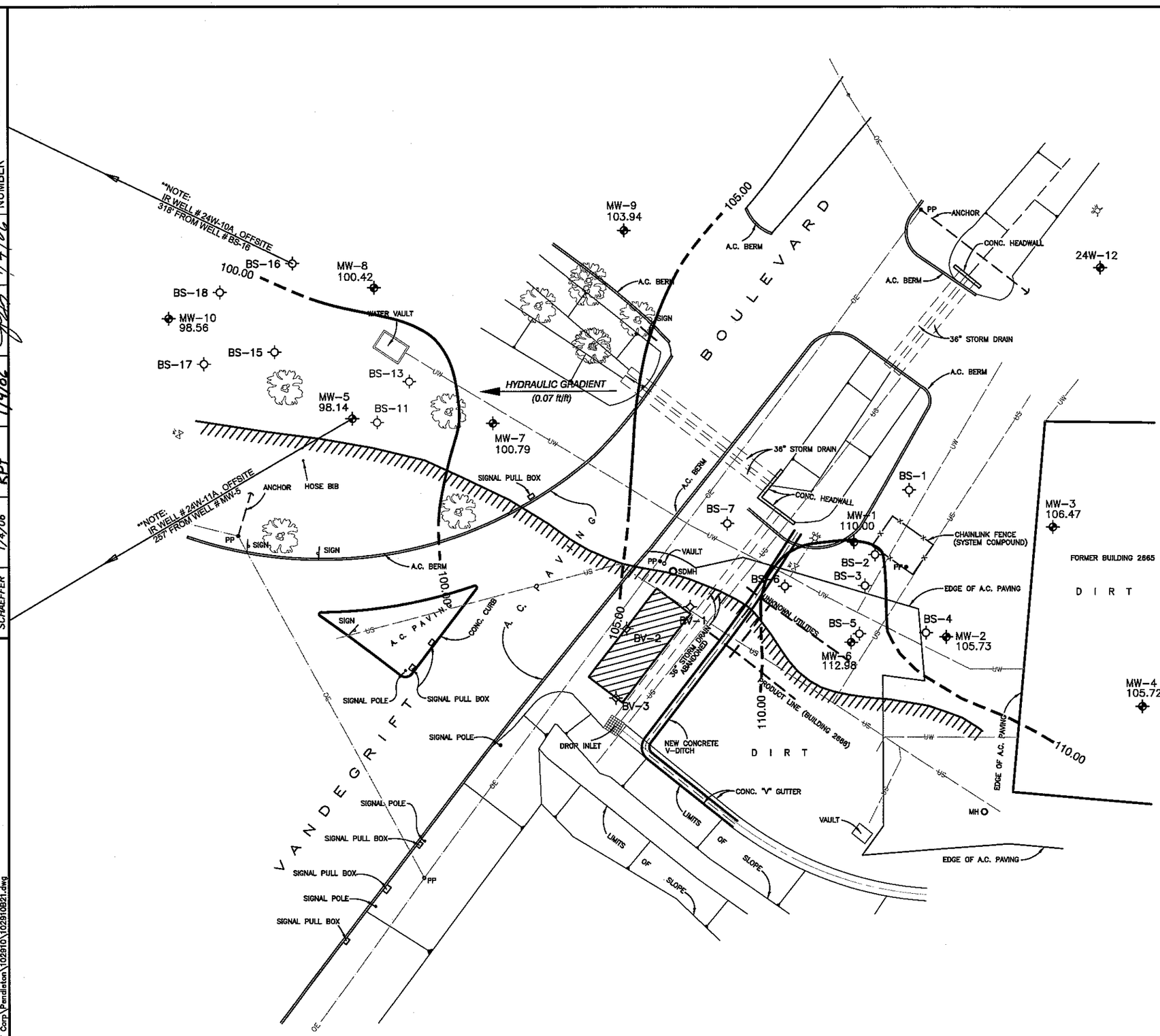

EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- 100.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE UNCERTAIN)
- HYDRAULIC GRADIENT 0.07 ft/ft — APPROXIMATE GROUNDWATER FLOW DIRECTION AND MAGNITUDE OF HYDRAULIC GRADIENT (FEET PER FOOT)
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- PP — POWER POLE
- -OE- OVERHEAD ELECTRIC
- -UW- UNDERGROUND WATER
- -US- UNDERGROUND SEWER
- -UG- UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. #30", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
SCHAEFFER 1/4/06	RPt 1/4/06	1/4/06	102910-B21

Shaw Environmental, Inc.

EFA WEST
CAMP PENDLETON, CALIFORNIA

FIGURE 3

GROUNDWATER ELEVATION CONTOURS MARCH 2005 - UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

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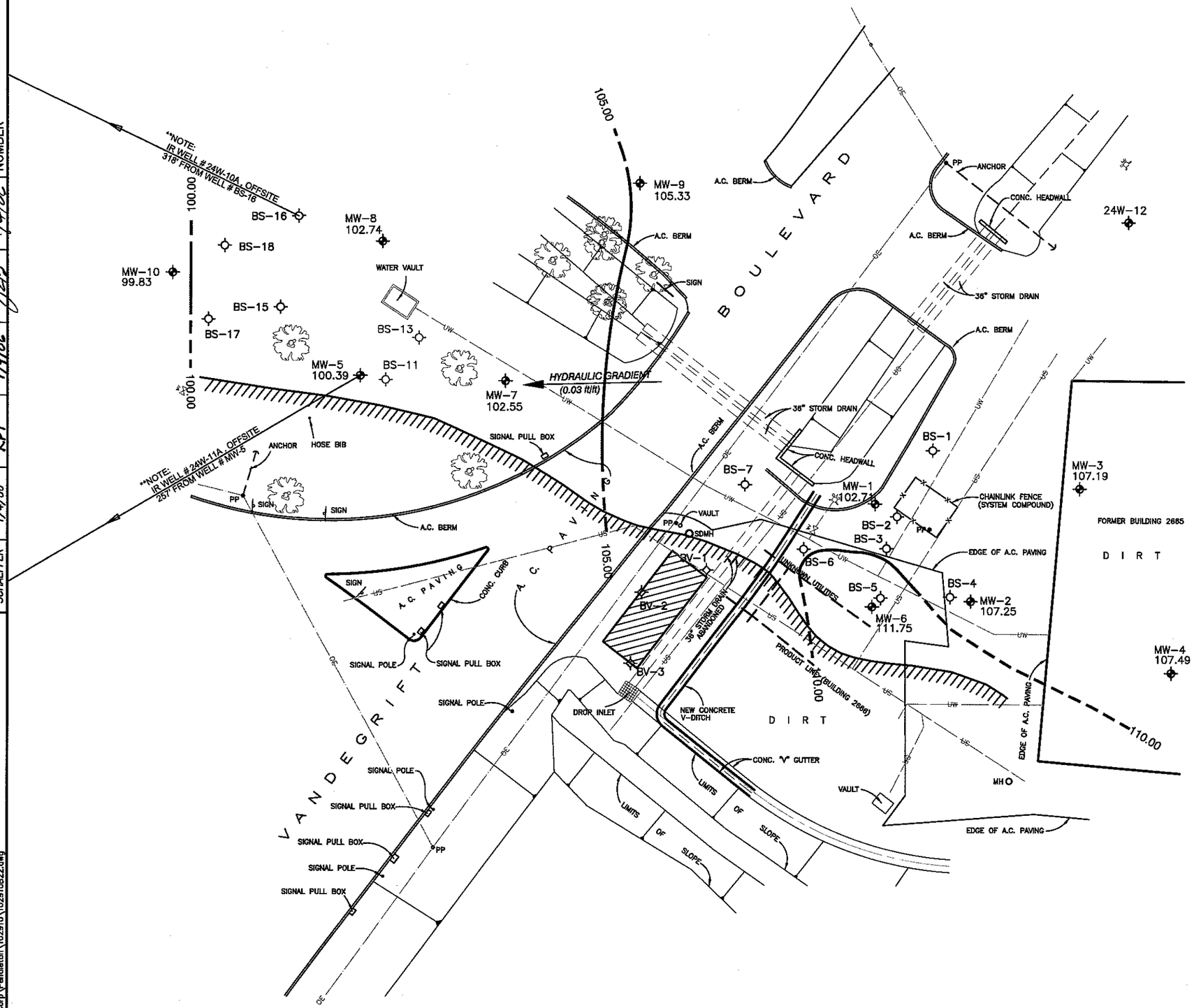

EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- 100.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE UNCERTAIN)
- HYDRAULIC GRADIENT 0.03 ft/ft — APPROXIMATE GROUNDWATER FLOW DIRECTION AND MAGNITUDE OF HYDRAULIC GRADIENT (FEET PER FOOT)
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- PP — POWER POLE
- -OE- OVERHEAD ELECTRIC
- -UW- UNDERGROUND WATER
- -US- UNDERGROUND SEWER
- -UG- UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. #30", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

Shaw Environmental, Inc.

EFA WEST
CAMP PENDLETON, CALIFORNIA

FIGURE 4
GROUNDWATER ELEVATION CONTOURS
APRIL 2005 - UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

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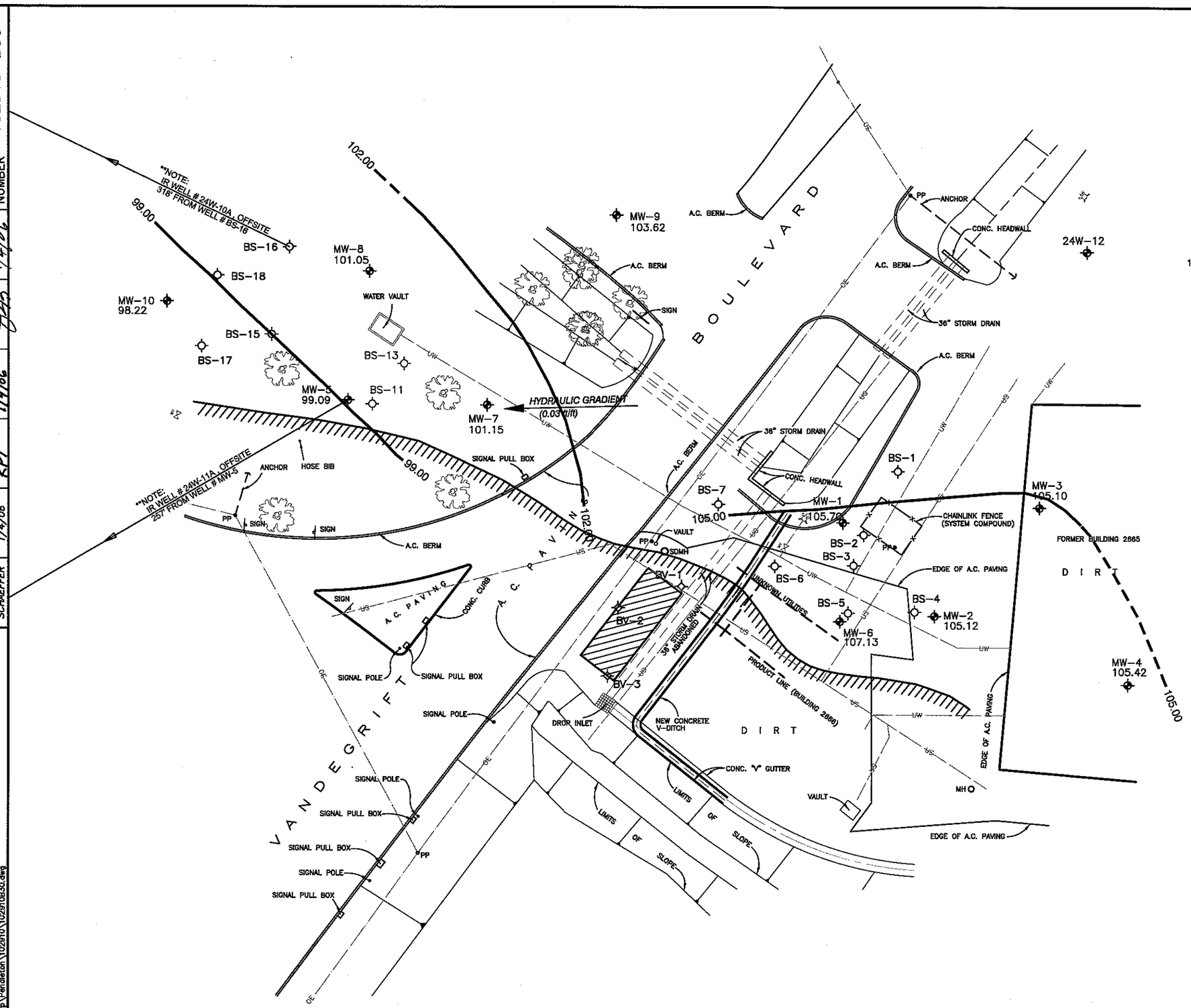
DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
SCHAEFFER 1/4/06	RPT 1/4/06	1/4/06	102910-B30



EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- 102.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE UNCERTAIN)
- HYDRAULIC GRADIENT 0.03 ft/ft — APPROXIMATE GROUNDWATER FLOW DIRECTION AND MAGNITUDE OF HYDRAULIC GRADIENT (FEET PER FOOT)
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- PP — POWER POLE
- -OE- OVERHEAD ELECTRIC
- -UW- UNDERGROUND WATER
- -US- UNDERGROUND SEWER
- -UG- UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. 030", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

Shaw Environmental, Inc.

EFA WEST
CAMP PENDLETON, CALIFORNIA

FIGURE 5
GROUNDWATER ELEVATION CONTOURS
AUGUST 2005 - UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

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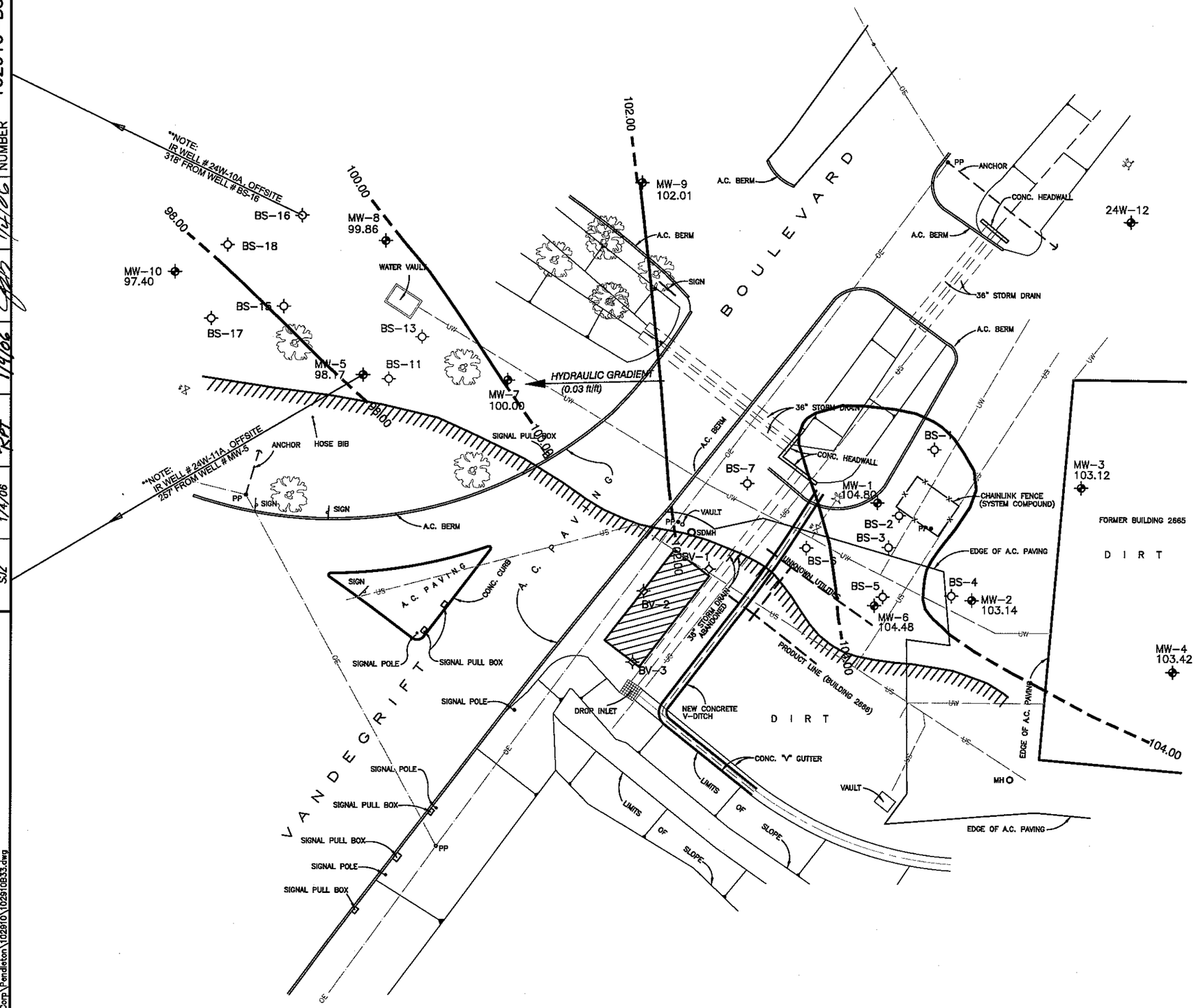
DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
SJZ 1/4/06	RPT 1/4/06	1/12/06	102910-B33



EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- 100.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE UNCERTAIN)
- HYDRAULIC GRADIENT 0.03 ft/ft — APPROXIMATE GROUNDWATER FLOW DIRECTION AND MAGNITUDE OF HYDRAULIC GRADIENT (FEET PER FOOT)
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- PP — POWER POLE
- -OE- OVERHEAD ELECTRIC
- -UW- UNDERGROUND WATER
- -US- UNDERGROUND SEWER
- -UG- UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. #30", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

Shaw Environmental, Inc.

EFA WEST
CAMP PENDLETON, CALIFORNIA

FIGURE 6
GROUNDWATER ELEVATION CONTOURS
NOVEMBER 2005 - UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

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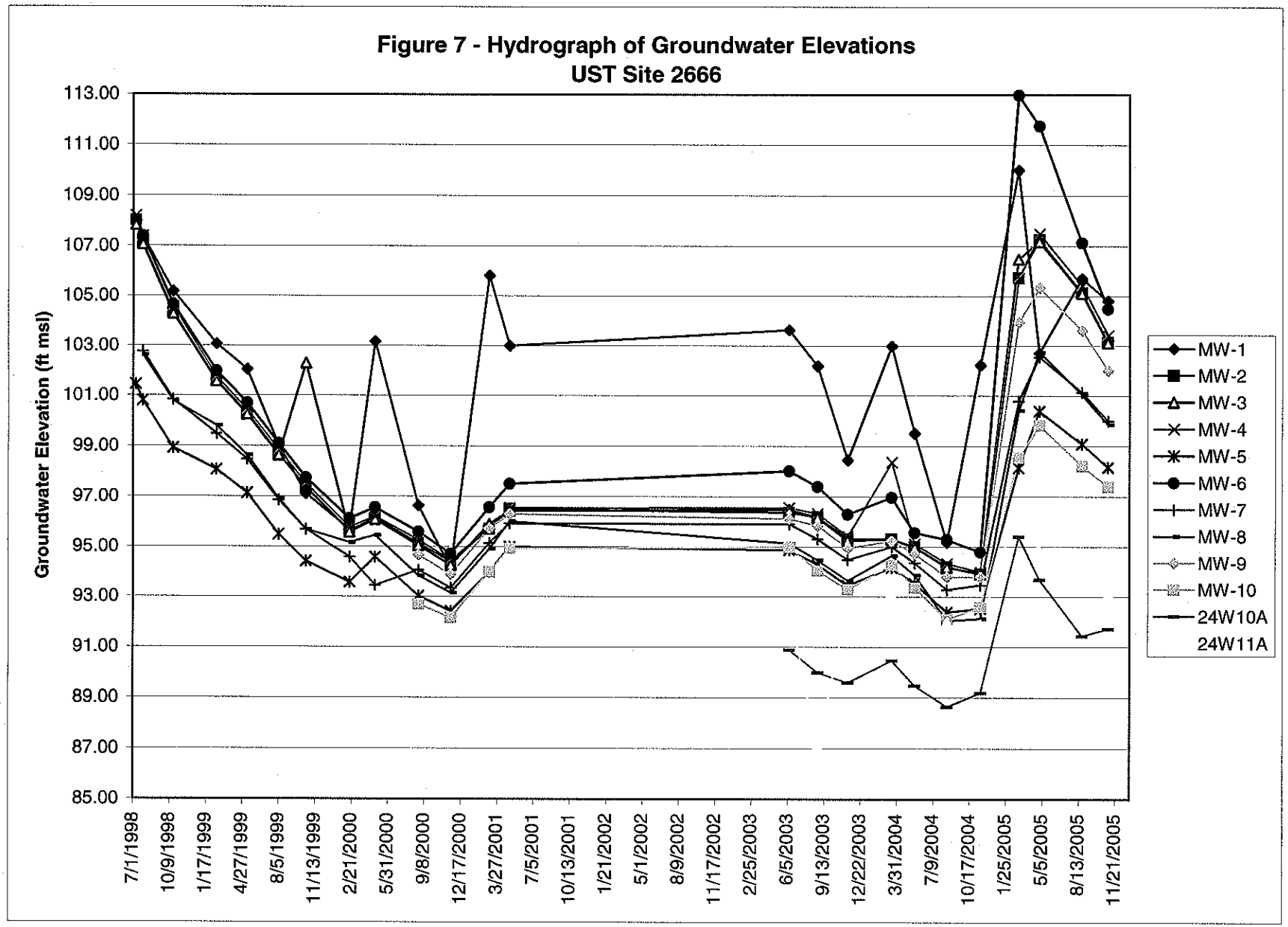
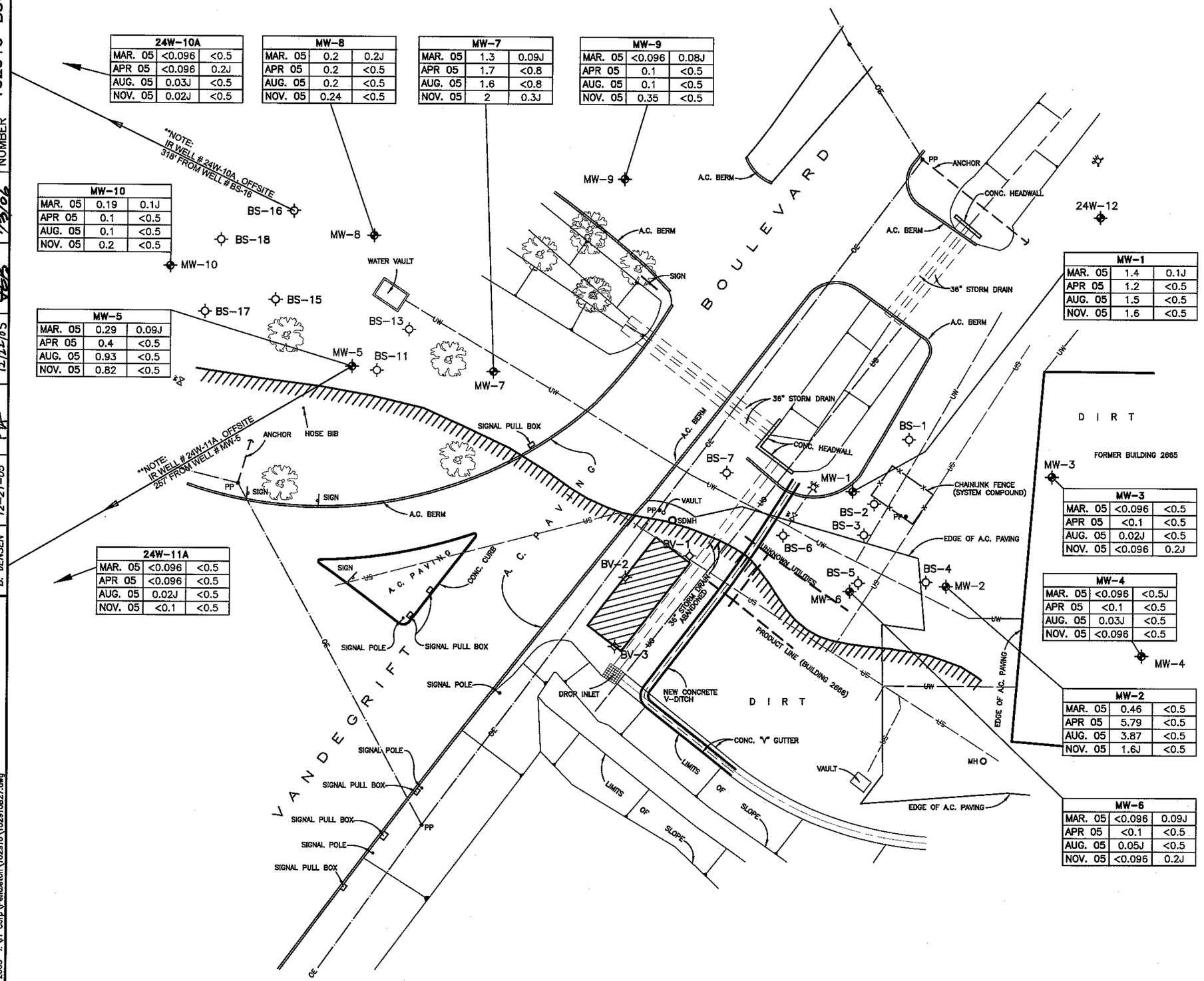


Figure 7 - Hydrograph of Groundwater Elevations
UST Site 2666
Groundwater Elevation (ft msl)
113.00
111.00
109.00
107.00
105.00
103.00
101.00
99.00
97.00
95.00
93.00
91.00
89.00
87.00
85.00
7/1/1998
10/9/1998
1/17/1999
4/27/1999
8/5/1999
11/13/1999
2/21/2000
5/31/2000
9/8/2000
12/17/2000
3/27/2001
7/5/2001
10/13/2001
1/21/2002
5/1/2002
8/9/2002
11/17/2002
2/25/2003
6/5/2003
9/13/2003
12/22/2003
3/31/2004
7/9/2004
10/17/2004
1/25/2005
5/5/2005
8/13/2005
11/21/2005
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
24W10A
24W11A

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
102910-B36	1/3/06	12/22/05	12-21-05
			B. JENSEN



24W-10A		
MAR. 05	<0.096	<0.5
APR 05	<0.096	0.2J
AUG. 05	0.03J	<0.5
NOV. 05	0.02J	<0.5

MW-8		
MAR. 05	0.2	0.2J
APR 05	0.2	<0.5
AUG. 05	0.2	<0.5
NOV. 05	0.24	<0.5

MW-7		
MAR. 05	1.3	0.09J
APR 05	1.7	<0.8
AUG. 05	1.6	<0.8
NOV. 05	2	0.3J

MW-9		
MAR. 05	<0.096	0.08J
APR 05	0.1	<0.5
AUG. 05	0.1	<0.5
NOV. 05	0.35	<0.5

MW-10		
MAR. 05	0.19	0.1J
APR 05	0.1	<0.5
AUG. 05	0.1	<0.5
NOV. 05	0.2	<0.5

MW-5		
MAR. 05	0.29	0.09J
APR 05	0.4	<0.5
AUG. 05	0.93	<0.5
NOV. 05	0.82	<0.5

24W-11A		
MAR. 05	<0.096	<0.5
APR 05	<0.096	<0.5
AUG. 05	0.02J	<0.5
NOV. 05	<0.1	<0.5

MW-1		
MAR. 05	1.4	0.1J
APR 05	1.2	<0.5
AUG. 05	1.5	<0.5
NOV. 05	1.6	<0.5

MW-3		
MAR. 05	<0.096	<0.5
APR 05	<0.1	<0.5
AUG. 05	0.02J	<0.5
NOV. 05	<0.096	0.2J

MW-4		
MAR. 05	<0.096	<0.5J
APR 05	<0.1	<0.5
AUG. 05	0.03J	<0.5
NOV. 05	<0.096	<0.5

MW-2		
MAR. 05	0.46	<0.5
APR 05	5.79	<0.5
AUG. 05	3.87	<0.5
NOV. 05	1.6J	<0.5

MW-6		
MAR. 05	<0.096	0.09J
APR 05	<0.1	<0.5
AUG. 05	0.05J	<0.5
NOV. 05	<0.096	0.2J

EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- <0.096 — TPH-DIESEL CONCENTRATION (mg/L)
- <0.5 — BENZENE CONCENTRATION (µg/L)
- PP — POWER POLE
- -OE- — OVERHEAD ELECTRIC
- -UW- — UNDERGROUND WATER
- -US- — UNDERGROUND SEWER
- -UG- — UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. #30", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

Shaw Environmental, Inc.

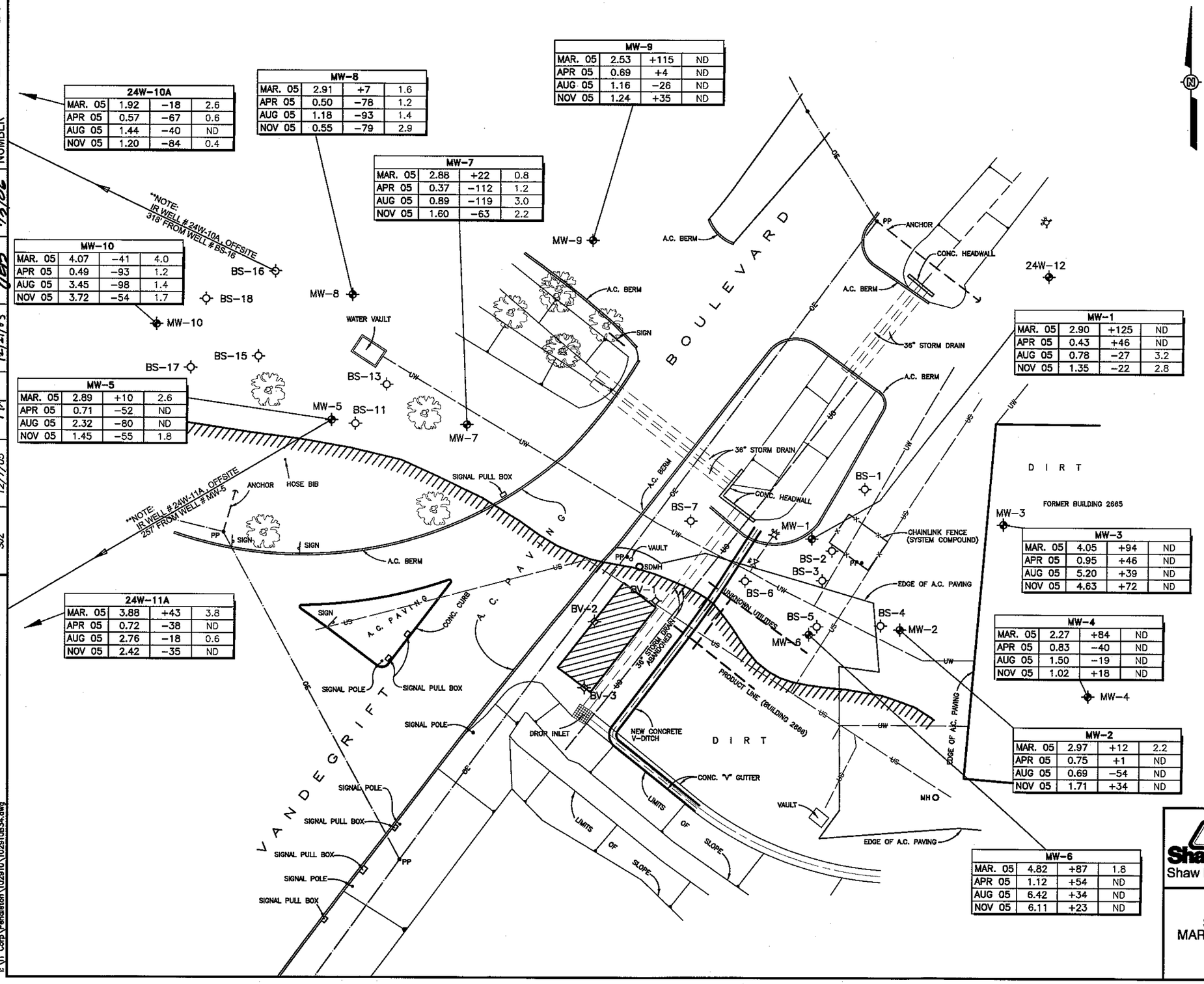
EFA WEST
CAMP PENDLETON, CALIFORNIA

FIGURE 8

CONTAMINANT CONCENTRATIONS
MARCH THROUGH NOVEMBER 2005 - UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

JUN 28, 2005 I:\IT Corp\Pendleton\102910\102910B27.dwg



24W-10A			
MAR. 05	1.92	−18	2.6
APR 05	0.57	−67	0.6
AUG 05	1.44	−40	ND
NOV 05	1.20	−84	0.4

MW-8			
MAR. 05	2.91	+7	1.6
APR 05	0.50	−78	1.2
AUG 05	1.18	−93	1.4
NOV 05	0.55	−79	2.9

MW-9			
MAR. 05	2.53	+115	ND
APR 05	0.69	+4	ND
AUG 05	1.16	−26	ND
NOV 05	1.24	+35	ND

MW-7			
MAR. 05	2.88	+22	0.8
APR 05	0.37	−112	1.2
AUG 05	0.89	−119	3.0
NOV 05	1.60	−63	2.2

MW-10			
MAR. 05	4.07	−41	4.0
APR 05	0.49	−93	1.2
AUG 05	3.45	−98	1.4
NOV 05	3.72	−54	1.7

MW-5			
MAR. 05	2.89	+10	2.6
APR 05	0.71	−52	ND
AUG 05	2.32	−80	ND
NOV 05	1.45	−55	1.8

24W-11A			
MAR. 05	3.88	+43	3.8
APR 05	0.72	−38	ND
AUG 05	2.76	−18	0.6
NOV 05	2.42	−35	ND

MW-1			
MAR. 05	2.90	+125	ND
APR 05	0.43	+46	ND
AUG 05	0.78	−27	3.2
NOV 05	1.35	−22	2.8

MW-3			
MAR. 05	4.05	+94	ND
APR 05	0.95	+46	ND
AUG 05	5.20	+39	ND
NOV 05	4.63	+72	ND

MW-4			
MAR. 05	2.27	+84	ND
APR 05	0.83	−40	ND
AUG 05	1.50	−19	ND
NOV 05	1.02	+18	ND

MW-2			
MAR. 05	2.97	+12	2.2
APR 05	0.75	+1	ND
AUG 05	0.69	−54	ND
NOV 05	1.71	+34	ND

MW-6			
MAR. 05	4.82	+87	1.8
APR 05	1.12	+54	ND
AUG 05	6.42	+34	ND
NOV 05	6.11	+23	ND

EXPLANATION

- MW-6 — EXISTING GROUNDWATER MONITORING WELL
- BV-1 — BIOVENTING WELLS USED IN FULL SCALE OPERATIONS
- BS-1 — BIOSPARGING WELLS USE IN FULL SCALE OPERATIONS
- BS-11 — BIOSPARGING WELLS USED IN PILOT STUDY (NOT CONNECTED TO SYSTEM)
- APPROXIMATE LIMIT OF INTERIM REMEDIAL ACTION EXCAVATION
- APPROXIMATE EXTENT OF UNCONFINED GROUNDWATER
- TREE
- 1.57 — DISSOLVED OXYGEN CONCENTRATION (mg/L)
- +226 — OXIDATION REDUCTION POTENTIAL (mV)
- 1.0 — FERROUS IRON CONCENTRATION (mg/L)
- PP — POWER POLE
- ND — NOT DETECTED
- -OE- — OVERHEAD ELECTRIC
- -UW- — UNDERGROUND WATER
- -US- — UNDERGROUND SEWER
- -UG- — UNDERGROUND GAS
- MH — MANHOLE
- SDMH — STORM DRAIN MANHOLE
- HYDRANT

NOTES: TOTAL DEPTH OF THE UTILITY TRENCHES IS UNKNOWN.

WELL RW-1 WAS ABANDONED IN FEBRUARY 2000.

REFERENCE:
BROWN & CALDWELL SITE ASSESSMENT REPORT, UST SITE 2666-2, JUNE 1997.

BENCHMARK:
CAMP PENDLETON N.A.D. 83 CONTROL PT. NO. 30
AN IRON ROD AND ALUMINUM CAP STAMPED "C.P. #30", 10' NORTH OF THE CENTERLINE OF A DIRT ROAD NORTH OF A 40' WIDE DRAINAGE DITCH, 250'± WEST OF SANTA MARGARITA ROAD.
N.A.V.D. 1988 ELEVATION = 104.17

SCALE
0 40 80 FEET

Shaw Environmental, Inc.

EFA WEST
CAMP PENDLETON, CALIFORNIA

FIGURE 9

SUMMARY OF FIELD MONITORING RESULTS
MARCH THROUGH NOVEMBER 2005 - UST SITE 2666

MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA

DRAWING NUMBER 102910-B34
APPROVED BY 1/3/06
CHECKED BY 12/21/05
DRAWN BY SJZ 12/7/05

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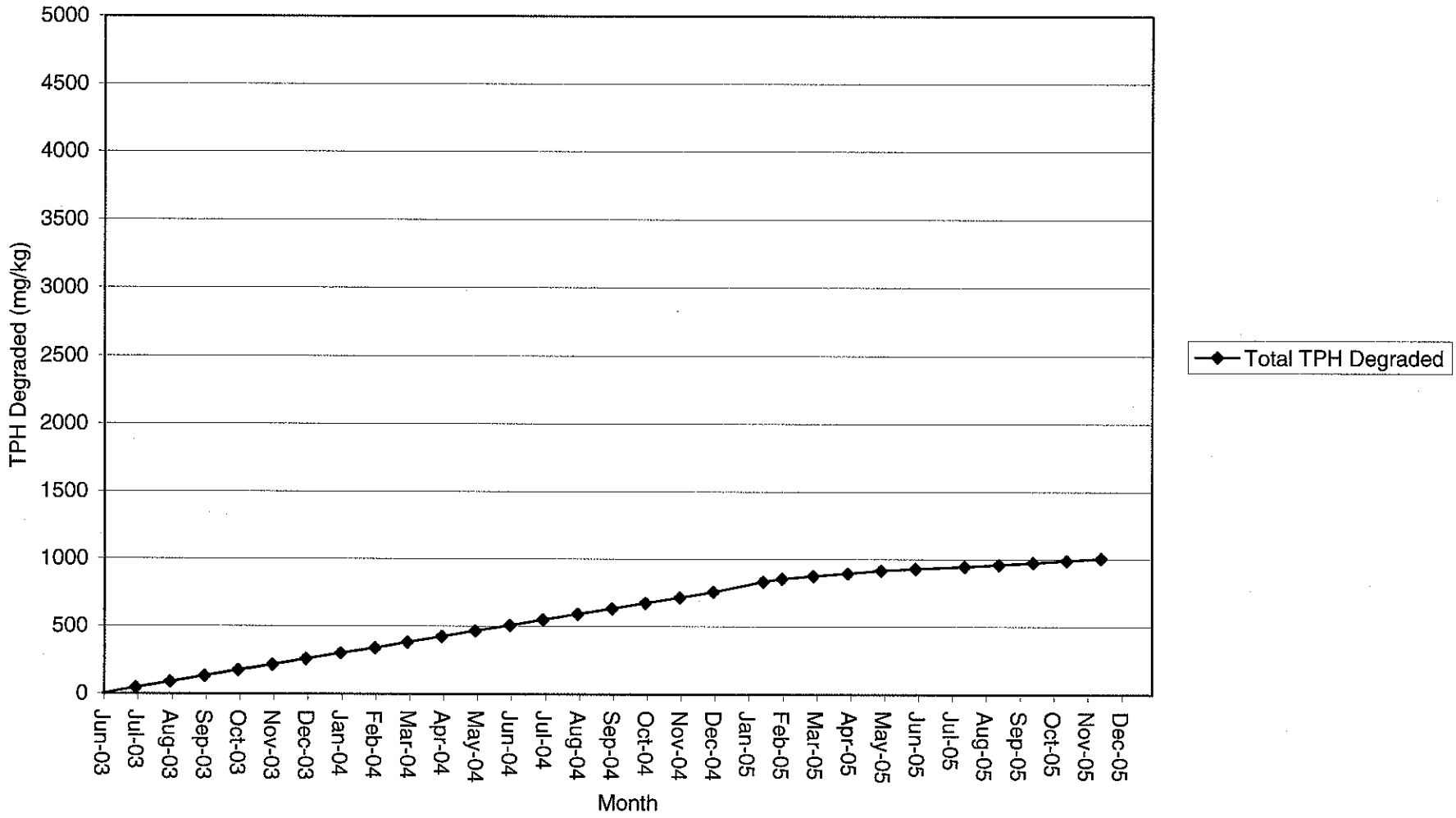
Figure 10
Total TPH Degraded in Vadose Zone
UST Site 2666



Site 2666 Depth to Water Measurements
Measurements Performed by CURILLO / WINKLER

Location ID	Date	Time	PID (ppm)	Depth to Water (ft)
	8/24/05			
2666-MW-1	8/22/05 (AW)	(AW) ~~0958~~	—	(AW) ~~15.48~~ 15.78
2666-MW-2	8/22/05	~~1003~~	—	~~18.09~~ 18.13
2666-MW-3	8/22/05	~~1008~~ 0825	—	19.93
2666-MW-4	8/22/05	~~0953~~ 0910	—	22.70
2666-MW-5	8/22/05	~~0922~~	0	(AW) ~~18.89~~ 18.91
2666-MW-6	8/22/05	~~0948~~	—	~~14.32~~ 14.77
2666-MW-7	8/25/05 ~~8/22/05~~ (AW)	~~0938~~ 1350	—	~~18.91~~ 18.96
2666-MW-8	8/24/05 ~~8/22/05~~	~~0932~~	—	~~16.51~~ 16.57
2666-MW-9	8/22/05	~~1022~~ 1020	—	14.68
2666-MW-10	8/22/05	~~9:08~~	3.4	(AW) ~~18.81~~ 18.88
24W10A	8/22/05	~~1027~~ 1120	—	13.50
24W11A	8/22/05	~~0948~~ 1200	—	~~22.26~~ 20.26

Comments UNABLE TO ZERO PID AFTER MW-5

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 023
Sample No.: 102910- 0186 A

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-1
Date and Time Collected: 8-23-05 1210
Sample Collected by: CIRILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: A
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 50 ~~500~~ (ON) ml/min. (VOA) 150 ~~250~~ (ON) ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (DTWi) (ft): 15.49
Depth to Water - Final (ft): 16.09
Depth to Well Bottom (ft): 34.10
Screen Interval (ft): 15.0 - 34.1

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 15.79
Approximate depth of pump* (ft): (ON) ~~25~~ 25
Length of tubing (ft): 35.0

PID Reading (ppm): 13.5
Ferrous Iron (mg/L): 3.2

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): (None) N S E W NE NW SE SW Ambient Air Temp. (°F): 75
Weather Conditions: OVERCAST

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	<10	± 10%	± 1%	± 10%
1140	15.49	0	--	--	--	--	--	--
1144	15.72	0.4	23.19	0.943	1.46	-35	6.12	1.68
1147	15.89	0.8	23.13	0.942	2.47	-42	5.97	0.73
1151	15.98	1.2	23.64	0.943	2.10	-45	5.96	0.56
1155	16.00	1.4	24.04	0.943	2.52	-41	5.99	0.61
1159	16.02	1.6	24.54	0.942	1.89	-31	5.97	0.79
1202	16.04	1.75	25.21	0.941	1.91	-27	5.94	0.85
1205	16.09	1.9	25.02	0.941	2.45	-27	5.91	0.78

50 ml/min

Total Volume Purged (liters): 1.9 End Purge Time (min.): 1205

Total Purge Time (min.): 25

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

TRIED REDUCING FLOWRATE FURTHER BUT NOT ENOUGH PRESSURE TO OVERCOME HEAD PRESSURE.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 022
Sample No.: 102910- 0188

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-2
Date and Time Collected: 8-23-05 1350
Sample Collected by: CARILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: B
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 150 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 18.09 ~~18.09~~ ~~18.12~~
Depth to Water - Final (ft): 18.48
Depth to Well Bottom (ft): 35.40
Screen Interval (ft): 15.0 - 35.4

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): ~~18.39~~ 18.39
Approximate depth of pump* (ft): 25
Length of tubing (ft): 36.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions: CLEAR

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
~~1310~~ 1336	18.09	0	--	--	--	--	--	--
1340	18.33	0.4	25.37	2.47	1.69	-38	5.98	2.80
1343	18.40	0.7	26.67	2.46	1.30	-50	5.99	1.73
1346	18.45	1.0	27.13	2.47	0.93	-51	5.99	0.77
1349	18.48	1.3	27.50	2.46	1.51	-54	5.99	0.69

Total Volume Purged (liters): 1.3 End Purge Time (min.): 1349

Total Purge Time (min.): 13

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

1315 LEFT FOR TRAILER TO RE-CHARGE COMPRESSOR
1330 BACK AT SITE

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910-023
Sample No.: 102910-0191
-0192 DUP

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-3
Date and Time Collected: 8-24-05 0845 0850 Dup
Sample Collected by: CIRILLO/WINGLOX

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: A
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 19.98
Depth to Water - Final (ft): 20.13
Depth to Well Bottom (ft): 35.60
Screen Interval (ft): 15.0 - 35.6

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 20.28
Approximate depth of pump* (ft): 25
Length of tubing (ft): 36.0
PID Reading (ppm): ~~0~~ 368
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): (None) N S E W NE NW SE SW Ambient Air Temp. (°F): 65
Weather Conditions: OVERCAST

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
0828	19.98	0	--	--	--	--	--	--
0831	20.12	0.3	22.05	1.1111	0.01	65	6.42	6.32
0834	20.13	0.6	22.04	1.1112	0.22	58	6.43	5.81
0839	20.13	0.9	22.05	1.1113	0.37	44	6.44	5.28
0840	20.13	1.2	21.96	1.1114	—	41	6.45	5.34
0843	20.13	1.5	21.94	1.1113	0.98	39	6.46	5.20

Total Volume Purged (liters): 1.5 End Purge Time (min.): 0843

Total Purge Time (min.): 15

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 023
Sample No.: 102910- 0193

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-4
Date and Time Collected: 8-29-05 0940
Sample Collected by: CIRILLO/WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: B
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 22.78
Depth to Water - Final (ft): 22.51
Depth to Well Bottom (ft): 42.90
Screen Interval (ft): 15.0 - 42.9

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 23.08
Approximate depth of pump* (ft): 30
Length of tubing (ft): 43.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW
Ambient Air Temp. (°F): ~~65~~ 75
Weather Conditions: OVERCAST

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
0916	22.78	0	--	--	--	--	--	--
0919	22.81 ~~21.60~~	0.3	21.60	1.483	0.87	20	6.56	3.49
0922	22.81	0.6	21.50	1.488	0.61	3	6.53	2.04
0925	22.81	0.9	21.61	1.488	—	-5	6.54	1.85
0929	22.81	1.3	22.24	1.488	0.54	-16	6.59	1.58
0932	22.81	1.6	22.58	1.487	—	-18	6.56	1.52
0935	22.81	1.9	22.55	1.487	1.89	-19	6.54	1.50

Total Volume Purged (liters): 1.9
End Purge Time (min.): 0935
Total Purge Time (min.): ~~195~~ 19

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910-022
Sample No.: 102910-0185A

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-5
Date and Time Collected: 8-23-05 1000
Sample Collected by: CIRILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: B
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 18.93
Depth to Water - Final (ft): 19.28
Depth to Well Bottom (ft): 37.40
Screen Interval (ft): 15.0 - 37.4

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 19.23
Approximate depth of pump* (ft): 25
Length of tubing (ft): 38.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 70
Weather Conditions: OVERCAST

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
0940	19.93	0	--	--	--	--	--	--
0943	19.05	0.3	21.71	5.78	1.52	-18	6.39	4.63
0947	19.17	0.7	21.62	5.77	0.89	-61	6.34	3.29
0950	—	1.0	21.62	5.74	0.49	-73	6.33	2.85
0953	19.25	1.3	21.65	5.73	—	-76	6.32	2.61
0956	19.28	1.6	21.68	5.71	0.65	-80	6.33	2.32

Total Volume Purged (liters): 1.6 End Purge Time (min.): 0956

Total Purge Time (min.): 16

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 022
Sample No.: 102910- 0187

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-6
Date and Time Collected: 8-23-05 1245
Sample Collected by: CIRILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15
Pump ID #: B e
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)

Note: Flow rate for VOAs should be no greater than 100 ml/minute.

Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (DTWi) (ft): 14.34
Depth to Water - Final (ft): 14.76
Depth to Well Bottom (ft): 28.50
Screen Interval (ft): 15.0 - 28.5

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 14.74
Approximate depth of pump* (ft): 25
Length of tubing (ft): 29.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W (NE) NW SE SW
Ambient Air Temp. (°F): 80
Weather Conditions: CLEAR

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1232	14.34	0	--	--	--	--	--	--
1235	14.51	0.3	24.62	1.166	—	43	6.94	5.72
1238	14.62	0.6	24.63	1.165	5.63	~~39~~ 40	5.73	6.94
1241	14.71	0.9	24.77	1.165	6.65	37	5.75	6.77
1244	14.76	1.2	25.13	1.167	6.77	34	5.79	6.42

JAL 8/23/05

Total Volume Purged (liters): 1.2
End Purge Time (min.): 1244
Total Purge Time (min.): 12

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 024
Sample No.: 102910- 0208

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-7
Date and Time Collected: 8-25-05 1415
Sample Collected by: CURILLO/WINTGLOW

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: A
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 19.00
Depth to Water - Final (ft): 19.50
Depth to Well Bottom (ft): 28.50
Screen Interval (ft): 15.0 - 28.5

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 19.30
Approximate depth of pump* (ft): 22
Length of tubing (ft): 31.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 3.0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W (NE) NW SE SW Ambient Air Temp. (°F): 90
Weather Conditions: CLEAR

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1354	19.00	0	--	--	--	--	--	--
1357	19.10	0.3	25.80	4.90	2.67	-99	6.03	2.25
1400	19.13	0.6	27.29	4.90	—	-92	6.06	2.47
1403	19.26	0.9	25.04	4.91	1.08	-99	6.03	1.83
1406	19.31	1.2	24.30	4.90	—	-119	6.01	1.28
1409	19.37	1.5	24.13	4.90	—	-118	6.02	1.11
1412	19.50	1.8	24.17	4.89	1.98	-119	6.03	0.89

Total Volume Purged (liters): 1.8 End Purge Time (min.): 1412

Total Purge Time (min.): 18

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

COULDN'T REDUCE FLOW BELOW 100 ml/min

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910-022
Sample No.: 102910-0184A

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-8
Date and Time Collected: 8-23-05 0905
Sample Collected by: CIRILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: C
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 16.53
Depth to Water - Final (ft): 16.99
Depth to Well Bottom (ft): 27.00
Screen Interval (ft): 15.0 - 27.0

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 16.83
Approximate depth of pump* (ft): 22
Length of tubing (ft): 30.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 1.4

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): (None) N S E W NE NW SE SW Ambient Air Temp. (°F): 70
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	<10	± 10%	± 1%	± 10%
0845	16.53	0	--	--	--	--	--	--
0848	16.73	0.3	19.36	5.26	7.88	-34	6.62	2.49
0852	16.89	0.7	19.31	5.15	3.83	-74	6.64	1.56
0855	16.98	1.0	19.33	5.03	3.04	-88	6.64	0.62
0858	16.98	1.15	19.33	4.99	2.25	-93	6.65	1.32
0901	16.99	1.3	19.37	4.94	2.27	-93	6.66	1.18

50 ml/min

Total Volume Purged (liters): 1.3
End Purge Time (min.): 0901
Total Purge Time (min.): 16

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910-23
Sample No.: 102910-0194

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-9
Date and Time Collected: 8-24-05 1045
Sample Collected by: CIRILLO / WINKLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: A
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 14.72
Depth to Water - Final (ft): 14.77
Depth to Well Bottom (ft): 30.10
Screen Interval (ft): 15.0 - 30.1

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 15.02
Approximate depth of pump* (ft): 22
Length of tubing (ft): 31.0
PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions: clear

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1023	14.72	0	--	--	–	--	--	--
1026	14.78	0.3	25.05	0.656	0.46	9	6.03	2.99
1031	14.78	0.8	24.62	0.656	0.62	-11	5.95	1.69
1034	14.78	1.1	24.85	0.656	0.48	-17	5.94	1.55
1037	14.79	1.4	24.82	0.656	0.52	-22	5.95	1.41
1040	—	1.7	24.90	0.652	—	-24	5.96	1.28
1043	14.77	2.0	25.16	0.655	0.18	-26	5.95	1.15

Total Volume Purged (liters): 2.0
End Purge Time (min.): 1043
Total Purge Time (min.): 20

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910-021 A
Sample No.: 102910- 018DA

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-10
Date and Time Collected: 8/22/05 1215
Sample Collected by: CURILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15
Pump ID #: A
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)

Note: Flow rate for VOAs should be no greater than 100 ml/minute.

Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 18.81
Depth to Water - Final (ft):
Depth to Well Bottom (ft): 33.24
Screen Interval (ft): 15.0 - 33.2

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): ~~18.95~~ ~~20.11~~ 19.11
Approximate depth of pump* (ft): 22
Length of tubing (ft): 34.0

PID Reading (ppm): —
Ferrous Iron (mg/L): 1.4

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW
Ambient Air Temp. (°F): 85
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1156	18.95	0	--	--	--	--	--	--
1201	19.07	0.5	22.63	1.263	0.99	-85	6.49	3.45
1204	19.10	0.8	22.99	1.263	1.26	-95	6.44	3.70
1207	19.10	1.1	23.21	1.262	0.72	-99	6.43	3.40
1210	19.12	1.4	23.46	1.262	0.63	-98	6.42	3.45

Total Volume Purged (liters): 1.4
End Purge Time (min.): 1210
Total Purge Time (min.): 14

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 23
Sample No.: 102910-0195

Site Location: Camp Pendleton MCB
Well ID: 24W10A
Date and Time Collected: 8-24-05 1145
Sample Collected by: CHRISTO / WINSLOW

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: A
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 50 ml/min. (VOA) 100 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 12.94
Depth to Water - Final (ft): 13.47
Depth to Well Bottom (ft): 29.00
Screen Interval (ft): 9.0 - 29.0

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 13.24
Approximate depth of pump* (ft): 20-25
Length of tubing (ft): 34.0

PID Reading (ppm): —
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions: clear

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1125	12.94	0	--	--	–	--	--	--
1128	13.26	0.3	22.27	1.139	158	+140	6.97	3.52
1131	13.31	0.45	22.82	1.146	10.26	-36	6.90	2.35
1135	13.36	0.65	23.32	1.148	9.25	-42	6.83	1.76
1138	13.41	0.8	23.45	1.148	—	-42	6.79	1.56
1141	13.47	0.95	23.27	1.148	9.34	-40	6.78	1.44

50 ml/min

Total Volume Purged (liters): 0.95 End Purge Time (min.): 1141
Total Purge Time (min.): 16

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

UNABLE TO REDUCE FLOW TO < ~50 ml/MIN.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 23
Sample No.: 102910- 0196

Site Location: Camp Pendleton MCB
Well ID: 24W11A
Date and Time Collected: 8-24-05 1240
Sample Collected by: CIRILLO / WINGLER

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: B
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 20.28
Depth to Water - Final (ft): 20.37
Depth to Well Bottom (ft): 30.68
Screen Interval (ft): 9.0 - 30.6

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 20.58
Approximate depth of pump* (ft): 25
Length of tubing (ft): 31.0
PID Reading (ppm): —
Ferrous Iron (mg/L): 0.6

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 85
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1205	20.28	0	--	--	--	--	--	--
1208	20.33	0.3	25.92	6.87	42.1	36	5.95	4.18
1211	20.33	0.6	25.69	6.93	27.1	29	5.97	3.45
1214	20.33	0.9	25.51	6.94	26.5	24	5.95	3.11
1217	—	1.2	25.54	6.93	20.1	21	5.96	2.95
1220	20.34	1.5	25.67	6.93	20.4	19	5.96	2.78
1223	20.36	2.1	25.49	6.93	19.6	18	5.96	2.72
1230	—	2.5	25.47	6.93	19.2	18	5.96	2.75
1235	20.37	3.0	25.24	6.93	17.6	18	5.94	2.76

Total Volume Purged (liters): 3.0 End Purge Time (min.): 1235
Total Purge Time (min.): 30

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

Site 2666 Depth to Water Measurements
Measurements Performed by CIRILLO / LIND

Location ID	Date	Time	PID (ppm)	Depth to Water (ft)
2666-MW-1	11/2/05	0817	0	16.68
2666-MW-2		0819	0	20.11
2666-MW-3		0821	0	21.91
2666-MW-4		0823	0	24.70
2666-MW-5		1430	0	19.83
2666-MW-6		0825	0	17.42
2666-MW-7		1420	0	20.11
2666-MW-8	11/3/05	~~0800~~ ~~1620~~ 1BC	0	17.76*
2666-MW-9	11/2/05	(A) ~~16.29~~ 1408	0	16.29
2666-MW-10		1620	0	19.70
24W10A		1630	0	13.21
24W11		1640	0	20.35

← 16.68

Comments * WATER LEVEL NOT OPERATING ~~PROPERLY~~ CONSISTENTLY ON 11/2/05 AND GAVE FAULTY READING FOR MW-8 (23.74').

11/9/05

DUP

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 0227
Sample No.: 102910- 0227
- 0228 Dup

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-1
Date and Time Collected: 11/2/05 0925 DUP = 0930
Sample Collected by: CIRILLO/LIND

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (DTWi) (ft): 16.68
Depth to Water - Final (ft): 17.00
Depth to Well Bottom (ft): 34.10
Screen Interval (ft): 15.0 - 34.1

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 16.98
Approximate depth of pump* (ft): 25
Length of tubing (ft): 35.0
PID Reading (ppm): 0
Ferrous Iron (mg/L): 2.8

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): (None) N S E W NE NW SE SW Ambient Air Temp. (°F): 70
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
0908	16.68	0	--	--	--	--	--	--
0911	16.91	0.3	22.49	0.978	1.3	-26	6.23	1.42
0914	16.94	0.6	22.44	0.962	1.5	-26	6.17	1.30
0917	16.96	0.9	22.53	0.942	–	-21	6.16	1.38
0920	16.98	1.2	22.63	0.937	1.2	-21	6.17	1.36
0923	17.00	1.5	22.69	0.934	0.70	-22	6.17	1.35

Total Volume Purged (liters): 1.5 End Purge Time (min.): 0923

Total Purge Time (min.): 15

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

MS/MSD

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 027
Sample No.: 102910- 0230

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-2
Date and Time Collected: 11/2/05 ~~1055~~ 1050
Sample Collected by: CIRILLO/LIND

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 20.04
Depth to Water - Final (ft): 20.36
Depth to Well Bottom (ft): 35.40
Screen Interval (ft): 15.0 - 35.4

Drawdown depth limit (DDL) = DTW + 0.3 (ft): 20.34
Approximate depth of pump* (ft): 25
Length of tubing (ft): 36.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1042	20.04	0	--	--	--	--	--	--
1045	20.28	0.3	24.52	2.37	0.5	29	6.38	1.94
1048	20.30	0.6	24.83	2.38	0.5	31	6.37	1.88
1051	20.32	0.9	25.02	2.37	—	33	6.36	1.82
1054	20.36	1.2	25.01	2.37	0.25	34	6.36	1.71

Total Volume Purged (liters): 1.2
End Purge Time (min.): 1054
Total Purge Time (min.): 12

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 027
Sample No.: 102910- 0231

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-3
Date and Time Collected: 11/2/05 1255
Sample Collected by: [illegible]

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 200 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 21.88
Depth to Water - Final (ft): 21.94
Depth to Well Bottom (ft): 35.60
Screen Interval (ft): 15.0 - 35.6

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 22.18
Approximate depth of pump* (ft): 25
Length of tubing (ft): 36.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W (NE) NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1240	21.88	0	--	--	–	--	--	--
1244	22.00	0.4	23.56	1.170	0	70	6.53	4.79
1247	21.98	0.7	24.06	1.171	0	73	6.42	4.72
1250	21.95	1.0	24.42	1.169	0	74	6.39	4.70
1253	21.94	1.3	24.72	1.173	0	72	6.37	4.63

Total Volume Purged (liters): 1.3 End Purge Time (min.): 1253

Total Purge Time (min.): 13

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 027
Sample No.: 102910- 0232

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-4
Date and Time Collected: 11/2/05 1340
Sample Collected by: CIRILLO / LIND

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 24.68
Depth to Water - Final (ft): 24.69
Depth to Well Bottom (ft): 42.90
Screen Interval (ft): 15.0 - 42.9

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 24.98
Approximate depth of pump* (ft): 33
Length of tubing (ft): 43.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1327	24.68	0	--	--	--	--	--	--
1331	24.69	0.4	22.17	1.70	0	16	6.51	1.05
1334	24.69	0.7	23.06	1.70	0.05	16	6.49	0.99
1337	24.69	1.0	23.05	1.70	–	18	6.48	1.02

Total Volume Purged (liters): 1.0 End Purge Time (min.): 1337

Total Purge Time (min.): 10

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 028
Sample No.: 102910-0239

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-5
Date and Time Collected: 11/3/05 0905
Sample Collected by: [illegible]

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 19.97
Depth to Water - Final (ft): 20.19
Depth to Well Bottom (ft): 37.40
Screen Interval (ft): 15.0 - 37.4

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 20.27
Approximate depth of pump* (ft): 28
Length of tubing (ft): 38.0
PID Reading (ppm): 0
Ferrous Iron (mg/L): 1.8

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 70
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
0851	19.97	0	--	--	--	--	--	--
0855	20.12	0.4	21.17	6.35	0.15	-46	6.39	3.85
0859	20.16	0.8	20.97	6.35	0.50	-48	6.44	2.29
0903	20.19	1.2	21.05	6.37	0	-55	6.52	~~2.24~~ 1.45

Total Volume Purged (liters): 1.2
End Purge Time (min.): 0903
Total Purge Time (min.): 12

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910-027
Sample No.: 102910-0229

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-6
Date and Time Collected: 11/2/05 1015
Sample Collected by: CIRILLO/LINDS

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (DTWi) (ft): 17.34
Depth to Water - Final (ft): _____
Depth to Well Bottom (ft): 28.50
Screen Interval (ft): 15.0 - 28.5

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 17.64
Approximate depth of pump* (ft): 21
Length of tubing (ft): 29.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): (None) N S E W NE NW SE SW Ambient Air Temp. (°F): 70
Weather Conditions: _____

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1005 ~~0954~~ ~~0957~~	17.34	0	--	--	--	--	--	--
1008	17.68	0.3	24.37	1.154	3.8	19	5.91	6.17
1011	17.73	0.6	24.46	1.154	~	21	5.91	6.13
1014	17.79	0.9	24.48	1.154	6.4	23	5.91	6.11
			JAC	11/2/05				

Total Volume Purged (liters): _____ End Purge Time (min.): _____

Total Purge Time (min.): _____

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 028
Sample No.: 102910- 0240

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-7
Date and Time Collected: 11/3/05 1020
Sample Collected by: CIRILLO/MND

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 20.19
Depth to Water - Final (ft): 20.46
Depth to Well Bottom (ft): 28.50
Screen Interval (ft): 15.0 - 28.5

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 20.49
Approximate depth of pump* (ft): 22
Length of tubing (ft): 31.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 2.2

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 70
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	±10%	±5%	<10	±10%	±1%	±10%
1005	20.19	0	--	--	--	--	--	--
1008	20.37	0.3	21.54	6.17	5.8	-57	6.45	1.73
1011	20.40	0.6	21.61	6.16	1.1	-62	6.35	1.55
1014	20.44	0.9	21.99	6.15	—	-64	6.31	1.56
1017	20.46	1.2	22.30	6.13	0.75	-63	6.28	1.60

Total Volume Purged (liters): 1.2
End Purge Time (min.): 1017
Total Purge Time (min.): 12

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name:	Site 2666	Site Location:	Camp Pendleton MCB
Project No.:	102910	Well ID:	2666-MW-8
Chain-of-Custody Control No.:	CP-102910- 028	Date and Time Collected:	11/3/05 0830
Sample No.:	102910- 0238	Sample Collected by:	CIRILLO/LINN

EQUIPMENT

Purging Method/Equipment: Micropurge

Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____

Flow Rate During Purging : 100 ml/min.

Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)

Note: Flow rate for VOAs should be no greater than 100 ml/minute.

Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing

Casing ID (in.): 4"

Depth to Water - Initial (ft): 17.76

Depth to Water - Final (ft): _____

Depth to Well Bottom (ft): 27.00

Screen Interval (ft): 15.0 - 27.0

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 18.06

Approximate depth of pump* (ft): 22

Length of tubing (ft): 30.0

PID Reading (ppm): 0

Ferrous Iron (mg/L): 2.9

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): (None) N S E W NE NW SE SW Ambient Air Temp. (°F): 65

Weather Conditions: _____

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
0807	17.76	0	--	--	--	--	--	--
0810	18.02	0.3	19.23	6.65	12	-39	6.49	1.28
0813	18.07	0.6	19.00	6.67	12	-46	6.44	1.07
0816	18.21	0.9	19.34	6.58	9.8	-65	6.41	0.76
0821	18.34	1.4	19.38	6.27	8.6	-75	6.41	0.60
0824	18.42	1.7	19.35	6.09	—	-77	6.41	0.57
0827	18.51	2.0	19.36	5.98	7.6	-79	6.41	0.55

Total Volume Purged (liters): 2.0 End Purge Time (min.): 0827

Total Purge Time (min.): 20

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

UNABLE TO REDUCE FLOW RATE SUFFICIENTLY W/OUT LOSING PRESSURE TO FORCE WATER TO SURFACE

Dup

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 027
Sample No.: 102910- 0233
-0234 Dup

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-9
Date and Time Collected: 11/2/05 1450 Dup - 1455
Sample Collected by: CHW/LKD

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15
Pump ID #:
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 16.29
Depth to Water - Final (ft): 16.34
Depth to Well Bottom (ft): 30.10
Screen Interval (ft): 15.0 - 30.1

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 16.59
Approximate depth of pump* (ft): 22
Length of tubing (ft): 31.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW
Ambient Air Temp. (°F): 75
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	±5%	<10	± 10%	± 1%	± 10%
1435	16.29	0	--	--	--	--	--	--
1438	16.37	0.3	23.39	0.739	0	24	5.95	1.84
1441	16.36	0.6	23.35	0.746	0.10	39	5.92	1.57
1444	16.36	0.9	23.12	0.747	0.20	37	5.88	1.36
1447	16.34	1.2	23.09	0.748	0	35	5.87	1.24

Total Volume Purged (liters): _____
End Purge Time (min.): _____
Total Purge Time (min.): _____

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 028
Sample No.: 102910- 0241

Site Location: Camp Pendleton MCB
Well ID: 2666-MW-10
Date and Time Collected: 11/3/05 1120
Sample Collected by: CIRILLO/LIND

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): 19.68
Depth to Water - Final (ft): 20.14
Depth to Well Bottom (ft): 33.24
Screen Interval (ft): 15.0 - 33.2

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 19.98
Approximate depth of pump* (ft): 24
Length of tubing (ft): 34.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 1.7

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 75
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1103	19.68	0	--	--	--	--	--	--
1107	20.11	0.7	21.31	11.52	1.6	-65	6.17	2.56
1115	19.98	1.5	22.22	11.51	—	-60	6.22	3.27
1118	20.14	1.8	22.12	11.51	1.4	-54	6.25	3.72
				11/3/05				

Total Volume Purged (liters): 1.8
End Purge Time (min.): 1118
Total Purge Time (min.): 18

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name: Site 2666
Project No.: 102910
Chain-of-Custody Control No.: CP-102910- 028
Sample No.: 102910- 0242

Site Location: Camp Pendleton MCB
Well ID: 24W10A
Date and Time Collected: 11/3/05 1310
Sample Collected by: CIRILLO/LIND

EQUIPMENT

Purging Method/Equipment: Micropurge
Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____
Flow Rate During Purging : 100 ml/min.
Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)
Note: Flow rate for VOAs should be no greater than 100 ml/minute.
Daily field instrument calibration verification performed? Yes ✓ No ___

PURGING INFORMATION

Measuring Point: Top of Casing
Casing ID (in.): 4"
Depth to Water - Initial (ft): ~~12.92~~ 13.14
Depth to Water - Final (ft): 13.59
Depth to Well Bottom (ft): 29.00
Screen Interval (ft): 9.0 - 29.0

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): ~~13.22~~ 13.44 (DW)
Approximate depth of pump* (ft): 24
Length of tubing (ft): 34.0

PID Reading (ppm): 0
Ferrous Iron (mg/L): 0.4

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 80
Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	--	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1254	~~12.92~~ 13.14	0		--	-	--	7.52	2.52
1257	~~13.13~~ 13.25	0.3	~~20.97~~ 21.13	1.359	13	-68	~~7.88~~	~~8.58~~ (DW)
1301	~~13.21~~ 13.43	0.7	21.61	1.342	9.7	-76	6.99	1.76
1304	13.57	1.0	20.97	1.332	-	-85	6.84	1.14
1307	13.59	1.3	20.97	1.331	6.2	-84	6.77	1.20

Total Volume Purged (liters): 1.3 End Purge Time (min.): 1307

Total Purge Time (min.): 13

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

GROUND WATER SAMPLE COLLECTION LOG

Project Name:	Site 2666	Site Location:	Camp Pendleton MCB
Project No.:	102910	Well ID:	24W11A
Chain-of-Custody Control No.:	CP-102910- 028	Date and Time Collected:	11/3/05 1425
Sample No.:	102910- 0243	Sample Collected by:	CIRILLO/LIND

EQUIPMENT

Purging Method/Equipment: Micropurge

Sampling Equipment/ID No.: QED Model MP20+MP15 Pump ID #: _____

Flow Rate During Purging : 100 ml/min.

Flow Rate During Sampling: 100 ml/min. (VOA) 250 ml/min. (SVOA/inorganics)

Note: Flow rate for VOAs should be no greater than 100 ml/minute.

Daily field instrument calibration verification performed? Yes X No ___

PURGING INFORMATION

Measuring Point: Top of Casing

Casing ID (in.): 4"

Depth to Water - Initial (ft): 20.34

Depth to Water - Final (ft): 20.40

Depth to Well Bottom (ft): 30.68

Screen Interval (ft): 9.0 - 30.6

Drawdown depth limit (DDL) = DTWi + 0.3 (ft): 20.64

Approximate depth of pump* (ft): 25

Length of tubing (ft): 31.0

PID Reading (ppm): 0

Ferrous Iron (mg/L): –

FIELD CONDITIONS

Direction Wind Moving Toward (circle one): None N S E W NE NW SE SW Ambient Air Temp. (°F): 75

Weather Conditions:

Time	Depth to Water (Ft)	Vol. Purged (liters)	Temp. (°C)	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	pH	DO (mg/L)
Purge Equilibrium Limits	DDL =	–	± 10%	± 5%	< 10	± 10%	± 1%	± 10%
1351	20.34	0	--	--	--	--	--	--
1354	20.41	0.3	23.76	8.21	80	-7	5.80	4.13
1357	20.42	0.6	23.53	8.27	65	-19	5.77	3.09
1400	20.42	0.9	23.65	8.28	45	-24	5.76	2.84
1403	20.42	1.2	23.64	8.28	34	-26	5.76	2.71
1409	20.42	1.8	23.63	8.28	26	-29	5.76	2.57
1413	20.42	2.2	23.70	8.28	23	-32	5.76	2.51
1418	20.40	2.7	23.56	8.29	20	-35	5.76	2.45
1421	20.40	3.0	23.62	8.27	19	-35	5.76	2.42

Total Volume Purged (liters): 3.0 End Purge Time (min.): 141

Total Purge Time (min.): 30

SAMPLE PACKAGING

Container(s) Type and Volume	No. of Containers	Filtered (Y/N)	Preservatives	Parameters
40 ml VOA Vials	3	N	HCl, 4 +/- 2°C	8021B-BTEX
1 Liter amber	2	N	4 +/- 2°C	M8015 -TPH Diesel
500 mL HDPE	1	N	4 +/- 2°C	300.0 - Sulfate, 310.1 - Alkalinity
500 mL HDPE	1	N	H_2SO_4, 4 +/- 2°C	353.3 - Nitrate/Nitrite as N
40 ml VOA Vials	3	N	4 +/- 2°C	RSK175M - Dissolved Methane

* If the water level is *above* the top of the screen, the pump should be set at the approximate mid-point of the well screen. However, if the water level is *below* the top of the screen, set the pump between the water level and the bottom of the screen. ** Note: If there is less than 1.5ft of water, the well should be considered dry.

ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
12/14/05	1030	Bruce DenHartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	ok
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	43517	13	Air Filter (Checked Or Replaced):	ok
3	Line Ball Valve Operation Checked:	ok	14	Pad Cleaned (Yes/No):	ok
4	Solenoid Operation Checked (Yes/No):	ok	15	Fence Integrity Checked (Yes/No):	ok
5	Checked For Leaks In Piping (Yes/No):	ok	16	Eyewash Station Water Checked (Yes/No):	ok
6	Timer and Timer Motors Checked:	ok (1)	17	Fire Extinguisher Inspected (Yes/No):	ok
7	Compressor Run Time (Hours); (Initial Counter Reading: 213.65 hrs)	11469.45	18	Well Vaults Cleaned (Yes/No):	ok
8	Regulator Pressure (psig):	18	19	Debris In Wells-field Cleaned (Yes/No):	ok
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	*			
11	Pressure Safety Valve Operation:	ok			

Comments: need to check variation of compressor run time over past couple of weeks (make sure timer working properly.
* system still unable to cycle
(1) opened BV-1 and BV-2 for the upcoming respiration test

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-5
Line Gauge Pressure (psig) P_1	17
Pressure Correction Factor F_1	5.630
Line Gauge Temperature (F) T1	70
Temperature Correction Factor F_2	23.02
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	7
Calculated Standardized Flow	7.30

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

	Date	Time	Technician
12	9/15/05	0800	P CHANG
		855 leave	

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	ok	12	Aftercooler Fine (Checked or Cleaned):	fine
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	43399	13	Air Filter (Checked Or Replaced):	fine
3	Line Ball Valve Operation Checked:	ok	14	Pad Cleaned (Yes/No):	Yes
4	Solenoid Operation Checked (Yes/No):	Yes	15	Fence Integrity Checked (Yes/No):	Yes
5	Checked For Leaks In Piping (Yes/No):	Yes	16	Eyewash Station Water Checked (Yes/No):	Yes
6	Timer and Timer Motors Checked:	Yes	17	Fire Extinguisher Inspected (Yes/No):	Yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	11420.8	18	Well Vaults Cleaned (Yes/No):	No
8	Regulator Pressure (psig):	22	19	Debris In Wells-field Cleaned (Yes/No):	No
9	Condensate Drained Manually (Yes/No):	Yes			
10	Tank Pressurization Cycles Verified:	Yes			
11	Pressure Safety Valve Operation:	Yes			

Comments:

System Data Collection

BS-2

Current Line In Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	
Line Gauge Pressure (psig) P_1	16
Pressure Correction Factor F_1	5.541
Line Gauge Temperature (F) T1	62
Temperature Correction Factor F_2	22.8
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	7
Calculated Standardized Flow	7.25

Equation for Standardizing Flow ; Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
11-29-05	11:45	Bruce

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 6600)	43326	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.55 hrs)	1139.92	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	20 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit is cycled off on Tues.

11/30/05 8:37AM Mindy

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	N/A	BS-3
Line Gauge Pressure (psig) P_1	20 PSI	18
Pressure Correction Factor F_1	5.891	5.718
Line Gauge Temperature (F) T1	90°	60
Temperature Correction Factor F_2	23.5	22.8
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	N/A	8
Calculated Standardized Flow		8.55

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
11/22/05	0915	M Mathias

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	ok	12	Aftercooler Fine (Checked or Cleaned):	ok
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	43219	13	Air Filter (Checked Or Replaced):	ok
3	Line Ball Valve Operation Checked:	N	14	Pad Cleaned (Yes/No):	NO
4	Solenoid Operation Checked (Yes/No):	No	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	NO	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	1137.18	18	Well Vaults Cleaned (Yes/No):	NO
8	Regulator Pressure (psig):	19	19	Debris In Wells-field Cleaned (Yes/No):	NO
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	No			
11	Pressure Safety Valve Operation:	ok			

Comments: *Compressor off as scheduled, system was running ok! no alarms from previous week.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	NM *
Line Gauge Pressure (psig) P_1	
Pressure Correction Factor F_1	
Line Gauge Temperature (F) T1	
Temperature Correction Factor F_2	
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	
Calculated Standardized Flow	

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
11-14-05	8-15	Bruce/Dan Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	43117	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	1308.91	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	18 psi	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: 20 psi	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit was running on arrival. I changed the timer to one start time. I think this will control our run time more accurately.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-1
Line Gauge Pressure (psig) P_1	18 psi
Pressure Correction Factor F_1	5.718
Line Gauge Temperature (F) T1	60°
Temperature Correction Factor F_2	22.8
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	12 cfm
Calculated Standardized Flow	12.80

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
11/8/05	1:25pm	Mindy Mathias

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	ok	12	Aftercooler Fins (Checked or Cleaned):	ok
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	4268.3	13	Air Filter (Checked Or Replaced):	ok
3	Line Ball Valve Operation Checked:	ok	14	Pad Cleaned (Yes/No):	ok
4	Solenoid Operation Checked (Yes/No):	Yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	Yes	16	Eyewash Station Water Checked (Yes/No):	Yes
6	Timer and Timer Motors Checked:	ok	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	11121.73	18	Well Vaults Cleaned (Yes/No):	NO
8	Regulator Pressure (psig):	20	19	Debris in Wells-field Cleaned (Yes/No):	NO
9	Condensate Drained Manually (Yes/No):	~~No~~ Yes			
10	Tank Pressurization Cycles Verified:	*			
11	Pressure Safety Valve Operation:	ok			

Comments: * not cycling as previously observed
need to replace the regulator pressure gauge

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-16
Line Gauge Pressure (psig) P_1	14
Pressure Correction Factor F_1	5.357
Line Gauge Temperature (F) T1	75
Temperature Correction Factor F_2	23.13
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	8
Calculated Standardized Flow	7.90

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
11/3/05	1230	Mindy Mathias

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	OK	12	Aftercooler Fine (Checked or Cleaned):	Checked
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	42680	13	Air Filter (Checked Or Replaced):	Checked
3	Line Ball Valve Operation Checked:	N	14	Pad Cleaned (Yes/No):	Y
4	Solenoid Operation Checked (Yes/No):	N	15	Fence Integrity Checked (Yes/No):	Y
5	Checked For Leaks in Piping (Yes/No):	N	16	Eyewash Station Water Checked (Yes/No):	Y
6	Timer and Timer Motors Checked:	N	17	Fire Extinguisher Inspected (Yes/No):	Y
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	11121.73	18	Well Vaults Cleaned (Yes/No):	N
8	Regulator Pressure (psig):	NM	19	Debris In Wells-field Cleaned (Yes/No):	N
9	Condensate Drained Manually (Yes/No):	Y			
10	Tank Pressurization Cycles Verified:	NM			
11	Pressure Safety Valve Operation:	NM			

Comments: system off for 4th QM. plan to turn it back on tuesday

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	NM
Line Gauge Pressure (psig) P_1	
Pressure Correction Factor F_1	
Line Gauge Temperature (F) T1	
Temperature Correction Factor F_2	
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	
Calculated Standardized Flow	

Equation for Standardizing Flow : $Flow = Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
10/24/05	1210	Bruce

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	ok	12	Aftercooler Fine (Checked or Cleaned):	ok
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	42543	13	Air Filter (Checked Or Replaced):	ok
3	Line Ball Valve Operation Checked:	ok	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	Yes	15	Fence Integrity Checked (Yes/No):	Yes
5	Checked For Leaks in Piping (Yes/No):	Yes	16	Eyewash Station Water Checked (Yes/No):	Yes
6	Timer and Timer Motors Checked:	ok	17	Fire Extinguisher Inspected (Yes/No):	Yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	11075.55	18	Well Vaults Cleaned (Yes/No):	No
8	Regulator Pressure (psig):	18	19	Debris In Wells-field Cleaned (Yes/No):	NO
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	*			
11	Pressure Safety Valve Operation:	ok			

Comments: System down upon arrival - high pressure shutoff -> restarted + seemed to run normally
* still not cycling due to air retention problems

System Data Collection

Current Line In Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-16
Line Gauge Pressure (psig) P_1	14
Pressure Correction Factor F_1	5.357
Line Gauge Temperature (F) T1	75
Temperature Correction Factor F_2	23.13
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	9
Calculated Standardized Flow	8.89

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
12.2.05	11:00	Bruce Dean Harding

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fins (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	42480	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	1151.85	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	19 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	yes			
11	Pressure Safety Valve Operation:				

Comments: adjusted timer to inject into each of the wells for 45 minutes everyother day

System Data Collection

Current Line In Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-17
Line Gauge Pressure (psig) P_1	15 PSI
Pressure Correction Factor F_1	5.450
Line Gauge Temperature (F) T1	70°
Temperature Correction Factor F_2	23.02
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	7 CFM
Calculated Standardized Flow	7.07

Equation for Standardizing Flow: $Flow = Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
10-16-05	12:10	Bruce Dennhartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fins (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	41972	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	good	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	10838.45	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	18	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: The Compressor continues to not cycle, 20 PSI MAX in tank. The only way I can get the unit to cycle is if I set the regulator at 2 PSI which reduces the cfm down to 4. I replaced the regulator in hopes to gain tank pressure.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BV-2
Line Gauge Pressure (psig) P_1	18 PSI
Pressure Correction Factor F_1	5.719
Line Gauge Temperature (F) T1	90°
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	12 cfm
Calculated Standardized Flow	12.45

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
16-5-05	10:30	Bruce Dan Hartley

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	41634	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:		17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	18692.31	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	17 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: *Even with new tip seals and complete inspection of the compressor we still only have 20 psi in tank. Compressor continues to run all the time and not cycle.
Marlyn Vasquez (SWDIV proj manager) visited the sites.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	B-5 17
Line Gauge Pressure (psig) P_1	15 PSI
Pressure Correction Factor F_1	5.450
Line Gauge Temperature (F) T1	90°
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	8 CFM
Calculated Standardized Flow	7.89

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps, Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
9-29-05	10:00	Bruce DenHartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	41314	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.55 hrs)	10555.43	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	18	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Met Coast Compressor Company at the Site. They inspected the [redacted] compressor and replaced the Tip Seals. After Tip Seals were replaced to compressor still didnot climb over 20 psi. The Technicion thinks the demand is greater than the supply.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-3
Line Gauge Pressure (psig) P_1	18 PSI
Pressure Correction Factor F_1	[redacted] 5.718
Line Gauge Temperature (F) T1	90°
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	8 cfm
Calculated Standardized Flow	8.30

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
9/20/05	1150	Bruce/Mindy

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	ok	12	Aftercooler Fine (Checked or Cleaned):	Y
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	40901	13	Air Filter (Checked Or Replaced):	Y
3	Line Ball Valve Operation Checked:	ok	14	Pad Cleaned (Yes/No):	N
4	Solenoid Operation Checked (Yes/No):	Y	15	Fence Integrity Checked (Yes/No):	Y
5	Checked For Leaks in Piping (Yes/No):	Y	16	Eyewash Station Water Checked (Yes/No):	Y
6	Timer and Timer Motors Checked:	ok	17	Fire Extinguisher Inspected (Yes/No):	Y
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	1033.12	18	Well Vaults Cleaned (Yes/No):	N
8	Regulator Pressure (psig):	19	19	Debris In Wells-field Cleaned (Yes/No):	N
9	Condensate Drained Manually (Yes/No):	Y			
10	Tank Pressurization Cycles Verified:	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: System down upon arrival - high pressure for compressor, checked cycling by closing injection and it cycled, so should work ok. Still having probs w/ sys cycling on/off on. also, there was a power outage last night 1/12am - 5am plan to replace tip seals on compressor soon. - IP604600AV powerex - pure air technologies

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-1
Line Gauge Pressure (psig) P_1	14
Pressure Correction Factor F_1	5.357
Line Gauge Temperature (F) T1	85
Temperature Correction Factor F_2	23.35
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	7
Calculated Standardized Flow	6.85

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
9/12/05	1215	M. Mathias

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	ok	12	Aftercooler Fine (Checked or Cleaned):	Checked
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	40564	13	Air Filter (Checked Or Replaced):	Checked
3	Line Ball Valve Operation Checked:	ok	14	Pad Cleaned (Yes/No):	N
4	Solenoid Operation Checked (Yes/No):	Y	15	Fence Integrity Checked (Yes/No):	Y
5	Checked For Leaks in Piping (Yes/No):	Y	16	Eyewash Station Water Checked (Yes/No):	Y
6	Timer and Timer Motors Checked:	Y	17	Fire Extinguisher Inspected (Yes/No):	Y
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	10166.77	18	Well Vaults Cleaned (Yes/No):	N
8	Regulator Pressure (psig):	5	19	Debris In Wells-field Cleaned (Yes/No):	N
9	Condensate Drained Manually (Yes/No):	Y			
10	Tank Pressurization Cycles Verified:	Y			
11	Pressure Safety Valve Operation:	ok			

Comments: System ok, not cycling, low pressure in regulator

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BV-1
Line Gauge Pressure (psig) P_1	10
Pressure Correction Factor F_1	4.970
Line Gauge Temperature (F) T1	90
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{Gauge}$	8
Calculated Standardized Flow	7.21

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
9-8-05	3:00	Bruce Den Hartog

9-8-05

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	40393	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	10079.55	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	12 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Replaced both belts on motor. Unit running at 10 PSI.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-16
Line Gauge Pressure (psig) P_1	12 PSI
Pressure Correction Factor F_1	5.167
Line Gauge Temperature (F) T1	90°
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10 CFM
Calculated Standardized Flow	9.28

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
8-29-05	9:15	BRUCE DEN HARTOG

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	39941	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:		17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.85 hrs)	9850.25	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	15 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit running at 15 PSI and 8 cfm. Tank pressure 20 PSI and not cycling

System Data Collection

Current Line In Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-1
Line Gauge Pressure (psig) P_1	14 PSI
Pressure Correction Factor F_1	5.357
Line Gauge Temperature (F) T1	75°
Temperature Correction Factor F_2	23.13
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	8 cfm
Calculated Standardized Flow	7.90

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
8-25-05	2:30	Bruce Den Hertog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	39776	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	9765.61	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	18	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: * not cycling [redacted]

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-1
Line Gauge Pressure (psig) P_1	18
Pressure Correction Factor F_1	[redacted] 5.718
Line Gauge Temperature (F) T1	105
Temperature Correction Factor F_2	23.77
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10
Calculated Standardized Flow	10.26

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
8-15-05	1:00	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 3600)	39409	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks In Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No): *	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	4586.14	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	10 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit continues to run @ 20 PSI and not cycle. The CFM is still OK. The run time is very high. We serviced all the Fire Extinguishers.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	B-S 15
Line Gauge Pressure (psig) P_1	17
Pressure Correction Factor F_1	5.167
Line Gauge Temperature (F) T1	80
Temperature Correction Factor F_2	23.24
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10 cfm
Calculated Standardized Flow	9.48

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
8-11-05	2:30	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 6600)	39234	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	9501.30	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	8 PSI	19	Debris in Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Continues to run @ 20 PSI in tank. I replaced the air filter.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-7
Line Gauge Pressure (psig) P_1	8 PSI
Pressure Correction Factor F_1	
Line Gauge Temperature (F) T1	90°
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{Gauge}$	10 cfm
Calculated Standardized Flow	

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
8-2-05	12:00	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	38511	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks In Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	9297.44	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	19 psi	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit running on arrival. Unit still running at 20 PSI Max on tank Pressure. Next week I will hang the Fire Extinguisher and Place a sign over it.
Powerex Model # SPC2147500

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	B-S-4
Line Gauge Pressure (psig) P_1	19 PSI
Pressure Correction Factor F_1	5.805
Line Gauge Temperature (F) T1	90°
Temperature Correction Factor F_2	23.5
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	12 cfm
Calculated Standardized Flow	12.64

Equation for Standardizing Flow : Flow = $Flow_{gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
7-26-05	12:10	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	38490	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	9141.09	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	15 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit was running on arrival. It continues to run at 20 PSI and not cycle.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	B-S 1
Line Gauge Pressure (psig) P_1	15 PSI
Pressure Correction Factor F_1	5.450
Line Gauge Temperature (F) T1	95°
Temperature Correction Factor F_2	23.56
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10 cfm
Calculated Standardized Flow	9.86

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
7-21-05	8:30	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 6600)	38260	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	9025.88	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	20psi	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit still not cycling.

System Data Collection

Current Line In Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS 15
Line Gauge Pressure (psig) P_1	18 PSI
Pressure Correction Factor F_1	5.718
Line Gauge Temperature (F) T1	95°
Temperature Correction Factor F_2	23.56
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10 CFM
Calculated Standardized Flow	10.35

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
7-13-05	10:15	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fins (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 6600)	37896	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.65 hrs)	8851.53	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	18 PSI	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: The machine is running but not cycling. The Tank pressure is 20 psi and the compressor runs all the time.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	BS-1
Line Gauge Pressure (psig) P_1	15 PSI
Pressure Correction Factor F_1	5.405
Line Gauge Temperature (F) T1	85°
Temperature Correction Factor F_2	23.35
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10 cfm
Calculated Standardized Flow	9.95

Equation for Standardizing Flow : Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
7-6-05	11:00	Bruce Den Hartog

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	37576	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks In Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours): (Initial Counter Reading: 213.85 hrs)	8698.23	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	18	19	Debris In Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified:	—			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit was running on arrival. The unit was running at 15 PSI in the tank, but the line pressure and cfm were O.K.

System Data Collection

Current Line In Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	B-5
Line Gauge Pressure (psig) P_1	16 PSI
Pressure Correction Factor F_1	5.541
Line Gauge Temperature (F) T1	85°
Temperature Correction Factor F_2	23.35
Line Gauge Flow @ 100 psi Line $Flow_{Gauge}$	10 cfm
Calculated Standardized Flow	10.12

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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ENGINEERING, CONSTRUCTION & SUPPORT SERVICES

Marine Corps. Base Camp Pendleton
Site 2666 Operations and Maintenance Record

Date	Time	Technician
6-29-05	8:00	Bruce / Jimmy

System Operation Items

	Item			Item	
1	Breaker Panel Condition:	good	12	Aftercooler Fine (Checked or Cleaned):	yes
2	Total kWhrs: (Initial Meter Reading @ Startup: 8600)	37245	13	Air Filter (Checked Or Replaced):	yes
3	Line Ball Valve Operation Checked:	yes	14	Pad Cleaned (Yes/No):	yes
4	Solenoid Operation Checked (Yes/No):	yes	15	Fence Integrity Checked (Yes/No):	yes
5	Checked For Leaks in Piping (Yes/No):	yes	16	Eyewash Station Water Checked (Yes/No):	yes
6	Timer and Timer Motors Checked:	yes	17	Fire Extinguisher Inspected (Yes/No):	yes
7	Compressor Run Time (Hours); (Initial Counter Reading: 213.65 hrs)	8542.15	18	Well Vaults Cleaned (Yes/No):	yes
8	Regulator Pressure (psig):	15	19	Debris in Wells-field Cleaned (Yes/No):	yes
9	Condensate Drained Manually (Yes/No):	yes			
10	Tank Pressurization Cycles Verified: *	yes			
11	Pressure Safety Valve Operation:	yes			

Comments: Unit continues to not run over 10 psi in the main tank. The line pressure is still ok and also the cfm is still ok. The tank pressure will not climb, so the compressor runs all the time.

System Data Collection

Current Line in Operation: (BV-1, BV-2, BS-1, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-15, BS-16, BS-17, or BS-18	B-5 7
Line Gauge Pressure (psig) P_1	15 PSI
Pressure Correction Factor F_1	5.450
Line Gauge Temperature (F) T1	85°
Temperature Correction Factor F_2	23.35
Line Gauge Flow @ 100 psi Line $Flow_{gauge}$	10 cfm
Calculated Standardized Flow	9.95

Equation for Standardizing Flow: Flow = $Flow_{Gauge} \times (4.264014 / (F_2 / F_1))$

Pressure Correction Factors

P_1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
F_1	4.970	5.070	5.167	5.263	5.357	5.450	5.541	5.630	5.718	5.805	5.891	5.975	6.058	6.140	6.221	6.301

Temperature Correction Factors

T_1	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
F_2	21.7	21.79	21.91	22.02	22.14	22.25	22.36	22.47	22.58	22.69	22.8	22.91	23.02	23.13	23.24	23.35
T_1	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
F_2	23.5	23.56	23.66	23.77	23.87	23.98	24.08	24.19	24.29	24.39	24.49	24.6	24.7	24.8	24.90	25

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CHAIN OF CUSTODY

Ref. Document # CP-102910-021 A

Company Name: EAR Eng., Constr. & Support Services
Address: 4097 Trailcreek Road
City / State / Zip: Riverside, CA 92505
Project Manager: ~~Jillian Ly~~ Mindy Mathias
Phone/Fax Number: (951) 735-5575/(951) 735-8775
Lab/Field Coordinator: Keith Aleckson
Company Name (Field Team): Shaw Environmental, Inc.
Address: 3347 Michelson Drive, Suite 200
City / State / Zip: Irvine, CA 92612
Phone/Fax Number: (949) 660-5481/(949) 475-5433

Project Number: 102910
Project Name: Camp Pendleton, CA
Project Location: Site 2666
Purchase Order #: 1025-0185
Lab Destination: APCL
Lab Contact: Hsin-Yi Lee
Lab Phone #: (909)590-1828

Program: [X] Navy [ ] AFCEE [ ] DOT [ ] USACE [ ] NPDES [ ] RCRA [ ] Other

Requesting Testing Program

Shaw Sample Number	Location	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		BTEX, EPA 8021B	TPH-Diesel, CA LUFT M8015	Alkalinity, EPA 310.1	Nitrate/Nitrite as N, EPA 353.3	Sulfate, EPA 300.0	Dissolved Methane, RSK175	PAHs, EPA 8310				MS/MSD
102910-0180 A	2666-MW-10	8/22/05	1215	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0181 A	EQUIPMENT RINSATE	↓	1300	QC	W	5	3	X				X		X	X									
-0182 A	TRIP BLANK	↓	1305	QC	W	2	3	X				X		X										

3791

8/22/05

Special Instructions: Send hard copy report and EDD to both Jillian Ly at EAR and Keith Aleckson at Shaw Environmental, Inc.

Sampler(s) Name(s): ~~Rod Tablas, Ramon Ibarra~~ CRILW / WINTLOW

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	8/22/05	~~1500~~ 1400		8/22/05	1400
	8/22/05	1545		8/22/05	1545

Turnaround Time: Normal - 10 Working Day | Rush

Method Codes
C = Composite | G = Grab
LF - Low Flow | QC = Field QC

Matrix Codes
BW = Field Blank Water | SOL = Other Solid
DW = Drinking Water | SO = Soil
GW = Ground Water | SL = Sludge
WW = Waste Water | WP = Wipe Samples
SW = Surface Water | A = Air Sample
LIQ = Other Liquid | W = Water

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
EAR Engineering,
Attention: Mindy Mathias
4097 Trail Creek Road
Riverside CA 92505
Tel: (951)735-5575 Fax: (951)735-8775

Service ID #: 801-053791
Collected by: Cirillo
Collected on: 08/22/05

Received: 08/22/05
Extracted: 08/24/05
Tested: 08/24-30/05
Reported: 08/31/05

Sample Description: Water
Project Description: 102910 Camp Pendleton

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0180A 05-03791-1
ALKALINITY	E310.1	mg/L	2	264
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	<0.5
Dilution Factor				100
SULFATE	E300.0	mg/L	1	690
Dilution Factor				0.96
TPH - DIESEL	M8015E	mg/L	0.1	0.1
Dilution Factor				10
METHANE	RSK175	μg/L	3	210

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0180A 05-03791-1	102910-0181A 05-03791-2	102910-0182A 05-03791-3
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	0.3J	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	1J	1J	1J

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0181A 05-03791-2
Dilution Factor				0.96
TPH - DIESEL	M8015E	mg/L	0.1	<0.096

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/22/2005
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo
		Lab Sample ID:	05-3791-1	Received Date:	08/22/2005
Sample ID:	**102910-0180A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC; B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	13:54
Data File Name:	3791.001	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	1	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	89
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/22/2005
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo
		Lab Sample ID:	05-3791-2	Received Date:	08/22/2005
Sample ID:	**102910-0181A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	14:20
Data File Name:	3791.002	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.3	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	1	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	124
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/22/2005
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo
		Lab Sample ID:	05-3791-3	Received Date:	08/22/2005
Sample ID:	**102910-0182A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	14:47
Data File Name:	3791.003	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	1	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	88
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/22/2005
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo
		Lab Sample ID:	05-3791-1	Received Date:	08/22/2005
Sample ID:	**102910-0180A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/24/05	Anal. Date:	08/30/05
Batch No:	05G2853	Prep. No:	1 of 1	Anal. Time:	13:24
Data File Name:	3791.101	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.1	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	109
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/22/2005
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo
		Lab Sample ID:	05-3791-2	Received Date:	08/22/2005
Sample ID:	**102910-0181A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/24/05	Anal. Date:	08/29/05
Batch No:	05G2853	Prep. No:	1 of 1	Anal. Time:	22:34
Data File Name:	3791.002	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	118
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/22/2005
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo
		Lab Sample ID:	05-3791-1	Received Date:	08/22/2005
Sample ID:	**102910-0180A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	12:31
Data File Name:	3791.101	Sample Amount:	33 mL	Dilution Factor:	10
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	30	210	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Wet Analysis Results for Method E310.1

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E310.1
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo

Component Name: Alkalinity
CAS No: 11-43-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3791-1	102910-0180A	Water	08/22/05	08/22/05	08/25/05	05W3417	mg/L	2	264	
05W3417MB01		Water	08/25/05	08/25/05	08/25/05	05W3417	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E353.3

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E353.3
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo

Component Name: NITRATE/NITRITE as N
CAS No: 10-28-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3791-1	102910-0180A	Water	08/22/05	08/22/05	08/26/05	05W3430	mg/L	0.5	<0.5	U
05W3430MB01		Water	08/26/05	08/26/05	08/26/05	05W3430	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E300.0

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E300.0
Project ID:	Camp Pendleton	Service ID:	053791	Collected by:	Cirillo

Component Name: SULFATE
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3791-1	102910-0180A	Water	08/22/05	08/22/05	08/24/05	05W3407	mg/L	100	690	
05W3407MB01		Water	08/24/05	08/24/05	08/24/05	05W3407	mg/L	1	<1	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

CHAIN OF CUSTODY

Ref. Document # CP-102910-022

Company Name: EAR Eng., Constr. & Support Services
Address: 4097 Trailcreek Road
City / State / Zip: Riverside, CA 92505
Project Manager: Jillian Ly
Phone/Fax Number: (951) 735-5575/(951) 736-8775
Lab/Field Coordinator: Keith Aleckson
Company Name (Field Team): Shaw Environmental, Inc.
Address: 3347 Michelson Drive, Suite 200
City / State / Zip: Irvine, CA 92612
Phone/Fax Number: (949) 660-5481/(949) 475-5433

Project Number: 102910
Project Name: Camp Pendleton, CA
Project Location:
Purchase Order #: 1025-0185
Lab Destination: APCL
Lab Contact: Hsin-Yi Lee
Lab Phone #: (909)590-1828

Program
- [X] Navy
- [ ] AFCEE
- [ ] DOT
- [ ] USACE
- [ ] NPDES
- [ ] RCRA
- [ ] Other

Requesting Testing Program

Shaw Sample Number	Location	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice	BTEX, EPA 8021B	TPH-Diesel, CA LUFT M8015	Alkalinity, EPA 310.1	Nitrate/Nitrite as N, EPA 353.3	Sulfate, EPA 300.0	Dissolved Methane, RSK175	PAHs, EPA 8310				MS/MSD
102910-0183A	TRIP BLANK	8-23-05	0715	QC	W	2	3	X				X	X										
-0184A	2666-MW-8		0915	LF	GW	10	3	X			X	X	X	X	X	X	X	X					
-0185A	2666-MW-5		1000	LF	GW	10	3	X			X	X	X	X	X	X	X	X					
-0186A	2666-MW-1		1210	LF	GW	10	3	X			X	X	X	X	X	X	X	X					
-0187	2666-MW-6		1245	LF	GW	10	3	X			X	X	X	X	X	X	X	X					
-0188	2666-MW-2		1350	LF	GW	10	3	X			X	X	X	X	X	X	X	X					
-0189	EQUIPMENT RINSATE		1430	QC	W	4	3	X				X	X	X									

8/23/05

3795

Special Instructions: Send hard copy report and EDD to both Jillian Ly at EAR and Keith Aleckson at Shaw Environmental, Inc.

Sampler(s) Name(s): ~~Bod Tobias, Ramon Ibarra~~ CARLOS WINGO

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	8/23/05	1500		8/23/05	1500
	8/23/05	1630		8/23/05	1630

Turnaround Time: Normal - 10 Working Day | Rush

Method Codes
C = Composite | G = Grab
LF - Low Flow | QC = Field QC

Matrix Codes
BW = Field Blank Water | SOL = Other Solid
DW = Drinking Water | SO = Soil
GW = Ground Water | SL = Sludge
WW = Waste Water | WP = Wipe Samples
SW = Surface Water | A = Air Sample
LIQ = Other Liquid | W = Water

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
EAR Engineering,
Attention: Mindy Mathias
4097 Trail Creek Road
Riverside CA 92505
Tel: (951)735-5575 Fax: (951)735-8775

Service ID #: 801-053795
Collected by: Cirillo
Collected on: 08/23/05

Received: 08/23/05
Extracted: 08/26/05
Tested: 08/24-27/05
Reported: 08/31/05

Sample Description: Water
Project Description: 102910 Camp Pendleton

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0184A 05-03795-2	102910-0185A 05-03795-3
ALKALINITY	E310.1	mg/L	2	730	541
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	<0.5	0.43J
Dilution Factor				100	100
SULFATE	E300.0	mg/L	1	448	496
Dilution Factor				1	10
METHANE	RSK175	μg/L	3	23	210

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0186A 05-03795-4	102910-0187 05-03795-5	102910-0188 05-03795-6
ALKALINITY	E310.1	mg/L	2	86.3	27.2	174
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	<0.5	63.5	54.3
Dilution Factor				20	20	50
SULFATE	E300.0	mg/L	1	290	243	563
Dilution Factor				1	1	1
METHANE	RSK175	μg/L	3	<3	<3	<3

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0183A 05-03795-1	102910-0184A 05-03795-2	102910-0185A 05-03795-3
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	<0.5	0.2J
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	1J	1J	<1.5
Dilution Factor				1	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	-	0.2	0.93

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0186A 05-03795-4	102910-0187 05-03795-5	102910-0188 05-03795-6	102910-0189 05-03795-7
BTXE							
Dilution Factor				1	1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	0.2J	<0.5	0.2J
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	1	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	0.4J	0.3J	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	1J	2.2	1J	0.9J
Dilution Factor				0.96	0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	1.5	0.05J	3.87	<0.096

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-1	Received Date:	08/23/2005
Sample ID:	**102910-0183A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	15:13
Data File Name:	3795.001	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	1	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	94
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-2	Received Date:	08/23/2005
Sample ID:	**102910-0184A**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	-	Anal. Time:	15:39
Data File Name:	3795.002	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	1	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	86
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-3	Received Date:	08/23/2005
Sample ID:	**102910-0185A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	16:05
Data File Name:	3795.003	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	87
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-4	Received Date:	08/23/2005
Sample ID:	**102910-0186A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	16:31
Data File Name:	3795.004	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	1	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	127
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	90
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-5	Received Date:	08/23/2005
Sample ID:	**102910-0187**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	18:42
Data File Name:	3795.005	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	1	
3	TOLUENE	108-88-3	µg/L	0.5	0.4	J
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	2.2	

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	95
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-6	Received Date:	08/23/2005
Sample ID:	**102910-0188**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	19:08
Data File Name:	3795.006	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	0.3	J
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	1	J

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	126
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	94
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-7	Received Date:	08/23/2005
Sample ID:	**102910-0189**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	19:35
Data File Name:	3795.007	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	0.9	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	126
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-2	Received Date:	08/23/2005
Sample ID:	**102910-0184A**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	07:01
Data File Name:	3795.002	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.2	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	112
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-3	Received Date:	08/23/2005
Sample ID:	**102910-0185A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	07:26
Data File Name:	3795.003	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.93	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	102
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-4	Received Date:	08/23/2005
Sample ID:	**102910-0186A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	07:52
Data File Name:	3795.004	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	1.5	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	69
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-5	Received Date:	08/23/2005
Sample ID:	**102910-0187**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	08:17
Data File Name:	3795.005	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.05	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	87
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-6	Received Date:	08/23/2005
Sample ID:	**102910-0188**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	09:33
Data File Name:	3795.006	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	3.87	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	74
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-7	Received Date:	08/23/2005
Sample ID:	**102910-0189**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	09:58
Data File Name:	3795.007	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	112
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-2	Received Date:	08/23/2005
Sample ID:	**102910-0184A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	12:34
Data File Name:	3795.002	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	23	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-3	Received Date:	08/23/2005
Sample ID:	**102910-0185A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	12:48
Data File Name:	3795.103	Sample Amount:	33 mL	Dilution Factor:	10
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	30	210	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-4	Received Date:	08/23/2005
Sample ID:	**102910-0186A**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	12:50
Data File Name:	3795.004	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-5	Received Date:	08/23/2005
Sample ID:	**102910-0187**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	12:54
Data File Name:	3795.005	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/23/2005
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo
		Lab Sample ID:	05-3795-6	Received Date:	08/23/2005
Sample ID:	**102910-0188**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	13:33
Data File Name:	3795.006	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Wet Analysis Results for Method E310.1

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E310.1
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo

Component Name: Alkalinity
CAS No: 11-43-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3795-2	102910-0184A	Water	08/23/05	08/23/05	08/25/05	05W3417	mg/L	2	730	
05-3795-3	102910-0185A	Water	08/23/05	08/23/05	08/25/05	05W3417	mg/L	2	541	
05-3795-4	102910-0186A	Water	08/23/05	08/23/05	08/25/05	05W3417	mg/L	2	86.3	
05-3795-5	102910-0187	Water	08/23/05	08/23/05	08/25/05	05W3417	mg/L	2	27.2	
05-3795-6	102910-0188	Water	08/23/05	08/23/05	08/25/05	05W3417	mg/L	2	174	
05W3417MB01		Water	08/25/05	08/25/05	08/25/05	05W3417	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E353.3

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E353.3
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo

Component Name: NITRATE/NITRITE as N
CAS No: 10-28-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3795-2	102910-0184A	Water	08/23/05	08/23/05	08/26/05	05W3430	mg/L	0.5	<0.5	U
05-3795-3	102910-0185A	Water	08/23/05	08/23/05	08/26/05	05W3430	mg/L	0.5	0.43	B
05-3795-4	102910-0186A	Water	08/23/05	08/23/05	08/26/05	05W3430	mg/L	0.5	<0.5	U
05-3795-5	102910-0187	Water	08/23/05	08/23/05	08/26/05	05W3430	mg/L	0.5	63.5	
05-3795-6	102910-0188	Water	08/23/05	08/23/05	08/26/05	05W3430	mg/L	0.5	54.3	
05W3430MB01		Water	08/26/05	08/26/05	08/26/05	05W3430	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & CH Laboratories

Wet Analysis Results for Method E300.0

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E300.0
Project ID:	Camp Pendleton	Service ID:	053795	Collected by:	Cirillo

Component Name: SULFATE
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3795-2	102910-0184A	Water	08/23/05	08/23/05	08/24/05	05W3407	mg/L	100	448	
05-3795-3	102910-0185A	Water	08/23/05	08/23/05	08/24/05	05W3407	mg/L	100	496	
05-3795-4	102910-0186A	Water	08/23/05	08/23/05	08/24/05	05W3407	mg/L	20	290	
05-3795-5	102910-0187	Water	08/23/05	08/23/05	08/24/05	05W3407	mg/L	20	243	
05-3795-6	102910-0188	Water	08/23/05	08/23/05	08/24/05	05W3407	mg/L	50	563	
05W3407MB01		Water	08/24/05	08/24/05	08/24/05	05W3407	mg/L	1	0.36	B

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

CHAIN OF CUSTODY

Ref. Document # CP-102910-023

Company Name: EAR Eng., Constr. & Support Services
Address: 4097 Trailcreek Road
City / State / Zip: Riverside, CA 92505
Project Manager: Jillian Ly
Phone/Fax Number: (951) 735-5575/(951) 735-8775
Lab/Field Coordinator: Keith Aleckson
Company Name (Field Team): Shaw Environmental, Inc.
Address: 3347 Michelson Drive, Suite 200
City / State / Zip: Irvine, CA 92612
Phone/Fax Number: (949) 660-5481/(949) 475-5433

Project Number: 102910
Project Name: Camp Pendleton, CA
Project Location:
Purchase Order #: 1025-0185
Lab Destination: APCL
Lab Contact: Hsin-Yi Lee
Lab Phone #: (909)590-1828

Program: [X] Navy [ ] AFCEE [ ] DOT [ ] USACE [ ] NPDES [ ] RCRA [ ] Other

Requesting Testing Program

Shaw Sample Number	Location	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		BTEX, EPA 8021B	TPH-Diesel, CA LUFT M8015	Alkalinity, EPA 310.1	Nitrate/Nitrite as N, EPA 353.3	Sulfate, EPA 300.0	Dissolved Methane, RSK175	PAHs, EPA 8310				MS/MSD
102910-0190	TRIP BLANK	8.24.05	0715	QC	W	2	3	X				X		X										
-0191	2606-MW-3		0845	LF	GW	10	4	X			X	X		X	X	X	X	X	X					
-0192	~~2606-MW~~ DUP		0850	LF	GW	5	3	X			X	X		X	X									
-0193	2606-MW-4		0940	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0194	2606-MW-9		1045	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0195	2606-~~MW~~ 2410A		1145	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0196	2606-24W11A		1240	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0197	2459-MW-1		1435	LF	GW	20	3	X			X	X		X	X	X	X	X	X					X
-0198	EQUIPMENT RINSATE		1515	QC	W	4	3	X				X		X	X									

8/24/05

3812

Special Instructions: Send hard copy report and EDD to both Jillian Ly at EAR and Keith Aleckson at Shaw Environmental, Inc.

Sampler(s) Name(s): ~~Rod Tobias, Ramon Ibarra~~ CIRIZO / WINGLAY

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	8/24/05	1555		8/24/05	1555
	8/24/05	1745		8/24/05	1745

Turnaround Time: Normal - 10 Working Day | Rush

Method Codes
C = Composite | G = Grab
LF - Low Flow | QC = Field QC

Matrix Codes
BW = Field Blank Water | SOL = Other Solid
DW = Drinking Water | SO =Soil
GW = Ground Water | SL = Sludge
WW = Waste Water | WP = Wipe Samples
SW = Surface Water | A = Air Sample
LIQ = Other Liquid | W = Water

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
EAR Engineering,
Attention: Mindy Mathias
4097 Trail Creek Road
Riverside CA 92505
Tel: (951)735-5575 Fax: (951)735-8775

Service ID #: 801-053812
Collected by: Cirillo
Collected on: 08/24/05

Received: 08/24/05
Extracted: 08/26/05
Tested: 08/25-29/05
Reported: 09/01/05

Sample Description: Water
Project Description: 102910 Camp Pendleton

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0191 05-03812-2	102910-0193 05-03812-4	102910-0194 05-03812-5
ALKALINITY	E310.1	mg/L	2	178	216	124
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	21.0	6.6	8.1
Dilution Factor				10	10	10
SULFATE	E300.0	mg/L	1	176	291	102
Dilution Factor				1	1	1
METHANE	RSK175	μg/L	3	<3	<3	<3

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0195 05-03812-6	102910-0196 05-03812-7	102910-0197 05-03812-8
ALKALINITY	E310.1	mg/L	2	233	235	327
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	6.1	1.5	15.6
Dilution Factor				10	50	20
SULFATE	E300.0	mg/L	1	76.9	431	32.9
Dilution Factor				1	1	1
METHANE	RSK175	μg/L	3	<3	<3	<3

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0190 05-03812-1	102910-0191 05-03812-2	102910-0192 05-03812-3
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	0.2J	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	0.9J	0.9J	<1.5
Dilution Factor				1	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	-	0.02J [a]	0.02J [a]

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0193 05-03812-4	102910-0194 05-03812-5	102910-0195 05-03812-6
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	0.2J	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	0.9J	<1.5	0.9J
Dilution Factor				0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	0.03J [a]	0.1	0.03J [a]

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0196 05-03812-7	102910-0197 05-03812-8	102910-0198 05-03812-9
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	0.2J
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	<1.5	<1.5	0.9J
Dilution Factor				0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	0.02J [a]	<0.096	<0.096

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

[a] Unknown mixuture in Diesel range.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-1	Received Date:	08/24/2005
Sample ID:	**102910-0190**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	20:01
Data File Name:	3812.001	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	0.9	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	127
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	91
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-2	Received Date:	08/24/2005
Sample ID:	**102910-0191**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	-	Anal. Time:	20:27
Data File Name:	3812.002	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	0.9	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	88
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-3	Received Date:	08/24/2005
Sample ID:	**102910-0192**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	-	Anal. Time:	20:53
Data File Name:	3812.003	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	122
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	90
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-4	Received Date:	08/24/2005
Sample ID:	**102910-0193**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	-	Anal. Time:	21:19
Data File Name:	3812.004	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	0.9	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	89
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-5	Received Date:	08/24/2005
Sample ID:	**102910-0194**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	21:45
Data File Name:	3812.005	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	126
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	90
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-6	Received Date:	08/24/2005
Sample ID:	**102910-0195**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	–	Anal. Time:	22:12
Data File Name:	3812.006	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	0.9	J

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	124
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	89
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-7	Received Date:	08/24/2005
Sample ID:	**102910-0196**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/26/05	Anal. Date:	08/26/05
Batch No:	05G2876	Prep. No:	-	Anal. Time:	22:38
Data File Name:	3812.007	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	127
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	90
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-9	Received Date:	08/24/2005
Sample ID:	**102910-0198**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/29/05	Anal. Date:	08/29/05
Batch No:	05G2890	Prep. No:	–	Anal. Time:	14:49
Data File Name:	3812.009	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	0.9	J

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	127
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	97
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-2	Received Date:	08/24/2005
Sample ID:	**102910-0191**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	02:21
Data File Name:	3812.002	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.02 [a]	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	100
# of out-of-control				0

[a] Unknown mixuture in Diesel range.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-3	Received Date:	08/24/2005
Sample ID:	**102910-0192**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	02:47
Data File Name:	3812.003	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.02 [a]	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	89
# of out-of-control				0

[a] Unknown mixuture in Diesel range.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-4	Received Date:	08/24/2005
Sample ID:	102910-0193	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	03:12
Data File Name:	3812.004	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.03 [a]	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	102
# of out-of-control				0

[a] Unknown mixuture in Diesel range.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-5	Received Date:	08/24/2005
Sample ID:	**102910-0194**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	04:29
Data File Name:	3812.005	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.1	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	108
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-6	Received Date:	08/24/2005
Sample ID:	**102910-0195**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	04:54
Data File Name:	3812.006	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.03 [a]	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	106
# of out-of-control				0

[a] Unknown mixuture in Diesel range.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-7	Received Date:	08/24/2005
Sample ID:	**102910-0196**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	05:20
Data File Name:	3812.007	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.02 [a]	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	101
# of out-of-control				0

[a] Unknown mixuture in Diesel range.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-9	Received Date:	08/24/2005
Sample ID:	**102910-0198**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/26/05	Anal. Date:	08/27/05
Batch No:	05G2875	Prep. No:	1 of 1	Anal. Time:	06:11
Data File Name:	3812.009	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-2	Received Date:	08/24/2005
Sample ID:	**102910-0191**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	13:36
Data File Name:	3812.002	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	3	≤3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-4	Received Date:	08/24/2005
Sample ID:	**102910-0193**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	–	Anal. Time:	13:41
Data File Name:	3812.004	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-5	Received Date:	08/24/2005
Sample ID:	**102910-0194**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	-	Anal. Time:	13:39
Data File Name:	3812.005	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-6	Received Date:	08/24/2005
Sample ID:	**102910-0195**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	-	Anal. Time:	13:44
Data File Name:	3812.006	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/24/2005
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo
		Lab Sample ID:	05-3812-7	Received Date:	08/24/2005
Sample ID:	**102910-0196**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	-	Anal. Time:	13:46
Data File Name:	3812.007	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Wet Analysis Results for Method E310.1

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E310.1
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo

Component Name: Alkalinity
CAS No: 11-43-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3812-2	102910-0191	Water	08/24/05	08/24/05	08/29/05	05W3444	mg/L	2	178	
05-3812-4	102910-0193	Water	08/24/05	08/24/05	08/29/05	05W3444	mg/L	2	216	
05-3812-5	102910-0194	Water	08/24/05	08/24/05	08/29/05	05W3444	mg/L	2	124	
05-3812-6	102910-0195	Water	08/24/05	08/24/05	08/29/05	05W3444	mg/L	2	233	
05-3812-7	102910-0196	Water	08/24/05	08/24/05	08/29/05	05W3444	mg/L	2	235	
05-3812-8	102910-0197	Water	08/24/05	08/24/05	08/29/05	05W3444	mg/L	2	327	
05W3444MB01		Water	08/29/05	08/29/05	08/29/05	05W3444	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E353.3

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E353.3
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo

Component Name: NITRATE/NITRITE as N
CAS No: 10-28-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3812-2	102910-0191	Water	08/24/05	08/24/05	08/26/05	05W3430	mg/L	0.5	21.0	
05-3812-4	102910-0193	Water	08/24/05	08/24/05	08/26/05	05W3430	mg/L	0.5	6.6	
05-3812-5	102910-0194	Water	08/24/05	08/24/05	08/26/05	05W3430	mg/L	0.5	8.1	
05-3812-6	102910-0195	Water	08/24/05	08/24/05	08/26/05	05W3430	mg/L	0.5	6.1	
05-3812-7	102910-0196	Water	08/24/05	08/24/05	08/26/05	05W3430	mg/L	0.5	1.5	
05-3812-8	102910-0197	Water	08/24/05	08/24/05	08/26/05	05W3430	mg/L	0.5	15.6	
05W3430MB01		Water	08/26/05	08/26/05	08/26/05	05W3430	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E300.0

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E300.0
Project ID:	Camp Pendleton	Service ID:	053812	Collected by:	Cirillo

Component Name: SULFATE
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3812-2	102910-0191	Water	08/24/05	08/24/05	08/25/05	05W3419	mg/L	10	176	
05-3812-4	102910-0193	Water	08/24/05	08/24/05	08/25/05	05W3419	mg/L	10	291	
05-3812-5	102910-0194	Water	08/24/05	08/24/05	08/25/05	05W3419	mg/L	10	102	
05-3812-6	102910-0195	Water	08/24/05	08/24/05	08/25/05	05W3419	mg/L	10	76.9	
05-3812-7	102910-0196	Water	08/24/05	08/24/05	08/26/05	05W3419	mg/L	50	431	
05-3812-8	102910-0197	Water	08/24/05	08/24/05	08/25/05	05W3419	mg/L	20	32.9	
05W3419MB01		Water	08/25/05	08/25/05	08/25/05	05W3419	mg/L	1	<1	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

CHAIN OF CUSTODY

Ref. Document # CP-102910-024

Company Name: EAR Eng., Constr. & Support Services
Address: 4097 Trailcreek Road
City / State / Zip: Riverside, CA 92505
Project Manager: Jillian Ly
Phone/Fax Number: (951) 735-5575/(951) 735-8775
Lab/Field Coordinator: Keith Aleckson
Company Name (Field Team): Shaw Environmental, Inc.
Address: 3347 Michelson Drive, Suite 200
City / State / Zip: Irvine, CA 92612
Phone/Fax Number: (949) 660-5481/(949) 475-5433

Project Number: 102910
Project Name: Camp Pendleton, CA
Project Location:
Purchase Order #: 1025-0185
Lab Destination: APCL
Lab Contact: Hsin-Yi Lee
Lab Phone #: (909)590-1828

Program: [X] Navy [ ] AFCEE [ ] DOT [ ] USACE [ ] NPDES [ ] RCRA [ ] Other

Requesting Testing Program

Shaw Sample Number	Location	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		BTEX, EPA 8021B	TPH-Diesel, CA LUFT M8015	Alkalinity, EPA 310.1	Nitrate/Nitrite as N, EPA 353.3	Sulfate, EPA 300.0	Dissolved Methane, RSK175	PAHs, EPA 8310				MS/MSD
102910- 0199	TRIP BLANK	8-25-05	0715	QC	W	2	3	X				X		X										
-0200	2459-RW-1		0840	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0201	2459-OW-1		0920	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0202	2459-OW-2		1025	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0203	2459-OW-3		1100	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0204	2459-MW-2		1135	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0205	2459-MW-4		1240	LF	GW	10	4	X			X	X		X	X	X	X	X	X					
-0206	DUP		1245	LF	GW	5	3	X				X		X	X									
-0207	2459-MW-5		1315	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0208	2666-MW-7		1415	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
-0209	EQUIPMENT RINSATE		1430	QC	W	4	3	X				X		X	X									

8/25/05

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Special Instructions: Send hard copy report and EDD to both Jillian Ly at EAR and Keith Aleckson at Shaw Environmental, Inc.

Sampler(s) Name(s): ~~Rod Tobias, Ramon Ibarra~~ CARLOS / WINTHER

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	8/25/05	1500	[signature]	8/25/05	1500
[signature]	8/25/05	1740	[signature]	8/25/05	1740

Turnaround Time:	Normal - 10 Working Day	Rush

Method Codes

C = Composite; G = Grab; LF - Low Flow; QC = Field QC

Matrix Codes

BW = Field Blank Water; SOL = Other Solid; DW = Drinking Water; SO =Soil; GW = Ground Water; SL = Sludge; WW = Waste Water; WP = Wipe Samples; SW = Surface Water; A = Air Sample; LIQ = Other Liquid; W = Water

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
EAR Engineering,
Attention: Mindy Mathias
4097 Trail Creek Road
Riverside CA 92505
Tel: (951)735-5575 Fax: (951)735-8775

Service ID #: 801-053821
Collected by:
Collected on: 08/25/05

Received: 08/25/05
Extracted: 08/29/05
Tested: 08/26-31/05
Reported: 09/01/05

Sample Description: Water
Project Description: 102910 Camp Pendleton

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0200 05-03821-2	102910-0201 05-03821-3	102910-0202 05-03821-4	102910-0203 05-03821-5
ALKALINITY	E310.1	mg/L	2	293	495	494	294
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	0.61	5.0	4.6	73.6
Dilution Factor				2	2	5	5
SULFATE	E300.0	mg/L	1	28.8	44.3	119	88.9
Dilution Factor				1	1	1	1
METHANE	RSK175	μg/L	3	<3	<3	<3	<3

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0204 05-03821-6	102910-0205 05-03821-7	102910-0207 05-03821-9	102910-0208 05-03821-10
ALKALINITY	E310.1	mg/L	2	411	543	377	652
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	43.4	17.0	12.8	<0.5
Dilution Factor				5	50	10	40
SULFATE	E300.0	mg/L	1	59.4	701	126	378
Dilution Factor				1	1	1	10
METHANE	RSK175	μg/L	3	<3	<3	<3	290

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0199 05-03821-1	102910-0200 05-03821-2	102910-0201 05-03821-3	102910-0202 05-03821-4
BTXE							
Dilution Factor				1	1	1	1
BENZENE	SW8021B	μg/L	0.5	<0.5	0.3J	0.4J	0.6
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	1.8	0.9	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	0.5J	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	<1.5	3.6	1J	1J
Dilution Factor				1	0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	-	0.79	1.9	2.59

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0203 05-03821-5	102910-0204 05-03821-6	102910-0205 05-03821-7	102910-0206 05-03821-8
BTXE							
Dilution Factor				1	1	1	1
BENZENE	SW8021B	μg/L	0.5	0.3J	0.2J	0.2J	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	1J	0.9J	1J	<1.5
Dilution Factor				0.96	0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	0.53	0.02J [a]	<0.096	<0.096

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0207 05-03821-9	102910-0208 05-03821-10	102910-0209 05-03821-11
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	0.8	0.3J
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	2.0
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	0.8J	<1.5	<1.5
Dilution Factor				0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	0.03J [a]	1.6	<0.096

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

[a] Unknown mixuture in Diesel range.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/25/2005
Project ID:	Camp Pendleton	Service ID:	053821	Collected by:	
		Lab Sample ID:	05-3821-10	Received Date:	08/25/2005
Sample ID:	102910-0208	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	08/29/05	Anal. Date:	08/29/05
Batch No:	05G2890	Prep. No:	-	Anal. Time:	20:56
Data File Name:	3821.010	Sample Amount:	5.00 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	0.8	
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	127
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	94
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/25/2005
Project ID:	Camp Pendleton	Service ID:	053821	Collected by:	
		Lab Sample ID:	05-3821-10	Received Date:	08/25/2005
Sample ID:	**102910-0208**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	08/29/05	Anal. Date:	08/30/05
Batch No:	05G2887	Prep. No:	1 of 1	Anal. Time:	08:20
Data File Name:	3821.010	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	1.6	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	95
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	08/25/2005
Project ID:	Camp Pendleton	Service ID:	053821	Collected by:	
		Lab Sample ID:	05-3821-10	Received Date:	08/25/2005
Sample ID:	**102910-0208**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	08/26/05
Batch No:	05G2878	Prep. No:	-	Anal. Time:	14:24
Data File Name:	3821.110	Sample Amount:	33 mL	Dilution Factor:	10
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	µg/L	30	290	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Wet Analysis Results for Method E310.1

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E310.1
Project ID:	Camp Pendleton	Service ID:	053821	Collected by:	

Component Name: Alkalinity
CAS No: 11-43-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3821-2	102910-0200	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	293	
05-3821-3	102910-0201	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	495	
05-3821-4	102910-0202	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	494	
05-3821-5	102910-0203	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	294	
05-3821-6	102910-0204	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	411	
05-3821-7	102910-0205	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	543	
05-3821-9	102910-0207	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	377	
05-3821-10	102910-0208	Water	08/25/05	08/25/05	08/29/05	05W3444	mg/L	2	652	
05W3444MB01		Water	08/29/05	08/29/05	08/29/05	05W3444	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E353.3

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E353.3
Project ID:	Camp Pendleton	Service ID:	053821	Collected by:	

Component Name: NITRATE/NITRITE as N
CAS No: 10-28-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3821-2	102910-0200	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	0.61	
05-3821-3	102910-0201	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	5.0	
05-3821-4	102910-0202	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	4.6	
05-3821-5	102910-0203	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	73.6	
05-3821-6	102910-0204	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	43.4	
05-3821-7	102910-0205	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	17.0	
05-3821-9	102910-0207	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	12.8	
05-3821-10	102910-0208	Water	08/25/05	08/25/05	08/31/05	05W3459	mg/L	0.5	<0.5	U
05W3459MB01		Water	08/31/05	08/31/05	08/31/05	05W3459	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E300.0

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E300.0
Project ID:	Camp Pendleton	Service ID:	053821	Collected by:	

Component Name: SULFATE
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-3821-2	102910-0200	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	2	28.8	
05-3821-3	102910-0201	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	2	44.3	
05-3821-4	102910-0202	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	5	119	
05-3821-5	102910-0203	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	5	88.9	
05-3821-6	102910-0204	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	5	59.4	
05-3821-7	102910-0205	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	50	701	
05-3821-9	102910-0207	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	10	126	
05-3821-10	102910-0208	Water	08/25/05	08/25/05	08/26/05	05W3436	mg/L	40	378	
05W3436MB01		Water	08/26/05	08/26/05	08/26/05	05W3436	mg/L	1	0.37	B

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

2904

CHAIN OF CUSTODY

Ref. Document # CP-102910-027

Company Name: EAR Eng., Constr. & Support Services
Address: 4097 Trailcreek Road
City / State / Zip: Riverside, CA 92505
Project Manager: Mindy Mathias
Phone/Fax Number: (951) 735-5575/(951) 735-8775
Lab/Field Coordinator: Keith Aleckson
Company Name (Field Team): Shaw Environmental, Inc.
Address: 3347 Michelson Drive, Suite 200
City / State / Zip: Irvine, CA 92612
Phone/Fax Number: (949) 660-5481/(949) 475-5433

Project Number: 102910
Project Name: Camp Pendleton, CA
Project Location:
Purchase Order #: 1025-0185
Lab Destination: APCL
Lab Contact: Hsin-Yi Lee
Lab Phone #: (909)590-1828

Program: [X] Navy [ ] AFCEE [ ] DOT [ ] USACE [ ] NPDES [ ] RCRA [ ] Other

Requesting Testing Program

Shaw Sample Number	Location	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice	BTEX, EPA 8021B	TPH-Diesel, CA LUFT M8015	Alkalinity, EPA 310.1	Nitrate/Nitrite as N, EPA 353.3	Sulfate, EPA 300.0	Dissolved Methane, RSK175	PAHs, EPA 8310				MS/MSD
102910-0227	2666 - MW1	11-2-05	0925	LF	GW	10	3	✓			✓	✓	✓	✓	✓	✓	✓	✓					
102910-0228	2666 - [redacted] DUP1	11-2-05	0930	LF	GW	5	3	✓			✓	✓	✓	✓									
102910-0229	2666 - MW6	11-2-05	1015	LF	GW	10	3	✓			✓	✓	✓	✓	✓	✓	✓	✓					
102910-0230	2666 - MW2	11-2-05	1050	LF	GW	20	3	✓			✓	✓	✓	✓	✓	✓	✓	✓					✓
102910-0231	2666 - MW3	11-2-05	1255	LF	GW	10	3	✓			✓	✓	✓	✓	✓	✓	✓	✓					
102910-0232	2666 - MW4	11-2-05	1340	LF	GW	10	3	✓			✓	✓	✓	✓	✓	✓	✓	✓					
102910-0233	2666 - MW9	11-2-05	1450	LF	GW	10	3	✓			✓	✓	✓	✓	✓	✓	✓	✓					
102910-0234	2666 - [redacted] DUP2	11-2-05	1455	LF	GW	5	3	✓				✓	✓	✓									
102910-0235	Equipment Rinsate	11-2-05	1545	QC	BW	4	3	✓				✓	✓	✓									
102910-0236	TRIP BLANK	11-2-05	~~1600~~ 0925	QC	BW	2	3	✓				✓	✓										

4612

Special Instructions: Send hard copy report and EDD to both Jillian Ly at EAR and Keith Aleckson at Shaw Environmental, Inc.

Sampler(s) Name(s): Jim Cirillo

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11/2/05	1615	[signature]	11/2/05	1615
[signature]	11/2/05	1830	[signature]	11/2/05	1830

Turnaround Time: Normal - 10 Working Day | Rush

Method Codes
C = Composite
G = Grab
LF - Low Flow
QC = Field QC

Matrix Codes
BW = Field Blank Water
SOL = Other Solid
DW = Drinking Water
SO = Soil
GW = Ground Water
SL = Sludge
WW = Waste Water
WP = Wipe Samples
SW = Surface Water
A = Air Sample
LIQ = Other Liquid
W = Water

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
EAR Engineering,
Attention: Mindy Mathias
4097 Trail Creek Road
Riverside CA 92505
Tel: (951)735-5575 Fax: (951)735-8775

Service ID #: 801-054612
Collected by: J. Cirillo
Collected on: 11/02/05

Received: 11/02/05
Extracted: 11/03/05
Tested: 11/03-07/05
Reported: 11/09/05

Sample Description: Water
Project Description: 102910 Camp Pendleton

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0227 05-04612-1	102910-0229 05-04612-3	102910-0230 05-04612-4
ALKALINITY	E310.1	mg/L	2	116	30.7	284
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	<0.5	47.8	20.9
Dilution Factor				20	20	50
SULFATE	E300.0	mg/L	1	179	254	488
Dilution Factor				1	1	1
METHANE	RSK175	μg/L	3	7.0	<3	6.2

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0231 05-04612-5	102910-0232 05-04612-6	102910-0233 05-04612-7
ALKALINITY	E310.1	mg/L	2	164	228	116
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	16.8	6.1	7.2
Dilution Factor				20	20	10
SULFATE	E300.0	mg/L	1	151	233	113
Dilution Factor				1	1	1
METHANE	RSK175	μg/L	3	<3	<3	<3

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0227 05-04612-1	102910-0228 05-04612-2	102910-0229 05-04612-3	102910-0230 05-04612-4
BTXE							
Dilution Factor				1	1	1	1
BENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	0.2J	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	<1.5	<1.5	<1.5	<1.5
Dilution Factor				0.96	0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	1.6	1.6	<0.096	1.6

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Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0231 05-04612-5	102910-0232 05-04612-6	102910-0233 05-04612-7
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	0.2J	<0.5	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	0.5J	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	0.5J	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	3.3	<1.5	<1.5
Dilution Factor				0.96	0.96	0.96
TPH - DIESEL	M8015E	mg/L	0.1	<0.096	<0.096	0.35

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0234 05-04612-8	102910-0235 05-04612-9	102910-0236 05-04612-10
BTXE						
Dilution Factor				1	1	1
BENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	<1.5	<1.5	<1.5
Dilution Factor				0.96	0.96	1
TPH - DIESEL	M8015E	mg/L	0.1	0.38	<0.096	-

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-1	Received Date:	11/02/2005
Sample ID:	**102910-0227**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	13:40
Data File Name:	4612.001	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	103
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-2	Received Date:	11/02/2005
Sample ID:	**102910-0228**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	14:03
Data File Name:	4612.002	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	97
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-3	Received Date:	11/02/2005
Sample ID:	**102910-0229**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	14:25
Data File Name:	4612.003	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	124
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	103
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-4	Received Date:	11/02/2005
Sample ID:	**102910-0230**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	14:47
Data File Name:	4612.004	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	122
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	102
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-5	Received Date:	11/02/2005
Sample ID:	**102910-0231**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	16:18
Data File Name:	4612.005	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	0.2	J
2	ETHYLBENZENE	100-41-4	μg/L	0.5	0.5	J
3	TOLUENE	108-88-3	μg/L	0.5	0.5	J
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	3.3	

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	93
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-6	Received Date:	11/02/2005
Sample ID:	**102910-0232**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	16:40
Data File Name:	4612.006	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	126
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	94
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-7	Received Date:	11/02/2005
Sample ID:	**102910-0233**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	17:03
Data File Name:	4612.007	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	122
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-8	Received Date:	11/02/2005
Sample ID:	**102910-0234**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	17:25
Data File Name:	4612.008	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	µg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	µg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	µg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	µg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	91
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-9	Received Date:	11/02/2005
Sample ID:	**102910-0235**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	17:48
Data File Name:	4612.009	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	123
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-10	Received Date:	11/02/2005
Sample ID:	**102910-0236**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	18:10
Data File Name:	4612.010	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	92
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-1	Received Date:	11/02/2005
Sample ID:	**102910-0227**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	17:27
Data File Name:	4612.001	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	1.6	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	78
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-2	Received Date:	11/02/2005
Sample ID:	**102910-0228**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	17:52
Data File Name:	4612.002	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	1.6	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	92
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-3	Received Date:	11/02/2005
Sample ID:	**102910-0229**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	18:17
Data File Name:	4612.003	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	99
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-4	Received Date:	11/02/2005
Sample ID:	**102910-0230**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	18:42
Data File Name:	4612.004	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	1.6	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	92
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-5	Received Date:	11/02/2005
Sample ID:	**102910-0231**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	19:07
Data File Name:	4612.005	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	85
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-6	Received Date:	11/02/2005
Sample ID:	**102910-0232**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	19:32
Data File Name:	4612.006	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	87
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-7	Received Date:	11/02/2005
Sample ID:	**102910-0233**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	20:48
Data File Name:	4612.007	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.35	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	92
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-8	Received Date:	11/02/2005
Sample ID:	**102910-0234**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	21:13
Data File Name:	4612.008	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	0.38	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	88
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-9	Received Date:	11/02/2005
Sample ID:	**102910-0235**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	11/03/05	Anal. Date:	11/04/05
Batch No:	05G3343	Prep. No:	1 of 1	Anal. Time:	21:39
Data File Name:	4612.009	Sample Amount:	1040 mL	Dilution Factor:	0.96
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.096	<0.096	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	105
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-1	Received Date:	11/02/2005
Sample ID:	**102910-0227**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	15:29
Data File Name:	4612.001	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	7.0	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-3	Received Date:	11/02/2005
Sample ID:	**102910-0229**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	15:32
Data File Name:	4612.003	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-4	Received Date:	11/02/2005
Sample ID:	**102910-0230**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	15:36
Data File Name:	4612.004	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	6.2	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-5	Received Date:	11/02/2005
Sample ID:	**102910-0231**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	15:39
Data File Name:	4612.005	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-6	Received Date:	11/02/2005
Sample ID:	**102910-0232**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	15:43
Data File Name:	4612.006	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/02/2005
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC
		Lab Sample ID:	05-4612-7	Received Date:	11/02/2005
Sample ID:	**102910-0233**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:10
Data File Name:	4612.007	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Wet Analysis Results for Method E310.1

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E310.1
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC

Component Name: Alkalinity
CAS No: 11-43-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-4612-1	102910-0227	Water	11/02/05	11/02/05	11/07/05	05W4178	mg/L	2	116	
05-4612-3	102910-0229	Water	11/02/05	11/02/05	11/07/05	05W4178	mg/L	2	30.7	
05-4612-4	102910-0230	Water	11/02/05	11/02/05	11/07/05	05W4178	mg/L	2	284	
05-4612-5	102910-0231	Water	11/02/05	11/02/05	11/07/05	05W4178	mg/L	2	164	
05-4612-6	102910-0232	Water	11/02/05	11/02/05	11/07/05	05W4178	mg/L	2	228	
05-4612-7	102910-0233	Water	11/02/05	11/02/05	11/07/05	05W4178	mg/L	2	116	
05W4178MB01		Water	11/07/05	11/07/05	11/07/05	05W4178	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E353.3

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E353.3
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC

Component Name: NITRATE/NITRITE as N
CAS No: 10-28-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-4612-1	102910-0227	Water	11/02/05	11/02/05	11/04/05	05W4155	mg/L	0.5	<0.5	U
05-4612-3	102910-0229	Water	11/02/05	11/02/05	11/04/05	05W4155	mg/L	0.5	47.8	
05-4612-4	102910-0230	Water	11/02/05	11/02/05	11/04/05	05W4155	mg/L	0.5	20.9	
05-4612-5	102910-0231	Water	11/02/05	11/02/05	11/04/05	05W4155	mg/L	0.5	16.8	
05-4612-6	102910-0232	Water	11/02/05	11/02/05	11/04/05	05W4155	mg/L	0.5	6.1	
05-4612-7	102910-0233	Water	11/02/05	11/02/05	11/04/05	05W4155	mg/L	0.5	7.2	
05W4155MB01		Water	11/04/05	11/04/05	11/04/05	05W4155	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E300.0

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E300.0
Project ID:	Camp Pendleton	Service ID:	054612	Collected by:	JC

Component Name: SULFATE
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-4612-1	102910-0227	Water	11/02/05	11/02/05	11/03/05	05W4144	mg/L	20	179	
05-4612-3	102910-0229	Water	11/02/05	11/02/05	11/03/05	05W4144	mg/L	20	254	
05-4612-4	102910-0230	Water	11/02/05	11/02/05	11/03/05	05W4144	mg/L	50	488	
05-4612-5	102910-0231	Water	11/02/05	11/02/05	11/03/05	05W4144	mg/L	20	151	
05-4612-6	102910-0232	Water	11/02/05	11/02/05	11/03/05	05W4144	mg/L	20	233	
05-4612-7	102910-0233	Water	11/02/05	11/02/05	11/03/05	05W4144	mg/L	10	113	
05W4144MB01		Water	11/03/05	11/03/05	11/03/05	05W4144	mg/L	1	<1	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

CHAIN OF CUSTODY

Ref. Document # CP-102910-028

Company Name: EAR Eng., Constr. & Support Services
Address: 4097 Trailcreek Road
City / State / Zip: Riverside, CA 92505
Project Manager: Mindy Mathias
Phone/Fax Number: (951) 735-5575/(951) 735-8775
Lab/Field Coordinator: Keith Aleckson
Company Name (Field Team): Shaw Environmental, Inc.
Address: 3347 Michelson Drive, Suite 200
City / State / Zip: Irvine, CA 92612
Phone/Fax Number: (949) 660-5481/(949) 475-5433

Project Number: 102910
Project Name: Camp Pendleton, CA
Project Location:
Purchase Order #: 1025-0185
Lab Destination: APCL
Lab Contact: Hsin-Yi Lee
Lab Phone #: (909)590-1828

Program: [X] Navy [ ] AFCEE [ ] DOT [ ] USACE [ ] NPDES [ ] RCRA [ ] Other

Requesting Testing Program

Shaw Sample Number	Location	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		BTEX, EPA 8021B	TPH-Diesel, CA LUFT M8015	Alkalinity, EPA 310.1	Nitrate/Nitrite as N, EPA 353.3	Sulfate, EPA 300.0	Dissolved Methane, RSK175	PAHs, EPA 8310				MS/MSD
102910-0237	TRIP BLANK	11-3-05	0800	QC	BW	2	3	✓						✓										
102910-0238	2666-MW8	11-3-05	0830	LF	GW	10	3	✓			✓	✓		✓	✓	✓	✓	✓	✓					
102910-0239	2666-MW5	11-3-05	0905	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
102910-0240	2666-MW7	11-3-05	1020	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
102910-0241	2666-MW10	11-3-05	1120	LF	GW	10	4	X			X	X		X	X	X	X	X	X					
102910-0242	[redacted] 24W10A	11-3-05	1310	LF	GW	10	4	X			X	X		X	X	X	X	X	X					
102910-0243	24W11A	11-3-05	1425	LF	GW	10	3	X			X	X		X	X	X	X	X	X					
102910-0244	Equipment Rinsate	11-3-05	1455	QC	BW	4	3	X			~~X~~ NO cp	X		X	X	~~X~~ NO cp								

4845

Special Instructions: Send hard copy report and EDD to both Jillian Ly at EAR and Keith Aleckson at Shaw Environmental, Inc.

Sampler(s) Name(s): Jim Cirillo

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11/3/05	1625	[signature]	11/3/05	1625
[signature]	11/3/05	1845	[signature]	11/3/05	1845

Turnaround Time: Normal - 10 Working Day | Rush

Method Codes
C = Composite | G = Grab
LF - Low Flow | QC = Field QC

Matrix Codes
BW = Field Blank Water | SOL = Other Solid
DW = Drinking Water | SO =Soil
GW = Ground Water | SL = Sludge
WW = Waste Water | WP = Wipe Samples
SW = Surface Water | A = Air Sample
LIQ = Other Liquid | W = Water

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
EAR Engineering,
Attention: Mindy Mathias
4097 Trail Creek Road
Riverside CA 92505
Tel: (951)735-5575 Fax: (951)735-8775

Service ID #: 801-054645
Collected by: JC
Collected on: 11/03/05

Received: 11/03/05
Extracted: 11/08/05
Tested: 11/04-09/05
Reported: 11/15/05

Sample Description: Water
Project Description: 102910 Camp Pendleton

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0237 05-04645-1	102910-0238 05-04645-2	102910-0239 05-04645-3	102910-0240 05-04645-4
ALKALINITY	E310.1	mg/L	2	-	690	552	721
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	-	<0.5	<0.5	<0.5
Dilution Factor				1	50	50	50
SULFATE	E300.0	mg/L	1	-	401	511	376
BTXE							
Dilution Factor				1	1	1	1
BENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	0.3J
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	<1.5	<1.5	<1.5	<1.5
Dilution Factor				1	1	1	1
TPH - DIESEL	M8015E	mg/L	0.1	-	0.24	0.82	2.0
Dilution Factor				1	100	100	10
METHANE	RSK175	μg/L	3	-	860	1,700	270

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0241 05-04645-5	102910-0242 05-04645-6	102910-0243 05-04645-7	102910-0244 05-04645-8
ALKALINITY	E310.1	mg/L	2	264	258	228	-
NITRATE/NITRITE AS N	E353.3	mg/L	0.5	<0.5	2.7	3.1	-
Dilution Factor				50	50	50	1
SULFATE	E300.0	mg/L	1	693	96.9	433	-

Applied P & CH Laboratories
13760 Magnolia Ave., Chino, CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 102910-0241 05-04645-5	102910-0242 05-04645-6	102910-0243 05-04645-7	102910-0244 05-04645-8
BTXE							
Dilution Factor				1	1	1	1
BENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TOLUENE	SW8021B	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
XYLENES (TOTAL)	SW8021B	μg/L	1.5	<1.5	<1.5	<1.5	<1.5
Dilution Factor				1	1	1	1
TPH - DIESEL	M8015E	mg/L	0.1	0.2	0.02J	<0.1	<0.1
Dilution Factor				2	1	1	1
METHANE	RSK175	μg/L	3	75	<3	<3	-

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories

Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-1	Received Date:	11/03/2005
Sample ID:	**102910-0237**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	20:48
Data File Name:	4645.001	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	126
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	97
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-2	Received Date:	11/03/2005
Sample ID:	**102910-0238**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	21:10
Data File Name:	4645.002	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	95
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-3	Received Date:	11/03/2005
Sample ID:	**102910-0239**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	21:33
Data File Name:	4645.003	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	129
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	96
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-4	Received Date:	11/03/2005
Sample ID:	**102910-0240**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	21:55
Data File Name:	4645.004	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	0.3	J
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	125
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	91
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-5	Received Date:	11/03/2005
Sample ID:	**102910-0241**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	22:18
Data File Name:	4645.005	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	129
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	97
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-6	Received Date:	11/03/2005
Sample ID:	**102910-0242**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	22:40
Data File Name:	4645.006	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	128
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	94
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-7	Received Date:	11/03/2005
Sample ID:	**102910-0243**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	23:02
Data File Name:	4645.007	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	129
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	100
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method SW8021B

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-8	Received Date:	11/03/2005
Sample ID:	**102910-0244**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5035	Instrument ID:	GC: B
Anal. Method:	SW8021B	Prep. Date:	11/04/05	Anal. Date:	11/04/05
Batch No:	05G3352	Prep. No:	–	Anal. Time:	23:25
Data File Name:	4645.008	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	BENZENE	71-43-2	μg/L	0.5	<0.5	U
2	ETHYLBENZENE	100-41-4	μg/L	0.5	<0.5	U
3	TOLUENE	108-88-3	μg/L	0.5	<0.5	U
4	XYLENES (TOTAL)	1330-20-7	μg/L	1.5	<1.5	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (PID)	460-00-4	65-134	124
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 1,1,1-TRIFLUOROTOLUENE	98-08-8	50-200	102
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-2	Received Date:	11/03/2005
Sample ID:	**102910-0238**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	18:25
Data File Name:	4645.002	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	0.24	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	100
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-3	Received Date:	11/03/2005
Sample ID:	**102910-0239**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	19:50
Data File Name:	4645.003	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	0.82	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	102
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-4	Received Date:	11/03/2005
Sample ID:	**102910-0240**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	20:19
Data File Name:	4645.004	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	2.0	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	97
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-5	Received Date:	11/03/2005
Sample ID:	**102910-0241**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	20:47
Data File Name:	4645.005	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	0.2	

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	105
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-6	Received Date:	11/03/2005
Sample ID:	**102910-0242**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	21:16
Data File Name:	4645.006	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	0.02	J

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	105
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-7	Received Date:	11/03/2005
Sample ID:	**102910-0243**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	21:44
Data File Name:	4645.007	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	<0.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	96
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015E

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-8	Received Date:	11/03/2005
Sample ID:	**102910-0244**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	11/08/05	Anal. Date:	11/08/05
Batch No:	05G3375	Prep. No:	1 of 1	Anal. Time:	22:13
Data File Name:	4645.008	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH - DIESEL	68334-30-5	mg/L	0.1	<0.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	N-OCTACOSANE	630-02-4	57-139	107
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-2	Received Date:	11/03/2005
Sample ID:	**102910-0238**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:18
Data File Name:	4645.102	Sample Amount:	33 mL	Dilution Factor:	100
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	300	860	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-3	Received Date:	11/03/2005
Sample ID:	**102910-0239**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:23
Data File Name:	4645.103	Sample Amount:	33 mL	Dilution Factor:	100
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	300	1700	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-4	Received Date:	11/03/2005
Sample ID:	**102910-0240**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:31
Data File Name:	4645.104	Sample Amount:	33 mL	Dilution Factor:	10
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	30	270	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-5	Received Date:	11/03/2005
Sample ID:	**102910-0241**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:42
Data File Name:	4645.105	Sample Amount:	33 mL	Dilution Factor:	2
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	6	75	

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-6	Received Date:	11/03/2005
Sample ID:	**102910-0242**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:47
Data File Name:	4645.006	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method RSK175

Client Name:	EAR Engineering,	Project No:	102910	Collection Date:	11/03/2005
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC
		Lab Sample ID:	05-4645-7	Received Date:	11/03/2005
Sample ID:	**102910-0243**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	-	Instrument ID:	GC: K
Anal. Method:	RSK175	Prep. Date:	-	Anal. Date:	11/04/05
Batch No:	05G3354	Prep. No:	–	Anal. Time:	16:50
Data File Name:	4645.007	Sample Amount:	33 mL	Dilution Factor:	1
Extract Vol.	-				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	METHANE	74-82-8	μg/L	3	<3	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Wet Analysis Results for Method E310.1

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E310.1
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC

Component Name: Alkalinity
CAS No: 11-43-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-4645-2	102910-0238	Water	11/03/05	11/03/05	11/07/05	05W4178	mg/L	2	690	
05-4645-3	102910-0239	Water	11/03/05	11/03/05	11/07/05	05W4178	mg/L	2	552	
05-4645-4	102910-0240	Water	11/03/05	11/03/05	11/07/05	05W4178	mg/L	2	721	
05-4645-5	102910-0241	Water	11/03/05	11/03/05	11/07/05	05W4178	mg/L	2	264	
05-4645-6	102910-0242	Water	11/03/05	11/03/05	11/07/05	05W4178	mg/L	2	258	
05-4645-7	102910-0243	Water	11/03/05	11/03/05	11/07/05	05W4178	mg/L	2	228	
05W4178MB01		Water	11/07/05	11/07/05	11/07/05	05W4178	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E353.3

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E353.3
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC

Component Name: NITRATE/NITRITE as N
CAS No: 10-28-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-4645-2	102910-0238	Water	11/03/05	11/03/05	11/09/05	05W4221	mg/L	0.5	<0.5	U
05-4645-3	102910-0239	Water	11/03/05	11/03/05	11/09/05	05W4221	mg/L	0.5	<0.5	U
05-4645-4	102910-0240	Water	11/03/05	11/03/05	11/09/05	05W4221	mg/L	0.5	<0.5	U
05-4645-5	102910-0241	Water	11/03/05	11/03/05	11/09/05	05W4221	mg/L	0.5	<0.5	U
05-4645-6	102910-0242	Water	11/03/05	11/03/05	11/09/05	05W4221	mg/L	0.5	2.7	
05-4645-7	102910-0243	Water	11/03/05	11/03/05	11/09/05	05W4221	mg/L	0.5	3.1	
05W4221MB01		Water	11/09/05	11/09/05	11/09/05	05W4221	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method E300.0

Client Name:	EAR Engineering,	Project No:	102910	Anal. Method	E300.0
Project ID:	Camp Pendleton	Service ID:	054645	Collected by:	JC

Component Name: SULFATE
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
05-4645-2	102910-0238	Water	11/03/05	11/03/05	11/04/05	05W4156	mg/L	50	401	
05-4645-3	102910-0239	Water	11/03/05	11/03/05	11/04/05	05W4156	mg/L	50	511	
05-4645-4	102910-0240	Water	11/03/05	11/03/05	11/04/05	05W4156	mg/L	50	376	
05-4645-5	102910-0241	Water	11/03/05	11/03/05	11/04/05	05W4156	mg/L	50	693	
05-4645-6	102910-0242	Water	11/03/05	11/03/05	11/04/05	05W4156	mg/L	50	96.9	
05-4645-7	102910-0243	Water	11/03/05	11/03/05	11/04/05	05W4156	mg/L	50	433	
05W4156MB01		Water	11/04/05	11/04/05	11/04/05	05W4156	mg/L	1	<1	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Appendix C
Summary of Historical Analytical Results

Table C-1
TPH Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
MW-1	19951-0134	07/27/98	6.8 y	NA	5.0 U	NA	1.1 J	NA	5.0 U	NA	0.91 J	NA	10 U
MW-1	19951-0201	10/20/98	6.2	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-1	19951-0231	02/18/99	5.48	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-1	19951-0265	05/13/99	3.10	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-1	19951-0290	08/05/99	4.59	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-1	19951-0324	10/21/99	3.6	0.5 U	5 U	0.5 U	5 U	1.2	1.6 J	1.5 U	5 U	5 U	5 U
MW-1	19951-0392	02/16/00	3.6	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-1	19951-0427	04/27/00	5.0	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-1	19951-0450	08/23/00	3.5	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	NA	5 U
MW-1	19951-0528	11/21/00	3.7	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-1	823304-0007	03/07/01	5.16	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-1	823304-0040	05/01/01	3.48	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-1	842592-0047	08/27/03	7.6	NA	0.23 J	NA	0.33 J	NA	1 U	NA	3 U	NA	1 U
MW-1	842592-0076	11/18/03	6	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-1	102910-0015	03/17/04	3.09	1.3 U	NA	1.1 U	NA	0.7 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0050	05/24/04	3.43	0.5 U	NA	0.7 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0066	08/17/04	3.82	0.5 U	NA	0.6	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0104	11/16/04	3.33	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0138	03/02/05	1.4	0.1 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0176	04/27/05	1.2	0.5 U	NA	0.8 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0186A	08/23/05	1.5	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0227	11/02/05	1.6	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-1	102910-0228 (Dup)	11/02/05	1.6	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-2	19951-0133	07/27/98	3.1 y	NA	0.96 J	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-2	19951-0199	10/20/98	2.0	NA	0.84 J	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-2	19951-0233	02/18/99	1.71	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-2	19951-0266	05/13/99	1.30	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-2	19951-0292	08/05/99	2.15	0.9	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-2	19951-0326	10/21/99	1.5	0.95	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	4.4 J	5 U
MW-2	19951-0394	02/16/00	1.3	0.64	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-2	19951-0425	04/27/00	0.8	0.72	0.98 J	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-2	19951-0448	08/23/00	1.5	0.76	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	NA	5 U
MW-2	19951-0525	11/21/00	.87	NA	0.37 J	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-2	823304-0004	03/07/01	1.3	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-2	823304-0037	05/01/01	0.91	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-2	842592-0046	08/27/03	1.5	NA	1	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-2	842592-0077	11/18/03	1.5	NA	0.6	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-2	102910-0017	03/17/04	1.0	1.4 U	NA	0.9 U	NA	0.5 U	NA	1.5 U	NA	NA	NA

Table C-1
TPH Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
MW-2	102910-0049	05/24/04	1.7	0.9	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-2	102910-0063	08/17/04	2.32	1 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-2	102910-0105	11/16/04	1.1	0.5 U	NA	1 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-2	102910-0136	03/02/05	0.46	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-2	102910-0174	04/27/05	5.79	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-2	102910-0188	08/23/05	3.87	0.5 U	NA	0.5 U	NA	0.3 J	NA	1.5 U	NA	NA	NA
MW-2	102910-0230	11/02/05	1.6 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	19951-0132	07/27/98	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-3	19951-0198	10/20/98	1.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-3	19951-0230	02/18/99	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-3	19951-0264	05/13/99	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-3	19951-0293	08/05/99	0.48 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-3	19951-0327	10/21/99	0.48 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	5 U
MW-3	19951-0395	02/16/00	0.096 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-3	19951-0424	04/27/00	0.093 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-3	19951-0449	08/23/00	0.092 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	NA	5 U
MW-3	19951-0522	11/20/00	0.095 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-3	823304-0003	03/07/01	0.09 J	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-3	823304-0036	05/01/01	0.1 U	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-3	842592-0049	08/27/03	0.094 U	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-3	842592-0080	11/19/03	0.094 U	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-3	102910-0018	03/17/04	0.096 U	0.6 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0044	05/21/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0045 (Dup)	05/21/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0064	08/17/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0106	11/16/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0135	03/02/05	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0173	04/27/05	0.1 U	0.5 U	NA	0.7 U	NA	0.6 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0191	08/24/05	0.02 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0192 (Dup)	08/24/05	0.02 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-3	102910-0231	11/02/05	0.096 U	0.2 J	NA	0.5 J	NA	0.5 J	NA	3.3	NA	NA	NA
MW-4	19951-0139	07/28/98	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-4	19951-0197	10/20/98	1.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-4	19951-0229	02/18/99	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-4	19951-0263	05/13/99	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-4	19951-0294	08/05/99	0.48 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-4	19951-0328	10/21/99	0.48 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	5 U
MW-4	19951-0396	02/16/00	0.096 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U

Table C-1
TPH Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
MW-4	19951-0423	04/27/00	0.093 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-4	19951-0451	08/23/00	0.092 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	NA	5 U
MW-4	19951-0520	11/20/00	0.1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-4	19951-0521 (Dup)	11/20/00	0.095 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-4	823304-0002	03/07/01	0.1	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-4	823304-0034	05/01/01	0.1 U	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-4	823304-0035 (Dup)	05/01/01	0.1 U	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-4	842592-0048	08/27/03	0.094 U	NA	0.5 U	NA	1 U	NA	0.24 J	NA	3 U	NA	1 U
MW-4	842592-0081	11/19/03	0.095 U	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-4	842592-0082 (Dup)	11/19/03	0.095 U	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-4	102910-0019	03/17/04	0.096 U	0.8 U	NA	0.5 U	NA	0.6 U	NA	1.5 U	NA	NA	NA
MW-4	102910-0046	05/21/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-4	102910-0067	08/17/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-4	102910-0107	11/16/04	0.096 U	0.5 U	NA	1.4 U	NA	0.5 U	NA	2.6 U	NA	NA	NA
MW-4	102910-0134	03/02/05	0.096 U	0.5 UJ	NA	0.5 UJ	NA	0.5 UJ	NA	1.5 UJ	NA	NA	NA
MW-4	102910-0172	04/27/05	0.1 U	0.5 U	NA	0.5 U	NA	0.6 U	NA	1.5 U	NA	NA	NA
MW-4	102910-0193	08/24/05	0.03 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-4	102910-0232	11/02/05	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-5	19951-0140	07/28/98	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-5	19951-0206	10/21/98	1.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-5	19951-0239	02/22/99	0.98	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-5	19951-0257	05/12/99	1	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-5	19951-0299	08/06/99	1.59	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-5	19951-0300 (Dup)	08/06/99	1.60	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-5	19951-0335	10/22/99	1.1	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	5 U
MW-5	19951-0399	02/16/00	0.88	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-5	19951-0400 (Dup)	02/16/00	0.89	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	1 U	NA
MW-5	19951-0429	04/27/00	0.92	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-5	19951-0453	08/24/00	0.86	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-5	19951-0531	11/21/00	0.75	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-5	823304-0011	03/08/01	0.79	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-5	823304-0042	05/01/01	0.72	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-5	842592-0055	08/28/03	1.6	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-5	842592-0085	11/19/03	1.5	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-5	102910-0023	03/18/04	0.38	0.5 U	NA	1.0 U	NA	0.5 U	NA	1.7 U	NA	NA	NA
MW-5	102910-0053	05/24/04	0.42	0.5 U	NA	0.7 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-5	102910-0072	08/18/04	0.41	0.5 U	NA	0.6 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-5	102910-0112	11/17/04	0.36	0.08 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA

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TPH Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
MW-5	102910-0113 (Dup)	11/17/04	0.37	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-5	102910-0143	03/03/05	0.29	0.09 J	NA	0.6 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-5	102910-0178	04/27/05	0.4	0.5 U	NA	0.6 U	NA	0.6 U	NA	1.5 U	NA	NA	NA
MW-5	102910-0185A	08/23/05	0.93	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-5	102910-0239	11/03/05	0.82	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-6	19951-0131 (Dup)	07/27/98	4.9 y	NA	0.66 J	NA	0.47 J	NA	5.0 U	NA	0.46 J	NA	10 U
MW-6	19951-0135	07/27/98	4.3 y	NA	0.50 J	NA	0.34 J	NA	5.0 U	NA	5.0 U	NA	10 U
MW-6	19951-0200	10/20/98	5.1	NA	0.32 J	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-6	19951-0232	02/18/99	5.76	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-6	19951-0262 (Dup)	05/13/99	4.10	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-6	19951-0267	05/13/99	3.20	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-6	19951-0291	08/05/99	6.30	0.35 J	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-6	19951-0325	10/21/99	7.9	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	5 U
MW-6	19951-0393	02/16/00	5.3	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-6	19951-0426	04/27/00	5.6	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-6	19951-0452	08/23/00	NA	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-6	19951-0452A	08/24/00	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0526	11/21/00	6.9	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-6	823304-0008	03/07/01	5.21	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-6	823304-0041	05/01/01	2.70	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-6	842592-0045	08/27/03	0.84	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-6	842592-0075	11/18/03	1.1	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-6	102910-0016	03/17/04	0.41	0.8 U	NA	1.1 U	NA	0.6 U	NA	1.5 U	NA	NA	NA
MW-6	102910-0051	05/24/04	0.44	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-6	102910-0065	08/17/04	0.45	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-6	102910-0116	11/17/04	3.5	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-6	102910-0137	03/02/05	0.096 U	0.09 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-6	102910-0175	04/27/05	0.1 U	0.5 U	NA	1.7 U	NA	0.7 U	NA	1.5 U	NA	NA	NA
MW-6	102910-0187	08/23/05	0.05 J	0.5 U	NA	1	NA	0.4 J	NA	2.2 U	NA	NA	NA
MW-6	102910-0229	11/02/05	0.096 U	0.2 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	19951-0141	07/28/98	1.0 U	NA	0.46 J	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-7	19951-0207	10/21/98	1.0 U	NA	0.38 J	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-7	19951-0240	02/22/99	35	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-7	19951-0259	05/12/99	1.62	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-7	19951-0298	08/06/99	2.36	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-7	19951-0332	10/22/99	1.5	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-7	19951-0333 (Dup)	10/22/99	1.7	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	5 U
MW-7	19951-0397	02/16/00	1.6	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U

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Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
MW-7	19951-0428	04/27/00	1.9	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-7	19951-0454	08/24/00	1.3	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-7	19951-0529	11/21/00	1.6	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-7	823304-0006	03/07/01	1.8	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-7	823304-0039	05/01/01	1.1	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-7	842592-0054	08/28/03	3.4	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-7	842592-0084	11/19/03	2.8	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-7	102910-0022	03/18/04	1.2	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0052	05/24/04	1.7	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0069	08/17/04	2.26	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0111	11/17/04	1.6	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0142	03/03/05	1.3	0.09 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0177	04/27/05	1.7	0.8 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0208	08/25/05	1.6	0.8 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-7	102910-0240	11/03/05	2	0.3 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	19951-143	08/07/98	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-8	19951-0208	10/21/98	1.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U
MW-8	19951-0238	02/22/99	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-8	19951-0258	05/12/99	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
MW-8	19951-0301	08/06/99	0.48 U	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	10 U
MW-8	19951-0334	10/22/99	0.3	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	5 U	5 U
MW-8	19951-0398	02/16/00	0.3	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-8	19951-0430	04/27/00	0.14	0.5 U	5 U	0.5 U	5 U	0.5 U	5 U	1.5 U	5 U	1 U	5 U
MW-8	19951-0455	08/24/00	0.61	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-8	19951-0532	11/21/00	0.18	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-8	823304-0014	03/08/01	0.25	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-8	823304-0045	05/02/01	0.23	NA	5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-8	842592-0056	08/28/03	0.89	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-8	842592-0057 (Dup)	08/28/03	0.92	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-8	842592-0087	11/19/03	0.79	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-8	102910-0024	03/18/04	0.26	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0054	05/24/04	0.36	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0073	08/18/04	0.32	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0074 (Dup)	08/18/04	0.27	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0114	11/17/04	0.2	0.1 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0144	03/03/05	0.2	0.2 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0145 (Dup)	03/03/05	0.44	0.3 J	NA	1.4 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0182	04/28/05	0.2	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA

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Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
MW-8	102910-0184A	08/23/05	0.2	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-8	102910-0238	11/03/05	0.24	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	19951-0437	07/13/00	0.53	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	2.5 J
MW-9	19951-0462	08/24/00	0.43	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	2.9 J
MW-9	19951-0530	11/21/00	0.25	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1.8
MW-9	823304-0005	03/07/01	0.43	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	1 J
MW-9	823304-0038	05/01/01	0.35	NA	0.5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-9	842592-0050	08/27/03	0.26	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-9	842592-0083	11/19/03	0.29	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-9	102910-0029	03/18/04	0.08 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0060	05/25/04	0.07 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0068	08/17/04	0.06 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0108	11/16/04	1.1	0.5 U	NA	0.7 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0139	03/02/05	0.096 U	0.08 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0181	04/28/05	0.1	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0194	08/24/05	0.1	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0233	11/02/05	0.35	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-9	102910-0234 (Dup)	11/02/05	0.38	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	19951-0438	07/13/00	0.12	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-10	19951-0463	08/24/00	0.093 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-10	19951-0533	11/21/00	0.16	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
MW-10	823304-0012	03/08/01	0.20	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-10	823304-0013 (Dup)	03/08/01	0.2	NA	0.5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
MW-10	823304-0044	05/02/01	0.24	NA	5 U	NA	5 U	NA	5 U	NA	15 U	NA	5 U
MW-10	842592-0058	08/28/03	0.91	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-10	842592-0086	11/19/03	0.66	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
MW-10	102910-0025	03/18/04	0.21	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0026 (Dup)	03/18/04	0.22	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0055	05/24/04	0.29	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0075	08/18/04	0.33	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0115	11/17/04	0.32	0.1 J	NA	1.3 U	NA	0.5 U	NA	2.2 U	NA	NA	NA
MW-10	102910-0146	03/03/05	0.19	0.1 J	NA	1.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0183	04/28/05	0.1	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0180A	08/22/05	0.1	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
MW-10	102910-0241	11/03/05	0.2	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
RW-1	19951-0136	07/27/98	14 y	NA	4.9 J	NA	7.2	NA	0.72 J	NA	1.4 J	NA	10 U
RW-1	19951-0204 (Dup)	10/21/98	1.0 U	NA	3.3	NA	6.3	NA	0.62 J	NA	3.0 J	NA	10 U
RW-1	19951-0205	10/21/98	1.0 U	NA	3.5	NA	6.3	NA	0.62 J	NA	3.1 J	NA	10 U

Table C-1
TPH Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			TPH - Diesel	Benzene		Ethylbenzene		Toluene		Xylene, (total)		MTBE	
Method			CA LUFT (8015M)	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B	EPA 8021B	EPA 8260B
Unit			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled											
RW-1	19951-0234	02/18/99	12.8	NA	4.17 J	NA	6.87	NA	5 U	NA	13.7	NA	10 U
RW-1	19951-0235 (Dup)	02/18/99	11.4	NA	4.68 J	NA	6.66	NA	5 U	NA	13.3	NA	10 U
RW-1	19951-0268	05/13/99	6.40	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	10 U
RW-1	19951-0295	08/05/99	14.5	2.9	3.7 J	5.5	6.6	0.48 J	5 U	3.0	2.7 J	5 U	10 U
RW-1	19951-0329	10/21/99	11	3.4	5 U	6.6	5.7	0.5 U	5 U	2.6	5 U	5 U	5 U
24W-10A	842592-0059	08/28/03	.22	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
24W-10A	842592-0088	11/19/03	0.24	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
24W-10A	102910-0028	03/18/04	0.04 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-10A	102910-0058	05/25/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-10A	102910-0076	08/18/04	0.02 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-10A	102910-0117	11/17/04	0.1 U	0.1 J	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-10A	102910-0147	03/03/05	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-10A	102910-0184	04/28/05	0.096 U	0.2 J	NA	1.8	NA	0.6	NA	3.8 U	NA	NA	NA
24W-10A	102910-0195	08/24/05	0.03 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-10A	102910-0242	11/03/05	0.02 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	842592-0051	08/27/03	.052 J	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
24W-11A	842592-0089	11/19/03	0.043 J	NA	0.5 U	NA	1 U	NA	1 U	NA	3 U	NA	1 U
24W-11A	102910-0027	03/18/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	102910-0059	05/25/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	102910-0077	08/18/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	102910-0118	11/17/04	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	102910-0148	03/03/05	0.096 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	102910-0185	04/28/05	0.096 U	0.5 U	NA	0.7	NA	0.5 U	NA	1.7 U	NA	NA	NA
24W-11A	102910-0196	08/24/05	0.02 J	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA
24W-11A	102910-0243	11/03/05	0.1 U	0.5 U	NA	0.5 U	NA	0.5 U	NA	1.5 U	NA	NA	NA

Dup - duplicate
EPA - U.S. Environmental Protection Agency
J - estimated
M - modified
mg/L - milligrams per liter
NA - not analyzed
TPH - total petroleum hydrocarbons
U - not detected above, or equal to, the stated reporting limit
µg/L - micrograms per liter
y - TPH pattern does not match that of diesel

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro ethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-1	19951-0134	07/27/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0201	10/20/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0231	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0265	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0290	08/05/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0324	10/21/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0392	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0427	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0450	08/23/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-1	19951-0528	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-1	823304-0007	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-1	823304-0040	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-1	842592-0047	08/27/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-1	842592-0076	11/18/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0133	07/27/98	NA	5.0 U	5.0 U	5.0 U	0.57 J	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0199	10/20/98	NA	5.0 U	5.0 U	5.0 U	0.44 J	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0233	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0266	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0292	08/05/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0326	10/21/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0394	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0425	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0448	08/23/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-2	19951-0525	11/21/00	NA	1 U	1 U	1 U	0.41 J	1 U	NA	NA	NA	NA	NA	NA	NA
MW-2	823304-0004	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-2	823304-0037	05/01/01	5 U	5 U	5 U	5 U	0.4 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-2	842592-0046	08/27/03	NA	1 U	1 U	1 U	0.5 J	1 U	NA	NA	NA	NA	NA	NA	NA
MW-2	842592-0077	11/18/03	NA	1 U	1 U	1 U	0.4 J	1 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0132	07/27/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0198	10/20/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0230	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0264	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0293	08/05/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0327	10/21/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0395	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0424	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0449	08/23/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-3	19951-0522	11/20/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,2-Dichloro-benzene	1,2-Dichloro ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone	2-Chloroethyl vinyl ether	2-Chloro-toluene	2-Hexanone	4-Chloro-toluene	4-Methyl-2-pentanone
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled														
MW-1	19951-0134	07/27/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0201	10/20/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0231	02/18/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0265	05/13/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0290	08/05/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0324	10/21/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0392	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0427	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0450	08/23/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-1	19951-0528	11/21/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-1	823304-0007	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-1	823304-0040	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-1	842592-0047	08/27/03	NA	.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-1	842592-0076	11/18/03	NA	.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-2	19951-0133	07/27/98	NA	5.0 U	0.23 J	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0199	10/20/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0233	02/18/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0266	05/13/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0292	08/05/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0326	10/21/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0394	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0425	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0448	08/23/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-2	19951-0525	11/21/00	NA	1 U	0.81 J	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-2	823304-0004	03/07/01	5 U	5 U	0.7 J	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-2	823304-0037	05/01/01	5 U	5 U	0.6 J	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-2	842592-0046	08/27/03	NA	0.5 U	0.48 J	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-2	842592-0077	11/18/03	NA	0.5 U	0.3 J	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-3	19951-0132	07/27/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0198	10/20/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0230	02/18/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0264	05/13/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0293	08/05/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0327	10/21/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0395	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0424	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0449	08/23/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-3	19951-0522	11/20/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromodi-chloromethane	Bromoform	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-1	19951-0134	07/27/98	13 J	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-1	19951-0201	10/20/98	12 J	1.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-1	19951-0231	02/18/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0265	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0290	08/05/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0324	10/21/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0392	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0427	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0450	08/23/00	11 J	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	19951-0528	11/21/00	9.9 J	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-1	823304-0007	03/07/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-1	823304-0040	05/01/01	17 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-1	842592-0047	08/27/03	10 U	0.23 J	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-1	842592-0076	11/18/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-2	19951-0133	07/27/98	5.4 J	0.96 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-2	19951-0199	10/20/98	4.9 J	0.84 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	0.39 J	5.0 U	5.0 U	5.0 U
MW-2	19951-0233	02/18/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0266	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0292	08/05/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0326	10/21/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0394	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0425	04/27/00	50 U	0.98 J	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0448	08/23/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	19951-0525	11/21/00	20 U	0.37 J	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-2	823304-0004	03/07/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-2	823304-0037	05/01/01	16 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-2	842592-0046	08/27/03	10 U	1	NA	NA	1 U	1 U	2 U	1 U	0.5 U	0.35 J	2 U	1 U	2 U
MW-2	842592-0077	11/18/03	10 U	0.6	NA	NA	1 U	1 U	2 U	1 U	0.5 U	0.3 J	2 U	1 U	2 U
MW-3	19951-0132	07/27/98	50 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-3	19951-0198	10/20/98	50 U	1.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-3	19951-0230	02/18/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0264	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0293	08/05/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0327	10/21/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0395	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0424	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0449	08/23/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	19951-0522	11/20/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoro-methane	DIPE	Ethyl-benzene	ETBE	Hexachloro-butadiene	Isopropyl-benzene	Methylene chloride	MTBE	n-Butyl-benzene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-1	19951-0134	07/27/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	1.1 J	NA	NA	NA	0.25 JB	10 U	NA
MW-1	19951-0201	10/20/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-1	19951-0231	02/18/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	3.11 JB	10 U	NA
MW-1	19951-0265	05/13/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-1	19951-0290	08/05/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5.1	10 U	NA
MW-1	19951-0324	10/21/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-1	19951-0392	02/16/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-1	19951-0427	04/27/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-1	19951-0450	08/23/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-1	19951-0528	11/21/00	0.33 J	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2.3	1 U	NA
MW-1	823304-0007	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	823304-0040	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-1	842592-0047	08/27/03	1 U	1 U	1 U	NA	NA	NA	0.33 J	NA	NA	NA	2 UJ	1 U	NA
MW-1	842592-0076	11/18/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-2	19951-0133	07/27/98	13	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	0.25 JB	10 U	NA
MW-2	19951-0199	10/20/98	14	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-2	19951-0233	02/18/99	13.5	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	3.2 JB	10 U	NA
MW-2	19951-0266	05/13/99	11	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-2	19951-0292	08/05/99	9.6	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	4.9 J	10 U	NA
MW-2	19951-0326	10/21/99	8.4	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-2	19951-0394	02/16/00	4.1 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-2	19951-0425	04/27/00	4.9 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-2	19951-0448	08/23/00	2.5 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-2	19951-0525	11/21/00	1.2	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	0.36 J	1 U	NA
MW-2	823304-0004	03/07/01	2 J	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	823304-0037	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-2	842592-0046	08/27/03	5.9	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-2	842592-0077	11/18/03	4.9	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-3	19951-0132	07/27/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	0.23 JB	10 U	NA
MW-3	19951-0198	10/20/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-3	19951-0230	02/18/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	2.69 JB	10 U	NA
MW-3	19951-0264	05/13/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-3	19951-0293	08/05/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5.5	10 U	NA
MW-3	19951-0327	10/21/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-3	19951-0395	02/16/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-3	19951-0424	04/27/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	2.5 J	5 U	NA
MW-3	19951-0449	08/23/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-3	19951-0522	11/20/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2.6	1 U	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			N-Propyl-benzene	Naphthalene	p-Isopropyl-toluene	sec-Butyl-benzene	Styrene	TAME	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**												
MW-1	19951-0134	07/27/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
MW-1	19951-0201	10/20/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
MW-1	19951-0231	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-1	19951-0265	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-1	19951-0290	08/05/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-1	19951-0324	10/21/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	1.6 J	5 U	5 U
MW-1	19951-0392	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-1	19951-0427	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-1	19951-0450	08/23/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-1	19951-0528	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-1	823304-0007	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-1	823304-0040	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-1	842592-0047	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-1	842592-0076	11/18/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-2	19951-0133	07/27/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	1.8 J	5.0 U
MW-2	19951-0199	10/20/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	1.8 J	5.0 U
MW-2	19951-0233	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0266	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0292	08/05/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0326	10/21/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0394	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0425	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0448	08/23/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-2	19951-0525	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-2	823304-0004	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-2	823304-0037	05/01/01	5 U	5 U	5 U	2 J	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-2	842592-0046	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1	1 U
MW-2	842592-0077	11/18/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	0.53 J	1 U
MW-3	19951-0132	07/27/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	1.9 J	5.0 U	5.0 U	5.0 U
MW-3	19951-0198	10/20/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	2.1 J	5.0 U	5.0 U	5.0 U
MW-3	19951-0230	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	4.13 J	5 U	5 U	5 U
MW-3	19951-0264	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	4.4 J	5 U	5 U	5 U
MW-3	19951-0293	08/05/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 J	5 U	5 U	5 U
MW-3	19951-0327	10/21/99	NA	NA	NA	NA	5 U	NA	NA	NA	3.9 J	5 U	5 U	5 U
MW-3	19951-0395	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	3.7 J	5 U	5 U	5 U
MW-3	19951-0424	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5.1	5 U	5 U	5 U
MW-3	19951-0449	08/23/00	NA	NA	NA	NA	5 U	NA	NA	NA	5.5	5 U	5 U	5 U
MW-3	19951-0522	11/20/00	NA	NA	NA	NA	1 U	NA	NA	NA	5.4	1 U	1 U	1 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Trichloro-ethene	Trichloro-fluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (Total)
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**					
MW-1	19951-0134	07/27/98	5.0	NA	50 U	5.0 U	0.91 J
MW-1	19951-0201	10/20/98	5.0	NA	50 U	5.0 U	5.0 U
MW-1	19951-0231	02/18/99	5	NA	50 U	5 U	5 U
MW-1	19951-0265	05/13/99	5	NA	50 U	5 U	5 U
MW-1	19951-0290	08/05/99	5	NA	50 U	5 U	5 U
MW-1	19951-0324	10/21/99	5	NA	50 U	5 U	5 U
MW-1	19951-0392	02/16/00	5	NA	50 U	5 U	5 U
MW-1	19951-0427	04/27/00	5	NA	50 U	5 U	5 U
MW-1	19951-0450	08/23/00	5	NA	50 U	5 U	5 U
MW-1	19951-0528	11/21/00	1	NA	1 U	1 U	1 U
MW-1	823304-0007	03/07/01	5	5 U	NA	5 U	5 U
MW-1	823304-0040	05/01/01	5	5 U	NA	5 U	15 U
MW-1	842592-0047	08/27/03	1	NA	2 U	.5 U	3 U
MW-1	842592-0076	11/18/03	1	NA	2 U	.5 U	3 U
MW-2	19951-0133	07/27/98	0.42	NA	50 U	5.0 U	5.0 U
MW-2	19951-0199	10/20/98	0.35	NA	50 U	5.0 U	5.0 U
MW-2	19951-0233	02/18/99	5	NA	50 U	5 U	5 U
MW-2	19951-0266	05/13/99	5	NA	50 U	5 U	5 U
MW-2	19951-0292	08/05/99	5	NA	50 U	5 U	5 U
MW-2	19951-0326	10/21/99	5	NA	50 U	5 U	5 U
MW-2	19951-0394	02/16/00	5	NA	50 U	5 U	5 U
MW-2	19951-0425	04/27/00	5	NA	50 U	5 U	5 U
MW-2	19951-0448	08/23/00	5	NA	50 U	5 U	5 U
MW-2	19951-0525	11/21/00	1	NA	1 U	1 U	1 U
MW-2	823304-0004	03/07/01	5	5 U	NA	5 U	5 U
MW-2	823304-0037	05/01/01	5	5 U	NA	5 U	15 U
MW-2	842592-0046	08/27/03	1	NA	2 U	.5 U	3 U
MW-2	842592-0077	11/18/03	1	NA	2 U	.5 U	3 U
MW-3	19951-0132	07/27/98	5.0	NA	50 U	5.0 U	5.0 U
MW-3	19951-0198	10/20/98	5.0	NA	50 U	5.0 U	5.0 U
MW-3	19951-0230	02/18/99	5	NA	50 U	5 U	5 U
MW-3	19951-0264	05/13/99	5	NA	50 U	5 U	5 U
MW-3	19951-0293	08/05/99	5	NA	50 U	5 U	5 U
MW-3	19951-0327	10/21/99	5	NA	50 U	5 U	5 U
MW-3	19951-0395	02/16/00	5	NA	50 U	5 U	5 U
MW-3	19951-0424	04/27/00	5	NA	50 U	5 U	5 U
MW-3	19951-0449	08/23/00	5	NA	50 U	5 U	5 U
MW-3	19951-0522	11/20/00	1	NA	1 U	1 U	1 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro ethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-3	823304-0003	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-3	823304-0036	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-3	842592-0049	08/27/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-3	842592-0080	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0139	07/28/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0197	10/20/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0229	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0263	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0294	08/05/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0328	10/21/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0396	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0423	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0451	08/23/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0520	11/20/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-4	19951-0521 (Dup)	11/20/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-4	823304-0002	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-4	823304-0034	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-4	823304-0035 (Dup)	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-4	842592-0048	08/27/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-4	842592-0081	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-4	842592-0082 (Dup)	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0140	07/28/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0206	10/21/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0239	02/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0257	05/12/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0299	08/06/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0300 (Dup)	08/06/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0335	10/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0399	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0429	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0453	08/24/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-5	19951-0531	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-5	823304-0011	03/08/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-5	823304-0042	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-5	842592-0055	08/28/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-5	842592-0085	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0131 (Dup)	07/27/98	NA	5.0 U	5.0 U	5.0 U	0.28 J	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0135	07/27/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone	2-Chloroethyl vinyl ether	2-Chloro-toluene	2-Hexanone	4-Chloro-toluene	4-Methyl-2-pentanone
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled														
MW-3	823304-0003	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-3	823304-0036	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-3	842592-0049	08/27/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-3	842592-0080	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-4	19951-0139	07/28/98	NA	5.0 U	7.3	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0197	10/20/98	NA	5.0 U	7.5	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0229	02/18/99	NA	5 U	7.82	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0263	05/13/99	NA	5 U	10	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0294	08/05/99	NA	5 U	9.9	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0328	10/21/99	NA	5 U	11	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0396	02/16/00	NA	5 U	12	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0423	04/27/00	NA	5 U	13	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0451	08/23/00	NA	5 U	6.5	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-4	19951-0520	11/20/00	NA	1 U	7.3	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-4	19951-0521 (Dup)	11/20/00	NA	1 U	7.1	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-4	823304-0002	03/07/01	5 U	5 U	8	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-4	823304-0034	05/01/01	5 U	5 U	5 J	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-4	823304-0035 (Dup)	05/01/01	5 U	5 U	6	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-4	842592-0048	08/27/03	NA	0.5 U	1.3	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-4	842592-0081	11/19/03	NA	0.5 U	5.8	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-4	842592-0082 (Dup)	11/19/03	NA	0.5 U	5.3	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-5	19951-0140	07/28/98	NA	5.0 U	0.81 J	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0206	10/21/98	NA	5.0 U	0.58 J	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0239	02/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0257	05/12/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0299	08/06/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0300 (Dup)	08/06/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0335	10/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0399	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0429	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0453	08/24/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-5	19951-0531	11/21/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-5	823304-0011	03/08/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-5	823304-0042	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-5	842592-0055	08/28/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 UJ	NA	10 U	NA	10 U
MW-5	842592-0085	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-6	19951-0131 (Dup)	07/27/98	NA	1.1 J	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0135	07/27/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromodi-chloromethane	Bromoform	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-3	823304-0003	03/07/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-3	823304-0036	05/01/01	18 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-3	842592-0049	08/27/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-3	842592-0080	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-4	19951-0139	07/28/98	50 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	3.9 J	5.0 U
MW-4	19951-0197	10/20/98	50 U	1.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	4.2 J	5.0 U
MW-4	19951-0229	02/18/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	4.55 J	5 U
MW-4	19951-0263	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5.2	5 U
MW-4	19951-0294	08/05/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	6	5 U
MW-4	19951-0328	10/21/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	6.3	5 U
MW-4	19951-0396	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	6.3	5 U
MW-4	19951-0423	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	6.9	5 U
MW-4	19951-0451	08/23/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 J	5 U
MW-4	19951-0520	11/20/00	12 J	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	4.6	1 U
MW-4	19951-0521 (Dup)	11/20/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	4.8	1 U
MW-4	823304-0002	03/07/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 J	5 U
MW-4	823304-0034	05/01/01	17 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	4 J	5 U
MW-4	823304-0035 (Dup)	05/01/01	15 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	4 J	5 U
MW-4	842592-0048	08/27/03	10 U	0.5 U	NA	NA	1 U	1 UJ	2 U	1 U	0.5 U	1 U	2 U	1	2 U
MW-4	842592-0081	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	4	2 U
MW-4	842592-0082 (Dup)	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	3.6	2 U
MW-5	19951-0140	07/28/98	50 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-5	19951-0206	10/21/98	2.8 J	1.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-5	19951-0239	02/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0257	05/12/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0299	08/06/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0300 (Dup)	08/06/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0335	10/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0399	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0429	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0453	08/24/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	19951-0531	11/21/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-5	823304-0011	03/08/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-5	823304-0042	05/01/01	20 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-5	842592-0055	08/28/03	10 U	0.5 U	NA	NA	1 U	1 U	2 UJ	1 U	0.5 U	1 U	2 U	1 U	2 UJ
MW-5	842592-0085	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-6	19951-0131 (Dup)	07/27/98	50 U	0.66 J	NA	NA	0.63 J	0.60 J	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-6	19951-0135	07/27/98	2.2 J	0.50 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoro-methane	DIPE	Ethyl-benzene	ETBE	Hexachloro-butadiene	Isopropyl-benzene	Methylene chloride	MTBE	n-Butyl-benzene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-3	823304-0003	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	823304-0036	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-3	842592-0049	08/27/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-3	842592-0080	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-4	19951-0139	07/28/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-4	19951-0197	10/20/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-4	19951-0229	02/18/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	2.45 JB	10 U	NA
MW-4	19951-0263	05/13/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-4	19951-0294	08/05/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5.6	10 U	NA
MW-4	19951-0328	10/21/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-4	19951-0396	02/16/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-4	19951-0423	04/27/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-4	19951-0451	08/23/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-4	19951-0520	11/20/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2.6	1 U	NA
MW-4	19951-0521 (Dup)	11/20/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1.8	1 U	NA
MW-4	823304-0002	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-4	823304-0034	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-4	823304-0035 (Dup)	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-4	842592-0048	08/27/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-4	842592-0081	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-4	842592-0082 (Dup)	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-5	19951-0140	07/28/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-5	19951-0206	10/21/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-5	19951-0239	02/22/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-5	19951-0257	05/12/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-5	19951-0299	08/06/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-5	19951-0300 (Dup)	08/06/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-5	19951-0335	10/22/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-5	19951-0399	02/16/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-5	19951-0429	04/27/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-5	19951-0453	08/24/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-5	19951-0531	11/21/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1.4	1 U	NA
MW-5	823304-0011	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	3 J	5 U	5 U
MW-5	823304-0042	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-5	842592-0055	08/28/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-5	842592-0085	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-6	19951-0131 (Dup)	07/27/98	6.3	5.0 U	5.0 U	NA	NA	NA	0.47 J	NA	NA	NA	0.44 JB	10 U	NA
MW-6	19951-0135	07/27/98	6.5	5.0 U	5.0 U	NA	NA	NA	0.34 J	NA	NA	NA	0.25 JB	10 U	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			N-Propyl-benzene	Naphthalene	p-Isopropyl-toluene	sec-Butyl-benzene	Styrene	TAME	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-3	823304-0003	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5	5 U	5 U	5 U
MW-3	823304-0036	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	6	5 U	5 U	5 U
MW-3	842592-0049	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	3.2	1 U	1 U	1 U
MW-3	842592-0080	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	2.1	1 U	1 U	1 U
MW-4	19951-0139	07/28/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	0.34 J	5.0 U	5.0 U	5.0 U
MW-4	19951-0197	10/20/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	0.33 J	5.0 U	5.0 U	5.0 U
MW-4	19951-0229	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0263	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0294	08/05/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0328	10/21/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0396	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0423	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0451	08/23/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-4	19951-0520	11/20/00	NA	NA	NA	NA	1 U	NA	NA	NA	0.52 J	1 U	1 U	1 U
MW-4	19951-0521 (Dup)	11/20/00	NA	NA	NA	NA	1 U	NA	NA	NA	0.57 J	1 U	1 U	1 U
MW-4	823304-0002	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	0.5 J	5 U	5 U	5 U
MW-4	823304-0034	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	0.6 J	5 U	5 U	5 U
MW-4	823304-0035 (Dup)	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	0.6 J	5 U	5 U	5 U
MW-4	842592-0048	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	0.45 J	0.2 J	1 U	1 U
MW-4	842592-0081	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	0.28 J	1 U	1 U	1 U
MW-4	842592-0082 (Dup)	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	0.28 J	1 U	1 U	1 U
MW-5	19951-0140	07/28/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
MW-5	19951-0206	10/21/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
MW-5	19951-0239	02/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0257	05/12/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0299	08/06/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0300 (Dup)	08/06/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0335	10/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0399	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0429	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0453	08/24/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-5	19951-0531	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-5	823304-0011	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-5	823304-0042	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-5	842592-0055	08/28/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-5	842592-0085	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-6	19951-0131 (Dup)	07/27/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	1.8 J	5.0 U	5.0 U	5.0 U
MW-6	19951-0135	07/27/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	1.5 J	5.0 U	5.0 U	5.0 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Trichloro-ethene	Trichloro-fluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (Total)
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled					
MW-3	823304-0003	03/07/01	5	5 U	NA	5 U	5 U
MW-3	823304-0036	05/01/01	5	5 U	NA	5 U	15 U
MW-3	842592-0049	08/27/03	1	NA	2 U	0.5 U	3 U
MW-3	842592-0080	11/19/03	1	NA	2 U	0.5 U	3 U
MW-4	19951-0139	07/28/98	5.0	NA	50 U	5.0 U	5.0 U
MW-4	19951-0197	10/20/98	5.0	NA	50 U	5.0 U	5.0 U
MW-4	19951-0229	02/18/99	5	NA	50 U	5 U	5 U
MW-4	19951-0263	05/13/99	5	NA	50 U	5 U	5 U
MW-4	19951-0294	08/05/99	5	NA	50 U	5 U	5 U
MW-4	19951-0328	10/21/99	5	NA	50 U	5 U	5 U
MW-4	19951-0396	02/16/00	5	NA	50 U	5 U	5 U
MW-4	19951-0423	04/27/00	5	NA	50 U	5 U	5 U
MW-4	19951-0451	08/23/00	5	NA	50 U	5 U	5 U
MW-4	19951-0520	11/20/00	1	NA	1 U	1 U	1 U
MW-4	19951-0521 (Dup)	11/20/00	1	NA	1 U	1 U	1 U
MW-4	823304-0002	03/07/01	5	5 U	NA	5 U	5 U
MW-4	823304-0034	05/01/01	5	5 U	NA	5 U	15 U
MW-4	823304-0035 (Dup)	05/01/01	5	5 U	NA	5 U	15 U
MW-4	842592-0048	08/27/03	1	NA	2 U	0.5 U	3 U
MW-4	842592-0081	11/19/03	1	NA	2 U	0.5 U	3 U
MW-4	842592-0082 (Dup)	11/19/03	1	NA	2 U	0.5 U	3 U
MW-5	19951-0140	07/28/98	5.0	NA	50 U	5.0 U	5.0 U
MW-5	19951-0206	10/21/98	5.0	NA	50 U	5.0 U	5.0 U
MW-5	19951-0239	02/22/99	5	NA	50 U	5 U	5 U
MW-5	19951-0257	05/12/99	5	NA	50 U	5 U	5 U
MW-5	19951-0299	08/06/99	5	NA	50 U	5 U	5 U
MW-5	19951-0300 (Dup)	08/06/99	5	NA	50 U	5 U	5 U
MW-5	19951-0335	10/22/99	5	NA	50 U	5 U	5 U
MW-5	19951-0399	02/16/00	5	NA	50 U	5 U	5 U
MW-5	19951-0429	04/27/00	5	NA	50 U	5 U	5 U
MW-5	19951-0453	08/24/00	5	NA	50 U	5 U	5 U
MW-5	19951-0531	11/21/00	1	NA	1 U	1 U	1 U
MW-5	823304-0011	03/08/01	5	5 U	NA	5 U	5 U
MW-5	823304-0042	05/01/01	5	5 U	NA	5 U	15 U
MW-5	842592-0055	08/28/03	1	NA	2 U	0.5 U	3 U
MW-5	842592-0085	11/19/03	1	NA	2 U	0.5 U	3 U
MW-6	19951-0131 (Dup)	07/27/98	0.40	NA	50 U	5.0 U	0.46 J
MW-6	19951-0135	07/27/98	0.24	NA	50 U	5.0 U	5.0 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-6	19951-0200	10/20/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0232	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0262 (Dup)	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0267	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0291	08/05/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0325	10/21/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0393	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0426	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0452	08/23/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-6	19951-0526	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-6	823304-0008	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-6	823304-0041	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-6	842592-0045	08/27/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-6	842592-0075	11/18/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0141	07/28/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0207	10/21/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0240	02/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0259	05/12/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0298	08/06/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0332	10/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0333 (Dup)	10/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0397	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0428	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0454	08/24/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-7	19951-0529	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-7	823304-0006	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-7	823304-0039	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-7	842592-0054	08/28/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-7	842592-0084	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-143	08/07/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0208	10/21/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0238	02/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0258	05/12/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0301	08/06/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0334	10/22/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0398	02/16/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0430	04/27/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-8	19951-0455	08/24/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,2-Dichloro-benzene	1,2-Dichloro ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone	2-Chloroethyl vinyl ether	2-Chloro-toluene	2-Hexanone	4-Chloro-toluene	4-Methyl-2-pentanone
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**														
MW-6	19951-0200	10/20/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0232	02/18/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0262 (Dup)	05/13/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0267	05/13/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0291	08/05/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0325	10/21/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0393	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0426	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0452	08/23/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-6	19951-0526	11/21/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-6	823304-0008	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-6	823304-0041	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-6	842592-0045	08/27/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-6	842592-0075	11/18/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-7	19951-0141	07/28/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0207	10/21/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0240	02/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0259	05/12/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0298	08/06/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0332	10/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0333 (Dup)	10/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0397	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0428	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0454	08/24/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-7	19951-0529	11/21/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-7	823304-0006	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-7	823304-0039	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-7	842592-0054	08/28/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 UJ	NA	10 U	NA	10 U
MW-7	842592-0084	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-8	19951-143	08/07/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0208	10/21/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0238	02/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0258	05/12/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0301	08/06/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0334	10/22/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0398	02/16/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0430	04/27/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-8	19951-0455	08/24/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromodi-chloromethane	Bromoform	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-6	19951-0200	10/20/98	50 U	0.32 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-6	19951-0232	02/18/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0262 (Dup)	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0267	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0291	08/05/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0325	10/21/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0393	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0426	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0452	08/23/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	19951-0526	11/21/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-6	823304-0008	03/07/01	40 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-6	823304-0041	05/01/01	26 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-6	842592-0045	08/27/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-6	842592-0075	11/18/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-7	19951-0141	07/28/98	3.0 J	0.46 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-7	19951-0207	10/21/98	3.5 J	0.38 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-7	19951-0240	02/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0259	05/12/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0298	08/06/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0332	10/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0333 (Dup)	10/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0397	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0428	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0454	08/24/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	19951-0529	11/21/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-7	823304-0006	03/07/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-7	823304-0039	05/01/01	16 J	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-7	842592-0054	08/28/03	10 U	0.5 U	NA	NA	1 U	1 U	2 UJ	1 U	0.5 U	1 U	2 U	1 U	2 UJ
MW-7	842592-0084	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-8	19951-143	08/07/98	50 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-8	19951-0208	10/21/98	50 U	1.0 U	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-8	19951-0238	02/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-8	19951-0258	05/12/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-8	19951-0301	08/06/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-8	19951-0334	10/22/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-8	19951-0398	02/16/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-8	19951-0430	04/27/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-8	19951-0455	08/24/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoro-methane	DIPE	Ethyl-benzene	ETBE	Hexachloro-butadiene	Isopropyl-benzene	Methylene chloride	MTBE	n-Butyl-benzene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**													
MW-6	19951-0200	10/20/98	3.8 J	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-6	19951-0232	02/18/99	5.2	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	3.39 JB	10 U	NA
MW-6	19951-0262 (Dup)	05/13/99	3.8 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-6	19951-0267	05/13/99	3.8 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-6	19951-0291	08/05/99	6.5	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	4.8 J	10 U	NA
MW-6	19951-0325	10/21/99	8.1	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	2.6 J	5 U	NA
MW-6	19951-0393	02/16/00	7.9	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-6	19951-0426	04/27/00	3.2 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-6	19951-0452	08/23/00	1.4 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-6	19951-0526	11/21/00	2.1	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2.2	1 U	NA
MW-6	823304-0008	03/07/01	2 J	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	823304-0041	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-6	842592-0045	08/27/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-6	842592-0075	11/18/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-7	19951-0141	07/28/98	6.8	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-7	19951-0207	10/21/98	6.5	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-7	19951-0240	02/22/99	7.49	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-7	19951-0259	05/12/99	3.7 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-7	19951-0298	08/06/99	5.9	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-7	19951-0332	10/22/99	3.1 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-7	19951-0333 (Dup)	10/22/99	3.1 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-7	19951-0397	02/16/00	6	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-7	19951-0428	04/27/00	4.1 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-7	19951-0454	08/24/00	1.5 J	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-7	19951-0529	11/21/00	0.91 J	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1.6	1 U	NA
MW-7	823304-0006	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	823304-0039	05/01/01	0.9 J	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-7	842592-0054	08/28/03	0.24 J	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-7	842592-0084	11/19/03	4.1	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-8	19951-143	08/07/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-8	19951-0208	10/21/98	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	10 U	NA
MW-8	19951-0238	02/22/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-8	19951-0258	05/12/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-8	19951-0301	08/06/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
MW-8	19951-0334	10/22/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-8	19951-0398	02/16/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-8	19951-0430	04/27/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-8	19951-0455	08/24/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA

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Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			N-Propyl-benzene	Naphthalene	p-Isopropyl-toluene	sec-Butyl-benzene	Styrene	TAME	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-6	19951-0200	10/20/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	3.5 J	5.0 U	5.0 U	5.0 U
MW-6	19951-0232	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	3.49 J	5 U	5 U	5 U
MW-6	19951-0262 (Dup)	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	3.5 J	5 U	5 U	5 U
MW-6	19951-0267	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	3.6 J	5 U	5 U	5 U
MW-6	19951-0291	08/05/99	NA	NA	NA	NA	5 U	NA	NA	NA	3.7 J	5 U	5 U	5 U
MW-6	19951-0325	10/21/99	NA	NA	NA	NA	5 U	NA	NA	NA	1.6 J	5 U	5 U	5 U
MW-6	19951-0393	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	3.3 J	5 U	5 U	5 U
MW-6	19951-0426	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	4.2 J	5 U	5 U	5 U
MW-6	19951-0452	08/23/00	NA	NA	NA	NA	5 U	NA	NA	NA	5.8	5 U	5 U	5 U
MW-6	19951-0526	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	7.1	1 U	1 U	1 U
MW-6	823304-0008	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	8	5 U	5 U	5 U
MW-6	823304-0041	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	7	5 U	5 U	5 U
MW-6	842592-0045	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	0.4 J	1 U	1 U	1 U
MW-6	842592-0075	11/18/03	NA	NA	NA	NA	1 U	NA	NA	NA	0.61 J	1 U	1 U	1 U
MW-7	19951-0141	07/28/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	1.5 J	5.0 U
MW-7	19951-0207	10/21/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	1.4 J	5.0 U
MW-7	19951-0240	02/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0259	05/12/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0298	08/06/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0332	10/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0333 (Dup)	10/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0397	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0428	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0454	08/24/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-7	19951-0529	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-7	823304-0006	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-7	823304-0039	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-7	842592-0054	08/28/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-7	842592-0084	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	0.53 J	1 U
MW-8	19951-143	08/07/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
MW-8	19951-0208	10/21/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
MW-8	19951-0238	02/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-8	19951-0258	05/12/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-8	19951-0301	08/06/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-8	19951-0334	10/22/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-8	19951-0398	02/16/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-8	19951-0430	04/27/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-8	19951-0455	08/24/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U

Table C-2
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Analyte			Trichloro-ethene	Trichloro-fluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (Total)
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled					
MW-6	19951-0200	10/20/98	5.0	NA	50 U	5.0 U	5.0 U
MW-6	19951-0232	02/18/99	5	NA	50 U	5 U	5 U
MW-6	19951-0262 (Dup)	05/13/99	5	NA	50 U	5 U	5 U
MW-6	19951-0267	05/13/99	5	NA	50 U	5 U	5 U
MW-6	19951-0291	08/05/99	5	NA	50 U	5 U	5 U
MW-6	19951-0325	10/21/99	5	NA	50 U	5 U	5 U
MW-6	19951-0393	02/16/00	5	NA	50 U	5 U	5 U
MW-6	19951-0426	04/27/00	5	NA	50 U	5 U	5 U
MW-6	19951-0452	08/23/00	5	NA	50 U	5 U	5 U
MW-6	19951-0526	11/21/00	1.5	NA	1 U	1 U	1 U
MW-6	823304-0008	03/07/01	0.9	5 U	NA	5 U	5 U
MW-6	823304-0041	05/01/01	5	5 U	NA	5 U	15 U
MW-6	842592-0045	08/27/03	1	NA	2 U	0.5 U	3 U
MW-6	842592-0075	11/18/03	1	NA	2 U	0.5 U	3 U
MW-7	19951-0141	07/28/98	5.0	NA	50 U	5.0 U	5.0 U
MW-7	19951-0207	10/21/98	5.0	NA	50 U	5.0 U	5.0 U
MW-7	19951-0240	02/22/99	5	NA	50 U	5 U	5 U
MW-7	19951-0259	05/12/99	5	NA	50 U	5 U	5 U
MW-7	19951-0298	08/06/99	5	NA	50 U	5 U	5 U
MW-7	19951-0332	10/22/99	5	NA	50 U	5 U	5 U
MW-7	19951-0333 (Dup)	10/22/99	5	NA	50 U	5 U	5 U
MW-7	19951-0397	02/16/00	5	NA	50 U	5 U	5 U
MW-7	19951-0428	04/27/00	5	NA	50 U	5 U	5 U
MW-7	19951-0454	08/24/00	5	NA	50 U	5 U	5 U
MW-7	19951-0529	11/21/00	1	NA	1 U	1 U	1 U
MW-7	823304-0006	03/07/01	5	5 U	NA	5 U	5 U
MW-7	823304-0039	05/01/01	5	5 U	NA	5 U	15 U
MW-7	842592-0054	08/28/03	1	NA	2 U	0.5 U	3 U
MW-7	842592-0084	11/19/03	1	NA	2 U	0.5 U	3 U
MW-8	19951-143	08/07/98	5.0	NA	50 U	5.0 U	5.0 U
MW-8	19951-0208	10/21/98	5.0	NA	50 U	5.0 U	5.0 U
MW-8	19951-0238	02/22/99	5	NA	50 U	5 U	5 U
MW-8	19951-0258	05/12/99	5	NA	50 U	5 U	5 U
MW-8	19951-0301	08/06/99	5	NA	50 U	5 U	5 U
MW-8	19951-0334	10/22/99	5	NA	50 U	5 U	5 U
MW-8	19951-0398	02/16/00	5	NA	50 U	5 U	5 U
MW-8	19951-0430	04/27/00	5	NA	50 U	5 U	5 U
MW-8	19951-0455	08/24/00	5	NA	50 U	5 U	5 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro ethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-8	19951-0532	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-8	823304-0014	03/08/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8	823304-0045	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8	842592-0056	08/28/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-8	842592-0057 (Dup)	08/28/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-8	842592-0087	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-9	19951-0437	07/13/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-9	19951-0462	08/24/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-9	19951-0530	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-9	823304-0005	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-9	823304-0038	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-9	842592-0050	08/27/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-9	842592-0083	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-10	19951-0438	07/13/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-10	19951-0463	08/24/00	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
MW-10	19951-0533	11/21/00	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-10	823304-0012	03/08/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	823304-0013 (Dup)	03/08/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	823304-0044	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	842592-0058	08/28/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
MW-10	842592-0086	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0136	07/27/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0204 (Dup)	10/21/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0205	10/21/98	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0234	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0235 (Dup)	02/18/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0268	05/13/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0295	08/05/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
RW-1	19951-0329	10/21/99	NA	5 U	5 U	5 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
24W-10A	842592-0059	08/28/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,2-Dichloro-benzene	1,2-Dichloro ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone	2-Chloroethyl vinyl ether	2-Chloro-toluene	2-Hexanone	4-Chloro-toluene	4-Methyl-2-pentanone
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**														
MW-8	19951-0532	11/21/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-8	823304-0014	03/08/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-8	823304-0045	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-8	842592-0056	08/28/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 UJ	NA	10 U	NA	10 U
MW-8	842592-0057 (Dup)	08/28/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 UJ	NA	10 U	NA	10 U
MW-8	842592-0087	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-9	19951-0437	07/13/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-9	19951-0462	08/24/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-9	19951-0530	11/21/00	NA	1 U	1 U	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-9	823304-0005	03/07/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-9	823304-0038	05/01/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-9	842592-0050	08/27/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-9	842592-0083	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
MW-10	19951-0438	07/13/00	NA	5 U	1.1 J	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-10	19951-0463	08/24/00	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
MW-10	19951-0533	11/21/00	NA	1 U	1.6	NA	NA	NA	NA	NA	20 U	1 U	NA	20 U	NA	10 U
MW-10	823304-0012	03/08/01	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-10	823304-0013 (Dup)	03/08/01	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-10	823304-0044	05/02/01	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U	100 U	NA	5 U	NA	5 U	50 U
MW-10	842592-0058	08/28/03	NA	0.5 U	1.8	NA	NA	NA	NA	NA	10 U	5 UJ	NA	10 U	NA	10 U
MW-10	842592-0086	11/19/03	NA	0.5 U	1.4	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
RW-1	19951-0136	07/27/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0204 (Dup)	10/21/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0205	10/21/98	NA	5.0 U	5.0 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0234	02/18/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0235 (Dup)	02/18/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0268	05/13/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0295	08/05/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
RW-1	19951-0329	10/21/99	NA	5 U	5 U	NA	NA	NA	NA	NA	50 U	50 U	NA	50 U	NA	50 U
24W-10A	842592-0059	08/28/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromodi-chloromethane	Bromoform	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled													
MW-8	19951-0532	11/21/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-8	823304-0014	03/08/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8	823304-0045	05/02/01	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8	842592-0056	08/28/03	10 U	0.5 U	NA	NA	1 U	1 U	2 UJ	1 U	0.5 U	1 U	2 U	1 U	2 UJ
MW-8	842592-0057 (Dup)	08/28/03	10 U	0.5 U	NA	NA	1 U	1 U	2 UJ	1 U	0.5 U	1 U	2 U	1 U	2 UJ
MW-8	842592-0087	11/19/03	11	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-9	19951-0437	07/13/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-9	19951-0462	08/24/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-9	19951-0530	11/21/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-9	823304-0005	03/07/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-9	823304-0038	05/01/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-9	842592-0050	08/27/03	10 U	0.5 U	NA	NA	1 U	1 UJ	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-9	842592-0083	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
MW-10	19951-0438	07/13/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-10	19951-0463	08/24/00	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
MW-10	19951-0533	11/21/00	20 U	1 U	NA	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
MW-10	823304-0012	03/08/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	823304-0013 (Dup)	03/08/01	100 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	823304-0044	05/02/01	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	842592-0058	08/28/03	13 U	0.5 U	NA	NA	1 U	1 U	2 UJ	1 U	0.5 U	1 U	2 U	1 U	2 UJ
MW-10	842592-0086	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
RW-1	19951-0136	07/27/98	5.3 J	4.9 J	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
RW-1	19951-0204 (Dup)	10/21/98	50 U	3.3	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
RW-1	19951-0205	10/21/98	5.7 J	3.5	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
RW-1	19951-0234	02/18/99	50 U	4.17 J	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
RW-1	19951-0235 (Dup)	02/18/99	50 U	4.68 J	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
RW-1	19951-0268	05/13/99	50 U	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
RW-1	19951-0295	08/05/99	50 U	3.7 J	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
RW-1	19951-0329	10/21/99	28 J	5 U	NA	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
24W-10A	842592-0059	08/28/03	10 U	0.5 U	NA	NA	1 U	1 UJ	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoro-methane	DIPE	Ethyl-benzene	ETBE	Hexachloro-butadiene	Isopropyl-benzene	Methylene chloride	MTBE	n-Butyl-benzene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**													
MW-8	19951-0532	11/21/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1.6	1 U	NA
MW-8	823304-0014	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	3 J	5 U	5 U
MW-8	823304-0045	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8	842592-0056	08/28/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-8	842592-0057 (Dup)	08/28/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-8	842592-0087	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-9	19951-0437	07/13/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	2.5 J	NA
MW-9	19951-0462	08/24/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	2.9 J	NA
MW-9	19951-0530	11/21/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1.7	1.8	NA
MW-9	823304-0005	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	5 U	1 J	5 U
MW-9	823304-0038	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	3 J	5 U	5 U
MW-9	842592-0050	08/27/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-9	842592-0083	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
MW-10	19951-0438	07/13/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-10	19951-0463	08/24/00	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	NA
MW-10	19951-0533	11/21/00	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2.5	1 U	NA
MW-10	823304-0012	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	2 J	5 U	5 U
MW-10	823304-0013 (Dup)	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	5 U	NA	5 U	5 U	3 J	5 U	5 U
MW-10	823304-0044	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-10	842592-0058	08/28/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
MW-10	842592-0086	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
RW-1	19951-0136	07/27/98	4.3 J	5.0 U	5.0 U	NA	NA	NA	7.2	NA	NA	NA	0.27 JB	10 U	NA
RW-1	19951-0204 (Dup)	10/21/98	3.0 J	5.0 U	5.0 U	NA	NA	NA	6.3	NA	NA	NA	5.0 U	10 U	NA
RW-1	19951-0205	10/21/98	3.0 J	5.0 U	5.0 U	NA	NA	NA	6.3	NA	NA	NA	5.0 U	10 U	NA
RW-1	19951-0234	02/18/99	2.94 J	5 U	5 U	NA	NA	NA	6.87	NA	NA	NA	3.38 JB	10 U	NA
RW-1	19951-0235 (Dup)	02/18/99	3.35 J	5 U	5 U	NA	NA	NA	6.66	NA	NA	NA	3.96 JB	10 U	NA
RW-1	19951-0268	05/13/99	5 U	5 U	5 U	NA	NA	NA	5 U	NA	NA	NA	5 U	10 U	NA
RW-1	19951-0295	08/05/99	2.8 J	5 U	5 U	NA	NA	NA	6.6	NA	NA	NA	6	10 U	NA
RW-1	19951-0329	10/21/99	3.2 J	5 U	5 U	NA	NA	NA	5.7	NA	NA	NA	5 U	5 U	NA
24W-10A	842592-0059	08/28/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			N-Propyl-benzene	Naphthalene	p-Isopropyl-toluene	sec-Butyl-benzene	Styrene	TAME	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-8	19951-0532	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-8	823304-0014	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-8	823304-0045	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U	5 U
MW-8	842592-0056	08/28/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-8	842592-0057 (Dup)	08/28/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-8	842592-0087	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-9	19951-0437	07/13/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-9	19951-0462	08/24/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-9	19951-0530	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	0.61 J	1 U	1 U	1 U
MW-9	823304-0005	03/07/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-9	823304-0038	05/01/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-9	842592-0050	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-9	842592-0083	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-10	19951-0438	07/13/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-10	19951-0463	08/24/00	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
MW-10	19951-0533	11/21/00	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-10	823304-0012	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-10	823304-0013 (Dup)	03/08/01	5 U	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	5 U	5 U	5 U
MW-10	823304-0044	05/02/01	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U	5 U
MW-10	842592-0058	08/28/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
MW-10	842592-0086	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	1 U	1 U	1 U
RW-1	19951-0136	07/27/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	0.72 J	5.0 U	5.0 U
RW-1	19951-0204 (Dup)	10/21/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	0.62 J	5.0 U	5.0 U
RW-1	19951-0205	10/21/98	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	0.62 J	5.0 U	5.0 U
RW-1	19951-0234	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
RW-1	19951-0235 (Dup)	02/18/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
RW-1	19951-0268	05/13/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
RW-1	19951-0295	08/05/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
RW-1	19951-0329	10/21/99	NA	NA	NA	NA	5 U	NA	NA	NA	5 U	5 U	5 U	5 U
24W-10A	842592-0059	08/28/03	NA	NA	NA	NA	1 U	NA	NA	NA	5.1	1 U	1 U	1 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Trichloro-ethene	Trichloro-fluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (Total)
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled					
MW-8	19951-0532	11/21/00	1	NA	1 U	1 U	1 U
MW-8	823304-0014	03/08/01	5	5 U	NA	5 U	5 U
MW-8	823304-0045	05/02/01	5	5 U	NA	5 U	15 U
MW-8	842592-0056	08/28/03	1	NA	2 U	0.5 U	3 U
MW-8	842592-0057 (Dup)	08/28/03	1	NA	2 U	0.5 U	3 U
MW-8	842592-0087	11/19/03	1	NA	2 U	0.5 U	3 U
MW-9	19951-0437	07/13/00	5	NA	50 U	5 U	5 U
MW-9	19951-0462	08/24/00	5	NA	50 U	5 U	5 U
MW-9	19951-0530	11/21/00	1	NA	1 U	1 U	1 U
MW-9	823304-0005	03/07/01	5	5 U	NA	5 U	5 U
MW-9	823304-0038	05/01/01	5	5 U	NA	5 U	15 U
MW-9	842592-0050	08/27/03	1	NA	2 U	0.5 U	3 U
MW-9	842592-0083	11/19/03	1	NA	2 U	0.5 U	3 U
MW-10	19951-0438	07/13/00	5	NA	50 U	5 U	5 U
MW-10	19951-0463	08/24/00	5	NA	50 U	5 U	5 U
MW-10	19951-0533	11/21/00	1	NA	1 U	1 U	1 U
MW-10	823304-0012	03/08/01	5	5 U	NA	5 U	5 U
MW-10	823304-0013 (Dup)	03/08/01	5	5 U	NA	5 U	5 U
MW-10	823304-0044	05/02/01	5	5 U	NA	5 U	15 U
MW-10	842592-0058	08/28/03	1	NA	2 U	.5 U	3 U
MW-10	842592-0086	11/19/03	1	NA	2 U	.5 U	3 U
RW-1	19951-0136	07/27/98	0.26	NA	50 U	5.0 U	1.4 J
RW-1	19951-0204 (Dup)	10/21/98	0.62	NA	50 U	5.0 U	3.0 J
RW-1	19951-0205	10/21/98	0.21	NA	50 U	5.0 U	3.1 J
RW-1	19951-0234	02/18/99	5	NA	50 U	5 U	13.7
RW-1	19951-0235 (Dup)	02/18/99	5	NA	50 U	5 U	13.3
RW-1	19951-0268	05/13/99	5	NA	50 U	5 U	5 U
RW-1	19951-0295	08/05/99	5	NA	50 U	5 U	2.7 J
RW-1	19951-0329	10/21/99	5	NA	50 U	5 U	5 U
24W-10A	842592-0059	08/28/03	1	NA	2 U	0.5 U	3 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro ethene	1,1-Dichloro-propene	1,2,3-Trichloro-benzene	1,2,3-Trichloro-propane	1,2,4-Trichloro-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-3-chloropropane	1,2-Dibromo-ethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**													
24W-10A	842592-0088	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
24W-11A	842592-0051	08/27/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
24W-11A	842592-0089	11/19/03	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone	2-Chloroethyl vinyl ether	2-Chloro-toluene	2-Hexanone	4-Chloro-toluene	4-Methyl-2-pentanone
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**														
24W-10A	842592-0088	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U
24W-11A	842592-0051	08/27/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 UJ	NA	10 U	NA	10 U
24W-11A	842592-0089	11/19/03	NA	0.5 U	1 U	NA	NA	NA	NA	NA	10 U	5 U	NA	10 U	NA	10 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Acetone	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromodi-chloromethane	Bromoform	Bromo-methane	Carbon disulfide	Carbon tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**													
24W-10A	842592-0088	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U
24W-11A	842592-0051	08/27/03	10 U	0.5 U	NA	NA	1 U	1 U	2 UJ	1 U	0.5 U	1 U	2 U	1 U	2 UJ
24W-11A	842592-0089	11/19/03	10 U	0.5 U	NA	NA	1 U	1 U	2 U	1 U	0.5 U	1 U	2 U	1 U	2 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			cis-1,2-Dichloroethene	cis-1,3-Dichloro-propene	Dibromo-chloromethane	Dibromo-methane	Dichloro-difluoro-methane	DIPE	Ethyl-benzene	ETBE	Hexachloro-butadiene	Isopropyl-benzene	Methylene chloride	MTBE	n-Butyl-benzene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**													
24W-10A	842592-0088	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA
24W-11A	842592-0051	08/27/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 UJ	1 U	NA
24W-11A	842592-0089	11/19/03	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	2 U	1 U	NA

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			N-Propyl-benzene	Naphthalene	p-Isopropyl-toluene	sec-Butyl-benzene	Styrene	TAME	tert-Butyl alcohol	tert-Butylbenzene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloro-propene
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	**Sample Number**	**Date Sampled**												
24W-10A	842592-0088	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	3	1 U	1 U	1 U
24W-11A	842592-0051	08/27/03	NA	NA	NA	NA	1 U	NA	NA	NA	3.3	1 U	1 U	1 U
24W-11A	842592-0089	11/19/03	NA	NA	NA	NA	1 U	NA	NA	NA	3.3	1 U	1 U	1 U

Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Trichloro-ethene	Trichloro-fluoro-methane	Vinyl acetate	Vinyl chloride	Xylenes (Total)
Method			EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Unit			µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled					
24W-10A	842592-0088	11/19/03	1.2	NA	2 U	0.5 U	3 U
24W-11A	842592-0051	08/27/03	1.6	NA	2 U	0.5 U	3 U
24W-11A	842592-0089	11/19/03	1	NA	2 U	0.5 U	3 U

Footnotes for Table C-2
Volatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

B - The analyte was found in an associated blank, as well as in the sample.
DIPE - Diisopropyl ether
Dup - duplicate
EPA - U.S. Environmental Protection Agency
ETBE - Ethyl tert butyl ether
J - estimated
NA - not analyzed
MTBE - Methyl tert-butyl ether
TAME - Tert amyl methyl ether
U - not detected above, or equal to, the stated reporting limit
µg/L - micrograms per liter

Table C-3
Semivolatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			2-Chloro-naphthalene	2-Methyl-naphthalene	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene	
Method			EPA 8270C	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled										
MW-1	19951-0134	07/27/98	10 U	1.2 J	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-1	842592-0047	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-1	842592-0076	11/18/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-1	102910-0015	03/17/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-1	102910-0050	05/24/04	NA	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA
MW-2	19951-0133	07/27/98	10 U	1.2 J	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-2	842592-0046	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-2	842592-0077	11/18/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-2	102910-0017	03/17/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-2	102910-0049	05/24/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	19951-0132	07/27/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-3	842592-0049	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-3	842592-0080	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-3	102910-0018	03/17/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	102910-0044	05/21/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	102910-0045 (Dup)	05/21/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-4	19951-0139	07/28/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-4	842592-0048	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-4	842592-0081	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-4	842592-0082 (Dup)	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-4	102910-0019	03/17/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-4	102910-0046	05/21/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-5	19951-0140	07/28/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-5	842592-0055	08/28/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-5	842592-0085	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-5	102910-0023	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-5	102910-0053	05/24/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-6	19951-0135	07/27/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-6	842592-0045	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-6	842592-0075	11/18/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-6	102910-0016	03/17/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-6	102910-0051	05/24/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-7	19951-0141	07/28/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-7	842592-0054	08/28/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA

Table C-3
Semivolatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(ghi)perylene		Benzo(k) fluoranthene		Chrysene		Dibenzo(a,h) anthracene	
Method			EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-1	19951-0134	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-1	842592-0047	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-1	842592-0076	11/18/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-1	102910-0015	03/17/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-1	102910-0050	05/24/04	1 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA
MW-2	19951-0133	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-2	842592-0046	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-2	842592-0077	11/18/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-2	102910-0017	03/17/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-2	102910-0049	05/24/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	19951-0132	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-3	842592-0049	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-3	842592-0080	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-3	102910-0018	03/17/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	102910-0044	05/21/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	102910-0045 (Dup)	05/21/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-4	19951-0139	07/28/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-4	842592-0048	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-4	842592-0081	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-4	842592-0082 (Dup)	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-4	102910-0019	03/17/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-4	102910-0046	05/21/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-5	19951-0140	07/28/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-5	842592-0055	08/28/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-5	842592-0085	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-5	102910-0023	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-5	102910-0053	05/24/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-6	19951-0135	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-6	842592-0045	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-6	842592-0075	11/18/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-6	102910-0016	03/17/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-6	102910-0051	05/24/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-7	19951-0141	07/28/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-7	842592-0054	08/28/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA

Table C-3
Semivolatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
Method			EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-1	19951-0134	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	1.0 J	NA	10 U	NA	10 U
MW-1	842592-0047	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-1	842592-0076	11/18/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-1	102910-0015	03/17/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-1	102910-0050	05/24/04	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA
MW-2	19951-0133	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	1.4 J	NA	10 U	NA	10 U
MW-2	842592-0046	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-2	842592-0077	11/18/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-2	102910-0017	03/17/04	10 U	NA	10 U	NA	10 U	NA	1 J	NA	10 U	NA	10 U	NA
MW-2	102910-0049	05/24/04	10 U	NA	10 U	NA	10 U	NA	0.8 J	NA	10 U	NA	10 U	NA
MW-3	19951-0132	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-3	842592-0049	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-3	842592-0080	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-3	102910-0018	03/17/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	102910-0044	05/21/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-3	102910-0045 (Dup)	05/21/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-4	19951-0139	07/28/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-4	842592-0048	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-4	842592-0081	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-4	842592-0082 (Dup)	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-4	102910-0019	03/17/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-4	102910-0046	05/21/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-5	19951-0140	07/28/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-5	842592-0055	08/28/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-5	842592-0085	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-5	102910-0023	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-5	102910-0053	05/24/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-6	19951-0135	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	2.6 J	NA	10 U	NA	10 U
MW-6	842592-0045	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-6	842592-0075	11/18/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-6	102910-0016	03/17/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-6	102910-0051	05/24/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-7	19951-0141	07/28/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-7	842592-0054	08/28/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA

Table C-3
Semivolatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			2-Chloro-naphthalene	2-Methyl-naphthalene	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene	
Method			EPA 8270C	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled										
MW-7	842592-0084	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-7	102910-0022	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-7	102910-0052	05/24/04	NA	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA
MW-8	19951-143	08/07/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-8	842592-0056	08/28/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-8	842592-0057 (Dup)	08/28/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-8	842592-0087	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-8	102910-0024	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-8	102910-0054	05/24/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-9	842592-0050	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-9	842592-0083	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-9	102910-0029	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-9	102910-0060	05/25/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	842592-0058	08/28/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-10	842592-0086	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
MW-10	102910-0025	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	102910-0026 (Dup)	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	102910-0055	05/24/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
RW-1	19951-0136	07/27/98	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
24W-10A	842592-0059	08/28/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
24W-10A	842592-0088	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
24W-10A	102910-0028	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-10A	102910-0058	05/25/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-11A	842592-0051	08/27/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
24W-11A	842592-0089	11/19/03	NA	NA	1.9 U	NA	3.8 U	NA	0.19 U	NA	0.19 U	NA
24W-11A	102910-0027	03/18/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-11A	102910-0059	05/25/04	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA

Dup - duplicate
EPA - U.S. Environmental Protection Agency
J - estimated
NA - not analyzed
U - not detected above, or equal to, the stated reporting limit
µg/L - micrograms per liter

Table C-3
Semivolatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(ghi)perylene		Benzo(k) fluoranthene		Chrysene		Dibenzo(a,h) anthracene	
Method			EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-7	842592-0084	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-7	102910-0022	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-7	102910-0052	05/24/04	1 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA
MW-8	19951-143	08/07/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-8	842592-0056	08/28/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-8	842592-0057 (Dup)	08/28/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-8	842592-0087	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-8	102910-0024	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-8	102910-0054	05/24/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-9	842592-0050	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-9	842592-0083	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-9	102910-0029	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-9	102910-0060	05/25/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	842592-0058	08/28/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-10	842592-0086	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
MW-10	102910-0025	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	102910-0026 (Dup)	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	102910-0055	05/24/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
RW-1	19951-0136	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
24W-10A	842592-0059	08/28/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
24W-10A	842592-0088	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
24W-10A	102910-0028	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-10A	102910-0058	05/25/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-11A	842592-0051	08/27/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
24W-11A	842592-0089	11/19/03	0.19 U	NA	0.4 U	NA	0.38 U	NA	0.19 U	NA	0.19 U	NA	0.38 U	NA
24W-11A	102910-0027	03/18/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-11A	102910-0059	05/25/04	0.2 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA

Dup - duplicate
EPA - U.S. Environmental Protection Agency
J - estimated
NA - not analyzed
U - not detected above, or equal to, the stated reporting limit
µg/L - micrograms per liter

Table C-3
Semivolatile Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
Method			EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C	EPA 8310	EPA 8270C
Unit			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location Code	Sample Number	Date Sampled												
MW-7	842592-0084	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-7	102910-0022	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-7	102910-0052	05/24/04	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA
MW-8	19951-143	08/07/98	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
MW-8	842592-0056	08/28/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-8	842592-0057 (Dup)	08/28/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-8	842592-0087	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-8	102910-0024	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-8	102910-0054	05/24/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-9	842592-0050	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-9	842592-0083	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-9	102910-0029	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-9	102910-0060	05/25/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	842592-0058	08/28/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-10	842592-0086	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
MW-10	102910-0025	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	102910-0026 (Dup)	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
MW-10	102910-0055	05/24/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
RW-1	19951-0136	07/27/98	NA	10 U	NA	10 U	NA	10 U	NA	2.3 J	NA	10 U	NA	10 U
24W-10A	842592-0059	08/28/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
24W-10A	842592-0088	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
24W-10A	102910-0028	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-10A	102910-0058	05/25/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-11A	842592-0051	08/27/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
24W-11A	842592-0089	11/19/03	0.38 U	NA	0.38 U	NA	0.19 U	NA	1.9 U	NA	0.19 U	NA	0.19 U	NA
24W-11A	102910-0027	03/18/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
24W-11A	102910-0059	05/25/04	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA

Dup - duplicate
EPA - U.S. Environmental Protection Agency
J - estimated
NA - not analyzed
U - not detected above, or equal to, the stated reporting limit
µg/L - micrograms per liter

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location Code	Sample Number	Date Sampled									
MW-1	19951-0134	07/27/98	0.50 U	NA	NA	210	NA	NA	0.10 U	0.10 U	16.7
MW-1	19951-0201	10/20/98	NA	NA	NA	530	NA	NA	0.10 U	0.10 U	16.2
MW-1	19951-0231	02/18/99	NA	130 U	120 U	162	NA	NA	0.5 U	NA	25 U
MW-1	19951-0265	05/13/99	NA	NA	NA	310	NA	NA	0.5 U	NA	9.28
MW-1	19951-0290	08/05/99	NA	13 U	12 U	120	NA	NA	0.5 U	NA	21.5
MW-1	19951-0324	10/21/99	NA	1.3 U	1.2 U	170	NA	NA	0.1 U	NA	33.5
MW-1	19951-0392	02/16/00	NA	NA	NA	210	NA	NA	1 U	NA	39.1
MW-1	19951-0427	04/27/00	NA	16 U	15 U	290	NA	NA	0.5 U	NA	53.6
MW-1	19951-0450	08/23/00	NA	NA	NA	35	NA	NA	2.52	NA	57.5
MW-1	19951-0528	11/21/00	NA	NA	NA	520	NA	NA	3.49	NA	52.6
MW-1	823304-0007	03/07/01	NA	NA	NA	36	300	2.22	NA	0.03	48
MW-1	823304-0040	05/01/01	NA	NA	NA	3	262	0.1 U	NA	NA	54
MW-1	842592-0047	08/27/03	NA	NA	NA	49	243	0.5 U	NA	NA	27.7
MW-1	842592-0076	11/18/2003	NA	NA	NA	53	252	.5 U	NA	NA	24.3
MW-1	102910-0015	03/17/04	NA	NA	NA	5	291	0.99	NA	NA	68.5
MW-1	102910-0050	05/24/04	NA	NA	NA	3 U	315	0.092 J	NA	NA	31.5
MW-1	102910-0066	08/17/04	NA	NA	NA	12	311	0.5 U	NA	NA	37.9
MW-1	102910-0104	11/16/04	NA	NA	NA	6.7	150	1.4	NA	NA	241
MW-1	102910-0138	03/02/05	NA	NA	NA	3 U	45.5	0.74	NA	NA	61.4
MW-1	102910-0176	04/27/05	NA	NA	NA	3 U	50.9	0.098 J	NA	NA	226
MW-1	102910-0186A	08/23/05	NA	NA	NA	3 U	86.3	0.5 U	NA	NA	290
MW-1	102910-0227	11/02/05	NA	NA	NA	7	116	0.5 U	NA	NA	179
MW-2	19951-0133	07/27/98	0.50 U	NA	NA	1300	NA	NA	0.10 U	0.20 U	18.8
MW-2	19951-0199	10/20/98	NA	NA	NA	780	NA	NA	0.10 U	0.20 U	35.0
MW-2	19951-0233	02/18/99	NA	260 U	240 U	485 U	NA	NA	0.5 U	NA	35.0
MW-2	19951-0266	05/13/99	NA	NA	NA	773	NA	NA	0.5 U	NA	51.8
MW-2	19951-0292	08/05/99	NA	130 U	120 U	240	NA	NA	0.152	NA	51.2
MW-2	19951-0326	10/21/99	NA	1.3 U	1.2 U	460	NA	NA	0.123	NA	52
MW-2	19951-0394	02/16/00	NA	NA	NA	470	NA	NA	1 U	NA	60.3
MW-2	19951-0425	04/27/00	NA	65 U	60 U	250	NA	NA	0.5 U	NA	83.5
MW-2	19951-0448	08/23/00	NA	NA	NA	820	NA	NA	3.27	NA	97.3
MW-2	19951-0525	11/21/00	NA	NA	NA	710	NA	NA	4.22	NA	127
MW-2	823304-0004	03/07/01	NA	NA	NA	320	673	0.37	NA	0.02	110
MW-2	823304-0037	05/01/01	NA	NA	NA	340	734	0.40	NA	NA	99
MW-2	842592-0046	08/27/03	NA	NA	NA	300	742	0.359 J	NA	NA	105
MW-2	842592-0077	11/18/2003	NA	NA	NA	200	720	.5 U	NA	NA	88.1
MW-2	102910-0017	03/17/04	NA	NA	NA	130	800	0.48 J	NA	NA	79.5

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-2	102910-0049	05/24/04	NA	NA	NA	98	780	0.082 J	NA	NA	58.9
MW-2	102910-0063	08/17/04	NA	NA	NA	2700	781	0.5 U	NA	NA	8.7 J
MW-2	102910-0105	11/16/04	NA	NA	NA	610	741	0.5 U	NA	NA	32.3
MW-2	102910-0136	03/02/05	NA	NA	NA	500	651	0.084 J	NA	NA	108
MW-2	102910-0174	04/27/05	NA	NA	NA	3 U	253	111	NA	NA	696
MW-2	102910-0188	08/23/05	NA	NA	NA	3 U	174	54.3	NA	NA	563
MW-2	102910-0230	11/02/05	NA	NA	NA	6.2	284	20.9	NA	NA	488
MW-3	19951-0132	07/27/98	0.50 U	NA	NA	1.5	NA	NA	4.6	0.50 UG	122
MW-3	19951-0198	10/20/98	NA	NA	NA	1.7	NA	NA	9.3	0.10 U	135
MW-3	19951-0230	02/18/99	NA	4.18	1.2 U	3.6 U	NA	NA	18.6	NA	146
MW-3	19951-0264	05/13/99	NA	NA	NA	5.3	NA	NA	24	NA	156
MW-3	19951-0293	08/05/99	NA	1.3 U	1.2 U	11	NA	NA	29.4	NA	139
MW-3	19951-0327	10/21/99	NA	1.3 U	1.2 U	4	NA	NA	34	NA	118
MW-3	19951-0395	02/16/00	NA	NA	NA	18	NA	NA	32.4	NA	110
MW-3	19951-0424	04/27/00	NA	1.3 U	1.2 U	7.3	NA	NA	37.7	NA	115
MW-3	19951-0449	08/23/00	NA	NA	NA	27	NA	NA	34.0	NA	108
MW-3	19951-0522	11/20/00	NA	NA	NA	17	NA	NA	35.3	NA	103
MW-3	823304-0003	03/07/01	NA	NA	NA	7.6	87	32.7	NA	0.02 U	98
MW-3	823304-0036	05/01/01	NA	NA	NA	4	89	31.1	NA	NA	100
MW-3	842592-0049	08/27/03	NA	NA	NA	0.67 J	148	26.4	NA	NA	189
MW-3	842592-0080	11/19/2003	NA	NA	NA	62	132	28.3	NA	NA	180
MW-3	102910-0018	03/17/04	NA	NA	NA	12	140	29.3	NA	NA	160
MW-3	102910-0044	05/21/04	NA	NA	NA	3 U	131	42.5	NA	NA	160
MW-3	102910-0064	08/17/04	NA	NA	NA	3 U	126	37.4	NA	NA	150
MW-3	102910-0106	11/16/04	NA	NA	NA	660	141	22	NA	NA	159
MW-3	102910-0135	03/02/05	NA	NA	NA	3 U	125	12.4	NA	NA	111
MW-3	102910-0173	04/27/05	NA	NA	NA	3 U	209	27.2	NA	NA	189
MW-3	102910-0191	08/24/05	NA	NA	NA	3 U	178	21	NA	NA	176
MW-3	102910-0231	11/02/05	NA	NA	NA	3 U	164	16.8	NA	NA	151
MW-4	19951-0139	07/28/98	0.50 U	NA	NA	1.7 B	NA	NA	7.0	0.50 UG	315
MW-4	19951-0197	10/20/98	NA	NA	NA	3.3	NA	NA	6.3	0.50 UG	500 U
MW-4	19951-0229	02/18/99	NA	1.3 U	30.8	17 U	NA	NA	5.24	NA	351
MW-4	19951-0263	05/13/99	NA	NA	NA	31	NA	NA	5.63	NA	344
MW-4	19951-0294	08/05/99	NA	1.3 U	1.2 U	3.5	NA	NA	5.2	NA	164
MW-4	19951-0328	10/21/99	NA	1.3 U	1.2 U	2.9	NA	NA	5.12	NA	295
MW-4	19951-0396	02/16/00	NA	NA	NA	0.91 J	NA	NA	4.83	NA	321
MW-4	19951-0423	04/27/00	NA	1.3 U	1.2 U	9.6	NA	NA	6.22	NA	329

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-4	19951-0451	08/23/00	NA	NA	NA	6.1	NA	NA	10.4	NA	314
MW-4	19951-0520	11/20/00	NA	NA	NA	2.1	NA	NA	9.69	NA	353
MW-4	19951-0521 (Dup)	11/20/00	NA	NA	NA	1.7	NA	NA	9.76	NA	332
MW-4	823304-0002	03/07/01	NA	NA	NA	3 U	209	5.69	NA	0.02 U	280
MW-4	823304-0034	05/01/01	NA	NA	NA	4	237	6.24	NA	NA	270
MW-4	823304-0035 (Dup)	05/01/01	NA	NA	NA	5	213	6.07	NA	NA	290
MW-4	842592-0048	08/27/03	NA	NA	NA	0.61 J	223	8.19	NA	NA	297
MW-4	842592-0081	11/19/2003	NA	NA	NA	63	200	7.96	NA	NA	297
MW-4	842592-0082 (Dup)	11/19/2003	NA	NA	NA	79	190	7.89	NA	NA	323
MW-4	102910-0019	03/17/04	NA	NA	NA	820	241	6.5	NA	NA	325
MW-4	102910-0046	05/21/04	NA	NA	NA	3 U	202	7.6 J	NA	NA	334
MW-4	102910-0067	08/17/04	NA	NA	NA	3 U	222	7.6	NA	NA	272
MW-4	102910-0107	11/16/04	NA	NA	NA	610	205	5.4	NA	NA	363
MW-4	102910-0134	03/02/05	NA	NA	NA	3 U	234	11.8	NA	NA	306
MW-4	102910-0172	04/27/05	NA	NA	NA	3 U	248	12	NA	NA	82.8
MW-4	102910-0193	08/24/05	NA	NA	NA	3 U	216	6.6	NA	NA	291
MW-4	102910-0232	11/02/05	NA	NA	NA	3 U	228	6.1	NA	NA	233
MW-5	19951-0140	07/28/98	0.50 U	NA	NA	190	NA	NA	0.52	2.0 UG	378
MW-5	19951-0206	10/21/98	NA	NA	NA	110	NA	NA	0.28	5.0 U	331
MW-5	19951-0239	02/22/99	NA	13 U	12 U	159 U	NA	NA	.5 U	NA	320
MW-5	19951-0257	05/12/99	NA	NA	NA	220	NA	NA	0.265	NA	351
MW-5	19951-0299	08/06/99	NA	13 U	12 U	140	NA	NA	0.5 U	NA	332
MW-5	19951-0335	10/22/99	NA	1.3 U	1.2 U	94	NA	NA	0.139	NA	333
MW-5	19951-0399	02/16/00	NA	NA	NA	230	NA	NA	1 U	NA	515
MW-5	19951-0429	04/27/00	NA	6.5 U	6 U	68	NA	NA	0.5 U	NA	539
MW-5	19951-0453	08/24/00	NA	NA	NA	190	NA	NA	0.5 U	NA	606
MW-5	19951-0531	11/21/00	NA	NA	NA	1400	NA	NA	5.50	NA	595
MW-5	823304-0011	03/08/01	NA	NA	NA	550	515	0.1	NA	0.03	570
MW-5	823304-0042	05/01/01	NA	NA	NA	130	218	0.28	NA	NA	502
MW-5	842592-0055	08/28/03	NA	NA	NA	400	620	50 U	NA	NA	745
MW-5	842592-0085	11/19/2003	NA	NA	NA	85	545	.11 J	NA	NA	736
MW-5	102910-0023	03/18/04	NA	NA	NA	870	701	0.061 J	NA	NA	808
MW-5	102910-0053	05/24/04	NA	NA	NA	130	672	0.5 U	NA	NA	749
MW-5	102910-0072	08/18/04	NA	NA	NA	690	611	0.5 U	NA	NA	760
MW-5	102910-0112	11/17/04	NA	NA	NA	600	605	0.5 U	NA	NA	685
MW-5	102910-0143	03/03/05	NA	NA	NA	2400	648	0.5 U	NA	NA	722
MW-5	102910-0178	04/27/05	NA	NA	NA	210	560	0.13 J	NA	NA	1540

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-5	102910-0185A	08/23/05	NA	NA	NA	210	541	0.43 B	NA	NA	496
MW-5	102910-0239	11/03/05	NA	NA	NA	1700	552	0.5 U	NA	NA	511
MW-6	19951-0135	07/27/98	0.50 U	NA	NA	750	NA	NA	2.8	1.0 UG	136
MW-6	19951-0200	10/20/98	NA	NA	NA	710	NA	NA	0.38	0.10 U	194
MW-6	19951-0232	02/18/99	NA	130 U	120 U	2090 U	NA	NA	0.5 U	NA	177
MW-6	19951-0267	05/13/99	NA	NA	NA	380	NA	NA	0.5 U	NA	194
MW-6	19951-0291	08/05/99	NA	26 U	24 U	110	NA	NA	0.1 U	NA	109
MW-6	19951-0325	10/21/99	NA	1.3 U	1.2 U	830	NA	NA	0.471	NA	56
MW-6	19951-0393	02/16/00	NA	NA	NA	730	NA	NA	1.21	NA	32.4
MW-6	19951-0426	04/27/00	NA	130 U	120 U	380	NA	NA	1.57	NA	183
MW-6	19951-0452	08/23/00	NA	NA	NA	380	NA	NA	2.00	NA	NA
MW-6	19951-0452A	08/24/00	NA	NA	NA	NA	NA	NA	NA	NA	275
MW-6	19951-0526	11/21/00	NA	NA	NA	85	NA	NA	NA	NA	NA
MW-6	19951-0527	11/21/00	NA	NA	NA	NA	NA	NA	NA	NA	265
MW-6	823304-0008	03/07/01	NA	NA	NA	3 U	209	1.1	NA	0.03	326
MW-6	823304-0041	05/01/01	NA	NA	NA	3 U	163	4.38	NA	NA	280
MW-6	842592-0045	08/27/03	NA	NA	NA	3 U	62.6	11.3	NA	NA	237
MW-6	842592-0075	11/18/2003	NA	NA	NA	3 U	90	13.1	NA	NA	260
MW-6	102910-0016	03/17/04	NA	NA	NA	3 U	125	16.2	NA	NA	323
MW-6	102910-0051	05/24/04	NA	NA	NA	3 U	79.5	11.4	NA	NA	291
MW-6	102910-0065	08/17/04	NA	NA	NA	NA	NA	14.5	NA	NA	NA
MW-6	102910-0116	11/17/04	NA	NA	NA	3 U	38.7	14.9	NA	NA	266
MW-6	102910-0137	03/02/05	NA	NA	NA	3 U	41.5	41.2	NA	NA	201
MW-6	102910-0175	04/27/05	NA	NA	NA	3 U	28.1	93.4	NA	NA	255
MW-6	102910-0187	08/23/05	NA	NA	NA	3 U	27.2	63.5	NA	NA	243
MW-6	102910-0229	11/02/05	NA	NA	NA	3 U	30.7	47.8	NA	NA	254
MW-7	19951-0141	07/28/98	0.50 U	NA	NA	270	NA	NA	0.50 UG	2.0 UG	261
MW-7	19951-0207	10/21/98	NA	NA	NA	820	NA	NA	0.10 U	5.0 U	306
MW-7	19951-0240	02/22/99	NA	130 U	120 U	540	NA	NA	0.5 U	NA	402
MW-7	19951-0259	05/12/99	NA	NA	NA	680	NA	NA	0.1 U	NA	396
MW-7	19951-0298	08/06/99	NA	65 U	60 U	450	NA	NA	0.5 U	NA	320
MW-7	19951-0333 (Dup)	10/22/99	NA	1.3 U	1.2 U	310	NA	NA	0.1 U	NA	270
MW-7	19951-0397	02/16/00	NA	NA	NA	1000	NA	NA	1 U	NA	319
MW-7	19951-0428	04/27/00	NA	130 U	120 U	750	NA	NA	0.5 U	NA	389
MW-7	19951-0454	08/24/00	NA	NA	NA	1600	NA	NA	0.5 U	NA	487
MW-7	19951-0529	11/21/00	NA	NA	NA	1200	NA	NA	7.21	NA	491
MW-7	823304-0006	03/07/01	NA	NA	NA	440	615	0.1 U	NA	0.02 U	480

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-7	823304-0039	05/01/01	NA	NA	NA	190	600	0.1 U	NA	NA	480
MW-7	842592-0054	08/28/03	NA	NA	NA	270	725	50 U	NA	NA	700
MW-7	842592-0084	11/19/2003	NA	NA	NA	550	525	0.5 U	NA	NA	697
MW-7	102910-0022	03/18/04	NA	NA	NA	29	893	8.7	NA	NA	937
MW-7	102910-0052	05/24/04	NA	NA	NA	140	915	0.5 U	NA	NA	913
MW-7	102910-0069	08/17/04	NA	NA	NA	230	1030	0.5 U	NA	NA	1110
MW-7	102910-0111	11/17/04	NA	NA	NA	230	860	0.5 U	NA	NA	970
MW-7	102910-0142	03/03/05	NA	NA	NA	160	651	0.5 U	NA	NA	540
MW-7	102910-0177	04/27/05	NA	NA	NA	240	600	0.5 U	NA	NA	464
MW-7	102910-0208	08/25/05	NA	NA	NA	290	652	0.5 U	NA	NA	378
MW-7	102910-0240	11/03/05	NA	NA	NA	270	721	0.5 U	NA	NA	376
MW-8	19951-143	08/07/98	0.50 U	NA	NA	0.85 JB	NA	NA	0.12	2.0 UG	184
MW-8	19951-0208	10/21/98	NA	NA	NA	11	NA	NA	0.10 U	5.0 U	157
MW-8	19951-0238	02/22/99	NA	130 U	120 U	668	NA	NA	0.5 U	NA	248
MW-8	19951-0258	05/12/99	NA	NA	NA	850	NA	NA	0.1 U	NA	263
MW-8	19951-0301	08/06/99	NA	130 U	120 U	940	NA	NA	0.5 U	NA	241
MW-8	19951-0334	10/22/99	NA	1.3 U	1.2 U	610	NA	NA	0.1 U	NA	186
MW-8	19951-0398	02/16/00	NA	NA	NA	83	NA	NA	1 U	NA	62.5
MW-8	19951-0430	04/27/00	NA	65 U	60 U	510	NA	NA	0.5 U	NA	153
MW-8	19951-0455	08/24/00	NA	NA	NA	2000	NA	NA	5.74	NA	146
MW-8	19951-0532	11/21/00	NA	NA	NA	450	NA	NA	4.56	NA	NA
MW-8	823304-0014	03/08/01	NA	NA	NA	1400	398	0.1 U	NA	0.02 U	140
MW-8	823304-0045	05/02/01	NA	NA	NA	940	537	0.1 U	NA	0.02 U	178
MW-8	842592-0056	08/28/03	NA	NA	NA	1200	595	50 U	NA	NA	278
MW-8	842592-0087	11/19/2003	NA	NA	NA	310	540	0.5 U	NA	NA	267
MW-8	102910-0024	03/18/04	NA	NA	NA	410	694	0.5 U	NA	NA	417
MW-8	102910-0054	05/24/04	NA	NA	NA	380	747	0.5 U	NA	NA	424
MW-8	102910-0073	08/18/04	NA	NA	NA	720	524	0.5 U	NA	NA	389
MW-8	102910-0114	11/17/04	NA	NA	NA	3000	373	0.5 U	NA	NA	225
MW-8	102910-0144	03/03/05	NA	NA	NA	300	844	0.5 U	NA	NA	509
MW-8	102910-0182	04/28/05	NA	NA	NA	3 U	833	0.054 J	NA	NA	461
MW-8	102910-0184A	08/23/05	NA	NA	NA	23	730	0.5 U	NA	NA	448
MW-8	102910-0238	11/03/05	NA	NA	NA	860	690	0.5 U	NA	NA	401
MW-9	19951-0462	08/24/00	NA	NA	NA	1.5	NA	NA	11.3	NA	76.3
MW-9	19951-0530	11/21/00	NA	NA	NA	0.83 J	NA	NA	11.0	NA	79.7
MW-9	823304-0005	03/07/01	NA	NA	NA	3 U	128	5.47	NA	0.056	42
MW-9	823304-0038	05/01/01	NA	NA	NA	3 U	135	3.85	NA	NA	38

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-9	842592-0050	08/27/03	NA	NA	NA	3 U	108	3.71 J	NA	NA	64.4
MW-9	842592-0083	11/19/03	NA	NA	NA	7.6	105	2.33	NA	NA	69.4
MW-9	102910-0029	03/18/04	NA	NA	NA	3 U	93.9	2.6	NA	NA	79.2
MW-9	102910-0060	05/25/04	NA	NA	NA	3 U	123	2.4	NA	NA	72.6
MW-9	102910-0068	08/17/04	NA	NA	NA	3 U	115	2.4	NA	NA	75.1
MW-9	102910-0108	11/16/04	NA	NA	NA	19	115	0.07 J	NA	NA	76.2
MW-9	102910-0139	03/02/05	NA	NA	NA	3 U	102	1.6	NA	NA	88.1
MW-9	102910-0181	04/28/05	NA	NA	NA	3 U	93.7	1	NA	NA	75
MW-9	102910-0194	08/24/05	NA	NA	NA	3 U	124	8.1	NA	NA	102
MW-9	102910-0233	11/02/05	NA	NA	NA	3 U	116	7.2	NA	NA	113
MW-10	19951-0463	08/24/00	NA	NA	NA	2.3	NA	NA	0.5 U	NA	328
MW-10	19951-0533	11/21/00	NA	NA	NA	23	NA	NA	9.38	NA	290
MW-10	823304-0012	03/08/01	NA	NA	NA	110	337	3.86	NA	0.057	240
MW-10	823304-0044	05/02/01	NA	NA	NA	45	350	3.90	NA	0.053	280
MW-10	842592-0058	08/28/03	NA	NA	NA	3200	465	50 U	NA	NA	273
MW-10	842592-0086	11/19/03	NA	NA	NA	200	375	2.24	NA	NA	310
MW-10	102910-0025	03/18/04	NA	NA	NA	40	518	0.5 U	NA	NA	385
MW-10	102910-0055	05/24/04	NA	NA	NA	330	470	0.5 U	NA	NA	324
MW-10	102910-0075	08/18/04	NA	NA	NA	3 U	437	0.5 U	NA	NA	323
MW-10	102910-0115	11/17/04	NA	NA	NA	220	520	0.5 U	NA	NA	388
MW-10	102910-0146	03/03/05	NA	NA	NA	110	469	0.5 U	NA	NA	398
MW-10	102910-0183	04/28/05	NA	NA	NA	190 J	335	0.5 U	NA	NA	768
MW-10	102910-0180A	08/22/05	NA	NA	NA	210	264	0.5 U	NA	NA	690
MW-10	102910-0241	11/03/05	NA	NA	NA	75	264	0.5 U	NA	NA	693
RW-1	19951-0136	07/27/98	0.50 U	NA	NA	4700	NA	NA	0.10 U	0.20 UG	0.49
RW-1	19951-0205	10/21/98	NA	NA	NA	2400	NA	NA	0.039 J	0.10 U	0.81
RW-1	19951-0234	02/18/99	NA	130 U	120 U	2430	NA	NA	0.5 U	NA	1.91
RW-1	19951-0268	05/13/99	NA	NA	NA	430	NA	NA	0.5 U	NA	5 U
RW-1	19951-0295	08/05/99	NA	260 U	240 U	320	NA	NA	0.1 U	NA	1 U
RW-1	19951-0329	10/21/99	NA	1.3 U	1.2 U	1000	NA	NA	0.1 U	NA	1 U
24W-10A	842592-0059	8/28/2003	NA	NA	NA	5.6	337	1.33 J	NA	NA	196
24W-10A	842592-0088	11/19/2003	NA	NA	NA	2.2 J	260	0.912	NA	NA	150
24W-10A	102910-0028	03/18/04	NA	NA	NA	3 U	472	0.1 J	NA	NA	99.1
24W-10A	102910-0058	05/25/04	NA	NA	NA	3 U	265	0.61	NA	NA	81.7
24W-10A	102910-0076	08/18/04	NA	NA	NA	3 U	224	1.6	NA	NA	99.2
24W-10A	102910-0117	11/17/04	NA	NA	NA	78	290	0.28 J	NA	NA	75.8
24W-10A	102910-0147	03/03/05	NA	NA	NA	3 U	351	0.5 U	NA	NA	116

Table C-4
Inorganic/Dissolved Gases Analytical Results for Groundwater Samples - 1998 Through 2005, Site 2666, Camp Pendleton, California

Analyte			Lead	Ethane	Ethene	Methane	Alkalinity (as CACO3)	Nitrate/Nitrite	Nitrate	Nitrite	Sulfate
Method			6010B	RSK175	RSK175	RSK175	EPA 310.1	EPA 300.0/ 353.1	EPA 300.0/ 353.1	EPA 300.0/ 354.1	EPA 300.0
Unit			mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
24W-10A	102910-0184	04/28/05	NA	NA	NA	3 U	301	4	NA	NA	99.4
24W-10A	102910-0195	08/24/05	NA	NA	NA	3 U	233	6.1	NA	NA	76.9
24W-10A	102910-0242	11/03/05	NA	NA	NA	3 U	258	2.7	NA	NA	96.9
24W-11A	842592-0051	8/27/2003	NA	NA	NA	1.9 J	115	3.3 J	NA	NA	472
24W-11A	842592-0089	11/19/2003	NA	NA	NA	2.2 J	82.5	1.68	NA	NA	513
24W-11A	102910-0027	03/18/04	NA	NA	NA	3 U	161	0.89	NA	NA	581
24W-11A	102910-0059	05/25/04	NA	NA	NA	3 U	166	1.9	NA	NA	457
24W-11A	102910-0077	08/18/04	NA	NA	NA	3 U	90.2	0.5 U	NA	NA	462
24W-11A	102910-0118	11/17/04	NA	NA	NA	3 U	69.1	0.089 J	NA	NA	488
24W-11A	102910-0148	03/03/05	NA	NA	NA	3 U	252	1.3	NA	NA	452
24W-11A	102910-0185	04/28/05	NA	NA	NA	3 U	250	1.6	NA	NA	467
24W-11A	102910-0196	08/24/05	NA	NA	NA	3 U	235	1.5	NA	NA	431
24W-11A	102910-0243	11/03/05	NA	NA	NA	3 U	228	3.1	NA	NA	433

B - positive value was found in method blank
Dup - duplicate
EPA - U.S. Environmental Protection Agency
J - estimated
mg/L - milligrams per liter
NA - not analyzed
U - not detected above, or equal to, the stated reporting limit
µg/L - micrograms per liter

Table C-5
Historical Summary of Field Monitoring Results - UST Site 2666

Well	Date	Dissolved Oxygen (mg/L)	Electrical Conductivity (mS/cm)	Ferrous Iron (mg/L)	Oxidation-Reduction Potential (mV)	Water Temperature (°C)
MW-1	2/15/1999	0.14	0.95	1.8	+39	23.90
MW-1	5/10/1999	0.27	1.27	1.8	+8	21.90
MW-1	8/5/1999	1.07	1.16	0.8	-13	21.60
MW-1	10/19/1999	0.38	2.09	0.2	-67	21.40
MW-1	2/16/2000	1.71	2.59	3.0	+86	17.40
MW-1	4/26/2000	0.69	1.91	1.6	+45	19.10
MW-1	8/23/2000	0.45	1.30	0.6	-2	22.71
MW-1	11/20/2000	5.57	1.58	ND	+230	23.25
MW-1	3/6/2001	0.77	1.43	1.0	+109	17.90
MW-1	4/30/2001	0.44	0.50	ND	+149	19.48
MW-1	8/27/2003	1.72	0.60	2.4	+133	24.98
MW-1	11/18/2003	2.09	0.63	1.6	+226	23.26
MW-1	3/17/2004	1.48	0.81	ND	+231	21.54
MW-1	5/24/2004	1.57	0.89	1.0	+226	22.62
MW-1	8/17/2004	3.42	0.89	ND	+370	23.88
MW-1	11/16/2004	2.21	0.96	ND	-125	22.32
MW-1	3/2/2005	2.90	0.470	ND	+125	22.04
MW-1	4/27/2005	0.43	0.702	ND	+46	21.84
MW-1	8/23/2005	0.78	0.941	3.2	-27	25.02
MW-1	11/2/2005	1.35	0.934	2.8	-22	22.69
MW-2	2/15/1999	0.28	1.90	1.0	+78	24.20
MW-2	5/10/1999	0.58	2.41	1.4	0	22.80
MW-2	8/5/1999	0.67	1.94	2.4	-71	22.10
MW-2	10/19/1999	0.45	1.87	2.0	-45	20.40
MW-2	2/16/2000	1.26	2.01	1.0	-10	18.10
MW-2	4/26/2000	0.52	1.90	1.8	-26	21.50
MW-2	8/23/2000	0.47	1.93	3.0	-15	21.55
MW-2	11/20/2000	5.64	2.13	1.1	+9	23.13
MW-2	3/6/2001	1.50	2.19	0.6	+4.2	18.90
MW-2	5/1/2001	0.46	1.16	ND	+99	19.21
MW-2	8/27/2003	1.82	1.84	2.6	+91	23.83
MW-2	11/18/2003	4.25	1.81	5.7	+107	24.14
MW-2	3/17/2004	1.89	2.13	4.0	+88	24.54
MW-2	5/24/2004	1.86	2.11	0.8	+215	23.16
MW-2	8/17/2004	0.43	2.00	4.0	+230	23.68
MW-2	11/16/2004	1.06	1.88	ND	+35	23.18
MW-2	3/2/2005	2.97	1.83	2.2	+12	22.92
MW-2	4/27/2005	0.75	3.00	ND	+1	21.55
MW-2	8/23/2005	0.69	2.46	ND	-54	27.50
MW-2	11/2/2005	1.71	2.37	ND	+34	25.01
MW-3	2/15/1999	0.32	0.97	ND	+139	23.40
MW-3	5/10/1999	1.99	1.24	ND	+164	22.10
MW-3	8/5/1999	4.25	1.27	ND	+113	21.60
MW-3	10/19/1999	2.79	1.27	ND	+110	23.40
MW-3	2/16/2000	1.79	1.53	ND	+80	16.10
MW-3	4/26/2000	2.71	1.12	ND	+145	20.90
MW-3	8/23/2000	5.18	1.64	ND	+223	20.73
MW-3	11/20/2000	5.45	1.80	ND	-25	22.77
MW-3	3/6/2001	2.37	1.83	ND	+171	18.50
MW-3	5/1/2001	6.51	1.93	ND	+292	19.30

Table C-5
Historical Summary of Field Monitoring Results - UST Site 2666

Well	Date	Dissolved Oxygen (mg/L)	Electrical Conductivity (mS/cm)	Ferrous Iron (mg/L)	Oxidation-Reduction Potential (mV)	Water Temperature (°C)
MW-3	8/27/2003	3.79	1.54	ND	+208	26.30
MW-3	11/19/2003	1.19	1.87	ND	+340	21.50
MW-3	3/17/2004	2.89	1.87	ND	+137	22.98
MW-3	5/21/2004	1.96	1.87	ND	+244	22.30
MW-3	8/17/2004	3.37	1.78	ND	+203	22.89
MW-3	11/16/2004	1.91	1.53	3.0	-34	25.32
MW-3	3/2/2005	4.05	0.895	ND	+94	20.94
MW-3	4/27/2005	0.95	1.409	ND	+46	20.77
MW-3	8/24/2005	5.20	1.111	ND	+39	21.94
MW-3	11/2/2005	4.63	1.173	ND	+72	24.22
MW-4	2/15/1999	0.81	1.98	ND	+140	23.50
MW-4	5/10/1999	0.33	1.96	ND	+153	22.80
MW-4	8/5/1999	1.13	2.21	ND	+110	21.60
MW-4	10/19/1999	1.34	2.31	ND	+75	22.40
MW-4	2/16/2000	1.26	2.74	ND	+100	18.90
MW-4	4/26/2000	1.05	2.66	ND	+145	21.00
MW-4	8/23/2000	0.62	2.91	ND	+202	21.90
MW-4	11/20/2000	3.32	2.40	ND	-16	22.90
MW-4	3/6/2001	0.90	2.84	ND	+165	20.00
MW-4	5/1/2001	2.45	2.79	ND	+312	21.44
MW-4	8/27/2003	4.30	1.65	0.6	+181	23.50
MW-4	11/19/2003	1.74	2.14	ND	+344	21.61
MW-4	3/17/2004	2.68	3.05	ND	+220	22.10
MW-4	5/21/2004	1.95	2.11	ND	+259	22.14
MW-4	8/17/2004	5.30	2.19	ND	+324	23.78
MW-4	11/16/2004	1.33	2.40	ND	-130	22.92
MW-4	3/2/2005	2.27	1.89	ND	+84	19.88
MW-4	4/27/2005	0.83	1.96	ND	-40	20.24
MW-4	8/24/2005	1.50	1.487	ND	-19	22.55
MW-4	11/2/2005	1.02	1.700	ND	+18	23.05
MW-5	2/15/1999	0.13	5.70	ND	+162	26.20
MW-5	5/10/1999	0.50	7.13	ND	+138	21.20
MW-5	8/5/1999	0.76	5.52	0.3	+72	21.20
MW-5	10/19/1999	0.68	5.24	ND	+102	13.90
MW-5	2/16/2000	1.15	5.53	ND	+165	16.40
MW-5	4/26/2000	0.93	5.47	ND	+76	21.30
MW-5	8/23/2000	0.28	6.10	ND	+131	20.48
MW-5	11/20/2000	5.70	6.10	ND	+79	22.65
MW-5	3/6/2001	2.74	6.24	ND	+138	14.80
MW-5	5/1/2001	1.56	6.11	ND	+320	18.51
MW-5	8/28/2003	1.88	5.72	0.8	+182	22.48
MW-5	11/19/2003	3.95	6.55	ND	+302	23.36
MW-5	3/18/2004	2.50	7.71	2.5	+173	20.60
MW-5	5/24/2004	2.40	10.40	0.8	+248	21.20
MW-5	8/18/2004	1.98	6.83	0.6	+400	21.74
MW-5	11/17/2004	1.41	6.45	1.0	-197	21.24
MW-5	3/3/2005	2.89	5.81	2.6	+10	20.82
MW-5	4/27/2005	0.71	6.43	ND	-52	22.33
MW-5	8/23/2005	2.32	5.71	ND	-80	21.68
MW-5	11/3/2005	1.45	6.37	1.8	-55	21.05

Table C-5
Historical Summary of Field Monitoring Results - UST Site 2666

Well	Date	Dissolved Oxygen (mg/L)	Electrical Conductivity (mS/cm)	Ferrous Iron (mg/L)	Oxidation-Reduction Potential (mV)	Water Temperature (°C)
MW-6	2/15/1999	0.13	1.44	1.6	+9	23.50
MW-6	5/10/1999	0.33	0.98	0.4	+45	22.40
MW-6	8/5/1999	0.77	1.16	1.4	-160	21.80
MW-6	10/19/1999	0.58	1.34	1.6	-125	19.20
MW-6	2/16/2000	1.42	1.44	3.2	-79	15.10
MW-6	4/26/2000	0.58	1.13	3.4	-142	20.70
MW-6	8/23/2000	1.27	1.14	ND	-33	23.26
MW-6	11/20/2000	4.26	1.22	3.4	+58	23.26
MW-6	3/6/2001	0.85	1.16	0.5	-16	18.60
MW-6	4/30/2001	0.32	1.01	ND	+260	19.48
MW-6	8/27/2003	6.55	0.67	ND	+241	23.36
MW-6	11/18/2003	4.87	0.76	ND	+297	24.32
MW-6	3/17/2004	4.70	1.00	ND	+253	23.94
MW-6	5/24/2004	4.26	0.93	ND	+272	23.01
MW-6	8/17/2004	5.80	0.96	ND	+354	24.00
MW-6	11/16/2004	1.90	1.46	ND	-35	22.36
MW-6	3/2/2005	4.82	0.767	1.8	+87	21.76
MW-6	4/27/2005	1.12	1.294	ND	+54	21.96
MW-6	8/23/2005	6.42	1.167	ND	+34	25.13
MW-6	11/2/2005	6.11	1.154	ND	+23	24.48
MW-7	2/15/1999	0.44	5.31	0.8	+100	24.30
MW-7	5/10/1999	0.46	5.17	0.4	+125	21.10
MW-7	8/5/1999	0.86	5.09	ND	+63	21.20
MW-7	10/19/1999	0.52	5.41	0.8	+74	13.90
MW-7	2/16/2000	1.20	5.44	1.2	+158	14.50
MW-7	4/26/2000	0.63	3.84	0.6	+66	22.90
MW-7	8/23/2000	0.40	5.48	ND	+80	21.19
MW-7	11/20/2000	6.20	6.18	1.6	+68	22.00
MW-7	3/6/2001	0.81	6.98	ND	+83	14.70
MW-7	5/1/2001	0.93	3.47	ND	+341	17.60
MW-7	8/28/2003	1.11	7.68	2.2	+155	21.55
MW-7	11/19/2003	1.51	6.61	ND	+307	22.14
MW-7	3/18/2004	1.98	9.82	3.0	+215	19.58
MW-7	5/24/2004	2.25	7.25	1.8	+233	21.89
MW-7	8/17/2004	1.90	1.13	ND	+350	26.17
MW-7	11/17/2004	0.99	10.94	3.0	-174	19.55
MW-7	3/3/2005	2.88	6.00	0.8	+22	20.11
MW-7	4/27/2005	0.37	4.55	1.2	-112	20.95
MW-7	8/25/2005	0.89	4.89	3.0	-119	24.17
MW-7	11/2/2005	1.60	6.13	2.2	-63	22.30
MW-8	2/15/1999	0.12	2.99	ND	+142	20.90
MW-8	5/10/1999	1.26	5.00	ND	+143	19.60
MW-8	8/5/1999	0.94	3.51	ND	+78	19.50
MW-8	10/19/1999	0.54	3.52	ND	+101	13.70
MW-8	2/16/2000	0.78	1.05	ND	+152	13.40
MW-8	4/26/2000	1.85	1.94	ND	+66	16.20
MW-8	8/24/2000	1.17	0.04	ND	+163	19.01
MW-8	11/20/2000	6.45	2.78	1.1	+42	20.95
MW-8	3/6/2001	0.90	4.49	ND	-84	13.30
MW-8	5/1/2001	2.85	3.99	ND	+330	16.58

Table C-5
Historical Summary of Field Monitoring Results - UST Site 2666

Well	Date	Dissolved Oxygen (mg/L)	Electrical Conductivity (mS/cm)	Ferrous Iron (mg/L)	Oxidation-Reduction Potential (mV)	Water Temperature (°C)
MW-8	8/28/2003	0.90	5.21	5.0	+118	21.09
MW-8	11/19/2003	3.99	5.47	ND	+257	20.95
MW-8	3/18/2004	2.44	6.00	1.5	+175	19.49
MW-8	5/24/2004	2.16	5.96	0.2	+262	20.50
MW-8	8/18/2004	0.95	6.00	ND	+318	19.93
MW-8	11/17/2004	2.60	6.08	1.7	-187	20.76
MW-8	3/3/2005	2.91	5.81	1.6	+7	18.56
MW-8	4/28/2005	0.50	6.89	1.2	-78	17.58
MW-8	8/23/2005	1.18	4.94	1.4	-93	19.37
MW-8	11/3/2005	0.55	5.48	2.9	-79	19.36
MW-9	8/23/2000	0.52	0.90	ND	+132	17.97
MW-9	11/20/2000	6.54	0.99	ND	+78	23.03
MW-9	3/6/2001	0.93	0.80	ND	+172	19.30
MW-9	5/1/2001	3.31	0.75	ND	+321	18.76
MW-9	8/27/2003	2.79	0.51	ND	+215	26.07
MW-9	11/19/2003	0.75	0.74	ND	+324	23.13
MW-9	3/17/2004	1.88	0.78	ND	+247	21.66
MW-9	5/25/2004	2.16	1.26	ND	+267	21.52
MW-9	8/17/2004	3.98	0.73	ND	+371	24.36
MW-9	11/16/2004	0.40	0.49	ND	-178	22.63
MW-9	3/2/2005	2.53	0.719	ND	+115	22.26
MW-9	4/28/2005	0.69	0.765	ND	+4	19.19
MW-9	8/24/2005	1.16	0.655	ND	-26	25.16
MW-9	11/2/2005	1.24	0.748	ND	+35	23.09
MW-10	8/23/2000	1.00	0.05	ND	+213	17.57
MW-10	11/20/2000	3.85	4.82	ND	+13	22.76
MW-10	3/6/2001	0.89	4.95	ND	-14	15.00
MW-10	5/1/2001	1.49	4.80	ND	+340	16.38
MW-10	8/28/2003	0.66	4.22	2.8	+55	24.31
MW-10	11/19/2003	1.98	4.31	ND	+268	23.40
MW-10	3/18/2004	2.15	5.26	3.0	+140	21.21
MW-10	5/24/2004	1.83	5.05	2.0	+182	22.25
MW-10	8/18/2004	1.46	4.77	ND	+323	21.49
MW-10	11/17/2004	2.09	4.99	1.5	-149	21.58
MW-10	3/3/2005	4.07	4.76	4.0	-41	19.83
MW-10	4/28/2005	0.49	11.69	1.2	-93	19.00
MW-10	8/22/2005	3.45	1.26	1.4	-98	23.46
MW-10	11/3/2005	3.72	11.51	1.7	-54	22.12
24W10A	5/1/2001	8.09	1.85	ND	+333	14.20
24W10A	8/28/2003	0.79	1.72	1.0	+77	22.95
24W10A	11/19/2003	0.69	1.42	ND	+245	21.03
24W10A	3/18/2004	1.87	1.51	1.0	+248	20.87
24W10A	5/25/2004	2.75	0.99	0.4	+252	19.24
24W10A	8/18/2004	2.08	1.13	ND	+272	22.18
24W10A	11/17/2004	0.82	1.20	6.0	-222	22.04
24W10A	3/3/2005	1.92	1.94	2.6	-18	19.02
24W10A	4/28/2005	0.57	1.71	0.6	-67	18.01
24W10A	8/24/2005	1.44	1.148	ND	-40	23.77
24W10A	11/3/2005	1.20	1.331	0.4	-84	20.97
24W11A	4/26/2000	0.62	8.67	3.2	+78	23.20

Table C-5
Historical Summary of Field Monitoring Results - UST Site 2666

Well	Date	Dissolved Oxygen (mg/L)	Electrical Conductivity (mS/cm)	Ferrous Iron (mg/L)	Oxidation-Reduction Potential (mV)	Water Temperature (°C)
24W11A	11/20/2000	NM	8.06	2.0	+109	24.20
24W11A	8/27/2003	0.68	5.90	4.0	+161	26.40
24W11A	11/19/2003	0.45	7.13	4.5	+242	23.85
24W11A	3/18/2004	2.44	7.44	4.0	+185	23.18
24W11A	5/25/2004	1.75	7.18	ND	+262	22.52
24W11A	8/18/2004	2.36	6.54	3.2	+274	24.52
24W11A	11/17/2004	0.42	6.63	4.0	-182	23.98
24W11A	3/3/2005	3.88	6.37	3.8	+43	22.28
24W11A	4/28/2005	0.72	7.72	ND	-38	21.39
24W11A	8/24/2005	2.76	6.93	0.6	-18	25.24
24W11A	11/3/2005	2.42	8.27	ND	-35	23.62

mg/L - milligrams per liter
mS/cm - millisiemens per centimeter
mV - millivolts
ND - not detected
NM - not measured
UST - underground storage tank

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		Trip Blank		Equipment Rinsate	
2666-MW-10	102910-0180A	05-3791-1	4 d.	OK	OK	8/26/2005	OK	102910-0182	Note 1	102910-0181	Note 2
Equipment Rinsate	102910-0181A	05-3791-2	4 d.	OK	OK	8/26/2005	Ok	102910-0182	Note 1	102910-0181	Note 2
Trip Blank	102910-0182A	05-3791-3	4 d.	OK	OK	8/26/2005	OK	102910-0182	Note 1	NA	NA

Note 1 - Total xylenes were reported below the reporting limit, but above the method detection limit in the trip blank. All sample results with values for that compound less than 5X the blank value are considered non-detect.

Note 2 - Benzene and total xylenes were reported below the reporting limits, but above the method detection limits in the equipment rinsate. All sample results with values for those compounds less than 5X the blank value are considered non-detect.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Surrogates	LCS	MS/MSD	Field Duplicates
2666-MW-10	102910-0180A	05-3791-1	OK	OK	NA	NA
Equipment Rinsate	102910-0181A	05-3791-2	OK	OK	NA	NA
Trip Blank	102910-0182A	05-3791-3	OK	OK	NA	NA

Camp Pendleton Validation for EAR - Diesel by M8015E
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 d./40 d.)		Cooler Temperature	Method Blanks		Equipment Rinsate		Surrogates	LCS	MS/MSD	Field Duplicates
2666-MW-10	102910-0180A	05-3791-1	2 d./5 d.	OK	OK	8/29/2005	OK	102910-0181	OK	OK	OK	NA	NA
Equipment Rinsate	102910-0181A	05-3791-2	2 d./5 d.	OK	OK	8/29/2005	OK	102910-0181	OK	OK	OK	NA	NA

No sample data were qualified.

Camp Pendleton Validation for EAR - Methane by RSK175
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-10	102910-0180A	05-3791-1	4 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Alkalinity by EPA 310.1
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-10	102910-0180A	05-3791-1	3 d.	OK	OK	8/25/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Nitrate/Nitrite as N by EPA 353.3
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-10	102910-0180A	05-3791-1	4 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Sulfate by EPA 300.0
APCL - 05-3791
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-10	102910-0180A	05-3791-1	4 d.	OK	OK	8/24/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		Trip Blank		Equipment Rinsate	
Trip Blank	102910-0183A	05-3795-1	3 d.	OK	OK	8/26/2005	OK	102910-0183A	Note 1	NA	Note 2
2666-MW-8	102910-0184A	05-3795-2	3 d.	OK	OK	8/26/2005	Ok	102910-0183A	Note 1	102910-0189	Note 2
2666-MW-5	102910-0185A	05-3795-3	3 d.	OK	OK	8/26/2005	Ok	102910-0183A	Note 1	102910-0189	Note 2
2666-MW-1	102910-0186A	05-3795-4	3 d.	OK	OK	8/26/2005	Ok	102910-0183A	Note 1	102910-0189	Note 2
2666-MW-6	102910-0187	05-3795-5	3 d.	OK	OK	8/26/2005	Ok	102910-0183A	Note 1	102910-0189	Note 2
2666-MW-2	102910-0188	05-3795-6	3 d.	OK	OK	8/26/2005	Ok	102910-0183A	Note 1	102910-0189	Note 2
Equipment Rinsate	102910-0189	05-3795-7	3 d.	OK	OK	8/26/2005	OK	102910-0183A	Note 1	102910-0189	NA

Note 1 - Benzene and total xylenes were reported below the reporting limits, but above the method detection limits in the trip blank. All sample results with values for those compounds less than 5X the blank value are considered non-detect.

Note 2 - Benzene and total xylenes were reported below the reporting limits, but above the method detection limits in the equipment rinsate. All sample results with values for those compounds less than 5X the blank value are considered non-detect.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Surrogates	LCS	MS/MSD	Field Duplicates
Trip Blank	102910-0183A	05-3795-1	OK	OK	NA	NA
2666-MW-8	102910-0184A	05-3795-2	OK	OK	NA	NA
2666-MW-5	102910-0185A	05-3795-3	OK	OK	NA	NA
2666-MW-1	102910-0186A	05-3795-4	OK	OK	NA	NA
2666-MW-6	102910-0187	05-3795-5	OK	OK	NA	NA
2666-MW-2	102910-0188	05-3795-6	OK	OK	NA	NA
Equipment Rinsate	102910-0189	05-3795-7	OK	OK	NA	NA

Camp Pendleton Validation for EAR - Diesel by M8015E
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 d./40 d.)		Cooler Temperature	Method Blanks		Equipment Rinsate		Surrogates	LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0184A	05-3795-2	3 d./1 d.	OK	OK	8/27/2005	OK	102910-0189	OK	OK	OK	NA	NA
2666-MW-5	102910-0185A	05-3795-3	3 d./1 d.	OK	OK	8/27/2005	OK	102910-0189	OK	OK	OK	NA	NA
2666-MW-1	102910-0186A	05-3795-4	3 d./1 d.	OK	OK	8/27/2005	OK	102910-0189	OK	OK	OK	NA	NA
2666-MW-6	102910-0187	05-3795-5	3 d./1 d.	OK	OK	8/27/2005	OK	102910-0189	OK	OK	OK	NA	NA
2666-MW-2	102910-0188	05-3795-6	3 d./1 d.	OK	OK	8/27/2005	OK	102910-0189	OK	OK	OK	NA	NA
Equipment Rinsate	102910-0189	05-3795-7	3 d./1 d.	OK	OK	8/27/2005	OK	102910-0189	OK	OK	OK	NA	NA

No sample data were qualified.

Camp Pendleton Validation for EAR - Methane by RSK175
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0184A	05-3795-2	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-5	102910-0185A	05-3795-3	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-1	102910-0186A	05-3795-4	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-6	102910-0187	05-3795-5	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-2	102910-0188	05-3795-6	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Alkalinity by EPA 310.1
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0184A	05-3795-2	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-5	102910-0185A	05-3795-3	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-1	102910-0186A	05-3795-4	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-6	102910-0187	05-3795-5	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-2	102910-0188	05-3795-6	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Nitrate/Nitrite as N by EPA 353.3
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0184A	05-3795-2	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-5	102910-0185A	05-3795-3	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-1	102910-0186A	05-3795-4	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-6	102910-0187	05-3795-5	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2666-MW-2	102910-0188	05-3795-6	3 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Sulfate by EPA 300.0
APCL - 05-3795
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0184A	05-3795-2	1 d.	OK	OK	8/24/2005	OK	OK	NA	NA
2666-MW-5	102910-0185A	05-3795-3	1 d.	OK	OK	8/24/2005	OK	OK	NA	NA
2666-MW-1	102910-0186A	05-3795-4	1 d.	OK	OK	8/24/2005	OK	OK	NA	NA
2666-MW-6	102910-0187	05-3795-5	1 d.	OK	OK	8/24/2005	OK	OK	NA	NA
2666-MW-2	102910-0188	05-3795-6	1 d.	OK	OK	8/24/2005	OK	OK	NA	NA

No sample data qualified.

The DV Group, Inc.

DATA VALIDATION REPORT

Project / Site Name:	Marine Corp Base, Camp Pendleton, CA CTO 95, Sites 2459 and 2666
Project No.:	102910
Data Reviewer:	S. Obleas, The Data Validation Group, Inc.
Review Date:	October 11, 2005
Matrix:	9 Waters
Parameters:	BTEX 8021B; Diesel M8015; Methane RSK-175; Nitrate/Nitrite 353.3; Sulfate 300.0; Alkalinity 310.1
Validation Level:	EPA Level III
Laboratory:	APCL
Sample Delivery Group (SDG) No.:	05-3812
Sample Nos.:	102910-0190 102910-0191 102910-0192 102910-0193 102910-0194 102910-0195 102910-0196 102910-0197 102910-0198
Collection Date(s):	August 24, 2005
Comments:	Level IV: not performed. Field duplicates: 102910-0191 / 102910-0192. Trip Blank: 102910-0190. Equipment rinsate: 102910-0198.

The data were qualified according to the U.S. Environmental Protection Agency (EPA) documents "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (1999) and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (1994). In addition, the Data Validation Services Statement of Work for Marine Corp Base, Camp Pendleton was used along with other EPA methods.

S.R. Obleas, President

S.R. Obleas, President

DATA VALIDATION REQUIREMENTS

Level IV or Full validation includes all parameters listed below. Level III or Cursory validation parameters are indicated by an asterisk (*).

CLP Organic Parameters

* Holding times
  GC/MS instrument performance check
* Initial and continuing calibrations
* Blanks
* Surrogate recovery
* Matrix spike/matrix spike duplicate
* Laboratory control sample or blank spike
* Field duplicates
* Internal standard performance
  Target compound identification
  Tentatively identified compounds
  Compound quantitation
  Reported detection limits
  System performance
* Overall assessment of data for the SDG

CLP Inorganic Parameters

* Holding times
* Initial and continuing calibrations
* Blanks
* Matrix spike
* Laboratory control sample/blank spike
* Field duplicates
* Matrix duplicates
  ICP interference check sample
  GFAA quality control
* ICP serial dilution
  Sample result verification
  Analyte quantitation
  Reported detection limits
* Overall assessment of data for the SDG

Non-CLP Organic and Inorganic Parameters

* Method compliance
* Holding times
* Initial and continuing calibrations
* Blanks
* Matrix spike/matrix spike duplicate
* Laboratory control sample or blank spike
* Field duplicates
* Matrix duplicates
* Surrogate recovery
  Analyte quantitation
  Reported detection limits
* Overall assessment of data for the SDG

DATA VALIDATION QUALIFIERS

U Indicates the compound or analyte was analyzed for but no detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore, qualification was not required.

CURSORY DATA VALIDATION SUMMARY TABLE

Analysis	Holding Times	Surrogates	MS/MSD Matrix Dup.	LCS	Blanks	Calibration	Internal Standards	Field Duplicates	Other
Method 8021B **BTEX**	√	√	√	√	**pg. 4**	√	N/A	√	√
Method M8015 **Diesel**	√	√	√	√	√	√	N/A	√	√
Method RSK-175 **Methane**	√	N/A	√	√	√	√	N/A	N/A	√
Method 353.3 **Nitrate/Nitrite**	√	N/A	**pg. 5**	√	√	√	N/A	N/A	√
Method 300.0 **Sulfate**	√	N/A	√	√	√	√	N/A	N/A	√
Method 310.1 **Alkalinity**	√	N/A	√	√	√	√	N/A	N/A	√

Notes:

√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.

N/A indicates the parameter is not applicable to an analysis.

If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.

The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers are described in the text.

DATA ASSESSMENT

BTEX (Method 8021B)

I. Blank Contamination

A. Due to trip blank contamination, the following results are considered nondetected (U).

- Benzene in samples 102910-0191, 102910-0193, and 102910-0194.
- Xylenes (total) in samples 102910-0191, 102910-0193, and 102910-0195.

The following were detected in the trip blank at the concentrations noted below.

Compound	Blank ID	Concentration
Benzene	102910-0198	0.02 ug/L
Xylenes (total)	(trip blank)	0.09 ug/L

Detected results less than 5x the maximum blank contamination were qualified.

DIESEL (Method M8015)

I. Level III criteria met.

METHANE (Method RSK-175)

I. Level III criteria met.

NITRATE/NITRITE (Method 353.3)

I. Matrix Spike (MS)

A. Due to accuracy problems in the MS analysis, the following detected results are qualified as estimated (J).

- Nitrate/Nitrite as N in all samples.

The recoveries outside the QC limits are listed below.

Sample ID	Analyte	%R	QC Limits
102910-0197	Nitrate/Nitrite as N	150, 175 / 15	76-126% / 24%

Spike recoveries above 125% indicate that detected results may be biased high.

SULFATE (Method 300.0)

I. Level III criteria met.

ALKALINITY (Method 310.1)

I. Level III criteria met.

Marine Corp Base, Camp Pendleton, CA CTO 95
BTEX – Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
BTEX – Laboratory Blank Data Qualification Summary – SDG 05-3812

Trip blank contamination qualifications

Compound	Associated Samples	Qualification	Protocol / Advisory
Benzene	102910-0191	0.5 U	Advisory
Xylenes (total)		1.5 U	Advisory
Benzene	102910-0193	0.5 U	Advisory
Xylenes (total)		1.5 U	Advisory
Benzene	102910-0194	0.5 U	Advisory
Xylenes (total)	102910-0195	1.5 U	Advisory

Marine Corp Base, Camp Pendleton, CA CTO 95
Diesel – Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Diesel – Laboratory Blank Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Methane – Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Methane – Laboratory Blank Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Nitrate/Nitrite – Data Qualification Summary – SDG 05-3812

Matrix spike qualifications

Compound	Associated Samples	Qualification	Protocol / Advisory
Nitrate/Nitrite as N	102910-0191	J	Protocol
Nitrate/Nitrite as N	102910-0193	J	Protocol
Nitrate/Nitrite as N	102910-0194	J	Protocol
Nitrate/Nitrite as N	102910-0195	J	Protocol
Nitrate/Nitrite as N	102910-0196	J	Protocol
Nitrate/Nitrite as N	102910-0197	J	Protocol

Marine Corp Base, Camp Pendleton, CA CTO 95
Nitrate/Nitrite – Laboratory Blank Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Sulfate – Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Sulfate – Laboratory Blank Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Alkalinity – Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

Marine Corp Base, Camp Pendleton, CA CTO 95
Alkalinity – Laboratory Blank Data Qualification Summary – SDG 05-3812

No Sample Data Qualified in this SDG.

FIELD DUPLICATE TABLE

Method	Analyte	Sample ID	Duplicate ID	Sample Value	Duplicate Value	RPD
Diesel M8015	Diesel	102910-0191	102910-0192	0.02	0.02	0%
BTEX	Benzene			0.18	0.18	0%
	Ethylbenzene			ND	ND	
	Toluene			0.14	0.13	7%
	Xylenes (total)			0.86	0.76	12%
Methane	Not performed.					
Nitrate/Nitrite	Not performed.					
Sulfate	Not performed.					
Alkalinity	Not performed.					

OVERALL ASSESSMENT OF DATA

I. Method Compliance and Additional Comments

A. All analyses were conducted within all specifications of the requested methods.

II. Usability

A. Due to trip blank contamination in the BTEX analyses, the following were considered nondetected: Benzene for three samples and Xylenes (total) for three samples.

B. Due to high matrix spike recoveries in the Anion analyses, six samples for Nitrate/Nitrite as N were qualified as estimated.

C. The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the cursory and full data validation all other results are considered valid and usable for all purposes. In general, the absence of rejected data and the small number of qualifiers added to the data indicate high usability.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		Trip Blank		Equipment Rinsate	
Trip Blank	102910-0199	05-3821-1	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	NA	NA
2459-RW-1	102910-0200	05-3821-2	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-OW-1	102910-0201	05-3821-3	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-OW-2	102910-0202	05-3821-4	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-OW-3	102910-0203	05-3821-5	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-MW-2	102910-0204	05-3821-6	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-MW-4	102910-0205	05-3821-7	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-MW-4	102910-0206	05-3821-8 Dup	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-MW-5	102910-0207	05-3821-9	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
2459-MW-7	102910-0208	05-3821-10	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1
Equipment Rinsate	102910-0209	05-3821-11	4 d.	OK	OK	8/29/2005	OK	102910-0199	OK	102910-0209	Note 1

Note 1 - Ethylbenzene was reported above the reporting limit for the equipment rinsate. Benzene was reported below the reporting limits, but above the method detection limit in the equipment rinsate. All sample results with values for those compounds less than 5X the blank value are considered non-detect.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Surrogates	LCS	MS/MSD	Field Duplicates
Trip Blank	102910-0199	05-3821-1	OK	OK	NA	NA
2459-RW-1	102910-0200	05-3821-2	OK	OK	NA	NA
2459-OW-1	102910-0201	05-3821-3	OK	OK	NA	NA
2459-OW-2	102910-0202	05-3821-4	OK	OK	NA	NA
2459-OW-3	102910-0203	05-3821-5	OK	OK	NA	NA
2459-MW-2	102910-0204	05-3821-6	OK	OK	NA	NA
2459-MW-4	102910-0205	05-3821-7	OK	OK	NA	OK
2459-MW-4	102910-0206	05-3821-8 Dup	OK	OK	NA	OK
2459-MW-5	102910-0207	05-3821-9	OK	OK	NA	NA
2459-MW-7	102910-0208	05-3821-10	OK	OK	NA	NA
Equipment Rinsate	102910-0209	05-3821-11	OK	OK	NA	NA

Camp Pendleton Validation for EAR - Diesel by M8015E
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 d./40 d.)		Cooler Temperature	Method Blanks		Equipment Rinsate		Surrogates	LCS	MS/MSD	Field Duplicates
2459-RW-1	102910-0200	05-3821-2	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
2459-OW-1	102910-0201	05-3821-3	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
2459-OW-2	102910-0202	05-3821-4	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
2459-OW-3	102910-0203	05-3821-5	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
2459-MW-2	102910-0204	05-3821-6	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
2459-MW-4	102910-0205	05-3821-7	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	OK
2459-MW-4	102910-0206	05-3821-8 Dup	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	OK
2459-MW-5	102910-0207	05-3821-9	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
2459-MW-7	102910-0208	05-3821-10	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA
Equipment Rinsate	102910-0209	05-3821-11	4 d./1 d.	OK	OK	8/29/2005	OK	102910-0209	OK	OK	OK	NA	NA

No sample data were qualified.

Camp Pendleton Validation for EAR - Methane by RSK175
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2459-RW-1	102910-0200	05-3821-2	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-OW-1	102910-0201	05-3821-3	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-OW-2	102910-0202	05-3821-4	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-OW-3	102910-0203	05-3821-5	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-2	102910-0204	05-3821-6	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-4	102910-0205	05-3821-7	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-5	102910-0207	05-3821-9	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-7	102910-0208	05-3821-10	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Alkalinity by EPA 310.1
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2459-RW-1	102910-0200	05-3821-2	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-OW-1	102910-0201	05-3821-3	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-OW-2	102910-0202	05-3821-4	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-OW-3	102910-0203	05-3821-5	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-MW-2	102910-0204	05-3821-6	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-MW-4	102910-0205	05-3821-7	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-MW-5	102910-0207	05-3821-9	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA
2459-MW-7	102910-0208	05-3821-10	4 d.	OK	OK	8/29/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Nitrate/Nitrite as N by EPA 353.3
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2459-RW-1	102910-0200	05-3821-2	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-OW-1	102910-0201	05-3821-3	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-OW-2	102910-0202	05-3821-4	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-OW-3	102910-0203	05-3821-5	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-MW-2	102910-0204	05-3821-6	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-MW-4	102910-0205	05-3821-7	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-MW-5	102910-0207	05-3821-9	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA
2459-MW-7	102910-0208	05-3821-10	6 d.	OK	OK	8/31/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Sulfate by EPA 300.0
APCL - 05-3821
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2459-RW-1	102910-0200	05-3821-2	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-OW-1	102910-0201	05-3821-3	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-OW-2	102910-0202	05-3821-4	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-OW-3	102910-0203	05-3821-5	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-2	102910-0204	05-3821-6	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-4	102910-0205	05-3821-7	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-5	102910-0207	05-3821-9	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA
2459-MW-7	102910-0208	05-3821-10	1 d.	OK	OK	8/26/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		Trip Blank		Equipment Rinsate	
2666-MW-1	102910-0227	05-4612-1	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	NA	NA
2666-MW-1	102910-0228 DUP	05-4612-2	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
2666-MW-6	102910-0229	05-4612-3	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
2666-MW-2	102910-0230	05-4612-4	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
2666-MW-3	102910-0231	05-4612-5	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
2666-MW-4	102910-0232	05-4612-6	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
2666-MW-9	102910-0233	05-4612-7	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
2666-MW-9	102910-0234 DUP	05-4612-8 Dup	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
Equipment Rinsate	102910-0235	05-4612-9	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK
Trip Blank	102910-0236	05-4612-10	2 d.	OK	OK	11/4/2005	OK	102910-0236	OK	102910-0235	OK

No sample data were qualified.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Surrogates	LCS	MS/MSD	Field Duplicates
2666-MW-1	102910-0227	05-4612-1	OK	OK	OK	OK
2666-MW-1	102910-0228 DUP	05-4612-2	OK	OK	OK	OK
2666-MW-6	102910-0229	05-4612-3	OK	OK	OK	NA
2666-MW-2	102910-0230	05-4612-4	OK	OK	OK	NA
2666-MW-3	102910-0231	05-4612-5	OK	OK	OK	NA
2666-MW-4	102910-0232	05-4612-6	OK	OK	OK	NA
2666-MW-9	102910-0233	05-4612-7	OK	OK	OK	OK
2666-MW-9	102910-0234 DUP	05-4612-8 Dup	OK	OK	OK	OK
Equipment Rinsate	102910-0235	05-4612-9	OK	OK	OK	NA
Trip Blank	102910-0236	05-4612-10	OK	OK	OK	NA

Camp Pendleton Validation for EAR - Diesel by M8015E
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 d./40 d.)		Cooler Temperature	Method Blanks		Equipment Rinsate		Surrogates	LCS	MS/MSD	Field Duplicates
2666-MW-1	102910-0227	05-4612-1	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	OK
2666-MW-1	102910-0228 DUP	05-4612-2	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	OK
2666-MW-6	102910-0229	05-4612-3	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	NA
2666-MW-2	102910-0230	05-4612-4	1 d./1 d.	OK		11/3/2005	OK	Equipment Rinsate	OK	OK	OK	Note 1	NA
2666-MW-3	102910-0231	05-4612-5	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	NA
2666-MW-4	102910-0232	05-4612-6	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	OK
2666-MW-9	102910-0233	05-4612-7	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	OK
2666-MW-9	102910-0234 DUP	05-4612-8 Dup	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	NA
Equipment Rinsate	102910-0235	05-4612-9	1 d./1 d.	OK	OK	11/3/2005	OK	Equipment Rinsate	OK	OK	OK	NA	NA

Note 1 - The MS/MSD recoveries for sample 102910-0230 were biased high and outside criteria. The LCS/LCSD recoveries were within criteria. The diesel result for that sample should be footnoted with a J.

Camp Pendleton Validation for EAR - Methane by RSK175
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-1	102910-0227	05-4612-1	2 d.	OK	OK	11/4/2005	OK	OK	OK	NA
2666-MW-6	102910-0229	05-4612-3	2 d.	OK	OK	11/4/2005	OK	OK	OK	NA
2666-MW-2	102910-0230	05-4612-4	2 d.	OK	OK	11/4/2005	OK	OK	OK	NA
2666-MW-3	102910-0231	05-4612-5	2 d.	OK	OK	11/4/2005	OK	OK	OK	NA
2666-MW-4	102910-0232	05-4612-6	2 d.	OK	OK	11/4/2005	OK	OK	OK	NA
2666-MW-9	102910-0233	05-4612-7	2 d.	OK	OK	11/4/2005	OK	OK	OK	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Alkalinity by EPA 310.1
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-1	102910-0227	05-4612-1	5 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-6	102910-0229	05-4612-3	5 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-2	102910-0230	05-4612-4	5 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-3	102910-0231	05-4612-5	5 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-4	102910-0232	05-4612-6	5 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-9	102910-0233	05-4612-7	5 d.	OK	OK	11/7/2005	OK	OK	NA	NA

No sample data qualified.

Camp Pendleton Validation for EAR - Nitrate/Nitrite as N by EPA 353.3
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-1	102910-0227	05-4612-1	2 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-6	102910-0229	05-4612-3	2 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-2	102910-0230	05-4612-4	2 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-3	102910-0231	05-4612-5	2 d.	OK	OK	11/4/2005	OK	OK	Note 1	NA
2666-MW-4	102910-0232	05-4612-6	2 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-9	102910-0233	05-4612-7	2 d.	OK	OK	11/4/2005	OK	OK	NA	NA

Note 1 - The MS/MSD recoveries for sample 102910-0230 were biased high and outside criteria. The sample result was greater than 50 times the spike amount. Therefore, the spike recovery was not applicable for determining accuracy of the analysis. The LCS/LCSD recoveries were within criteria. No sample results were qualified based on the MS/MSD recovery.

Camp Pendleton Validation for EAR - Sulfate by EPA 300.0
APCL - 05-4612
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-1	102910-0227	05-4612-1	1 d.	OK	OK	11/3/2005	OK	OK	OK	NA
2666-MW-6	102910-0229	05-4612-3	1 d.	OK	OK	11/3/2005	OK	OK	OK	NA
2666-MW-2	102910-0230	05-4612-4	1 d.	OK	OK	11/3/2005	OK	OK	OK	NA
2666-MW-3	102910-0231	05-4612-5	1 d.	OK	OK	11/3/2005	OK	OK	OK	NA
2666-MW-4	102910-0232	05-4612-6	1 d.	OK	OK	11/3/2005	OK	OK	OK	NA
2666-MW-9	102910-0233	05-4612-7	1 d.	OK	OK	11/3/2005	OK	OK	OK	NA

No sample data qualified.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

KA

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		Trip Blank		Equipment Rinsate	
Trip Blank	102910-0237	05-4645-1	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	NA	NA
2666-MW-8	102910-0238	05-4645-2	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK
2666-MW-5	102910-0239	05-4645-3	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK
2666-MW-7	102910-0240	05-4645-4	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK
2666-MW-10	102910-0241	05-4645-5	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK
24W-10A	102910-0242	05-4645-6	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK
24W-11A	102910-0243	05-4645-7	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK
Equipment Rinsate	102910-0244	05-4645-8	1 d.	OK	OK	11/4/2005	OK	102910-0237	OK	102910-0244	OK

No problems were noted. The data are usable.

Camp Pendleton Validation for EAR - BTEX by 8021B
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Surrogates	LCS	MS/MSD	Field Duplicates
Trip Blank	102910-0237	05-4645-1	OK	OK	NA	NA
2666-MW-8	102910-0238	05-4645-2	OK	OK	NA	NA
2666-MW-5	102910-0239	05-4645-3	OK	OK	NA	NA
2666-MW-7	102910-0240	05-4645-4	OK	OK	NA	NA
2666-MW-10	102910-0241	05-4645-5	OK	OK	NA	NA
24W-10A	102910-0242	05-4645-6	OK	OK	NA	NA
24W-11A	102910-0243	05-4645-7	OK	OK	NA	NA
Equipment Rinsate	102910-0244	05-4645-8	OK	OK	NA	NA

Camp Pendleton Validation for EAR - Diesel by M8015E
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 d./40 d.)		Cooler Temperature	Method Blanks		Equipment Rinsate		Surrogates	LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0238	05-4645-2	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA
2666-MW-5	102910-0239	05-4645-3	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA
2666-MW-7	102910-0240	05-4645-4	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA
2666-MW-10	102910-0241	05-4645-5	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA
24W-10A	102910-0242	05-4645-6	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA
24W-11A	102910-0243	05-4645-7	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA
Equipment Rinsate	102910-0244	05-4645-8	5 d./1 d.	OK	OK	11/8/2005	OK	102910-0244	OK	OK	OK	NA	NA

No problems were noted. The data are usable.

Camp Pendleton Validation for EAR - Methane by RSK175
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (7 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0238	05-4645-2	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-5	102910-0239	05-4645-3	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-7	102910-0240	05-4645-4	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-10	102910-0241	05-4645-5	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
24W-10A	102910-0242	05-4645-6	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
24W-11A	102910-0243	05-4645-7	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA

No problems were noted. The data are usable.

Camp Pendleton Validation for EAR - Alkalinity by EPA 310.1
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (14 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0238	05-4645-2	4 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-5	102910-0239	05-4645-3	4 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-7	102910-0240	05-4645-4	4 d.	OK	OK	11/7/2005	OK	OK	NA	NA
2666-MW-10	102910-0241	05-4645-5	4 d.	OK	OK	11/7/2005	OK	OK	NA	NA
24W-10A	102910-0242	05-4645-6	4 d.	OK	OK	11/7/2005	OK	OK	NA	NA
24W-11A	102910-0243	05-4645-7	4 d.	OK	OK	11/7/2005	OK	OK	NA	NA

No problems were noted. The data are usable.

Camp Pendleton Validation for EAR - Nitrate/Nitrite as N by EPA 353.3
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0238	05-4645-2	6 d.	OK	OK	11/9/2005	OK	OK	OK	NA
2666-MW-5	102910-0239	05-4645-3	6 d.	OK	OK	11/9/2005	OK	OK	OK	NA
2666-MW-7	102910-0240	05-4645-4	6 d.	OK	OK	11/9/2005	OK	OK	OK	NA
2666-MW-10	102910-0241	05-4645-5	6 d.	OK	OK	11/9/2005	OK	OK	OK	NA
24W-10A	102910-0242	05-4645-6	6 d.	OK	OK	11/9/2005	OK	OK	OK	NA
24W-11A	102910-0243	05-4645-7	6 d.	OK	OK	11/9/2005	OK	OK	OK	NA

No problems were noted. The data are usable.

Camp Pendleton Validation for EAR - Sulfate by EPA 300.0
APCL - 05-4645
Project 102910

Shaw Internal Validation
by K. Aleckson

Location	Sample Number	Lab Sample #	Holding Times (28 Days)		Cooler Temperature	Method Blanks		LCS	MS/MSD	Field Duplicates
2666-MW-8	102910-0238	05-4645-2	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-5	102910-0239	05-4645-3	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-7	102910-0240	05-4645-4	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
2666-MW-10	102910-0241	05-4645-5	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
24W-10A	102910-0242	05-4645-6	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA
24W-11A	102910-0243	05-4645-7	1 d.	OK	OK	11/4/2005	OK	OK	NA	NA

No problems were noted. The data are usable.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA2170023533 Manifest Document No. 5143 1
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 24420791

3. Generator's Name and Mailing Address: AC'S ENVIRONMENTAL SECURITY, P.O. BOX 555008, CAMP PENDLETON, CA 92055
4. Generator's Phone: (760)725-4375

B. State Generator's ID: HYHQ360209 82

5. Transporter 1 Company Name: PATRIOT ENV. SERVICES
6. US EPA ID Number: CAD006286366

C. State Transporter's ID [Reserve]
D. Transporter's Phone: (800)624-9136

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID [Reserve]
F. Transporter's Phone: ( )

9. Designated Facility Name and Site Address: DEMENNO/KERDOON, 2000 N. ALAMEDA ST, COMPTON, CA. 90222
10. US EPA ID Number: CAT080013352

G. State Facility's ID: CAT080013352
H. Facility's Phone: (310)537-7100

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ WASTE FLAMMABLE LIQUIDS, N.O.S. (GASOLINE, WATER MIXTURE) 3, UN1993 II (D001)	001	TT	03000	G	State 135 / EPA/Other D001, D018
b. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE					State / EPA/Other
c. DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY					State / EPA/Other
d. PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11A) GASOLINE & WATER FROM GROUND REMEDATION
PLEASE FAX COPY OF THE TSDF SIGNED MANIFEST TO:
STEVE CHANDLER @ 949-474-8309
SITE ADDRESS: CAMP PENDLETON, CA AREA 13 AREA BLDG1327

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROPER PPE WHEN HANDLING SC-5143 1
24 HR EMERGENCY PHONE 800-255-3924 (CHEM-TEL)
ACS/ER 760-725-4521 4321

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: BEKALIA O. TUCKER Signature: Month 09 Day 29 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry RAMIREZ Signature: Month 09 Day 29 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Signature: Month 09 Day 29 Year 05

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

24420791

DO NOT WRITE BELOW THIS LINE.

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

DTSC 8022A (1/99)
EPA 8700—22

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA2170023533
Manifest Document No.: 51710
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
AC-S ENVIRONMENTAL SECURITY/MCB CAMP PENDLETON
P.O. BOX 555008
CAMP PENDLETON, CA 92055
4. Generator's Phone (760)725-4375

A. State Manifest Document Number: 24798861
B. State Generator's ID: HYHQ360209 82
C. State Transporter's ID [Reserved.]
D. Transporter's Phone: (800)624-9136
E. State Transporter's ID [Reserved.]
F. Transporter's Phone: ( ) -

5. Transporter 1 Company Name: PATRIOT ENV. SERVICES
6. US EPA ID Number: CAD000628636
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
DEMENNO/KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA. 90222
10. US EPA ID Number: CAT080013352
G. State Facility's ID: CAT080013352
H. Facility's Phone: (310)537-7100

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ WASTE FLAMMABLE LIQUIDS, N.O.S. (GASOLINE, WATER MIXTURE) 3; UN1993 II (D001)	001	TT	01600	G	State 135 / EPA/Other D001, D018
b. THIS WASTE STREAM HAS BEEN QUALIFIED FOR RECYCLING/TREATMENT AT THE					State / EPA/Other
c. DeMENNO/KERDOON FACILITY IN COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY					State / EPA/Other
d. PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11A) GASOLINE & WATER FROM GROUND REMEDATION
PLEASE FAX COPY OF THE TSDF SIGNED MANIFEST TO
STEVE CHANDLER @ 949-492-8802 ATTN: 22205 Mindy @ 951-735-8775
SITE ADDRESS: CAMP PENDLETON, CA AREA 13 AREA BLDG1327

K. Handling Codes for Wastes Listed Above
a. R-01 b. d.

15. Special Handling Instructions and Additional Information
WEAR PROPER PPE WHEN HANDLING SC 51710
24 HR EMERGENCY PHONE 800-255-3924 (CHEM-TEL)
ACS/ER 760-725-~~4521~~ 4321
JMW

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Margo Williams
Signature: Margo Williams
Month 11 Day 22 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Russell Buchmann
Signature: [illegible]
Month 11 Day 22 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
QUANTITY DISCREPANCY GREATER THAN 10% VARIATION RECONCILED WITH GENERATOR/TRANSPORTER ON 11-28-05 WITH Sherene OF Patriot Env. RECEIVED 1321 GALLONS

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible]
Signature
Month 11 Day 22 Year 05

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

24798861

GENERATOR

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
Tel: P.O. Box 3000, Sacramento, CA 95812

DTSC 8022A (1/99)
EPA 8700—22