FOR CONTRACT NO.: 06-0F8004

INFORMATION HANDOUT

MATERIALS INFORMATION

ROUTE: 06-Tul-L5711
Lemon Cove Maintenance Station

1. REMEDIAL ACTION PLAN

Environmental
Resources
Management

2525 Natomas Park Drive
Suite 350
Sacramento, CA 95833
(916) 924-9378
(916) 920-9378 (fax)

ERM®

25 August 2004

Mr. Gary Gagliolo
Caltrans District 6, Central Region
Hazardous Waste Branch
2015 East Shields Avenue, Suite 100
Fresno, CA 93726-5428

Subject: Remedial Action Workplan
Lemon Cove Maintenance Station
Tulare County, California

Dear Mr. Gagliolo:

ERM-West, Inc. (ERM) has prepared this *Remedial Action Workplan* for the Lemon Cove Maintenance Station (site) in Tulare County, California (Figure 1) to outline the remedial action for removal of impacted soils in order to expedite site closure.

DOCUMENT FORMAT

This workplan presents the following information:

- Site background, including a discussion of previous investigations, site conditions, and previous remediation activities;
- Existing site conditions;
- ERM's proposed scope of work; and
- Schedule for completion of the remedial action.

SITE BACKGROUND

Three fuel underground storage tanks (USTs) and a pump house were previously present at the site. Reportedly installed in 1935, the three tanks (a 1,000-gallon diesel tank; a 1,000-gallon gasoline tank; and a

Rec'd 8/27/04
pc to WQCB
& Tulare Co.

250-gallon waste oil tank subsequently converted to kerosene) were of single-walled, steel construction. The USTs, product lines, and fuel dispensers were removed in 1987. Soil samples collected from the excavation detected total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) at concentrations up to 4,800 and 3,400 milligrams per kilogram (mg/kg), respectively. Benzene was detected at concentrations up to 100 mg/kg and lead was detected up to 12 mg/kg. The excavation was reportedly backfilled with excavated soil and imported road base material.

From 1988 through 1994, various investigations were conducted to assess the extent of soil and groundwater impacts associated with the former tanks. During this time, 22 soil borings were completed, monitoring wells MW-1 through MW-14 were installed, and a soil gas survey was performed. Approximately 0.25 inch of free product was measured on the groundwater surface in well MW-2 at the time it was installed in 1991. In 1993, Alisto Engineering Group prepared a *Feasibility Study and Remedial Work Plan*.[1] The feasibility study included an aquifer pump test and vapor extraction test. Test results were used to design a groundwater remediation system. Tulare County Environmental Health Services (TCEHS) approved the groundwater treatment system in 1994.

In 1994, a groundwater extraction/treatment system, including extraction wells MW-15, MW-16, MW-17, and MW-18, was installed at the site (Figure 2). This system used four, 200-pound, granular activated carbon (GAC) canisters for treatment of extracted groundwater. Treated water was discharged to an on-site infiltration/injection trench installed parallel to the northern portion of the site. This discharge was performed under California Central Valley Regional Water Quality Control Board Waste Discharge Requirements General Order No. 91-25014, issued on 14 November 1994. The groundwater extraction/treatment system operated from March 1995 through June 1996, and treated 1,376,893 gallons of water. The average flow rate was 4.6 gallons per minute, with an average influent concentration of 2,200 micrograms per liter TPH-G. Based on the average flow rate and influent concentration, approximately 97 pounds of TPH-G was removed from groundwater by the system.

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[1] Alisto Engineering Group. 1993. *Feasibility Study and Remedial Workplan, Lemon Cove Maintenance Station, Tulare County, California.* May 1993.

Since 1996, periodic groundwater monitoring of wells MW-1 through MW-14 and the domestic well (DW-1) has been performed.

In December 2000, Geocon prepared a *Remedial Action Options Report*[2] (RAOR). The RAOR summarized previous site investigations, delineated the extent of TPH impacts, and evaluated several potential soil and groundwater remedial options for the site.

According to Geocon, the data from the soil borings and UST removal adequately delineate TPH-G and TPH-D impacts to site soils. In addition, Geocon noted that the samples collected from on-site groundwater monitoring wells and the domestic well also reasonably delineate the dissolved hydrocarbons beneath the site. Geocon estimated 2,000 cubic yards of soil had been impacted by TPH-G and 1,725 cubic yards of soil was impacted by TPH-D near the UST Area. Geocon also estimated that 30 cubic yards had been impacted by total recoverable hydrocarbons in the area of the wash rack drainage ditch.

Based on monitoring well data collected prior to preparation of the RAOR, the petroleum hydrocarbon plume extended approximately 160 feet downgradient (southwest) from the former UST source location. The greatest TPH-G and TPH-D impacts (>100 milligrams per liter) are concentrated near wells MW-2 and MW-13, approximately 35 feet downgradient (southwest) from the former USTs.[2] The flow direction of first encountered groundwater beneath the site has been generally toward the southwest, but ranges from west to southeast. The groundwater gradient at the site has been reported to be relatively flat, ranging from 0.003 to 0.007 feet per foot.

The RAOR concluded that the most easily implemented, cost-effective, and applicable remedial options for impacted soil and groundwater at the site are:

- Excavation and off-site disposal of impacted soils associated with the former wash rack facility;
- No soil-specific remedial action for the UST Area because the majority of the petroleum impacts resides below the water table;

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[2] Geocon Consultants, Inc. 2000. *Remedial Action Options Report; Lemon Cove Maintenance Station, Tulare County, California.* December 2000.

- Continued groundwater monitoring to evaluate concentration and migration of contaminants; and
- Preparation of a Tier I Risk-Based Corrective Action (RBCA) evaluation for groundwater to determine whether or not additional remedial action is necessary to ensure safety of workers, protection of potential receptors, and safety of the environment.

If the RBCA evaluation determines that no active remedial action is necessary, then Geocon recommended implementation of monitored natural attenuation to address the groundwater. If active remedial action is required, Geocon recommended bioventing/air sparging for treatment of groundwater.

In the March 2003 *Groundwater Monitoring and Risk Evaluation Workplan,*[3] ERM proposed performing two rounds of groundwater sampling with the evaluation of natural attenuation in selected monitoring wells, and preparation of a risk evaluation. TCEHS provided comments and approved the Workplan in a letter dated 27 March 2003. Groundwater sampling was conducted and the results were summarized in the First and Second Quarter 2003 groundwater monitoring reports.

As summarized in the June 2003 *Risk Evaluation Report,*[4] ERM recommended further action for the soil within the former UST Area by enhancing bioremediation. In June 2003, ERM submitted the *ORC Injection Pilot Study Workplan*[5] to TCEHS and fieldwork was completed on 17 June 2003. ERM injected 900 pounds of ORC® into 15 borings. The borings were spaced 8 feet apart within a 20- by 40-foot grid in the source area. The effectiveness of the ORC injections was evaluated by reviewing groundwater sampling results and effects on intrinsic bioremediation (IBR) values during subsequent groundwater sampling rounds.

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[3] ERM. 2003. *Groundwater Monitoring and Risk Evaluation Workplan, Lemon Cove Maintenance Station.* March 2003.

[4] ERM. 2003. *Risk Evaluation Report, Lemon Cove Maintenance Station, Tulare County, California.* March 2003.

[5] ERM. 2003. *ORC Injection Pilot Study Workplan, Lemon Cove Maintenance Station.* 2 June 2003.

Groundwater sampling was completed in December 2003 and March 2004. The groundwater flow and chemistry data were generally consistent with previous sampling events at the site. Based on the IBR results, the diesel- and gasoline-range petroleum compounds are anticipated to attenuate by natural degradation mechanisms. The calculated IBR capacity increased following ORC injection, which indicates that the biodegradation rate is increasing over time. This increase may be attributed to the ORC injection.

Although the IBR capacity is high, the actual rate of hydrocarbon degradation is a function of the number of groundwater pore volumes flowing through the site. Due to the observed flat groundwater gradient and the presence of low permeability soils, the exchange of groundwater through the impacted soil volume is very low. Therefore, it will require a significant amount of time to reduce the source area concentrations via natural degradation. Caltrans desires to expedite site remediation.

ERM reviewed the historical site data, Geocon's ROAR, and the remediation work completed to date. The groundwater pump-and-treat operation did not remove significant mass of hydrocarbons from the site. In situ remediation was only minimally effective in reducing hydrocarbon concentrations due to the same factors that limit natural attenuation of groundwater. Geocon's ROAR stated that no soil-specific remedial action for the UST Area could be completed because the majority of the petroleum impacts reside below the water table. ERM believes that the hydrocarbon-impacted soil is shallow and could be excavated. Soils below the water table can be excavated but may require (1) some special handling on site; and (2) some stabilization at the disposal facility, should free liquids be present in the excavated material. Excavation of the high-concentration, hydrocarbon-impacted soils from within the excavation and from the soil/groundwater interface appears to be the most viable option for rapidly reducing the time for site cleanup and final site closure.

PROPOSED SCOPE OF WORK

The following sections summarize the existing soil data and provide the rationale and details for excavation of impacted soils at the site.

Existing Conditions

Wash Rack Area. Based on laboratory analytical results, soil in the wash rack drainage ditch outside the site is impacted with total recoverable petroleum hydrocarbons (TRPH). The majority of the TRPH-impacted soil exists in surface soil extending approximately 30 feet beyond the western site fence line as shown on Figure 3. The TRPH concentrations decrease rapidly with depth, typically to less than 50/kg. Assuming a 2-foot vertical thickness, the associated volume of impacted soil is estimated to be 20 cubic yards.

UST Area. As described above, soils previously excavated during the tank removal and sampling were backfilled into the excavation. These soils likely contain considerable concentrations of petroleum hydrocarbons and the samples collected below the tanks also were reported to contain elevated concentrations of petroleum hydrocarbons. Soil sampling was performed during monitoring well installation and soil borings were completed to assess the area of impacted soil. Figure 3 shows the cross-section line and the proposed area of excavation. Figures 4 and 5 show cross sections of soil concentrations from the soil borings and monitoring wells. As shown on the cross sections, the highest concentration of hydrocarbons is below the excavation (MW-1), downgradient of the excavation (MW-3) and in the groundwater smear zone of MW-13. The risk evaluation did not recommend further action for health risk purposes but recommended further action to reduce concentrations for the protection of groundwater. To reduce groundwater concentrations, the excavation will target areas reporting the highest levels of TPH and benzene. Concentrations of TPH above 1,000 mg/kg and benzene above 1.0 mg/kg are targeted for excavation. Excavation to remove soils with lower hydrocarbon concentrations would not be practical and would require removal of a significant volume of unimpacted soil. The proposed area of excavation is shown on Figure 3. First, soils above the groundwater table would be excavated. Then, additional soils below the water table would be removed.

Table 1 summarizes groundwater depths at the site. MW-1 groundwater depths have ranged from 7.43 feet below ground surface (bgs) in the spring of 1996 to 13.43 feet bgs in March of 2003 and March 2004. Based on historical groundwater depths, soil excavation should be completed in late winter (February/March) to maximize the ability to excavate unsaturated soils.

Proposed Field Activities

Monitoring Well Destruction. To complete the proposed area of excavation, MW-1, MW-2 and MW-13 are within the planned excavation area and will need to be destroyed. Prior to well decommissioning, permits will be obtained from the TCEHD. All fieldwork will be performed in accordance with California Well Standards Bulletins 74-81 and 74-90.

Prior to grouting, the wells will be checked to ensure no obstructions exist by measuring the total depth of the well. If there is an obstruction or a discrepancy of more than 2 feet in the reported construction depth versus the measured depth to bottom, the well will be bailed to remove the accumulated sediment material.

The wells will be decommissioned by a State-licensed drilling company by pressure-grouting a cement mixture with 3 to 5 percent bentonite into the well. Pressure grouting will be conducted by placing a tremmie pipe to the bottom of the well. The cement mixture will be pumped under pressure until grout is no longer flowing into the well. Grouting will occur in one continuous operation.

Grout usage was estimated by adding the total volume of well casing to the volume of the gravel pack times 25 percent, which is the specific yield of the gravel pack. Table 2 summarizes well construction details and the estimated grout required for each well. Because the area is being excavated the casing will not be removed to five feet but will be removed to the bottom of the excavation during soil removal.

Logs documenting well decommissioning activities will include the date and time of decommissioning, the measured depth to the bottom of the well prior to grouting, and the volume of grout used. Any corrective action required to mitigate obstructions in the well will be noted.

Soil Excavation. Prior to commencing excavation activities, all utilities in the excavation area will be located and disconnected, as appropriate. Excavation equipment will be mobilized to the site and surface pavements will be removed and appropriately disposed. Soil excavation will be conducted with conventional excavation equipment such as backhoes, excavators, and wheel loaders. The excavations will be conducted as follows:

- **Wash Rack Area**: Excavation of soils in the wash rack area is proposed to remove the petroleum hydrocarbons (measured as TRPH

during previous investigations). The area of removal is shown on Figure 3. Based on the previous investigations, soil will initially be removed to a minimum depth of 3 feet bgs or until clean soil is observed by the field geologist. Soil samples will be collected to confirm the hydrocarbon-impacted soil has been removed. These sampling details are presented in the section entitled *Soil Sampling and Analysis*.

Upon completion of excavation and confirmation that the excavation goals have been met, the wash rack excavation will be backfilled and compacted with imported granular fill from an approved source to match surrounding grade. Imported fill material will be uniform granular fill material with no trash, debris, or organic matter, and free of rock or gravel larger than 2 inches in any dimension. If the fill material source is not a quarry, the contractor will furnish analytical results, indicating the fill material is free of contamination. Fill material will be compacted by mechanical compaction methods designed to achieve the site soil compaction standard of 90 percent relative compaction (ASTM D-1557, Modified Proctor Method). Soil compaction will be documented and submitted as part of the site remediation implementation documentation.

- **UST Area**: Hydrocarbon-impacted soils will be excavated within, beneath, and in the vicinity of the former UST Area. Figure 3 shows the area of excavation and Figures 4 and 5 show cross sections of the area to be excavated. The proposed excavation is approximately 40 feet by 20 feet, to a total depth of 17 feet. The estimated in-place soil volume to be removed is 474 cubic yards. The excavation will be accomplished in two steps. First, shallow soils starting from the ground surface to approximately 13 feet bgs will be excavated and stockpiled on plastic sheeting. Then, saturated soils will be carefully excavated and placed upon the dry soils. Care will be exercised to remove as little water as possible from the wet former tank hole. The soil will be allowed to remain stockpiled during profiling, allowing the saturated soil moisture to dry out and to drain into drier soils beneath. The saturated soils will be removed to a total depth of approximately 17 feet bgs.

  Following soil removal, the UST excavation will be evacuated of pumpable water using a vacuum truck. Water shall be transported by a licensed hazardous waste transporter and disposed of at an appropriate facility, as approved by the Caltrans project manager.

  Removal of excavation water will effectively remove the highest

concentrations of hydrocarbon-impacted groundwater and will facilitate placement of filter fabric and drain rock backfill below the water table elevation. A geotextile filter fabric will be installed to separate drain rock from native soil, preventing the intrusion of fine soils into
the drain rock, which could promote settlement. A geosynthetic woven filter fabric with an apparent opening U.S. sieve No. 70 will be used for this application.

Above the static water table, the excavation will be filled with imported granular fill from an approved source to an elevation matching the surrounding grade. Imported fill material will be uniform granular fill material with no trash, debris, organic matter, and free of rock or gravel larger than 2 inches in any dimension. If the fill material source is not a quarry, analytical results of the material demonstrating that the material is contamination-free will be obtained. The backfill will be compacted to 90 percent relative dry density as measured by ASTM D-1557. Excavations will be mechanically compacted by methods approved by the Licensed Soil Engineer contracted to document soil compaction.

Soil Loading, Transport, and Disposal. During excavation work, the soil will be carefully stockpiled on site. Plastic sheeting will be placed beneath soil piles and piles will be covered, upon completion of excavation work or at the end of each day. Stockpile construction will be carefully managed to prevent any release of free liquid from the piles. After the stockpiled soil has been profiled by soil sampling/analysis, the soil will be loaded and transported to an appropriate land disposal facility. The stockpile areas will be swept clean and all project-related debris will be removed and disposed.

Site Restoration. In the UST Area where asphalt pavement was removed to facilitate excavation, new asphalt pavement will be installed. After the subgrade soils are compacted and graded smooth, the area will be sawcut (overcut by a minimum of 12 inches beyond excavation perimeter) to establish clean, uniform pavement edges. Eight inches (compacted depth) of Class I aggregate baserock will be placed and compacted to 95 percent relative compaction per ASTM D-1557. Finally, two courses of asphalt concrete will be placed and compacted to form a (4-inch compacted depth) pavement section. The pavement will conform to Caltrans Standard Specifications (most recent version).

Soil Sampling and Analysis. For the Wash Rack Area, four soil samples will be collected from the floor of the excavation. These samples will be collected at the locations of previous samples HA-1, HA-2, HA-3, and B-6, which were the locations of the highest reported TRPH concentrations.

For the UST Area, samples will be collected from each of the UST excavation sidewalls above the groundwater table, in areas of observable hydrocarbon impacts. For each excavation sidewall, two samples will be collected, one at approximately 5 feet bgs and one at approximately 12 feet bgs. These depths are preliminary, and will be modified based on field observations of potential hydrocarbon-impacted soil. Three samples will be collected from the floor of the excavation to document the residual soil concentration below the water table.

An ERM geologist will log each sample and classify the soil samples according to the Unified Soil Classification System. Each sample interval will be screened in the field for the presence of volatile organic compounds using an organic vapor monitor equipped with a photoionization detector. Field evidence of petroleum hydrocarbon impacts, such as observable petroleum odors or staining will also be noted in the soil logs.

In addition, the following quality assurance/quality control samples will be submitted to the laboratory for analysis in accordance with the Quality Assurance Project Plan:

- One trip blank per sample cooler; and
- One soil matrix spike/matrix spike duplicate.

Laboratory Analysis

Soil samples from the Wash Rack Area and UST Area excavations will be submitted to Advanced Technology Laboratories in Signal Hill, California. All samples will be analyzed for petroleum hydrocarbon constituents. Note that Method 418.1 for TRPH is an antiquated method for soil analysis for petroleum hydrocarbons. The results of this method are not directly comparable to more established and accepted methodology such as United States Environmental Protection Agency (USEPA) Method 8015 Modified. Method 418.1 is also susceptible to interference by other non-petroleum hydrocarbons such as naturally occurring fats and oils. For this reason, Method 418.1 will not be used for

this soil remediation confirmation project. Wash Rack Area and UST Area soil samples will be analyzed for:

- Purgeable and extractable total petroleum hydrocarbons by USEPA Method 8015; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8020.
- Trip blanks will be analyzed for BTEX by USEPA Method 8020.

Reporting

The results of the well destruction, soil excavation, profiling and disposal, and site restoration will be summarized in a report that will be prepared and submitted to the TCEHS within 45 days of receipt of analytical results.

SCHEDULE

The scope of work is proposed to begin in January 2005 with the well destruction. Soil excavation is proposed for February or March 2005 during low groundwater conditions to maximize access to the unsaturated soil. Reporting will occur 45 days after final results are received. Note that this work is contingent upon Caltrans' ability to contract the soil excavation. Caltrans is currently in negotiation with a remediation contractor and hopes to have funding and a contract vehicle in place to conduct the proposed work.

CLOSING

If you have any questions regarding this workplan, please feel free to contact Jeff Hamilton at (559) 452-8010.

Sincerely,

Jeffrey Hamilton
Project Manager

Patrick E. Galvin, P.E.
Principal-in-Charge

JDH/PEG/abg/0020483.00
enclosures

Figures

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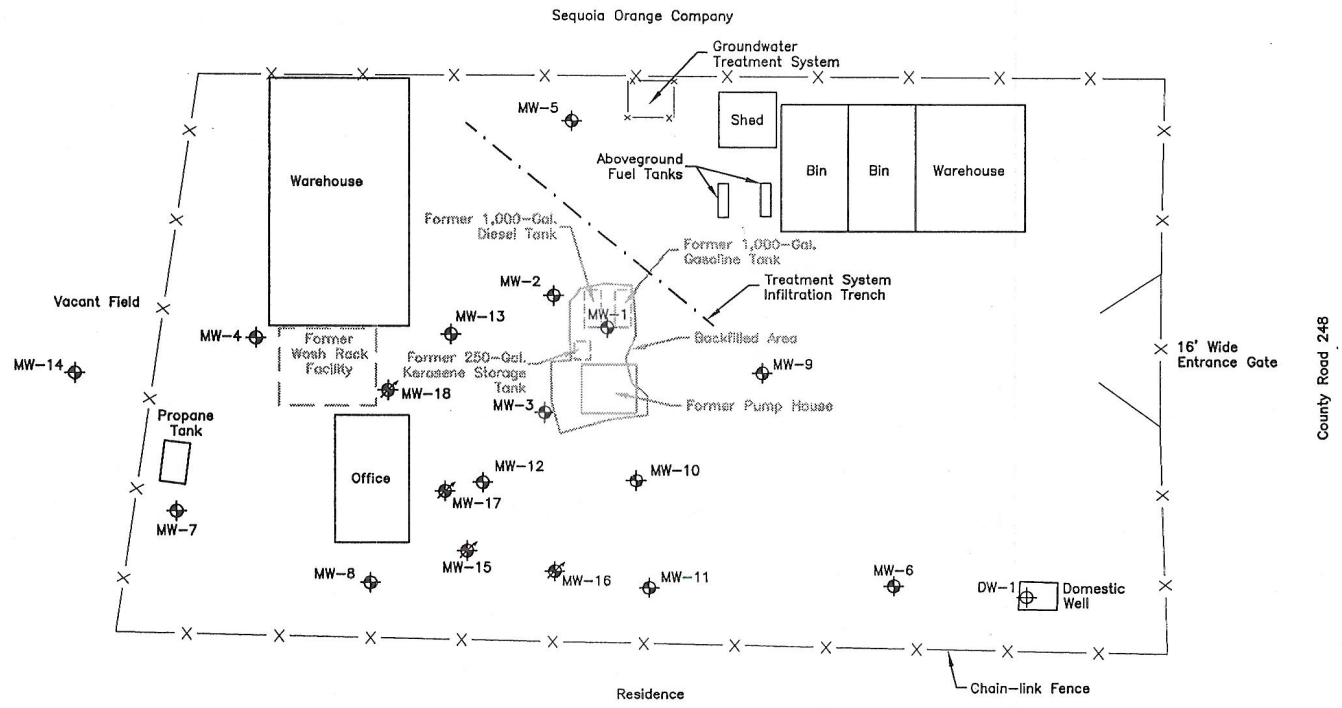

LEGEND

- Groundwater Monitoring Well
- Domestic Well
- Groundwater Extraction Well

N

0 40

Approx. Scale (feet)

Domestic Well 33673 Road 248

Figure 2

Site Detail Map

Caltrans Lemon Cove Maintenance Station

Lemon Cove, California

ERM *03/03*

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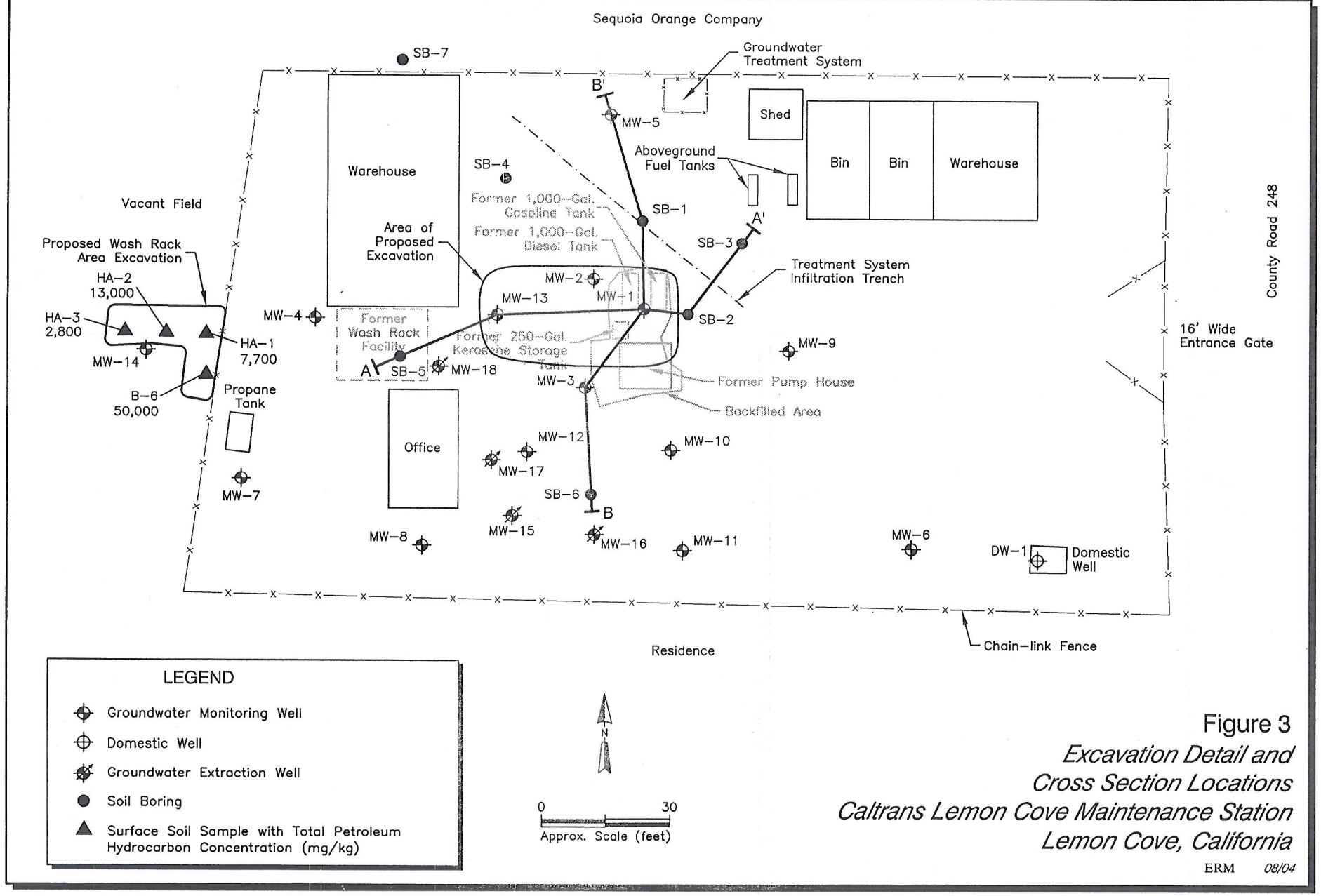

Figure 3

Excavation Detail and Cross Section Locations

Caltrans Lemon Cove Maintenance Station

Lemon Cove, California

ERM 08/04

Project No. 5209.00

Date: 03/06/03

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SCALE 1:24,000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

N

Figure 1

Site Location Map

Caltrans Lemon Cove Maintenance Station

Lemon Cove, California

ERM *03/03*

References:
U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle, Ahwahnee, California
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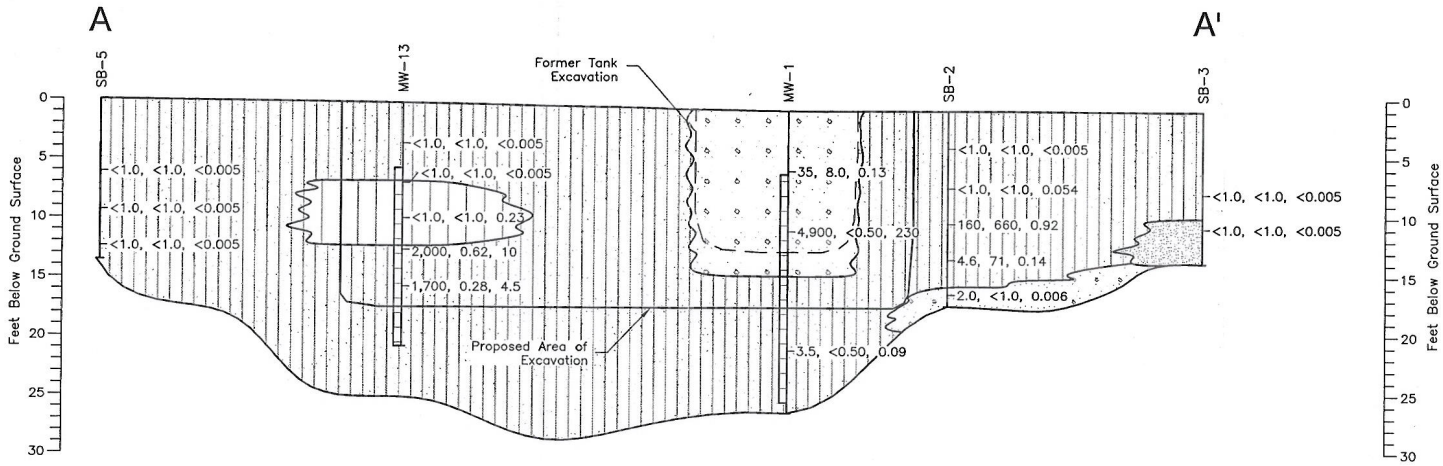

LEGEND

Soil Boring

Well with Screen Interval

-35, 8.0, 0.13 Chemical Concentrations, mg/kg; (TPH-G, TPH-D, Benzene)

Clayey Sand

Silty Sand

Gravelly Sand

VERTICAL SCALE IN FEET 1" = 10'

HORIZONTAL SCALE IN FEET 1" = 10'

Figure 4
Cross Section A-A'
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

ERM 08/04

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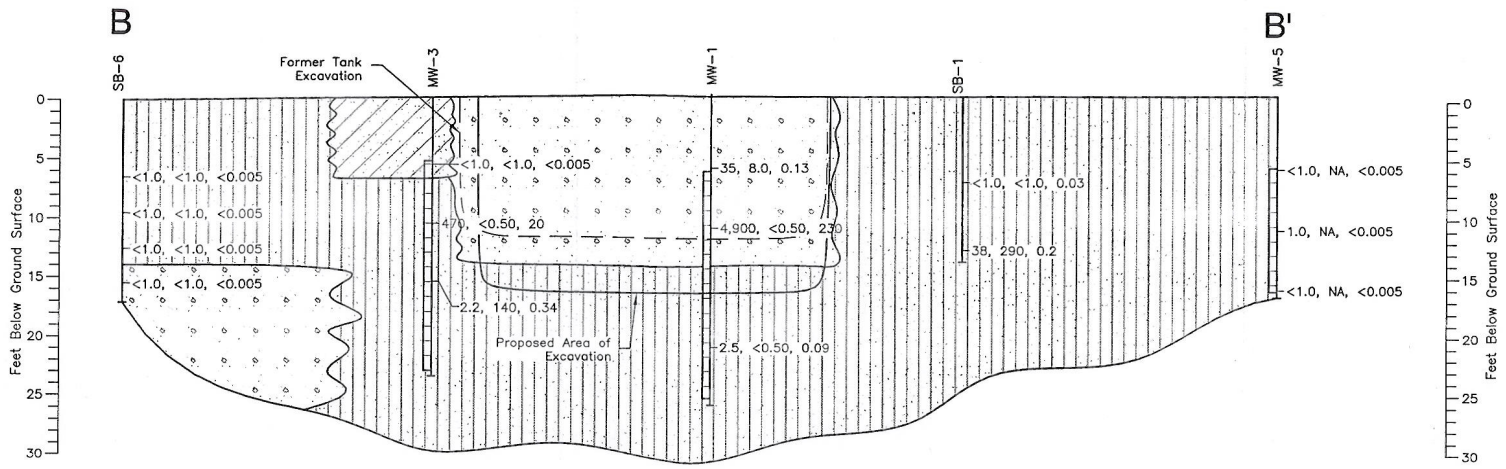

LEGEND

Soil Boring

Well with Screen Interval

-35, 8.0, 0.13 Chemical Concentrations, mg/kg; (TPH-G, TPH-D, Benzene)

Silty Sand

Sand

Gravelly Sand

Silt

VERTICAL SCALE IN FEET 1" = 10'

HORIZONTAL SCALE IN FEET 1" = 10'

Figure 5
Cross Section B-B'
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

ERM 08/04

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Tables

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-1	10/11/91	494.65	8.95	485.7	—
MW-1	05/10/93	494.65	7.91	486.74	—
MW-1	08/03/93	494.65	8.56	486.09	SHEEN
MW-1	09/16/93	494.65	8.59	486.06	SHEEN
MW-1	11/10/93	494.65	10.11	484.54	SHEEN
MW-1	01/21/94	494.65	12.45	482.2	SHEEN
MW-1	04/28/94	494.65	8.6	486.05	SHEEN
MW-1	08/25/94	494.65	7.51	487.14	SHEEN
MW-1	12/07/94	494.65	10.41	484.24	SHEEN
MW-1	03/24/95	494.65	7.95	486.7	—
MW-1	02/15/96	494.65	10.6	484.05	—
MW-1	04/18/96	494.65	7.43	487.22	—
MW-1	07/31/96	494.65	8.26	486.39	—
MW-1	10/08/96	494.65	8.38	486.27	—
MW-1	06/03/97	494.65	7.87	486.78	—
MW-1	09/04/97	494.65	8.39	486.26	—
MW-1	12/16/97	494.65	9.53	485.12	—
MW-1	03/31/99	494.65	7.81	486.84	—
MW-1	06/07/99	494.65	8.14	486.51	—
MW-1	10/26/99	494.65	8.86	485.79	—
MW-1	12/27/99	494.65	11.12	483.53	—
MW-1	04/05/00	494.65	10.75	483.9	—
MW-1	06/28/00	494.65	8.46	486.19	—
MW-1	09/27/00	494.65	7.59	487.06	—
MW-1	12/12/00	494.65	11.88	482.77	—
MW-1	03/07/01	494.65	12.47	482.18	—
MW-1	10/04/01	494.65	10.3	484.35	—
MW-1	01/04/02	494.65	11.42	483.23	—
MW-1	03/18/03	494.65	13.45	481.2	—
MW-1	05/01/03	494.75	8.27	486.48	—
MW-1	12/02/03	494.75	11.76	482.99	—
MW-1	03/15/04	494.75	13.45	481.3	—
MW-2	05/10/93	494.33	7.61	486.72	SHEEN
MW-2	08/03/93	494.33	8.26	486.07	SHEEN
MW-2	09/16/93	494.33	8.3	486.03	SHEEN
MW-2	11/10/93	494.33	9.8	484.53	SHEEN
MW-2	01/21/94	494.33	12.75	481.58	SHEEN
MW-2	04/28/94	494.33	8.3	486.03	SHEEN
MW-2	08/25/94	494.33	7.06	487.27	SHEEN
MW-2	03/24/95	494.33	7.49	486.84	—
MW-2	06/07/99	494.33	7.82	486.51	—
MW-2	10/26/99	494.33	8.52	485.8	—
MW-2	12/27/99	494.33	10.81	483.52	—
MW-2	04/05/00	494.33	10.48	483.85	—
MW-2	06/28/00	494.33	8.16	486.17	—
MW-2	09/27/00	494.33	7.12	487.21	—
MW-2	12/12/00	494.33	11.58	482.75	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-2	03/07/01	494.33	12.44	481.89	SHEEN
MW-2	10/04/01	494.33	10.03	484.3	—
MW-2	01/04/02	494.33	11.12	483.21	SHEEN
MW-2	03/18/03	494.33	13.08	481.25	—
MW-2	05/01/03	494.33	7.76	486.57	—
MW-2	12/02/03	494.33	11.37	482.96	—
MW-2	03/15/04	494.33	13.08	481.25	—
MW-3	10/11/91	494.25	8.62	485.63	—
MW-3	05/10/93	494.25	7.63	486.62	—
MW-3	08/03/93	494.25	8.24	486.01	—
MW-3	09/16/93	494.25	8.29	485.96	—
MW-3	11/10/93	494.25	9.82	484.43	—
MW-3	01/21/94	494.25	12.41	481.84	—
MW-3	04/28/94	494.25	8.27	485.98	—
MW-3	08/25/94	494.25	7.2	487.05	—
MW-3	12/07/94	494.25	10.02	484.23	—
MW-3	03/24/95	494.25	7.53	486.72	—
MW-3	02/15/96	494.25	10.23	484.02	—
MW-3	04/18/96	494.25	7.17	487.08	—
MW-3	07/31/96	494.25	8.28	485.97	—
MW-3	10/08/96	494.25	8.11	486.14	—
MW-3	06/03/97	494.25	7.55	486.7	—
MW-3	09/04/97	494.25	8.21	486.12	—
MW-3	12/16/97	494.25	9.2	485.05	—
MW-3	03/31/99	494.25	7.47	486.78	—
MW-3	06/07/99	494.25	7.84	486.41	—
MW-3	10/25/99	494.25	8.57	485.68	—
MW-3	12/27/99	494.25	10.82	483.43	—
MW-3	04/05/00	494.25	10.27	483.98	—
MW-3	06/28/00	494.25	8.19	486.06	—
MW-3	09/27/00	494.25	7.2	487.05	—
MW-3	12/12/00	494.25	11.5	482.75	—
MW-3	03/06/01	494.25	12.43	481.82	—
MW-3	10/04/01	494.25	10.05	484.2	—
MW-3	01/04/02	494.25	11.07	483.18	—
MW-3	03/18/03	494.25	13.12	481.13	—
MW-3	05/01/03	494.25	7.78	486.47	—
MW-3	12/02/03	494.25	11.37	482.88	—
MW-3	03/15/04	494.25	13.03	481.22	—
MW-4	10/11/91	493.83	8.28	485.55	—
MW-4	05/28/92	493.83	6.78	487.05	—
MW-4	05/10/93	493.83	7.22	486.61	—
MW-4	08/03/93	493.83	7.9	485.93	—
MW-4	09/16/93	493.83	7.92	485.91	—
MW-4	11/10/93	493.83	9.48	484.35	—
MW-4	01/21/94	493.83	12.09	481.74	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-4	04/28/94	493.83	7.95	485.88	—
MW-4	03/24/95	493.83	7.29	486.54	—
MW-4	02/15/96	493.83	10.01	483.82	—
MW-4	04/17/96	493.83	6.48	487.35	—
MW-4	07/31/96	493.83	7.9	485.93	—
MW-4	10/08/96	493.83	7.55	486.28	—
MW-4	06/03/97	493.83	7.27	486.56	—
MW-4	09/04/97	493.83	7.67	486.16	—
MW-4	12/16/97	493.83	8.92	484.91	—
MW-4	03/31/99	493.83	6.76	487.07	—
MW-4	06/07/99	493.83	7.5	486.33	—
MW-4	10/26/99	493.83	8.21	485.62	—
MW-4	12/27/99	493.83	10.51	483.32	—
MW-4	04/05/00	493.83	10.25	483.58	—
MW-4	06/28/00	493.83	7.88	485.95	—
MW-4	09/27/00	493.83	6.6	487.23	—
MW-4	12/12/00	493.83	11.27	482.56	—
MW-4	03/07/01	493.83	12.15	481.68	—
MW-4	10/04/01	493.83	9.73	484.1	—
MW-4	01/04/02	493.83	10.82	483.01	—
MW-4	03/18/03	493.83	12.83	481	—
MW-4	05/01/03	493.83	7.03	486.8	—
MW-4	12/02/03	493.83	11.07	482.76	—
MW-4	03/15/04	493.83	12.78	481.05	—
MW-5	10/11/91	494.45	8.63	485.82	—
MW-5	05/28/92	494.45	7.4	487.05	—
MW-5	05/10/93	494.45	7.61	486.84	—
MW-5	08/03/93	494.45	8.24	486.21	—
MW-5	09/16/93	494.45	8.3	486.15	—
MW-5	11/10/93	494.45	9.78	484.67	—
MW-5	01/21/94	494.45	12.47	481.98	—
MW-5	04/28/94	494.45	8.31	486.14	—
MW-5	12/07/94	494.45	10.12	484.33	—
MW-5	03/24/95	494.45	7.7	486.75	—
MW-5	02/15/96	494.45	10.33	484.12	—
MW-5	04/17/96	494.45	7.13	487.32	—
MW-5	07/30/96	494.45	8.02	486.43	—
MW-5	10/08/96	494.45	8.03	486.42	—
MW-5	06/03/97	494.45	7.58	486.87	—
MW-5	09/04/97	494.45	7.85	486.6	—
MW-5	12/16/97	494.45	9.24	485.21	—
MW-5	03/31/99	494.45	7.43	487.02	—
MW-5	06/07/99	494.45	7.85	486.6	—
MW-5	10/25/99	494.45	8.54	485.91	—
MW-5	12/27/99	494.45	10.81	483.64	—
MW-5	04/05/00	494.45	10.5	483.95	—
MW-5	06/27/00	494.45	8.18	486.27	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-5	09/27/00	494.45	7.15	487.3	—
MW-5	12/11/00	494.45	11.6	482.85	—
MW-5	03/06/01	494.45	12.47	481.98	—
MW-5	10/04/01	494.45	9.99	484.46	—
MW-5	01/04/02	494.45	11.15	483.3	—
MW-5	03/18/03	494.45	13.19	481.26	—
MW-5	05/01/03	494.45	7.94	486.51	—
MW-5	12/02/03	494.45	11.33	483.12	—
MW-5	03/15/04	494.45	13.15	481.3	—
MW-6	10/11/91	495.08	9.4	485.68	—
MW-6	05/28/92	495.08	8.5	486.58	—
MW-6	05/10/93	495.08	8.46	486.62	—
MW-6	08/03/93	495.08	9.1	485.98	—
MW-6	09/16/93	495.08	9.16	485.92	—
MW-6	11/10/93	495.08	10.46	484.62	—
MW-6	01/21/94	495.08	13.04	482.04	—
MW-6	04/28/94	495.08	9.15	485.93	—
MW-6	08/25/94	495.08	8.37	486.71	—
MW-6	12/07/94	495.08	10.71	484.37	—
MW-6	03/24/95	495.08	7.79	487.29	—
MW-6	02/15/96	495.08	10.8	484.28	—
MW-6	04/17/96	495.08	8.48	486.6	—
MW-6	07/30/96	495.08	9.14	485.94	—
MW-6	10/08/96	495.08	8.89	486.19	—
MW-6	06/03/97	495.08	8.5	486.58	—
MW-6	09/04/97	495.08	8.92	486.16	—
MW-6	12/16/97	495.08	9.76	485.32	—
MW-6	03/31/99	495.08	8.77	486.31	—
MW-6	06/07/99	495.08	8.92	486.16	—
MW-6	10/25/99	495.08	9.38	485.7	—
MW-6	12/27/99	495.08	11.44	483.64	—
MW-6	04/04/00	495.08	10.97	484.11	—
MW-6	06/28/00	495.08	8.83	486.25	—
MW-6	09/27/00	495.08	8.27	486.8	—
MW-6	12/11/00	495.08	12.2	482.88	—
MW-6	03/06/01	495.08	12.94	482.14	—
MW-6	10/04/01	495.08	10.69	484.39	—
MW-6	01/04/02	495.08	11.48	483.6	—
MW-6	03/18/03	495.08	13.7	481.38	—
MW-6	05/01/03	495.08	9.29	485.79	—
MW-6	12/02/03	495.08	12.03	483.05	—
MW-6	03/15/04	495.08	13.47	481.61	—
MW-7	10/11/91	493.57	8.12	485.45	—
MW-7	05/28/92	493.57	6.55	487.02	—
MW-7	05/10/93	493.57	7.09	486.48	—
MW-7	08/03/93	493.57	7.75	485.82	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-7	09/16/93	493.57	7.79	485.78	—
MW-7	11/10/93	493.57	9.33	484.24	—
MW-7	01/21/94	493.57	11.9	481.67	—
MW-7	04/28/94	493.57	7.73	485.84	—
MW-7	03/24/95	493.57	7.05	486.52	—
MW-7	02/15/96	493.57	9.83	483.74	—
MW-7	04/18/96	493.57	6.28	487.29	—
MW-7	07/31/96	493.57	7.73	485.84	—
MW-7	10/08/96	493.57	7.29	486.28	—
MW-7	06/03/97	493.57	7.14	486.43	—
MW-7	09/04/97	493.57	7.62	485.95	—
MW-7	12/16/97	493.57	8.75	484.82	—
MW-7	03/31/99	493.57	6.55	487.02	—
MW-7	06/07/99	493.57	7.38	486.19	—
MW-7	10/25/99	493.57	8.07	485.5	—
MW-7	12/27/99	493.57	10.36	483.21	—
MW-7	04/05/00	493.57	10.08	483.49	—
MW-7	06/28/00	493.57	8.73	484.84	—
MW-7	09/27/00	493.57	6.4	487.17	—
MW-7	12/11/00	493.57	11.14	482.43	—
MW-7	03/06/01	493.57	15.45	478.12	—
MW-7	10/04/01	493.57	9.61	483.96	—
MW-7	01/04/02	493.57	10.62	482.95	—
MW-7	03/18/03	493.57	12.63	480.94	—
MW-7	05/01/03	493.57	7.02	486.55	—
MW-7	12/02/03	493.57	10.88	482.69	—
MW-7	03/15/04	493.57	12.9	480.67	—
MW-8	10/11/91	493.5	8.04	485.46	—
MW-8	05/28/92	493.5	6.54	486.96	—
MW-8	05/10/93	493.5	7.02	486.48	—
MW-8	08/03/93	493.5	7.67	485.83	—
MW-8	09/16/93	493.5	7.72	485.78	—
MW-8	11/10/93	493.5	9.23	484.27	—
MW-8	01/21/94	493.5	11.83	481.67	—
MW-8	04/28/94	493.5	7.66	485.84	—
MW-8	08/25/94	493.5	6.4	487.1	—
MW-8	12/07/94	493.5	9.45	484.05	—
MW-8	03/24/95	493.5	6.9	486.6	—
MW-8	02/15/96	493.5	9.71	483.79	—
MW-8	04/18/96	493.5	6.34	487.16	—
MW-8	07/30/96	493.5	7.79	485.71	—
MW-8	10/08/96	493.5	7.3	486.2	—
MW-8	06/03/97	493.5	7.08	486.42	—
MW-8	09/04/97	493.5	7.57	485.93	—
MW-8	12/16/97	493.5	8.63	484.87	—
MW-8	03/31/99	493.5	6.61	486.89	—
MW-8	06/07/99	493.5	7.31	486.19	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-8	10/25/99	493.5	7.99	485.51	—
MW-8	12/27/99	493.5	10.26	483.24	—
MW-8	04/05/00	493.5	9.98	483.52	—
MW-8	06/28/00	493.5	7.65	485.85	—
MW-8	09/27/00	493.5	6.45	487.05	—
MW-8	12/11/00	493.5	11.04	482.46	—
MW-8	03/06/01	493.5	11.85	481.65	—
MW-8	10/04/01	493.5	9.5	484	—
MW-8	01/04/02	493.5	10.5	483	—
MW-8	03/18/03	493.5	12.57	480.93	—
MW-8	05/01/03	493.63	6.64	486.99	—
MW-8	12/02/03	493.63	10.91	482.72	—
MW-8	03/15/04	493.63	12.58	481.05	—
MW-9	10/11/91	495.01	9.24	485.77	—
MW-9	05/28/92	495.01	8.22	486.79	—
MW-9	05/10/93	495.01	8.29	486.72	—
MW-9	08/03/93	495.01	8.91	486.1	—
MW-9	09/16/93	495.01	8.95	486.06	—
MW-9	11/10/93	495.01	10.35	484.66	—
MW-9	01/21/94	495.01	12.96	482.05	—
MW-9	04/28/94	495.01	8.98	486.03	—
MW-9	08/25/94	495.01	8.03	486.98	—
MW-9	12/07/94	495.01	10.63	484.38	—
MW-9	03/24/95	495.01	7.89	487.12	—
MW-9	02/15/96	495.01	10.84	484.17	—
MW-9	04/17/96	495.01	8.14	486.87	—
MW-9	07/30/96	495.01	8.86	486.15	—
MW-9	10/08/96	495.01	8.7	486.31	—
MW-9	06/03/97	495.01	8.3	485.71	—
MW-9	09/04/97	495.01	8.7	486.31	—
MW-9	12/16/97	495.01	9.72	486.29	—
MW-9	03/31/99	495.01	8.44	485.57	—
MW-9	06/07/99	495.01	8.6	486.41	—
MW-9	10/25/99	495.01	9.23	485.78	—
MW-9	12/27/99	495.01	11.38	483.63	—
MW-9	04/04/00	495.01	11	484.01	—
MW-9	06/27/00	495.01	8.75	486.26	—
MW-9	09/27/00	495.01	8	487.01	—
MW-9	12/11/00	495.01	12.15	482.86	—
MW-9	03/06/01	495.01	12.97	482.04	—
MW-9	10/04/01	495.01	10.61	484.4	—
MW-9	01/04/02	495.01	11.56	483.45	—
MW-9	03/18/03	495.01	13.71	481.3	—
MW-9	05/01/03	494.9	8.82	486.08	—
MW-9	12/02/03	494.9	11.81	483.09	—
MW-9	03/15/04	494.9	13.38	481.52	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-10	10/11/91	494.76	9.12	485.64	—
MW-10	05/28/92	494.76	7.94	486.82	—
MW-10	05/10/93	494.76	8.16	486.6	—
MW-10	08/03/93	494.76	8.8	485.96	—
MW-10	09/16/93	494.76	8.86	485.9	—
MW-10	11/10/93	494.76	10.27	484.49	—
MW-10	01/21/94	494.76	12.85	481.91	—
MW-10	04/28/94	494.76	8.84	485.92	—
MW-10	12/07/94	494.76	10.54	484.22	—
MW-10	03/24/95	494.76	7.87	486.89	—
MW-10	02/15/96	494.76	10.78	483.98	—
MW-10	04/17/96	494.76	7.9	486.86	—
MW-10	07/30/96	494.76	8.88	485.88	—
MW-10	10/08/96	494.76	8.59	486.17	—
MW-10	06/03/97	494.76	8.26	486.5	—
MW-10	09/04/97	494.76	8.7	486.06	—
MW-10	12/16/97	494.76	9.72	485.04	—
MW-10	03/31/99	494.76	8.23	486.53	—
MW-10	06/07/99	494.76	8.56	486.2	—
MW-10	10/25/99	494.76	9.21	485.55	—
MW-10	12/27/99	494.76	11.39	483.37	—
MW-10	04/04/00	494.76	11.05	483.71	—
MW-10	06/27/00	494.76	8.78	485.98	—
MW-10	09/27/00	494.76	7.89	486.87	—
MW-10	12/11/00	494.76	12.14	482.62	—
MW-10	03/06/01	494.76	12.96	481.8	—
MW-10	10/04/01	494.76	10.71	484.05	—
MW-10	01/04/02	494.76	11.56	483.2	—
MW-10	03/18/03	494.76	13.67	481.09	—
MW-10	05/01/03	494.67	8.49	486.18	—
MW-10	12/02/03	494.67	11.83	482.84	—
MW-10	03/15/04	494.67	13.36	481.31	—
MW-11	10/11/91	494.28	8.7	485.58	—
MW-11	05/28/92	494.28	7.53	486.75	—
MW-11	05/10/93	494.28	7.72	486.56	—
MW-11	08/03/93	494.28	8.35	485.93	—
MW-11	09/16/93	494.28	8.45	485.83	—
MW-11	11/10/93	494.28	9.82	484.46	—
MW-11	01/21/94	494.28	12.38	481.9	—
MW-11	04/28/94	494.28	8.4	485.88	—
MW-11	08/25/94	494.28	7.37	486.91	—
MW-11	12/07/94	494.28	10.06	484.22	—
MW-11	03/24/95	494.28	7.31	486.97	—
MW-11	02/15/96	494.28	10.26	484.02	—
MW-11	04/17/96	494.28	7.57	486.71	—
MW-11	07/30/96	494.28	8.43	485.85	—
MW-11	10/08/96	494.28	8.1	486.18	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-11	07/03/97	494.28	7.77	486.51	—
MW-11	09/04/97	494.28	8.21	486.07	—
MW-11	12/16/97	494.28	9.03	485.25	—
MW-11	03/31/99	494.28	7.72	486.56	—
MW-11	06/07/99	494.28	8.03	486.25	—
MW-11	10/25/99	494.28	8.66	485.62	—
MW-11	12/27/99	494.28	10.82	483.46	—
MW-11	04/04/00	494.28	10.47	483.81	—
MW-11	06/27/00	494.28	8.2	486.08	—
MW-11	09/27/00	494.28	7.38	486.9	—
MW-11	12/12/00	494.28	11.55	482.73	—
MW-11	03/06/01	494.28	12.39	481.89	—
MW-11	10/04/01	494.28	10.09	484.19	—
MW-11	01/04/02	494.28	10.98	483.3	—
MW-11	03/18/03	494.28	13.04	481.24	—
MW-11	05/01/03	494.31	8.21	486.1	—
MW-11	12/02/03	494.31	11.49	482.82	—
MW-11	03/15/04	494.31	13.04	481.27	—
MW-12	05/10/93	493.72	7.18	486.54	—
MW-12	08/03/93	493.72	7.83	485.89	—
MW-12	09/16/93	493.72	7.88	485.84	—
MW-12	11/10/93	493.72	9.37	484.35	—
MW-12	01/21/94	493.72	11.96	481.76	—
MW-12	04/28/94	493.72	7.84	485.88	—
MW-12	08/25/94	493.72	6.61	487.11	—
MW-12	12/07/94	493.72	9.61	484.11	—
MW-12	03/24/95	493.72	7.06	486.66	—
MW-12	02/15/96	493.72	9.85	483.87	—
MW-12	04/18/96	493.72	6.62	487.1	—
MW-12	07/31/96	493.72	7.97	485.75	—
MW-12	10/08/96	493.72	7.52	486.2	—
MW-12	06/03/97	493.72	7.2	486.52	—
MW-12	09/04/97	493.72	7.65	486.07	—
MW-12	12/16/97	493.72	8.85	484.87	—
MW-12	03/31/99	493.72	7.15	486.57	—
MW-12	06/07/99	493.72	7.46	486.26	—
MW-12	10/26/99	493.72	8.13	485.59	—
MW-12	12/27/99	493.72	10.38	483.34	—
MW-12	04/05/00	493.72	10.05	483.67	—
MW-12	06/28/00	493.72	7.75	485.97	—
MW-12	09/27/00	493.72	6.62	487.1	—
MW-12	12/12/00	493.72	12.12	481.6	—
MW-12	03/06/01	493.72	12.2	481.52	—
MW-12	10/04/01	493.72	9.6	484.12	—
MW-12	01/04/02	493.72	10.61	483.11	—
MW-12	03/18/03	493.72	12.65	481.07	—
MW-12	05/01/03	493.82	7.62	486.2	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-12	12/02/03	493.82	11.05	482.77	—
MW-12	03/15/04	493.82	12.72	481.1	—
MW-13	05/10/93	494.41	7.8	486.61	—
MW-13	08/03/93	494.41	8.45	485.96	SHEEN
MW-13	09/16/93	494.41	8.51	485.9	SHEEN
MW-13	11/10/93	494.41	10.01	484.4	SHEEN
MW-13	01/21/94	494.41	12.66	481.75	SHEEN
MW-13	04/28/94	494.41	8.46	485.95	SHEEN
MW-13	08/25/94	494.41	7.22	487.19	SHEEN
MW-13	12/07/94	494.41	10.22	484.19	—
MW-13	03/24/95	494.41	7.8	486.61	—
MW-13	02/15/96	494.41	10.48	483.93	—
MW-13	04/18/96	494.41	7.15	487.26	—
MW-13	07/31/96	494.41	8.11	486.3	—
MW-13	10/08/96	494.41	8.16	486.25	—
MW-13	06/03/97	494.41	7.73	486.68	—
MW-13	09/04/97	494.41	8.2	486.21	—
MW-13	12/16/97	494.41	9.43	484.98	—
MW-13	03/31/99	494.41	7.42	486.99	—
MW-13	06/07/99	494.41	7.98	486.43	—
MW-13	10/26/99	494.41	8.76	485.65	—
MW-13	12/27/99	494.41	10.96	483.45	—
MW-13	04/05/00	494.41	10.69	483.72	—
MW-13	06/28/00	494.41	8.37	486.04	—
MW-13	09/27/00	494.41	7.22	487.19	—
MW-13	12/12/00	494.41	11.73	482.68	—
MW-13	03/07/01	494.41	12.6	481.81	SHEEN
MW-13	10/04/01	494.41	10.18	484.23	—
MW-13	01/04/02	494.41	11.26	483.15	SHEEN
MW-13	03/18/03	494.41	13.32	481.09	—
MW-13	05/01/03	494.06	7.46	486.6	SHEEN
MW-13	12/02/03	494.06	11.25	482.81	—
MW-13	03/15/04	494.06	12.94	481.12	—
MW-14	10/11/91	491.96	6.48	485.48	—
MW-14	05/28/92	491.96	4.86	487.1	—
MW-14	05/10/93	491.96	5.43	486.53	—
MW-14	08/03/93	491.96	6.11	485.85	—
MW-14	09/16/93	491.96	6.15	485.81	—
MW-14	11/10/93	491.96	7.73	484.23	—
MW-14	01/21/94	491.96	10.4	481.56	—
MW-14	04/28/94	491.96	6.21	485.75	—
MW-14	08/25/94	491.96	4.65	487.31	—
MW-14	12/07/94	491.96	8.11	483.85	—
MW-14	03/24/95	491.96	5.71	486.25	—
MW-14	02/15/96	491.96	8.39	483.57	—
MW-14	04/18/96	491.96	4.66	487.3	—

Table 1 *Groundwater Elevations*
First Quarter 2004
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well I.D.	Date	TOC Elevation (MSL)	Depth to Groundwater (feet)	Groundwater Elevation (MSL)	Product Thickness (feet)
MW-14	07/31/96	491.96	6.29	485.67	—
MW-14	10/08/96	491.96	5.8	486.16	—
MW-14	06/03/97	491.96	5.89	486.07	—
MW-14	09/04/97	491.96	5.98	485.98	—
MW-14	03/31/99	491.96	5.1	486.86	—
MW-14	06/07/99	491.96	5.85	486.11	—
MW-14	10/25/99	491.96	6.57	485.39	—
MW-14	12/27/99	491.96	8.89	483.07	—
MW-14	04/05/99	491.96	8.75	483.21	—
MW-14	06/27/00	491.96	6.42	485.54	—
MW-14	09/27/00	491.96	4.95	487.01	—
MW-14	12/12/00	491.96	9.8	482.16	—
MW-14	03/06/01	491.96	10.62	481.34	—
MW-14	10/04/01	491.96	8.24	483.72	—
MW-14	01/04/02	491.96	9.34	482.62	—
MW-14	03/18/03	491.96	11.32	480.64	—
MW-14	05/01/03	492.22	5.2	487.02	—
MW-14	12/02/03	492.22	9.59	482.63	—
MW-14	03/15/04	492.22	11.31	480.91	—

Key:
MSL = Mean sea level
TOC = Top of casing

Table 2
Well Decommissioning Data
Caltrans Lemon Cove Maintenance Station
Lemon Cove, California

Well ID	Total Depth of Boring (feet bgs)	Total Depth of Well (feet bgs)	Screened Interval (feet bgs)	Sand Pack Interval (feet bgs)	Well Diameter (inches)	Boring Diameter (inches)	Calculated Grout Usage (gallons)
MW-1	25.0	25.0	5 - 25	3 - 25	4	8	31
MW-2	22.0	22.0	7 - 22	5 - 22	4	8	26
MW-13	20.0	20.0	5 - 20	3 - 20	4	8	24

Key:
bgs = Below ground surface
ID = Identification

2. GROUNDWATER MONITORING REPORT

GROUNDWATER MONITORING REPORT – 2010

Lemon Cove Maintenance Station
Tulare County, California

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 6
2015 E. SHIELDS AVENUE, SUITE 100
FRESNO, CALIFORNIA 93726

PREPARED BY:

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742

GEOCON PROJECT NO. S9200-06-21A
TASK ORDER NO. 21

OCTOBER 2010

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9200-06-21A
October 13, 2010

Mr. Terrence Fox
California Department of Transportation - District 6
Hazardous Waste Branch
2015 E. Shields Avenue, Suite 100
Fresno, California 93726

Subject: LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA
CONTRACT NO. 06A1141
TASK ORDER NO. 21, EA NO. 06-0F8001
ANNUAL GROUNDWATER MONITORING REPORT – 2010

Dear Mr. Fox:

In accordance with the California Department of Transportation Contract No. 06A1141, Task Order No. 21, Geocon performed annual groundwater monitoring activities at the Lemon Cove Maintenance Station (the Site) located at 33685 County Road 248 in Lemon Cove, Tulare County, California. The approximate site location is depicted on the attached Vicinity Map, Figure 1. The scope of services included depth to groundwater measurements, the sampling of thirteen groundwater monitoring wells, the sampling of one onsite domestic well, submittal of the water samples to a California-certified laboratory for analytical testing and preparation of this report.

BACKGROUND

The approximate 0.6-acre Site currently contains an office, two warehouses, a shed, two double-walled fuel aboveground storage tanks (ASTs), a propane AST, and two storage bins. An upgraded wash rack facility was constructed in 2000 to replace a former wash rack at the same location. Also located on the Site are an active domestic well (DW-1), 14 monitoring wells (MW-1 through MW-14) and four groundwater extraction wells (MW-15 through MW-18). The Site is generally flat with a slight westward slope. The site elevation is approximately 395 feet above mean sea level.

Three single-walled steel underground storage tanks (USTs) and a pump house were formerly located at the Site (Figure 2). The USTs included a 1,000-gallon diesel UST, a 1,000-gallon gasoline UST, and a 250-gallon waste oil UST that was subsequently converted to a kerosene UST. The USTs were reportedly installed in 1935. The USTs and associated product lines and dispensers were removed in 1987. Results of soil and groundwater samples collected at the time of the UST removal activities indicated that soil and groundwater had been impacted with petroleum hydrocarbons.

Results of subsequent environmental investigations conducted at the Site determined the lateral extent of the soil and groundwater impacts. In 1991, 14 monitoring wells (MW-1 through MW-14) were installed to monitor and delineate impacted groundwater. Four groundwater extraction wells (MW-15 through MW-18) were installed in 1994. The depth to groundwater beneath the Site generally ranges from approximately 7 to 13 feet. The reported groundwater flow direction has varied since the implementation of groundwater monitoring but has generally been reported toward the southwest.

In June 2003, 900 pounds of an oxygen-releasing compound were injected into 15 borings at the Site. Two groundwater monitoring events were performed in 2003 after the injection and then groundwater monitoring at the Site was discontinued. Groundwater monitoring was reinstated in 2007.

Groundwater samples were analyzed for sulfate, nitrate, dissolved iron, dissolved manganese and methane to evaluate remediation by natural attenuation (RNA) during ten groundwater monitoring events conducted between March 2003 and May 2008. Field measurements including dissolved oxygen, oxidation reduction potential and pH were also collected. The historical RNA data collected for the Site suggests that active biodegradation of petroleum hydrocarbons through natural attenuation is occurring.

In correspondence dated September 18, 2008, the Tulare County Health and Human Services Agency agreed with Geocon's recommendation to discontinue analyzing groundwater samples for semi-volatile organic compounds (SVOCs) and to sample and analyze groundwater only once per year.

A cumulative summary of groundwater elevations and analytical data generated at the Site is presented on Tables 1 through 5. The approximate locations of the groundwater monitoring wells are depicted on Figure 2.

FIELD ACTIVITIES

Depth to Groundwater Measurements

On September 1, 2010, Geocon measured the depth to groundwater in monitoring wells MW-1 through MW-9 and MW-11 through MW-14 using a battery-operated water level meter. MW-10 was not accessible due to an approximate 80- to 90-cubic-yard pile of asphalt that was covering it. Measurements were obtained from a surveyed reference point at the top of the well casings (TOC). The approximate well locations and site features are depicted on Figure 2, Groundwater Elevation Map – September 2010.

During the 2010 monitoring event, depth to groundwater at the Site ranged from 5.10 (MW-14) to 7.92 (MW-6) feet below TOC. Based on the September 2010 groundwater elevation data, the groundwater flow is toward the south at an average gradient of 0.003. The historical flow direction has been toward the south-southwest since 2007. A summary of the TOC elevations, depth to groundwater measurements and groundwater elevations is presented on Table 1. Groundwater elevation contours, flow direction and gradient are depicted on Figure 2.

Well Purging and Sampling

On September 1, 2010, approximately one to three well volumes of water (4 to 24.5 gallons) were purged from wells MW-1 through MW-9 and MW-11 through MW-14 using disposable bailers or a submersible pump. The pump was decontaminated before and after each use by washing with an Alconox™ solution followed by fresh and distilled water rinses. The domestic well was sampled from a spigot on the side of the pump house after allowing the water to run for approximately 10 minutes. During the well purging activities, the groundwater was monitored for pH, electrical conductivity, and temperature. This information is included on the Monitoring Well Sampling Data sheets presented in Appendix A.

Following well purging, Geocon collected groundwater samples from each of the wells using disposable bailers. Each sample was decanted from the bailer through low-flow sample release tubes into laboratory-provided containers. We sealed, labeled and placed each sample in a chilled cooler which was transported to the laboratory using chain-of-custody protocol.

Geocon placed the extracted groundwater into four Department of Transportation-approved, 17-H, 55-gallon drums, which were stored onsite pending receipt of laboratory analysis. The purge water was transported by KR Environmental Services for disposal in October 2010.

ANALYTICAL METHODS AND RESULTS

Laboratory Analysis

Advanced Technology Laboratories (ATL) analyzed each groundwater sample for total petroleum hydrocarbons as gasoline and diesel (TPHg and TPHd) following the United States Environmental Protection Agency (EPA) Test Method 8015 modified; benzene, toluene, ethylbenzene, total xylenes (BTEX) and fuel oxygenate compounds (FOCs) following EPA Test Method 8260B; and lead following EPA Test Method 200.7.

Groundwater analytical results for this monitoring event are summarized on Tables 1 and 2. The laboratory reports and chain-of-custody documentation are presented in Appendix B.

Analytical Results

TPHg was reported for the samples from wells MW-1, MW-2, MW-3, MW-12 and MW-13 at concentrations ranging from 430 micrograms per liter (µg/l) (MW-3) to 47,000 µg/l (MW-2). TPHd was reported for the samples from wells MW-1 through MW-3, MW-5, MW-6 and MW-12 through MW-14 at concentrations ranging from 63 µg/l (MW-5) to 3,300 µg/l (MW-1). Benzene was reported for the samples from wells MW-1, MW-2, MW-3, MW-12 and MW-13 at concentrations ranging from 4.4 µg/l (MW-3) to 2,300 µg/l (MW-1). Toluene was reported for the samples from wells MW-1, MW-2, MW-12 and MW-13 at concentrations ranging from 0.66 µg/l (MW-12) to 2,900 µg/l (MW-1). Ethylbenzene was reported for the samples from wells MW-1, MW-2, MW-3, MW-12 and MW-13 at concentrations ranging from 37 µg/l (MW-3) to 4,200 µg/l (MW-2). Total xylenes were reported for the samples from wells MW-1, MW-2, MW-12 and MW-13 at concentrations ranging from 1.56 µg/l (MW-12) to 11,100 µg/l (MW-2). Total lead was only reported for the sample from well MW-5 at 17 µg/l.

Methyl tert-butyl ether (MTBE) was reported for the samples from wells MW-3 and MW-12 at concentrations of 13 µg/l for each sample. Tert-butanol (TBA) was reported for the samples from wells MW-3 and MW-12 at concentrations of 17 and 36 µg/l, respectively. Additional FOCs were not reported at concentrations equal to or greater than their respective laboratory reporting limits (RLs) for each of the groundwater samples. Elevated RLs were used for samples MW-1, MW-2 and MW-13 due to sample matrix interference.

TPHg, TPHd, benzene and MTBE concentrations for the 2010 annual monitoring event are presented on Figure 3.

The field quality assurance/quality control (QA/QC) implemented for the 2010 groundwater monitoring event at the Site included the collection of a duplicate groundwater sample and an equipment blank and the submittal of a trip blank. The groundwater sample collected from well

MW-12 was duplicated and labeled as non-existent monitoring well MW-15. When comparing the results of primary sample MW-12 to the duplicate sample (see Appendix B for MW-15 results), TPHg, TPHd, BTEX and MTBE were reported at similar concentrations for both samples, thus showing good repeatability for these analyses. TBA was reported for sample MW-12 at 36 µg/l; however, TBA was reported for duplicate sample MW-15 at 23 µg/l. The resulting relative percent difference (RPD) is 44%. Based on an RPD greater than 25%, the TBA results reported herein must be qualified as estimated with the potential to be less than or greater than the reported values. Other FOCs and lead were not reported at concentrations equal to or greater than their respective RLs for each sample. None of the tested analytes were reported at concentrations equal to or greater than their respective laboratory RLs for the trip blank or equipment blank.

Geocon also reviewed the analytical laboratory QA/QC provided with the laboratory report. These data show that concentrations of the selected analytes were not reported at concentrations equal to or greater than their respective laboratory RLs for the method blanks and that the method blank surrogate recoveries are acceptable. The analytical laboratory QA/QC data further showed acceptable recoveries and RPDs for the matrix spikes and matrix spike duplicates. Appropriate recoveries were noted for the laboratory control samples. Based on this limited data review, no qualifications of the 2010 data are necessary, and the data are considered of sufficient quality for the purposes of this report.

Geotracker Submittal

The laboratory prepared electronic data files for submittal to the State Water Resources Control Board Geotracker database. The Geotracker database is accessible via the Geotracker website at http://geotracker.waterboards.ca.gov. The electronic data was uploaded to Geotracker on October 12, 2010. The confirmation numbers are 6078164637 and 3557626307.

CONCLUSIONS AND RECOMMENDATIONS

Petroleum hydrocarbons were not reported for the sample collected from the onsite domestic well. The highest concentrations of dissolved-phase petroleum hydrocarbons were reported for wells MW-1, MW-2 and MW-13 located adjacent to the former UST locations. Petroleum hydrocarbon concentrations were orders of magnitude less for downgradient perimeter wells MW-6, MW-7, MW-8 and MW-11.

MTBE was reported for the samples from wells MW-3 and MW-12 located downgradient of the former UST locations at concentrations of 13 µg/l for each sample. Based on historical RNA data, it appears that active biodegradation of petroleum hydrocarbons through natural attenuation is occurring. Based on the results of the September 2010 analytical data, groundwater monitoring should continue at the Site to evaluate seasonal trends in groundwater elevation and contaminant concentrations at the Site. The 2011 groundwater monitoring event is scheduled for September 2011. Due to the sporadic, low level concentrations of lead reported for the groundwater samples, we recommend eliminating total lead analyses from each of the wells.

Please contact us if you have any questions concerning the contents of this Report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Rebecca L. Silva, REA
Project Manager

John E. Juhrend, PE, CEG
Principal

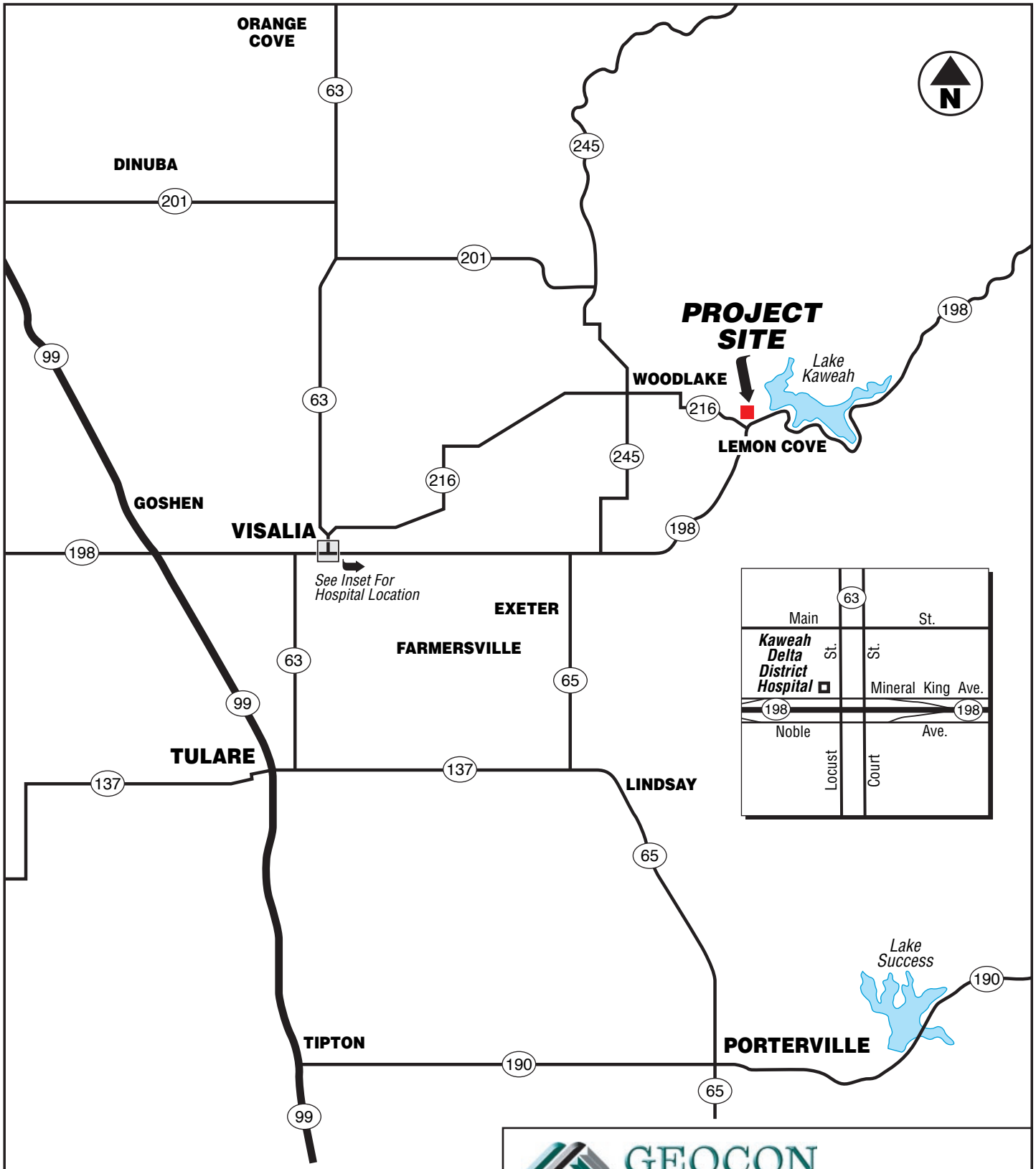
REGISTERED PROFESSIONAL ENGINEER
JOHN JUHREND
No. 46681
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

(2) Addressee

Attachments: Figure 1, Vicinity Map
Figure 2, Groundwater Elevation Map – September 2010
Figure 3, Petroleum Hydrocarbons in Groundwater – September 2010

Table 1, Summary of Groundwater Elevation and Analytical Data
Table 2, Summary of Groundwater Analytical Data – Fuel Oxygenate Compounds
Table 3, Summary of Groundwater Analytical Data – Volatile Organic Compounds
Table 4, Summary of Groundwater Analytical Data – Semi-volatile Organic Compounds
Table 5, Summary of Groundwater Analytical Data – RNA Parameters

Appendix A, Monitoring Well Sampling Data Sheets
Appendix B, Laboratory Report and Chain-of-custody Documentation



GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

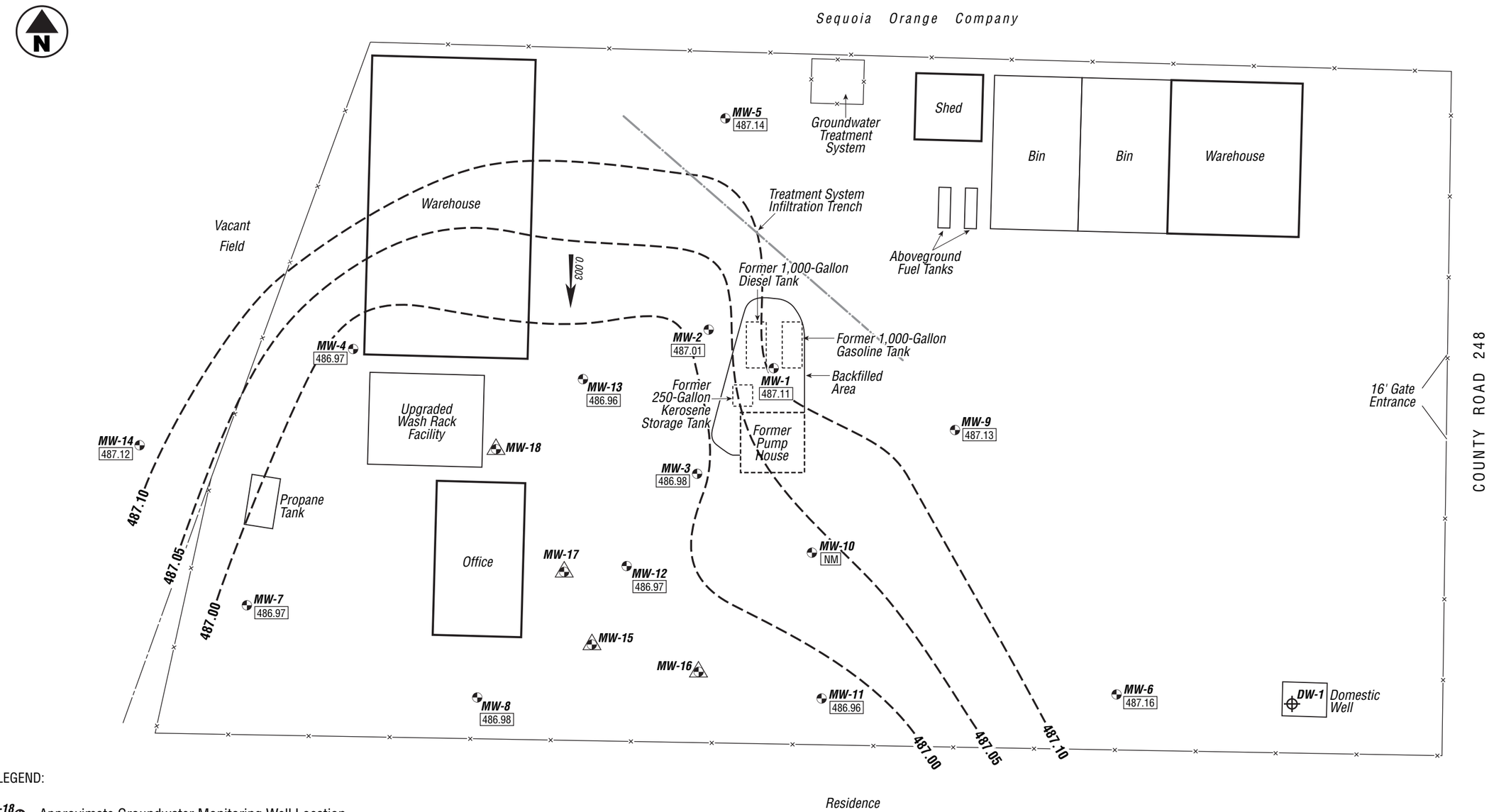
Lemon Cove Maintenance Station

33685 County Road 248
Lemon Cove, California

GEOCON Proj. No. S9200-06-21A

VICINITY MAP

Task Order No. 21 | October 2010 | Figure 1



LEGEND:

- MW-18 Approximate Groundwater Monitoring Well Location
- MW-16 Approximate Groundwater Extraction Well Location
- DW-1 Approximate Domestic Well Location
- Groundwater Elevation Contour (Interval = 0.05 Ft.)
- 486.98 Groundwater Elevation (MSL) Measured on 9/1/10
- 0.003 Approximate Groundwater Flow Direction & Gradient
- NM Not Measured

0 20
Scale in Feet

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

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33685 County Road 248
Lemon Cove, California

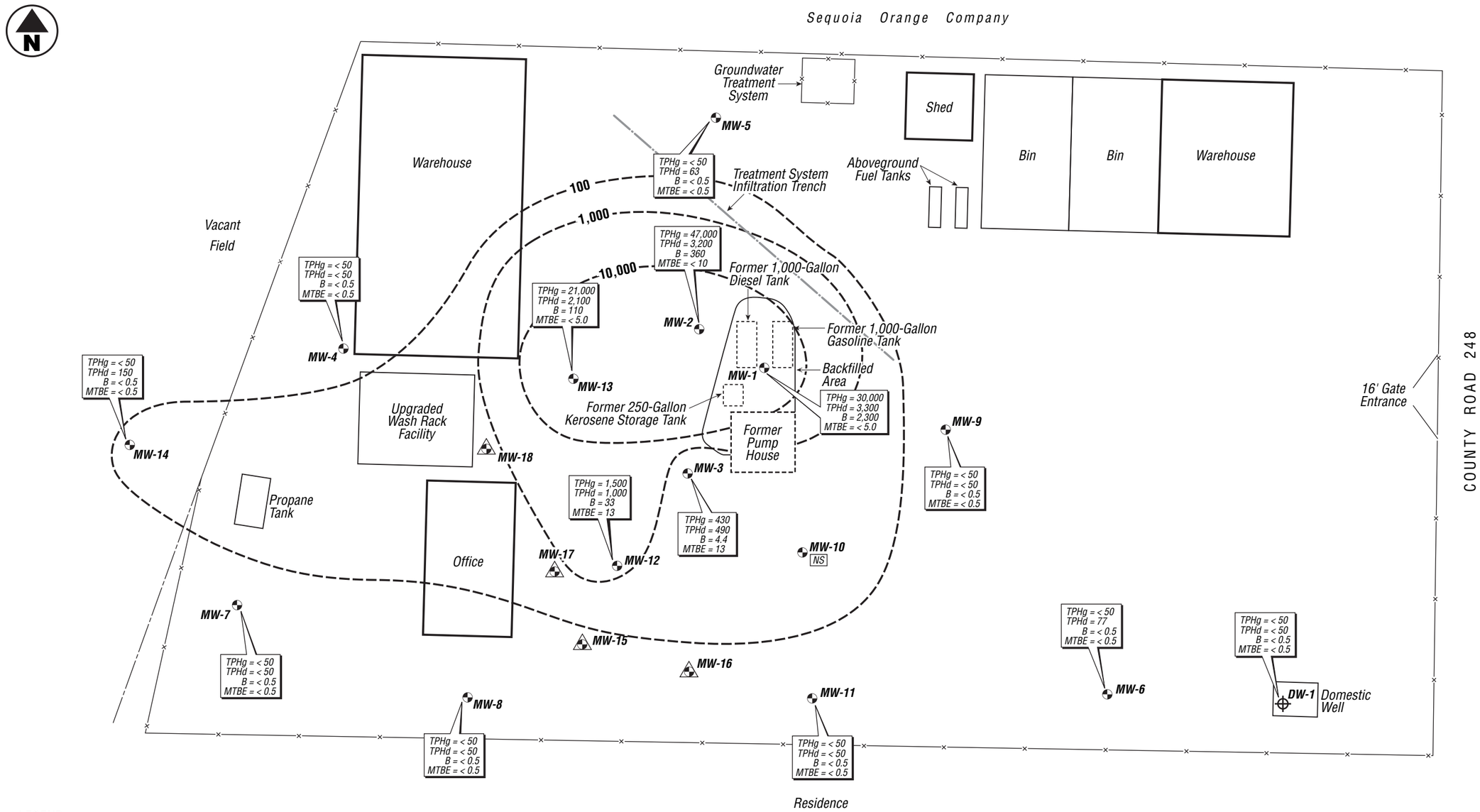
GEOCON Proj. No. S9200-06-21A

Task Order No. 21

Groundwater Elevation Map – September 2010

October 2010

Figure 2



LEGEND:

MW-18 ⊕ Approximate Groundwater Monitoring Well Location

MW-16 ◬ Approximate Groundwater Extraction Well Location

DW-1 ⌖ Approximate Domestic Well Location

1,000 – – – – – TPH Isoconcentration Contour (ug/l)

TPHg = Total Petroleum Hydrocarbons as Gasoline (ug/l)
TPHd = Total Petroleum Hydrocarbons as Diesel (ug/l)
B = Benzene (ug/l)
MTBE = Methyl tert-butyl ether (ug/l)
NS = Not Sampled

0 20
Scale in Feet

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

Lemon Cove Maintenance Station

33685 County Road 248
Lemon Cove, California

GEOCON Proj. No. S9200-06-21A

Petroleum Hydrocarbons in Groundwater – September 2010

Task Order No. 21 | October 2010 | Figure 3

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-1	10/11/1991	494.65	8.95	485.70	---	46,000	48,000	7,400	14,000	1,500	8,000	---	---	---
MW-1	5/28/1992	494.65	---	---	---	220,000	<50	24,000	42,000	2,000	14,000	---	---	---
MW-1	5/10/1993	494.65	7.91	486.74	---	88,000	<50	5,600	9,200	950	7,100	---	---	---
MW-1	8/3/1993	494.65	8.56	486.09	SHEEN	---	---	---	---	---	---	---	---	---
MW-1	9/16/1993	494.65	8.59	486.06	SHEEN	---	---	---	---	---	---	---	---	---
MW-1	11/10/1993	494.65	10.11	484.54	SHEEN	---	---	---	---	---	---	---	---	---
MW-1	1/21/1994	494.65	12.45	482.20	SHEEN	250,000	<50	15,000	22,000	3,500	19,000	---	---	---
MW-1	4/28/1994	494.65	8.60	486.05	SHEEN	220,000	<50	12,000	16,000	860	13,000	---	---	---
MW-1	8/25/1994	494.65	7.51	487.14	SHEEN	240,000	<50	13,000	16,000	820	14,000	---	---	---
MW-1	12/7/1994	494.65	10.41	484.24	SHEEN	240,000	<50	7,100	7,900	2,500	11,000	---	---	---
MW-1	3/24/1995	494.65	7.95	486.70	---	220,000	<50	6,300	10,000	740	11,000	---	---	---
MW-1	2/15/1996	494.65	10.60	484.05	---	78,000	<50	12,000	12,000	1,900	9,400	---	---	---
MW-1	4/18/1996	494.65	7.43	487.22	---	130,000	<50	11,600	35,600	3,000	17,700	---	---	---
MW-1	7/31/1996	494.65	8.26	486.39	---	300,000	3,300	12,900	85,400	9,000	47,800	---	---	---
MW-1	10/8/1996	494.65	8.38	486.27	---	51,000	2,200	2,000	12,200	1,900	11,600	---	---	---
MW-1	6/3/1997	494.65	7.87	486.78	---	150,000	<500	3,300	31,000	3,500	22,000	---	---	---
MW-1	9/4/1997	494.65	8.39	486.26	---	110,000	<500	2,900	31,000	4,000	26,000	---	---	---
MW-1	12/16/1997	494.65	9.53	485.12	---	13,000	<5,000	1,500	380	740	3,800	---	---	---
MW-1	3/31/1999	494.65	7.81	486.84	---	31,000	<0.5	1,300	11,000	1,200	7,900	---	---	---
MW-1	6/7/1999	494.65	8.14	486.51	---	53,000	<1,000	1,000	6,200	920	6,000	---	---	---
MW-1	10/26/1999	494.65	8.86	485.79	---	14,000	<400	690	1,300	580	2,500	---	---	---
MW-1	12/27/1999	494.65	11.12	483.53	---	8,100	<400	400	230	360	1,300	---	---	---
MW-1	4/5/2000	494.65	10.75	483.90	---	7,500 [2]	900 [4]	526	479	323	846	370	9.0	<100
MW-1	6/28/2000	494.65	8.46	486.19	---	47,000	2,200 [5]	1,400	6,400	940	5,300	650	6.0	<100
MW-1	9/27/2000	494.65	7.59	487.06	---	85,000	3,000	2,800	15,000	1,800	14,300	1,200	<5	---
MW-1	12/12/2000	494.65	11.88	482.77	---	9,400	<50	660	580	350	980	6,350	<10	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-1	3/7/2001	494.65	12.47	482.18	---	1,900	<50	280	84	150	250	970	<10	---
MW-1	10/4/2001	494.65	10.30	484.35	---	23,000	3,200	1,200	1,900	900	2,930	1,600	<5	---
MW-1	1/4/2002	494.65	11.42	483.23	---	8,100	2,700 [6]	720	520	570	530	---	---	---
MW-1	3/19/2003	494.65	13.45	481.20	---	7,700	2,000	200	860	56	1,970	---	---	---
MW-1	5/1/2003	494.75	8.27	486.48	---	97,000	24,000 [4]	2,900	17,000	4,200	30,000	---	---	---
MW-1	12/3/2003	494.75	11.76	482.99	---	17,000	6,000 [9]	1,900	370	1,300	3,330	---	---	---
MW-1	3/16/2004	494.75	13.45	481.30	---	5,800	1,700 [9]	1,500	32	440	932	---	---	---
MW-1	2/27/2007	494.75	9.30	485.45	---	120,000	6,300	2,800	14,000	4,600	21,900	---	8.6	---
MW-1	4/26/2007	494.75	9.53	485.22	---	54,000	6,600	2,300	7,100	2,800	11,100	---	7.1	---
MW-1	9/28/2007	494.75	9.10	485.65	---	79,000	9,100	2,800	8,000	3,600	12,700	---	<5	---
MW-1	12/21/2007	494.75	9.04	485.71	---	85,000	3,200	3,000	7,500	3,000	10,200	---	<5	---
MW-1	3/20/2008	494.75	9.90	484.85	---	3,200	5,800	1,300	2,600	1,200	3,500	---	<5	---
MW-1	5/28/2008	494.75	8.50	486.25	---	55,000	4,500	3,400	6,900	3,300	10,800	---	<5	---
MW-1	8/12/2008	494.75	9.44	485.31	---	16,000	<50	1,400	1,800	900	2,020	---	<5	---
MW-1	12/8/2009	494.75	7.75	487.00	---	41,000	3,800	2,700	4,200	1,900	5,200	---	<5	---
MW-1	9/1/2010	494.75	7.64	487.11	---	30,000	3,300	2,300	2,900	2,800	6,100	---	<5	---
MW-2	10/11/1991	494.33	---	---	---	170,000	74,000	22,000	44,000	3,500	20,000	---	---	---
MW-2	5/28/1992	494.33	---	---	---	680,000	<50	17,000	41,000	1,500	16,000	---	---	---
MW-2	5/10/1993	494.33	7.61	486.72	SHEEN	---	---	---	---	---	---	---	---	---
MW-2	8/3/1993	494.33	8.26	486.07	SHEEN	---	---	---	---	---	---	---	---	---
MW-2	9/16/1993	494.33	8.30	486.03	SHEEN	---	---	---	---	---	---	---	---	---
MW-2	11/10/1993	494.33	9.80	484.53	SHEEN	---	---	---	---	---	---	---	---	---
MW-2	1/21/1994	494.33	12.75	481.58	SHEEN	340,000	<50	16,000	26,000	1,600	14,000	---	---	---
MW-2	4/28/1994	494.33	8.30	486.03	SHEEN	180,000	<50	8,800	13,000	730	12,000	---	---	---
MW-2	8/25/1994	494.33	7.06	487.27	SHEEN	200,000	<50	9,600	14,000	920	12,000	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-2	12/7/1994	494.33	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	3/24/1995	494.33	7.49	486.84	---	350,000	<50	11,000	21,000	1,700	18,000	---	---	---
MW-2	2/15/1996	Not Accessible		---	---	---	---	---	---	---	---	---	---	---
MW-2	4/18/1996	Not Accessible		---	---	---	---	---	---	---	---	---	---	---
MW-2	7/30/1996	Not Accessible		---	---	---	---	---	---	---	---	---	---	---
MW-2	10/8/1996	Not Accessible		----		---	---	---	---	---	---	---	---	---
MW-2	6/3/1997	Not Accessible		---	---	---	---	---	---	---	---	---	---	---
MW-2	3/31/1999	Not Accessible		---	---	---	---	---	---	---	---	---	---	---
MW-2	6/7/1999	494.33	7.82	486.51	---	67,000	<1,000	280	21,000	2,700	17,000	---	---	---
MW-2	10/26/1999	494.33	8.52	485.80	---	60,000	<400	140	10,000	1,500	9,300	---	---	---
MW-2	12/27/1999	494.33	10.81	483.52	---	54,000	<400	64	11,000	1,500	10,000	---	---	---
MW-2	4/5/2000	494.33	10.48	483.85	---	95,000 [2]	1,800 [4]	101	21,200	2,590	16,100	230	<5	<100
MW-2	6/28/2000	494.33	8.16	486.17	---	150,000	2,600 [4]	140	19,000	3,300	17,800	710	<5	<100
MW-2	9/27/2000	494.33	7.12	487.21	---	100,000	1,900	130	18,000	3,200	18,500	1,800	<5	---
MW-2	12/12/2000	494.33	11.58	482.75	---	33,000	<50	52	5,200	940	4,600	1,480	<10	---
MW-2	3/7/2001	494.33	12.44	481.89	SHEEN	3,900	<50	7.3	140	270	590	1,510	<10	---
MW-2	10/4/2001	494.33	10.03	484.30	---	100,000	24,000	67	12,000	3,200	20,300	900	<5	---
MW-2	1/4/2002	494.33	11.12	483.21	SHEEN	---	---	---	---	---	---	---	---	---
MW-2	3/19/2003	494.33	13.08	481.25	---	5,400	1,600	20	270	120	470	---	---	---
MW-2	5/1/2003	494.33	7.76	486.57	---	71,000	22,000 [4]	210	15,000	5,000	31,300	---	---	---
MW-2	12/3/2003	494.33	11.37	482.96	---	19,000	6,400 [9]	340	1,900	1,700	4,700	---	---	---
MW-2	3/16/2004	494.33	13.08	481.25	---	11,000	2,700 [9]	270	260	1,000	1,353	---	---	---
MW-2	2/27/2007	494.33	8.72	485.61	---	62,000	3,700	500	6,300	4,100	20,800	---	<5	---
MW-2	4/26/2007	494.33	9.11	485.22	---	39,000	4,700	280	2,700	2,100	9,700	---	<5	---
MW-2	9/28/2007	494.33	Unable to access	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/21/2007	494.33	Unable to access	---	---	---	---	---	---	---	---	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-2	3/20/2008	494.33	9.47	484.86	---	6,600	3,600	340	2,000	3,000	13,100	---	<5	---
MW-2	5/28/2008	494.33	8.09	486.24	---	55,000	510	410	2,100	3,700	14,300	---	<5	---
MW-2	8/12/2008	494.33	9.03	485.30	---	34,000	79	340	1,200	3,100	5,200	---	<5	---
MW-2	12/8/2009	494.33	7.40	486.93	---	49,000	4,200	320	670	3,900	11,100	---	<5	---
MW-2	9/1/2010	494.33	7.32	487.01	---	47,000	3,200	360	540	4,200	11,100	---	<5	---
MW-3	10/11/1991	494.25	8.62	485.63	---	3,900	1,700	1,600	115	110	590	---	---	---
MW-3	5/28/1992	494.25	---	---	---	3,300	490	<0.3	19	<0.3	29	---	---	---
MW-3	5/10/1993	494.25	7.63	486.62	---	1,300	<50	230	39	24	100	---	---	---
MW-3	8/3/1993	494.25	8.24	486.01	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-3	9/16/1993	494.25	8.29	485.96	---	---	---	---	---	---	---	---	---	---
MW-3	11/10/1993	494.25	9.82	484.43	---	460	<50	100	<0.5	18	24	---	---	---
MW-3	1/21/1994	494.25	12.41	481.84	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-3	4/28/1994	494.25	8.27	485.98	---	380	<50	56	<0.5	<0.5	9.3	---	---	---
MW-3	8/25/1994	494.25	7.20	487.05	---	1,800	<50	510	<2.0	<2.0	13	---	---	---
MW-3	12/7/1994	494.25	10.02	484.23	---	6,500	<50	860	16	100	170	---	---	---
MW-3	3/24/1995	494.25	7.53	486.72	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-3	2/15/1996	494.25	10.23	484.02	---	3,400	<50	1,100	34	120	190	---	---	---
MW-3	4/18/1996	494.25	7.17	487.08	---	3,900	<50	1,300	690	180	570	---	---	---
MW-3	7/31/1996	494.25	8.28	485.97	---	9,900	1,200	2,600	38	610	630	---	---	---
MW-3	10/8/1996	494.25	8.11	486.14	---	10,000	1,300	3,500	670	630	980	---	---	---
MW-3	6/3/1997	494.25	7.55	486.70	---	6,600	<500	1,500	110	460	580	---	---	---
MW-3	9/4/1997	494.25	8.21	486.12	---	15,000	<500	3,400	2,200	760	2,400	---	---	---
MW-3	12/16/1997	494.25	9.20	485.05	---	8,900	<5,000	690	3,200	340	1,800	---	---	---
MW-3	3/31/1999	494.25	7.47	486.78	---	3,800	<0.5	790	770	120	780	---	---	---
MW-3	6/7/1999	494.25	7.84	486.41	---	<500	<1,000	<0.6	<0.6	<0.6	6.9	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-3	10/25/1999	494.25	8.57	485.68	---	<500	<400	16	8.0	15	16	---	---	---
MW-3	12/27/1999	494.25	10.82	483.43	---	<500	<400	2.0	<1	3.0	<3	---	---	---
MW-3	4/5/2000	494.25	10.27	483.98	---	200 [2]	100 [3]	17	1.7	6.9	4.1	200	10	<100
MW-3	6/28/2000	494.25	8.19	486.06	---	<50	<50	<0.5	<0.5	<0.5	<0.5	240	<5	<100
MW-3	9/27/2000	494.25	7.20	487.05	---	3,400	490	550	190	58	490	3,200	<5	---
MW-3	12/12/2000	494.25	11.50	482.75	---	80	<50	2.4	1.7	1.2	1.0	3,350	<10	---
MW-3	3/6/2001	494.25	12.43	481.82	---	<50	<50	<0.5	<0.5	<0.5	0.83	<100	<10	---
MW-3	10/4/2001	494.25	10.05	484.20	---	320	840	30	<0.5	25	15.62	800	<5	---
MW-3	1/4/2002	494.25	11.07	483.18	---	88	<50	8.6	<0.5	5.4	8.6	---	---	---
MW-3	3/19/2003	494.25	13.12	481.13	---	<50	100	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-3	5/2/2003	494.25	7.78	486.47	---	160	130 [4,8]	27	0.75	15	4.9	---	---	---
MW-3	12/3/2003	494.25	11.37	482.88	---	ND	140 [9]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-3	3/15/2004	494.25	13.03	481.22	---	<50	ND	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-3	2/28/2007	494.25	8.48	485.77	---	190	1,900	17	<0.5	41	0.49 [10]	---	11	---
MW-3	4/25/2007	494.25	9.06	485.19	---	72	120	0.57	<0.5	3.6	<0.5	---	2.9 [10]	---
MW-3	9/28/2007	494.25	8.62	485.63	---	180	140	3.7	<0.5	32	<1.0	---	2,400	---
MW-3	12/21/2007	494.25	8.55	485.70	---	530	130	11	<0.5	80	<1.0	---	8.2	---
MW-3	3/20/2008	494.25	9.45	484.80	---	60	58	3.2	<0.5	43	<1.0	---	<5	---
MW-3	5/28/2008	494.25	8.02	486.23	---	340	460*	12	<0.5	74	<1.0	---	<5	---
MW-3	8/12/2008	494.25	9.01	485.24	---	640	<50	1.6	9.4	65	97	---	<5	---
MW-3	12/8/2009	494.25	7.37	486.88	---	350	650	4.7	<0.5	19	<1.0	---	<5	---
MW-3	9/1/2010	494.25	7.27	486.98	---	430	490	4.4	<0.5	37	<1.0	---	<5	---
MW-4	10/11/1991	493.83	8.28	485.55	---	ND	ND	ND	1.0	0.7	2.4	---	---	---
MW-4	5/28/1992	493.83	6.78	487.05	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-4	5/10/1993	493.83	7.22	486.61	---	1,300	<50	34	5.9	42	280	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-4	8/3/1993	493.83	7.90	485.93	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-4	9/16/1993	493.83	7.92	485.91	---	---	---	---	---	---	---	---	---	---
MW-4	11/10/1993	493.83	9.48	484.35	---	6,400	<50	88	34	200	750	---	---	---
MW-4	1/21/1994	493.83	12.09	481.74	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-4	4/28/1994	493.83	7.95	485.88	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-4	8/25/1994	493.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/7/1994	493.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	3/24/1995	493.83	7.29	486.54	---	250	<50	<0.5	<0.5	<0.5	39	---	---	---
MW-4	2/15/1996	493.83	10.01	483.82	---	7,400	<50	28	22	360	1,900	---	---	---
MW-4	4/17/1996	493.83	6.48	487.35	---	1,600	<50	5.4	3.4	75	350	---	---	---
MW-4	7/31/1996	493.83	7.90	485.93	---	2,500	<50	4.6	4.5	150	460	---	---	---
MW-4	10/8/1996	493.83	7.55	486.28	---	1,500	98	3.2	3.1	130	400	---	---	---
MW-4	6/3/1997	493.83	7.27	486.56	---	<500	<500	<0.3	<0.3	6	27	---	---	---
MW-4	9/4/1997	493.83	7.67	486.16	---	5,200	<500	4.4	5.6	200	1,200	---	---	---
MW-4	12/16/1997	493.83	8.92	484.91	---	1,600	<5,000	1.5	1.7	39	480	---	---	---
MW-4	3/31/1999	493.83	6.76	487.07	---	3,700	<0.5	0.6	3.1	620	1,100	---	---	---
MW-4	6/7/1999	493.83	7.50	486.33	---	<500	<1,000	<0.6	<0.6	37	80	---	---	---
MW-4	10/26/1999	493.83	8.21	485.62	---	2,900	<400	1.0	3.0	280	340	---	---	---
MW-4	12/27/1999	493.83	10.51	483.32	---	2,800	<400	<0.6	1.0	280	320	---	---	---
MW-4	4/5/2000	493.83	10.25	483.58	---	3,900 [2]	100 [5]	<0.5	1.4	446	444	230	5.0	<100
MW-4	6/28/2000	493.83	7.88	485.95	---	1,600	<50	<0.5	<0.5	200	170	180	11	<100
MW-4	9/27/2000	493.83	6.60	487.23	---	73	<50	<0.5	<0.5	<0.5	0.86	2,600	<5	---
MW-4	12/12/2000	493.83	11.27	482.56	---	4,300	<50	<5.0	<5.0	370	370	6,600	11	---
MW-4	3/7/2001	493.83	12.15	481.68	---	910	<50	<0.5	<0.5	120	100	<100	<10	---
MW-4	10/4/2001	493.83	9.73	484.10	---	1,800	750	0.56	<0.5	250	190	700	<5	---
MW-4	1/4/2002	493.83	10.82	483.01	---	6,500	1,300 [6]	<0.5	0.59	490	250	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-4	3/18/2003	493.83	12.83	481.00	---	540	160	<0.5	<0.5	91	79	---	---	---
MW-4	5/1/2003	493.83	7.03	486.80	---	260	130 [4]	<0.5	<0.5	32	27	---	---	---
MW-4	12/3/2003	493.83	11.07	482.76	---	860	270 [9]	<0.5	<0.5	140	120	---	---	---
MW-4	3/16/2004	493.83	12.78	481.05	---	ND	ND	<0.5	0.5 [10]	17	3.6	---	---	---
MW-4	2/27/2007	493.83	8.22	485.61	---	<50	<50	<0.5	<0.5	0.34 [8]	<0.5	---	7.3	---
MW-4	4/26/2007	493.83	8.63	485.20	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<5	---
MW-4	9/26/2007	493.83	8.22	485.61	---	<50	120	<0.5	<0.5	<0.5	<1.0	---	<1.0	---
MW-4	12/19/2007	493.83	8.03	485.80	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-4	3/18/2008	493.83	9.03	484.80	---	<50	<50	<0.5	<0.5	1.2	<1.0	---	<5	---
MW-4	5/27/2008	493.83	7.62	486.21	---	<50	<50	<0.5	<0.5	0.64	<1.0	---	<5	---
MW-4	8/12/2008	493.83	8.59	485.24	---	<50	<50	<50	<50	<50	<100	---	<5	---
MW-4	12/7/2009	493.83	6.91	486.92	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-4	9/1/2010	493.83	6.86	486.97	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-5	10/11/1991	494.45	8.63	485.82	---	ND	ND	ND	ND	ND	ND	---	---	---
MW-5	5/28/1992	494.45	7.40	487.05	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-5	5/10/1993	494.45	7.61	486.84	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	8/3/1993	494.45	8.24	486.21	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	9/16/1993	494.45	8.30	486.15	---	---	---	---	---	---	---	---	---	---
MW-5	11/10/1993	494.45	9.78	484.67	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	1/21/1994	494.45	12.47	481.98	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	4/28/1994	494.45	8.31	486.14	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	8/25/1994	494.45	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	12/7/1994	494.45	10.12	484.33	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	3/24/1995	494.45	7.70	486.75	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	2/15/1996	494.45	10.33	484.12	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-5	4/17/1996	494.45	7.13	487.32	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	7/30/1996	494.45	8.02	486.43	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	10/8/1996	494.45	8.03	486.42	---	<50	<50	<0.5	0.6	<0.5	0.8	---	---	---
MW-5	6/3/1997	494.45	7.58	486.87	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-5	9/4/1997	494.45	7.85	486.60	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-5	12/16/1997	494.45	9.24	485.21	---	<50	<5,000	<0.5	<0.5	<0.5	<1	---	---	---
MW-5	3/31/1999	494.45	7.43	487.02	---	<500	<0.5	<0.3	<0.3	<0.6	<0.6	---	---	---
MW-5	6/7/1999	494.45	7.85	486.60	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-5	10/25/1999	494.45	8.54	485.91	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-5	12/27/1999	494.45	10.81	483.64	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-5	4/5/2000	494.45	10.50	483.95	---	<50	<50	<0.5	<0.5	<0.5	<0.5	270	7.0	<100
MW-5	6/27/2000	494.45	8.18	486.27	---	<50	<50	<0.5	<0.5	<0.5	<0.5	510	5.0	<100
MW-5	9/27/2000	494.45	7.15	487.30	---	65	<50	<0.5	<0.5	<0.5	0.55	<30	<5	---
MW-5	12/11/2000	494.45	11.60	482.85	---	<50	<50	<0.5	<0.5	<0.5	<0.5	23,200	<10	---
MW-5	3/6/2001	494.45	12.47	481.98	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	<10	---
MW-5	10/4/2001	494.45	9.99	484.46	---	<50	<50	<0.5	<0.5	<0.5	<0.5	500	<5	---
MW-5	1/4/2002	494.45	11.15	483.30	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	3/18/2003	494.45	13.19	481.26	---	150	40	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	5/1/2003	494.45	7.94	486.51	---	130	170 [4]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	12/3/2003	494.45	11.33	483.12	---	ND	50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	3/16/2004	494.45	13.15	481.30	---	ND	30 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-5	2/27/2007	494.45	8.72	485.73	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	5.4	---
MW-5	4/26/2007	494.45	9.15	485.30	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<5	---
MW-5	9/26/2007	494.45	8.73	485.72	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-5	12/19/2007	494.45	8.61	485.84	---	<50	<50	<0.5	<0.5	0.61	<1.0	---	<5	---
MW-5	3/18/2008	494.45	9.51	484.94	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-5	5/27/2008	494.45	8.15	486.30	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-5	8/12/2008	494.45	9.09	485.36	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-5	12/8/2009	494.45	7.45	487.00	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-5	9/1/2010	494.45	7.31	487.14	---	<50	63	<0.5	<0.5	<0.5	<1.0	---	17	---
MW-6	10/11/1991	495.08	9.40	485.68	---	ND	ND	0.33	0.4	ND	0.38	---	---	---
MW-6	5/28/1992	495.08	8.50	486.58	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-6	5/10/1993	495.08	8.46	486.62	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	8/3/1993	495.08	9.10	485.98	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	9/16/1993	495.08	9.16	485.92	---	---	---	---	---	---	---	---	---	---
MW-6	11/10/1993	495.08	10.46	484.62	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	1/21/1994	495.08	13.04	482.04	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	4/28/1994	495.08	9.15	485.93	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	8/25/1994	495.08	8.37	486.71	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	12/7/1994	495.08	10.71	484.37	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	3/24/1995	495.08	7.79	487.29	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	2/15/1996	495.08	10.80	484.28	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	4/17/1996	495.08	8.48	486.60	---	<50	210	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	7/30/1996	495.08	9.14	485.94	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	10/8/1996	495.08	8.89	486.19	---	<50	<50	<0.5	0.5	<0.5	1.0	---	---	---
MW-6	6/3/1997	495.08	8.50	486.58	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-6	9/4/1997	495.08	8.92	486.16	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-6	12/16/1997	495.08	9.76	485.32	---	<50	<5,000	<0.5	<0.5	<0.5	<1	---	---	---
MW-6	3/31/1999	495.08	8.77	486.31	---	<500	<0.5	<0.3	<0.3	<0.6	<0.6	---	---	---
MW-6	6/7/1999	495.08	8.92	486.16	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-6	10/25/1999	495.08	9.38	485.70	---	<500	<400	<0.6	<1	<1	<3	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-6	12/27/1999	495.08	11.44	483.64	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-6	4/4/2000	495.08	10.97	484.11	---	100 [2]	<50	0.7	0.8	<0.5	<0.5	180	11	<100
MW-6	6/28/2000	495.08	8.83	486.25	---	<50	<50	<0.5	<0.5	<0.5	<0.5	140	<5	<100
MW-6	9/27/2000	495.08	8.28	486.80	---	54	<50	<0.5	<0.5	<0.5	<0.5	4,900	<5	---
MW-6	12/11/2000	495.08	12.20	482.88	----	<50	<50	<0.5	2.4	<0.5	<0.5	584	<10	---
MW-6	3/6/2001	495.08	12.94	482.14	---	<50	<50	<0.5	<0.5	<0.5	<0.5	180	<10	---
MW-6	10/4/2001	495.08	10.69	484.39	---	<50	<50	<0.5	<0.5	<0.5	<0.5	800	<5	---
MW-6	1/4/2002	495.08	11.48	483.60	---	<50	91 [6]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	3/19/2003	495.08	13.70	481.38	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	5/2/2003	495.08	9.29	485.79	---	<50	10 [4,10]	<0.5	0.2 [10]	<0.5	<0.5	---	---	---
MW-6	12/2/2003	495.08	12.03	483.05	---	ND	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	3/15/2004	495.08	13.47	481.61	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-6	2/27/2007	495.08	9.42	485.66	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	5.0	---
MW-6	4/25/2007	495.08	9.84	485.24	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	3.8	---
MW-6	9/27/2007	495.08	9.53	485.55	---	<50	68	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-6	12/20/2007	495.08	9.24	485.84	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-6	3/19/2008	495.08	10.10	484.98	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-6	5/27/2008	495.08	8.89	486.19	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-6	8/12/2008	495.08	9.78	485.30	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-6	12/8/2009	495.08	8.13	486.95	---	<50	98	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-6	9/1/2010	495.08	7.92	487.16	---	<50	77	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-7	10/11/1991	493.57	8.12	485.45	---	ND	ND	0.47	0.5	ND	0.4	---	---	---
MW-7	5/28/1992	493.57	6.55	487.02	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-7	5/10/1993	493.57	7.09	486.48	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	8/3/1993	493.57	7.75	485.82	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

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SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-7	9/16/1993	493.57	7.79	485.78	---	---	---	---	---	---	---	---	---	---
MW-7	11/10/1993	493.57	9.33	484.24	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	1/21/1994	493.57	11.90	481.67	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	4/28/1994	493.57	7.73	485.84	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	8/25/1994	493.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/7/1994	493.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	3/24/1995	493.57	7.05	486.52	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	2/15/1996	493.57	9.83	483.74	---	<50	<50	<0.5	<0.5	0.9	1.2	---	---	---
MW-7	4/18/1996	493.57	6.28	487.29	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	7/31/1996	493.57	7.73	485.84	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	10/8/1996	493.57	7.29	486.28	---	<50	<50	<0.5	0.6	<0.5	<0.5	---	---	---
MW-7	6/3/1997	493.57	7.14	486.43	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-7	9/4/1997	493.57	7.62	485.95	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-7	12/16/1997	493.57	8.75	484.82	---	<50	<5,000	<0.5	<0.5	<0.5	<1	---	---	---
MW-7	3/31/1999	493.57	6.55	487.02	---	<500	<0.5	<0.3	<0.6	<0.6	<0.6	---	---	---
MW-7	6/7/1999	493.57	7.38	486.19	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-7	10/25/1999	493.57	8.07	485.50	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-7	12/27/1999	493.57	10.36	483.21	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-7	4/5/2000	493.57	10.08	483.49	---	<50	100 [3]	<0.5	<0.5	<0.5	<0.5	170	12	<100
MW-7	6/28/2000	493.57	8.73	484.84	---	<50	100	<0.5	<0.5	<0.5	<0.5	360	7.0	<100
MW-7	9/27/2000	493.57	6.40	487.17	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	19	---
MW-7	12/11/2000	493.57	11.14	482.43	---	<50	<50	<0.5	<0.5	<0.5	<0.5	268	<10	---
MW-7	3/6/2001	493.57	15.45	478.12	---	<50	<50	<0.5	<0.5	<0.5	<0.5	150	<10	---
MW-7	10/4/2001	493.57	9.61	483.96	---	<50	<50	<0.5	<0.5	<0.5	<0.5	500	<5	---
MW-7	1/4/2002	493.57	10.62	482.95	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	3/19/2003	493.57	12.63	480.94	---	<50	98	<0.5	<0.5	<0.5	<0.5	---	---	---

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SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-7	5/2/2003	493.57	7.02	486.55	---	<50	66 [4]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	12/2/2003	493.57	10.88	482.69	---	ND	130 [9]	0.5 [10]	2.5	2.0	10.9	---	---	---
MW-7	3/16/2004	493.57	12.90	480.67	---	ND	63 [9]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	2/27/2007	493.57	7.97	485.60	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	13	---
MW-7	4/26/2007	493.57	8.41	485.16	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-7	9/27/2007	493.57	7.98	485.59	---	<50	71	<0.5	<0.5	<0.5	<1.0	---	46	---
MW-7	12/20/2007	493.57	7.89	485.68	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	17	---
MW-7	3/19/2008	493.57	8.80	484.77	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-7	5/27/2008	493.57	7.40	486.17	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-7	8/12/2008	493.57	8.36	485.21	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	12	---
MW-7	12/7/2009	493.57	6.66	486.91	---	<50	86	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-7	9/1/2010	493.57	6.60	486.97	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-8	10/11/1991	493.50	8.04	485.46	---	ND	ND	ND	ND	ND	ND	---	---	---
MW-8	5/28/1992	493.50	6.54	486.96	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-8	5/10/1993	493.50	7.02	486.48	---	<50	<50	<0.5	1.6	<0.5	<0.5	---	---	---
MW-8	8/3/1993	493.50	7.67	485.83	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	9/16/1993	493.50	7.72	485.78	---	---	---	---	---	---	---	---	---	---
MW-8	11/10/1993	493.50	9.23	484.27	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	1/21/1994	493.50	11.83	481.67	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	4/28/1994	493.50	7.66	485.84	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	8/25/1994	493.50	6.40	487.10	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	12/7/1994	493.50	9.45	484.05	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	3/24/1995	493.50	6.90	486.60	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	2/15/1996	493.50	9.71	483.79	---	650	<50	17	2.1	17	34	---	---	---
MW-8	4/18/1996	493.50	6.34	487.16	---	100	<50	13	<0.5	<0.5	<0.5	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-8	7/30/1996	493.50	7.79	485.71	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	10/8/1996	493.50	7.30	486.20	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	6/3/1997	493.50	7.08	486.42	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-8	9/4/1997	493.50	7.57	485.93	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-8	12/16/1997	493.50	8.63	484.87	---	<50	<5,000	1.9	1.4	0.9	5.2	---	---	---
MW-8	3/31/1999	493.50	6.61	486.89	---	<500	<0.5	1.8	<0.3	<0.6	<0.6	---	---	---
MW-8	6/7/1999	493.50	7.31	486.19	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-8	10/25/1999	493.50	7.99	485.51	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-8	12/27/1999	493.50	10.26	483.24	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-8	4/5/2000	493.50	9.98	483.52	---	100 [2]	<50	2.4	0.8	<0.5	<0.5	80	9.0	<100
MW-8	6/28/2000	493.50	7.65	485.85	---	<50	<50	<0.5	<0.5	<0.5	<0.5	140	<5	<100
MW-8	9/27/2000	493.50	6.45	487.05	---	53	<50	<0.5	<0.5	<0.5	<0.5	2,900	<5	---
MW-8	12/11/2000	493.50	11.04	482.46	---	<50	<50	<0.5	2.5	<0.5	<0.5	765	<10	---
MW-8	3/6/2001	493.50	11.85	481.65	---	<50	54	0.57	<0.5	<0.5	<0.5	<100	<10	---
MW-8	10/4/2001	493.50	9.50	484.00	---	<50	53	<0.5	<0.5	<0.5	<0.5	800	<5	---
MW-8	1/4/2002	493.50	10.50	483.00	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	3/18/2003	493.50	12.57	480.93	---	<50	20	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	5/1/2003	493.63	6.64	486.99	---	<50	30 [10]	<0.5	ND	<0.5	ND	---	---	---
MW-8	12/3/2003	493.63	10.91	482.72	---	ND	40 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	3/16/2004	493.63	12.58	481.05	---	<50	30 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-8	2/27/2007	493.63	8.05	485.58	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	4 [10]	---
MW-8	4/26/2007	493.63	8.46	485.17	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<5	---
MW-8	9/27/2007	493.63	8.01	485.62	---	<50	55	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-8	12/20/2007	493.63	7.90	485.73	---	<50	59	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-8	3/19/2008	493.63	8.83	484.80	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-8	5/27/2008	493.63	7.46	486.17	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-8	8/12/2008	493.63	8.40	485.23	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-8	12/7/2009	493.63	6.72	486.91	---	<50	130	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-8	9/1/2010	493.63	6.65	486.98	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	10/11/1991	495.01	9.24	485.77	---	ND	ND	ND	0.42	ND	0.41	---	---	---
MW-9	5/28/1992	495.01	8.22	486.79	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-9	5/10/1993	495.01	8.29	486.72	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	8/3/1993	495.01	8.91	486.10	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	9/16/1993	495.01	8.95	486.06	---	---	---	---	---	---	---	---	---	---
MW-9	11/10/1993	495.01	10.35	484.66	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	1/21/1994	495.01	12.96	482.05	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	4/28/1994	495.01	8.98	486.03	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	8/25/1994	495.01	8.03	486.98	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	12/7/1994	495.01	10.63	484.38	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	3/24/1995	495.01	7.89	487.12	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	2/15/1996	495.01	10.84	484.17	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	4/17/1996	495.01	8.14	486.87	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	7/30/1996	495.01	8.86	486.15	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	10/8/1996	495.01	8.70	486.31	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	6/3/1997	495.01	8.30	485.71	---	<500	<500	<0.3	0.7	<0.3	<0.6	---	---	---
MW-9	9/4/1997	495.01	8.70	486.31	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-9	12/16/1997	495.01	9.72	486.29	---	<50	<5,000	<0.5	1.6	0.82	5.3	---	---	---
MW-9	3/31/1999	495.01	8.44	485.57	---	<500	<0.5	<0.3	<0.3	<0.6	<0.6	---	---	---
MW-9	6/7/1999	495.01	8.60	486.41	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-9	10/25/1999	495.01	9.23	485.78	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-9	12/27/1999	495.01	11.38	483.63	---	<500	<400	<0.6	<1	<1	<3	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-9	4/4/2000	495.01	11.00	484.01	---	<50	<50	<0.5	<0.5	<0.5	<0.5	120	<10	<100
MW-9	6/27/2000	495.01	8.75	486.26	---	<50	<50	<0.5	<0.5	<0.5	<0.5	140	7.0	<100
MW-9	9/27/2000	495.01	8.00	487.01	---	53	<50	<0.5	<0.5	<0.5	<0.5	<30	85	---
MW-9	12/11/2000	495.01	12.15	482.86	---	<50	<50	<0.5	1.6	<0.5	<0.5	688	<10	---
MW-9	3/6/2001	495.01	12.97	482.04	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	<10	---
MW-9	10/4/2001	495.01	10.61	484.40	---	<50	<50	<0.5	<0.5	<0.5	<0.5	500	<5	---
MW-9	1/4/2002	495.01	11.56	483.45	---	<50	56 [6]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	3/19/2003	495.01	13.71	481.30	---	<50	20	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	5/2/2003	494.90	8.82	486.08	---	<50	ND	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	12/2/2003	494.90	11.81	483.09	---	ND	20 [9,10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	3/15/2004	494.90	13.38	481.52	---	<50	20 [9,10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-9	2/28/2007	494.90	9.22	485.68	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	4.6 [10]	---
MW-9	4/25/2007	494.90	9.93	484.97	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	2.2 [10]	---
MW-9	9/27/2007	494.90	9.28	485.62	---	<50	67	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	12/21/2007	494.90	9.15	485.75	---	70	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	3/19/2008	494.90	9.93	484.97	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	5/27/2008	494.90	8.66	486.24	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	8/12/2008	494.90	9.56	485.34	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	12/8/2009	494.90	7.91	486.99	---	<50	170	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-9	9/1/2010	494.90	7.77	487.13	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-10	10/11/1991	494.76	9.12	485.64	---	ND	ND	ND	ND	ND	ND	---	---	---
MW-10	5/28/1992	494.76	7.94	486.82	---	<50	<50	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-10	5/10/1993	494.76	8.16	486.60	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	8/3/1993	494.76	8.80	485.96	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	9/16/1993	494.76	8.86	485.90	---	---	---	---	---	---	---	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-10	11/10/1993	494.76	10.27	484.49	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	1/21/1994	494.76	12.85	481.91	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	4/28/1994	494.76	8.84	485.92	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	8/25/1994	494.76	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	12/7/1994	494.76	10.54	484.22	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	3/24/1995	494.76	7.87	486.89	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	2/15/1996	494.76	10.78	483.98	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	4/17/1996	494.76	7.90	486.86	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	7/30/1996	494.76	8.88	485.88	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	10/8/1996	494.76	8.59	486.17	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	6/3/1997	494.76	8.26	486.50	---	<500	<500	1.2	9.0	0.9	4.9	---	---	---
MW-10	9/4/1997	494.76	8.70	486.06	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-10	12/16/1997	494.76	9.72	485.04	---	<50	<5,000	<0.5	1.4	0.8	4.7	---	---	---
MW-10	3/31/1999	494.76	8.23	486.53	---	<500	<0.5	<0.3	<0.3	<0.6	<0.6	---	---	---
MW-10	6/7/1999	494.76	8.56	486.20	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-10	10/25/1999	494.76	9.21	485.55	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-10	12/27/1999	494.76	11.39	483.37	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-10	4/4/2000	494.76	11.05	483.71	---	<50	<50	<0.5	<0.5	<0.5	<0.5	180	11	<100
MW-10	6/27/2000	494.76	8.78	485.98	---	<50	<50	<0.5	<0.5	<0.5	<0.5	340	<5	<100
MW-10	9/27/2000	494.76	7.89	486.87	---	55	<50	<0.5	<0.5	<0.5	<0.5	<30	<5	---
MW-10	12/11/2000	494.76	12.14	482.62	---	<50	<50	<0.5	1.2	<0.5	<0.5	8,080	<10	---
MW-10	3/6/2001	494.76	12.96	481.80	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	<10	---
MW-10	10/4/2001	494.76	10.71	484.05	---	<50	52	<0.5	<0.5	<0.5	<0.5	800	<5	---
MW-10	1/4/2002	494.76	11.56	483.20	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	3/19/2003	494.76	13.67	481.09	---	<50	22	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	5/2/2003	494.67	8.49	486.18	---	<50	ND	<0.5	<0.5	<0.5	<0.5	---	---	---

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LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-10	12/2/2003	494.67	11.83	482.84	---	<50	20 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	3/15/2004	494.67	13.36	481.31	---	50 [10]	20 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-10	2/28/2007	494.67	No Access	---	---	---	---	---	---	---	---	---	---	---
MW-10	4/26/2007	494.67	No Access	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/28/2007	494.67	9.15	485.52	---	<50	97	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-10	12/21/2007	494.67	9.04	485.63	---	<50	60	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-10	3/19/2008	494.67	9.84	484.83	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-10	5/27/2008	494.67	No Access	---	---	---	---	---	---	---	---	---	---	---
MW-10	8/12/2008	494.67	9.47	485.20	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-10	12/8/2009	494.67	No Access	---	---	---	---	---	---	---	---	---	---	---
MW-10	9/1/2010	494.67	No Access	---	---	---	---	---	---	---	---	---	---	---
MW-11	10/11/1991	494.28	8.70	485.58	---	ND	ND	ND	0.49	ND	0.38	---	---	---
MW-11	5/28/1992	494.28	7.53	486.75	---	<50	<50	3.0	3.0	<0.3	<0.3	---	---	---
MW-11	5/10/1993	494.28	7.72	486.56	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	8/3/1993	494.28	8.35	485.93	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	9/16/1993	494.28	8.45	485.83	---	---	---	---	---	---	---	---	---	---
MW-11	11/10/1993	494.28	9.82	484.46	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	1/21/1994	494.28	12.38	481.90	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	4/28/1994	494.28	8.40	485.88	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	8/25/1994	494.28	7.37	486.91	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	12/7/1994	494.28	10.06	484.22	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	3/24/1995	494.28	7.31	486.97	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	2/15/1996	494.28	10.26	484.02	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	4/17/1996	494.28	7.57	486.71	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	7/30/1996	494.28	8.43	485.85	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-11	10/8/1996	494.28	8.10	486.18	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	7/3/1997	494.28	7.77	486.51	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-11	9/4/1997	494.28	8.21	486.07	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-11	12/16/1997	494.28	9.03	485.25	---	<50	<5,000	<0.5	1.9	0.87	5.6	---	---	---
MW-11	3/31/1999	494.28	7.72	486.56	---	<500	<0.5	<0.3	<0.3	<0.6	<0.6	---	---	---
MW-11	6/7/1999	494.28	8.03	486.25	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
MW-11	10/25/1999	494.28	8.66	485.62	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-11	12/27/1999	494.28	10.82	483.46	---	<500	<400	1	<1	<1	<3	---	---	---
MW-11	4/4/2000	494.28	10.47	483.81	---	<50	<50	<0.5	<0.5	<0.5	<0.5	270	9.0	<100
MW-11	6/27/2000	494.28	8.20	486.08	---	<50	70 [3]	<0.5	<0.5	<0.5	<0.5	320	9.0	<100
MW-11	9/27/2000	494.28	7.38	486.90	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	<5	---
MW-11	12/12/2000	494.28	11.55	482.73	---	<50	<50	<0.5	1.4	<0.5	<0.5	389	<10	---
MW-11	3/6/2001	494.28	12.39	481.89	---	<50	<50	<0.5	<0.5	<0.5	<0.5	210	<10	---
MW-11	10/4/2001	494.28	10.09	484.19	---	<50	<50	<0.5	<0.5	<0.5	<0.5	800	<5	---
MW-11	1/4/2002	494.28	10.98	483.30	---	<50	<50	<0.5	0.59	490	250	---	---	---
MW-11	3/18/2003	494.28	13.04	481.24	---	<50	20	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	5/1/2003	494.31	8.21	486.10	---	<50	20 [10]	<0.5	ND	<0.5	ND	---	---	---
MW-11	12/3/2003	494.31	11.49	482.82	---	ND	30 [10]	<0.5	ND	<0.5	ND	---	---	---
MW-11	3/16/2004	494.31	13.04	481.27	---	<50	20 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-11	2/27/2007	494.31	8.80	485.51	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	3.7 [10]	---
MW-11	4/26/2007	494.31	9.21	485.10	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<5	---
MW-11	9/27/2007	494.31	8.75	485.56	---	<50	63	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-11	12/20/2007	494.31	8.65	485.66	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-11	3/19/2008	494.31	9.45	484.86	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-11	5/27/2008	494.31	8.23	486.08	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-11	8/12/2008	494.31	9.15	485.16	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-11	12/8/2009	494.31	7.47	486.84	---	<50	170	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-11	9/1/2010	494.31	7.35	486.96	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-12	10/11/1991	493.72	---	---	---	16,400	9,300	9,000	1,000	920	1,300	---	---	---
MW-12	5/28/1992	493.72	---	---	---	15,000	<50	7,000	560	160	310	---	---	---
MW-12	5/10/1993	493.72	7.18	486.54	---	26,000	<50	4,900	150	600	1,600	---	---	---
MW-12	8/3/1993	493.72	7.83	485.89	---	88,000	<50	10,000	1,000	4,400	1,500	---	---	---
MW-12	9/16/1993	493.72	7.88	485.84	---	---	---	---	---	---	---	---	---	---
MW-12	11/10/1993	493.72	9.37	484.35	---	82,000	<50	7,700	1,100	1,400	3,700	---	---	---
MW-12	1/21/1994	493.72	11.96	481.76	---	21,000	<50	2,800	76	500	880	---	---	---
MW-12	4/28/1994	493.72	7.84	485.88	---	43,000	<50	4,400	370	880	2,100	---	---	---
MW-12	8/25/1994	493.72	6.61	487.11	---	7,100	<50	1,100	16	<2.0	76	---	---	---
MW-12	12/7/1994	493.72	9.61	484.11	---	69,000	<50	6,700	160	1,500	3,900	---	---	---
MW-12	3/24/1995	493.72	7.06	486.66	---	60,000	<50	4,700	230	910	2,100	---	---	---
MW-12	2/15/1996	493.72	9.85	483.87	---	10,000	<50	2,400	7.8	1,000	880	---	---	---
MW-12	4/18/1996	493.72	6.62	487.10	---	4,600	910	2,000	7.8	850	610	---	---	---
MW-12	7/31/1996	493.72	7.97	485.75	---	160,000	1,900	26,800	730	9,400	12,000	---	---	---
MW-12	10/8/1996	493.72	7.52	486.20	---	23,000	1,900	8,100	218	1,900	2,500	---	---	---
MW-12	6/3/1997	493.72	7.20	486.52	---	15,000	<500	3,300	24	1,400	940	---	---	---
MW-12	9/4/1997	493.72	7.65	486.07	---	12,000	<500	3,600	11	1,100	820	---	---	---
MW-12	12/16/1997	493.72	8.85	484.87	---	11,000	<5,000	4,800	320	990	1,200	---	---	---
MW-12	3/31/1999	493.72	7.15	486.57	---	1,500	<0.5	410	0	230	110	---	---	---
MW-12	6/7/1999	493.72	7.46	486.26	---	5,000	<1,000	1,400	3.0	730	590	---	---	---
MW-12	10/26/1999	493.72	8.13	485.59	---	10,000	<400	3,000	4.0	800	950	---	---	---
MW-12	12/27/1999	493.72	10.38	483.34	---	7,100	<400	1,600	<1	520	510	---	---	---
MW-12	4/5/2000	493.72	10.05	483.67	---	2,800 [2]	300 [4]	693	1.2	231	104	260	11	<100

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-12	6/28/2000	493.72	7.75	485.97	---	2,400	1,400 [4]	110	<0.5	120	92	410	<5	<100
MW-12	9/27/2000	493.72	6.62	487.10	---	5,600	670	1,300	1.3	470	87.3	2,700	<5	---
MW-12	12/12/2000	493.72	12.12	481.60	---	2,700	<50	400	<5.0	210	8.7	1,690	<10	---
MW-12	3/6/2001	493.72	12.20	481.52	---	310	73	36	<0.5	3.9	0.57	470	<10	---
MW-12	10/4/2001	493.72	9.60	484.12	---	4,600	1,300	960	1.1	470	8.8	900	<5	---
MW-12	1/4/2002	493.72	10.61	483.11	---	340	340 [6]	38	<0.5	<0.5	39	---	---	---
MW-12	3/19/2003	493.72	12.65	481.07	---	140	67	<0.5	<0.5	<0.5	0.4	---	---	---
MW-12	5/2/2003	493.80	7.62	486.18	---	140	110 [4,8]	4.1	0.2 [10]	14	<0.5	---	---	---
MW-12	12/2/2003	493.80	11.05	482.75	---	ND	140 [9]	2	<0.5	86	<0.5	---	---	---
MW-12	3/15/2004	493.80	12.72	481.08	---	ND	20 [10]	<0.5	<0.5	1.5	<0.5	---	---	---
MW-12	2/28/2007	493.80	8.06	485.74	---	160	220	0.41 [10]	<0.5	18	<0.5	---	4.8 [10]	---
MW-12	4/25/2007	493.80	8.66	485.14	---	170	74	2.4	<0.5	18	<0.5	---	<5	---
MW-12	9/28/2007	493.80	8.25	485.57	---	1,700	1,100	24	0.92	250	2.68	---	<5	---
MW-12	12/21/2007	493.80	8.14	485.66	---	410	280	<0.5	<0.5	31	<1.0	---	<5	---
MW-12	3/20/2008	493.80	9.02	484.78	---	63	260	<0.5	<0.5	19	<1.0	---	<5	---
MW-12	5/28/2008	493.80	7.69	486.11	---	490	3,800	7.0	<0.5	36	<1.0	---	<5	---
MW-12	8/12/2008	493.80	8.60	485.20	---	1,300	<50	32.0	<0.5	82	1.1	---	<5	---
MW-12	12/8/2009	493.80	6.93	486.87	---	1,200	920	<0.5	0.56	59	<1.0	---	<5	---
MW-12	9/1/2010	493.80	6.83	486.97	---	1,500	1,000	33	0.66	82	1.56	---	<5	---
MW-13	10/11/1991	494.41	---	---	---	70,000	89,000	11,000	27,000	2,200	14,000	---	---	---
MW-13	5/28/1992	494.41	---	---	---	190,000	<50	14,000	30,000	900	10,000	---	---	---
MW-13	5/10/1993	494.41	7.80	486.61	---	280,000	<50	18,000	34,000	3,700	22,000	---	---	---
MW-13	8/3/1993	494.41	8.45	485.96	SHEEN	---	---	---	---	---	---	---	---	---
MW-13	9/16/1993	494.41	8.51	485.90	SHEEN	---	---	---	---	---	---	---	---	---
MW-13	11/10/1993	494.41	10.01	484.40	SHEEN	---	---	---	---	---	---	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-13	1/21/1994	494.41	12.66	481.75	SHEEN	7,600,000	92,000	14,000	49,000	27,000	200,000	---	---	---
MW-13	4/28/1994	494.41	8.46	485.95	SHEEN	380,000	14,000	11,000	25,000	1,400	20,000	---	---	---
MW-13	8/25/1994	494.41	7.22	487.19	SHEEN	400,000	4,200	12,000	27,000	1,800	21,000	---	---	---
MW-13	12/7/1994	494.41	10.22	484.19	---	410,000	3,100	9,300	26,000	1,700	20,000	---	---	---
MW-13	3/24/1995	494.41	7.80	486.61	---	480,000	2,400	10,000	22,000	4,300	25,000	---	---	---
MW-13	2/15/1996	494.41	10.48	483.93	---	130,000	<50 [1]	8,400	35,000	2,700	18,000	---	---	---
MW-13	4/18/1996	494.41	7.15	487.26	---	130,000	15,000	9,200	30,700	3,300	19,900	---	---	---
MW-13	7/31/1996	494.41	8.11	486.30	---	490,000	3,900	31,600	133,000	16,100	85,300	---	---	---
MW-13	10/8/1996	494.41	8.16	486.25	---	120,000	1,500	7,600	33,800	4,200	24,100	---	---	---
MW-13	6/3/1997	494.41	7.73	486.68	---	120,000	<500	4,600	24,000	3,300	20,000	---	---	---
MW-13	9/4/1997	494.41	8.20	486.21	---	93,000	<500	3,900	21,000	2,900	16,000	---	---	---
MW-13	12/16/1997	494.41	9.43	484.98	---	59,000	<5,000	2,900	18,000	2,300	13,000	---	---	---
MW-13	3/31/1999	494.41	7.42	486.99	---	71,000	<0.5	2,000	23,000	2,000	17,000	---	---	---
MW-13	6/7/1999	494.41	7.98	486.43	---	79,000	<1,000	2,000	29,000	3,200	21,000	---	---	---
MW-13	10/26/1999	494.41	8.76	485.65	---	100,000	<400	1,200	21,000	2,700	17,000	---	---	---
MW-13	12/27/1999	494.41	10.96	483.45	---	90,000	<400	900	17,000	2,700	17,000	---	---	---
MW-13	4/5/2000	494.41	10.69	483.72	---	135,000 [2]	11,000 [4]	1,610	27,100	3,100	23,960	370	12	<100
MW-13	6/28/2000	494.41	8.37	486.04	---	170,000	3,500 [4]	1,100	21,000	3,100	19,300	530	<5	<100
MW-13	9/27/2000	494.41	7.22	487.19	---	96,000	3,200	780	17,000	2,800	16,900	1,400	7.0	---
MW-13	12/12/2000	494.41	11.73	482.68	---	180,000	5,000	710	13,000	3,400	32,000	855	<10	---
MW-13	3/7/2001	494.41	12.60	481.81	SHEEN	1,700,000	150,000	<500	16,000	7,500	94,000	2,000	<10	---
MW-13	10/4/2001	494.41	10.18	484.23	---	91,000	57,000	350	11,000	2,200	15,800	900	<5	---
MW-13	1/4/2002	494.41	11.26	483.15	SHEEN	---	---	---	---	---	---	---	---	---
MW-13	3/19/2003	494.41	13.32	481.09	---	16,000	7,700	62	1,200	550	3,620	---	---	---
MW-13	5/2/2003	494.06	7.46	486.60	SHEEN	46,000	8,600 [8]	1,300 [8]	11,000 [8]	7,100	19,000	---	---	---
MW-13	12/2/2003	494.06	11.25	482.81	---	19,000	3,800 [9]	150	1,700	1,600	6,500	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-13	3/16/2004	494.06	12.94	481.12	---	6,700	2,600 [9]	45	140	320	1,120	---	---	---
MW-13	2/28/2007	494.06	8.49	485.57	---	18,000	75	84	830	1,200	2,980	---	7.2	---
MW-13	4/25/2007	494.06	8.89	485.17	---	14,000	4,000	85	1,100	1,200	2,980	---	3.5 [10]	---
MW-13	9/28/2007	494.06	8.45	485.61	---	22,000	3,700	140	1,500	2,700	4,900	---	<5	---
MW-13	12/21/2007	494.06	8.41	485.65	---	46,000	2,900	130	1,400	2,700	5,300	---	<5	---
MW-13	3/20/2008	494.06	9.29	484.77	---	3,100	3,800	96	620	1,700	3,650	---	<5	---
MW-13	5/28/2008	494.06	7.89	486.17	---	30,000	4,600	80	720	1,600	2,940	---	<5	---
MW-13	8/12/2008	494.06	8.80	485.26	---	45,000	100	130	1,800	3,900	8,500	---	<5	---
MW-13	12/8/2009	494.06	7.17	486.89	---	23,000	2,300	98	570	3,400	3,950	---	<5	---
MW-13	9/1/2010	494.06	7.10	486.96	---	21,000	2,100	110	360	3,400	2,660	---	<5	---
MW-14	10/11/1991	491.96	6.48	485.48	---	ND	ND	0.37	0.51	ND	0.51	---	---	---
MW-14	5/28/1992	491.96	4.86	487.10	---	<50	80	<0.3	<0.3	<0.3	<0.3	---	---	---
MW-14	5/10/1993	491.96	5.43	486.53	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	8/3/1993	491.96	6.11	485.85	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	9/16/1993	491.96	6.15	485.81	---	---	---	---	---	---	---	---	---	---
MW-14	11/10/1993	491.96	7.73	484.23	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	1/21/1994	491.96	10.40	481.56	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	4/28/1994	491.96	6.21	485.75	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	8/25/1994	491.96	4.65	487.31	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	12/7/1994	491.96	8.11	483.85	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	3/24/1995	491.96	5.71	486.25	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	2/15/1996	491.96	8.39	483.57	---	<50	<50	0.9	<0.5	2.1	4.0	---	---	---
MW-14	4/18/1996	491.96	4.66	487.30	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	7/31/1996	491.96	6.29	485.67	---	<50	<50	1.3	2.9	0.5	0.8	---	---	---
MW-14	10/8/1996	491.96	5.80	486.16	---	<50	<50	<0.5	<0.5	<0.5	0.7	---	---	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-14	6/3/1997	491.96	5.89	486.07	---	<500	<500	<0.3	<0.3	<0.3	<0.6	---	---	---
MW-14	9/4/1997	491.96	5.98	485.98	---	<500	<500	0.3	0.9	<0.3	0.7	---	---	---
MW-14	12/16/1997	491.96	---	---	---	---	---	---	---	---	---	---	---	---
MW-14	3/31/1999	491.96	5.10	486.86	---	<500	<0.5	<0.3	<0.6	<0.6	<0.6	---	---	---
MW-14	6/7/1999	491.96	5.85	486.11	---	<500	<1,000	<0.6	<0.6	<0.6	<1.23	---	---	---
MW-14	10/25/1999	491.96	6.57	485.39	---	<500	<400	<0.6	<1	<1	<3	---	---	---
MW-14	12/27/1999	491.96	8.89	483.07	---	<500	<770	<0.6	<1	<1	<3	---	---	---
MW-14	4/5/1999	491.96	8.75	483.21	---	100 [2]	80 [3]	0.6	0.5	<0.5	<0.5	90	7.0	<100
MW-14	6/27/2000	491.96	6.42	485.54	---	<50	<50	7.2	<0.5	<0.5	<0.5	170	<5	<100
MW-14	9/27/2000	491.96	4.95	487.01	---	52	<50	<0.5	<0.5	<0.5	<0.5	3,200	<5	---
MW-14	12/12/2000	491.96	9.80	482.16	---	<50	<50	<0.5	<0.5	<0.5	<0.5	351	<10	---
MW-14	3/6/2001	491.96	10.62	481.34	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	<10	---
MW-14	10/4/2001	491.96	8.24	483.72	---	<50	74	<0.5	<0.5	<0.5	0.52	600	<5	---
MW-14	1/4/2002	491.96	9.34	482.62	---	<50	<50	<0.5	<0.5	<0.5	1.0	---	---	---
MW-14	3/18/2003	491.96	11.32	480.64	---	<50	30	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	5/1/2003	492.22	5.20	487.02	---	<50	10 [10]	<0.5	ND	<0.5	<0.5	---	---	---
MW-14	12/3/2003	492.22	9.59	482.63	---	ND	40 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	3/16/2004	492.22	11.31	480.91	---	<50	20 [10]	<0.5	<0.5	<0.5	<0.5	---	---	---
MW-14	2/27/2007	492.22	6.68	485.54	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	14	---
MW-14	4/26/2007	492.22	7.20	485.02	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	3.6 [10]	---
MW-14	9/26/2007	492.22	6.70	485.52	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	11	---
MW-14	12/20/2007	492.22	6.44	485.78	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-14	3/18/2008	492.22	7.34	484.88	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-14	5/27/2008	492.22	No Access	---	---	---	---	---	---	---	---	---	---	---
MW-14	8/12/2008	492.22	6.89	485.33	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
MW-14	12/7/2009	492.22	5.19	487.03	---	<50	170	<0.5	<0.5	<0.5	<1.0	---	<5	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)
MW-14	9/1/2010	492.22	5.10	487.12	---	<50	150	<0.5	<0.5	<0.5	<1.0	---	<5	---
DW-1	6/8/1999	---	---	---	---	<500	<1,000	<0.6	<0.6	<0.6	<1.2	---	---	---
DW-1	4/4/2000	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	90	11	<100
DW-1	6/27/2000	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	350	<5	<100
DW-1	9/27/2000	---	---	---	---	<50	<50	0.96	<0.5	0.86	<0.5	540	6.0	---
DW-1	12/11/2000	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	<10	---
DW-1	3/6/2001	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	<10	---
DW-1	11/9/2001	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	700	<5	---
DW-1	1/4/2002	---	---	---	---	<50	<50	<0.5	<0.5	0.86	<0.5	---	---	---
DW-1	3/18/2003	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
DW-1	5/1/2003	---	---	---	---	<50	<54	<0.5	ND	<0.5	<0.5	---	---	---
DW-1	12/2/2003	---	---	---	---	ND	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
DW-1	3/15/2004	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
DW-1	2/27/2007	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	4.5 [10]	---
DW-1	4/25/2007	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
DW-1	9/27/2007	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<10	---
DW-1	12/20/2007	---	---	---	---	<50	71	<0.5	<0.5	<0.5	<1.0	---	<5	---
DW-1	3/18/2008	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
DW-1	5/27/2008	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
DW-1	8/12/2008	---	---	---	---	79	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
DW-1	12/8/2009	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---
DW-1	9/1/2010	---	---	---	---	<50	<50	<0.5	<0.5	<0.5	<1.0	---	<5	---

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (MSL)	DEPTH TO GROUNDWATER (feet)	GROUNDWATER ELEVATION (MSL)	PRODUCT THICKNESS (feet)	TPHg (µg/l)	TPHd (µg/l)	B (µg/l)	T (µg/l)	E (µg/l)	X (µg/l)	TKN (µg/l)	TOTAL LEAD (µg/l)	ORGANIC LEAD (µg/l)

Notes:
TOC = Top of casing elevation surveyed to an established benchmark
TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
BTEX = Benzene, toluene, ethylbenzene and total xylenes
TKN = Total Kjeldahl Nitrogen
--- = Not measured/tested
ND, < = Less than laboratory reporting limit
µg/l = Micrograms per liter
* Duplicate result reported, liter broken in transport for sample MW-3

1 = Laboratory report notation “Diesel appears to be masked by high concentrations of gasoline.”
2 = Laboratory report notation “Sample contains hydrocarbons that do not match the gasoline pattern. However, quantitation is based on a gasoline standard.”
3 = Laboratory report notation “Sample contains hydrocarbons that are heavier than diesel. However, quantitation is based on diesel standard.”
4 = Laboratory report notation “Sample contains hydrocarbons that fall within the diesel range, but does not match diesel pattern.”
5 = Laboratory report notation “Sample contains hydrocarbons that are lighter than diesel. However, quantitation is based on diesel standard.”
6 = Laboratory report notation "Diesel chromatogram pattern was not typical."
7 = No MCL, action level requires treatment and public notification at 15 micrograms per liter
8 = Estimated result
9 = Tentatively identified sample result
10 = Results that are between the Practical Quantitation Limit (PQL) and the calculated Minimum Detection Limit (MDL).

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-1	10/08/96	58/---	---	---	---	---
MW-1	06/03/97	*/---	---	---	---	---
MW-1	09/04/97	120/---	---	---	---	---
MW-1	12/16/97	<25/---	---	---	---	---
MW-1	03/31/99	1/---	---	---	---	---
MW-1	06/07/99	<5/---	---	---	---	---
MW-1	10/26/99	6/---	---	---	---	---
MW-1	12/27/99	<1/---	---	---	---	---
MW-1	04/05/00	11/<5	17/<5	69/<5	282/<5	9,640/<100
MW-1	06/28/00	<50/---	<50/---	<50/---	<50/---	<1,000/---
MW-1	09/27/00	8.6/<5	---	---	---	---
MW-1	12/12/00	21/<2.0	---	---	---	---
MW-1	03/07/01	5.3/<2.0	---	---	---	---
MW-1	10/04/01	7.0/<250	---	---	---	---
MW-1	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-1	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-1	12/03/03	---/<0.5	---	---	---	---
MW-1	03/16/04	---/<0.5	---	---	---	---
MW-1	02/27/07	---/<25	---/<25	---/<25	---/<25	---
MW-1	04/26/07	---/<25	---/<25	---/<25	---/<25	---
MW-1	09/28/07	---/<25	---/<25	---/<25	---/<25	---/<500
MW-1	12/21/07	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-1	03/20/08	---/<2.5	---/<2.5	---/<2.5	---/<2.5	---/<50
MW-1	05/28/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-1	08/12/08	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-1	12/08/09	---/<10	---/<10	---/<10	---/<10	---/<200
MW-1	9/1/2010	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-2	06/07/99	<5/---	---	---	---	---
MW-2	10/26/99	<150/---	---	---	---	---
MW-2	12/27/99	10/---	---	---	---	---
MW-2	04/05/00	27/<100	66/<100	103/<100	1,020/<100	51,300/<2,000
MW-2	06/28/00	<50/---	<50/---	<50/---	<50/---	<1,000/---
MW-2	09/27/00	20/<5	---	---	---	---
MW-2	12/12/00	<25/---	---	---	---	---
MW-2	03/07/01	10/<2.0	---	---	---	---
MW-2	10/04/01	27/<500	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-2	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-2	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-2	12/03/03	---/<0.5	---	---	---	---
MW-2	03/16/04	---/<0.5	---	---	---	---
MW-2	02/27/07	---/<25	---/<25	---/<25	---/<25	---
MW-2	04/26/07	---/<25	---/<25	---/<25	---/<25	---
MW-2	09/28/07	Unable to access	---	---	---	---
MW-2	03/20/08	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-2	05/28/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-2	08/12/08	---/<10	---/<10	---/<10	---/<10	---/<200
MW-2	12/08/09	---/<10	---/<10	---/<10	---/<10	---/<200
MW-2	9/1/2010	---/<10	---/<10	---/<10	---/<10	---/<200
MW-3	10/08/96	65/---	---	---	---	---
MW-3	06/03/97	53/---	---	---	---	---
MW-3	09/04/97	160/---	---	---	---	---
MW-3	12/16/97	<50/---	---	---	---	---
MW-3	03/31/99	33/---	---	---	---	---
MW-3	06/07/99	12/---	---	---	---	---
MW-3	10/25/99	---/20	---	---	---	---
MW-3	12/27/99	---/9.3	---	---	---	---
MW-3	04/05/00	3.5/<5	<5/<5	<5/<5	12/<5	541/<100
MW-3	06/28/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-3	09/27/00	16/19	---	---	---	---
MW-3	12/12/00	3.5/---	---	---	---	---
MW-3	03/06/01	<0.5/---	---	---	---	---
MW-3	10/04/01	14/17	---	---	---	---
MW-3	03/19/03	---/2.2	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-3	05/02/03	---/8.8	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-3	12/03/03	---/9.8	---	---	---	---
MW-3	03/15/04	---/9.8	---	---	---	---
MW-3	02/28/07	---/2.9	---/<0.5	---/<0.5	---/<0.5	---
MW-3	04/25/07	---/0.97	---/<0.5	---/<0.5	---/<0.5	---
MW-3	09/28/07	---/4.4	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-3	12/21/07	---/4.3	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-3	03/20/08	---/1.9	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-3	05/28/08	---/6.8	---/<0.5	---/<0.5	---/<0.5	---/<10

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-3	08/12/08	---/3.2	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-3	12/08/09	---/5.7	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-3	9/1/2010	---/13	---/<0.5	---/<0.5	---/<0.5	---/17
MW-4	10/08/96	9.2/---	---	---	---	---
MW-4	06/03/97	<0.6/---	---	---	---	---
MW-4	09/04/97	4.2/---	---	---	---	---
MW-4	12/16/97	<10/---	---	---	---	---
MW-4	03/31/99	5.2/---	---	---	---	---
MW-4	06/07/99	<5/---	---	---	---	---
MW-4	10/26/99	<3/---	---	---	---	---
MW-4	12/27/99	<1/---	---	---	---	---
MW-4	04/05/00	3.8/<5	<5/<5	62/<5	255/<5	8,950/<100
MW-4	06/28/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-4	09/27/00	<0.5/---	---	---	---	---
MW-4	12/12/00	20/<2.0	---	---	---	---
MW-4	03/07/01	<0.5/---	---	---	---	---
MW-4	10/04/01	<0.5/---	---	---	---	---
MW-4	03/18/03	---/<0.5	---/<2	---/<2	---/<2	---/<10
MW-4	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-4	12/03/03	---/<0.5	---	---	---	---
MW-4	03/16/04	---/<0.5	---	---	---	---
MW-4	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-4	04/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-4	09/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-4	12/19/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-4	03/18/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-4	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-4	08/12/08	---/<50	---/<50	---/<50	---/<50	---/<1,000
MW-4	12/07/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-4	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	10/08/96	1.8/---	---	---	---	---
MW-5	06/03/97	<0.6/---	---	---	---	---
MW-5	09/04/97	<0.6/---	---	---	---	---
MW-5	12/16/97	<5/---	---	---	---	---
MW-5	03/31/99	<0.6/---	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-5	06/07/99	<5/---	---	---	---	---
MW-5	10/25/99	<1/---	---	---	---	---
MW-5	12/27/99	<1/---	---	---	---	---
MW-5	04/05/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
MW-5	06/27/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-5	09/27/00	<0.5/---	---	---	---	---
MW-5	12/11/00	<0.5/---	---	---	---	---
MW-5	03/06/01	<0.5/---	---	---	---	---
MW-5	10/04/01	<0.5/---	---	---	---	---
MW-5	03/18/03	---/<1	---/<2	---/<2	---/<2	---/<10
MW-5	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-5	12/03/03	---/<0.5	---	---	---	---
MW-5	03/16/04	---/<0.5	---	---	---	---
MW-5	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-5	04/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-5	09/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	12/19/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	03/18/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	12/08/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-5	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	05/28/92	---	---	---	---	---
MW-6	05/10/93	---	---	---	---	---
MW-6	10/08/96	2.1/---	---	---	---	---
MW-6	06/03/97	<0.6/---	---	---	---	---
MW-6	09/04/97	<0.6/---	---	---	---	---
MW-6	12/16/97	<5/---	---	---	---	---
MW-6	03/31/99	<0.6/---	---	---	---	---
MW-6	06/07/99	<5/---	---	---	---	---
MW-6	10/25/99	<1/---	---	---	---	---
MW-6	12/27/99	<1/---	---	---	---	---
MW-6	04/04/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
MW-6	06/28/00	<5.0/---	<5/---	<5/---	<5/---	<100/---
MW-6	09/27/00	<0.5/---	---	---	---	---
MW-6	12/11/00	<0.5/---	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-6	03/06/01	<0.5/---	---	---	---	---
MW-6	10/04/01	<0.5/---	---	---	---	---
MW-6	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-6	05/02/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-6	12/02/03	---/<0.5	---	---	---	---
MW-6	03/15/04	---/<0.5	---	---	---	---
MW-6	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-6	04/25/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-6	09/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	12/20/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	03/19/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	12/08/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-6	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-7	10/08/96	<0.5/---	---	---	---	---
MW-7	06/03/97	<0.6/---	---	---	---	---
MW-7	12/16/97	<5/---	---	---	---	---
MW-7	03/31/99	<0.6/---	---	---	---	---
MW-7	06/07/99	<5/---	---	---	---	---
MW-7	10/25/99	---/23	---	---	---	---
MW-7	12/27/99	---/2.6	---	---	---	---
MW-7	04/05/00	<0.5/---	<5/---	<5/---	<100/---	<5/---
MW-7	06/28/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-7	09/27/00	<0.5/---	---	---	---	---
MW-7	12/11/00	<0.5/---	---	---	---	---
MW-7	03/06/01	<0.5/---	---	---	---	---
MW-7	10/04/01	<0.5/---	---	---	---	---
MW-7	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-7	05/02/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-7	12/02/03	---/2.3	---	---	---	---
MW-7	03/16/04	---/<0.5	---	---	---	---
MW-7	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-7	04/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-7	09/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-7	12/20/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-7	03/19/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-7	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-7	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-7	12/07/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-7	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	10/08/96	1.1/---	---	---	---	---
MW-8	06/03/97	<0.6/---	---	---	---	---
MW-8	09/04/97	0.8/---	---	---	---	---
MW-8	12/16/97	<5/---	---	---	---	---
MW-8	03/31/99	6.3/---	---	---	---	---
MW-8	06/07/99	<5/---	---	---	---	---
MW-8	10/25/99	<1/---	---	---	---	---
MW-8	12/27/99	---/2.6	---	---	---	---
MW-8	04/05/00	2.3/---	<5/---	<5/---	<5/---	<100/---
MW-8	06/28/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-8	09/27/00	0.81/---	---	---	---	---
MW-8	12/11/00	4.7/---	---	---	---	---
MW-8	03/06/01	3.1/3.3	---	---	---	---
MW-8	10/04/01	<0.5/---	---	---	---	---
MW-8	03/19/03	---/<1	---/<2	---/<2	---/<2	---/<10
MW-8	05/02/03	---/<0.3 [1]	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-8	12/02/03	---/1.0	---	---	---	---
MW-8	03/16/04	---/<0.5	---	---	---	---
MW-8	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-8	04/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-8	09/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	12/20/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	03/19/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	12/07/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-8	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	10/08/96	<0.5/---	---	---	---	---
MW-9	06/03/97	<0.6/---	---	---	---	---
MW-9	09/04/97	<0.6/---	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-9	12/16/97	<5/---	---	---	---	---
MW-9	03/31/99	<0.6/---	---	---	---	---
MW-9	06/07/99	<5/---	---	---	---	---
MW-9	10/25/99	<1/---	---	---	---	---
MW-9	12/27/99	<1/---	---	---	---	---
MW-9	04/04/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
MW-9	06/27/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-9	09/27/00	<0.5/---	---	---	---	---
MW-9	12/11/00	<0.5/---	---	---	---	---
MW-9	03/06/01	<0.5/---	---	---	---	---
MW-9	10/04/01	<0.5/---	---	---	---	---
MW-9	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<0.5
MW-9	05/02/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-9	12/02/03	---/<0.5	---	---	---	---
MW-9	03/15/04	---/<0.5	---	---	---	---
MW-9	02/28/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-9	04/25/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-9	09/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	12/21/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	03/19/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	12/08/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-9	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-10	10/08/96	<0.5/---	---	---	---	---
MW-10	06/03/97	<0.6/---	---	---	---	---
MW-10	09/04/97	<0.6/---	---	---	---	---
MW-10	12/16/97	<5/---	---	---	---	---
MW-10	03/31/99	<0.6/---	---	---	---	---
MW-10	06/07/99	<5/---	---	---	---	---
MW-10	10/25/99	<1/---	---	---	---	---
MW-10	12/27/99	<1/---	---	---	---	---
MW-10	04/04/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
MW-10	06/27/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-10	09/27/00	<0.5/---	---	---	---	---
MW-10	12/11/00	<0.5/---	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-10	03/06/01	<0.5/---	---	---	---	---
MW-10	10/04/01	<0.5/---	---	---	---	---
MW-10	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<0.5
MW-10	05/02/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-10	12/02/03	---/<0.5	---	---	---	---
MW-10	03/15/04	---/<0.5	---	---	---	---
MW-10	02/28/07	---	---	---	---	---
MW-10	04/25/07	---	---	---	---	---
MW-10	09/28/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-10	12/21/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-10	03/19/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-10	05/27/08	---	---	---	---	---
MW-10	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-10	12/08/09	---	---	---	---	---
MW-10	9/1/2010	---	---	---	---	---
MW-11	10/08/96	0.5/---	---	---	---	---
MW-11	07/03/97	<0.6/---	---	---	---	---
MW-11	09/04/97	<0.6/---	---	---	---	---
MW-11	12/16/97	<5/---	---	---	---	---
MW-11	03/31/99	<0.6/---	---	---	---	---
MW-11	06/07/99	<5/---	---	---	---	---
MW-11	10/25/99	<1/---	---	---	---	---
MW-11	12/27/99	<1/---	---	---	---	---
MW-11	04/04/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
MW-11	06/27/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-11	09/27/00	<0.5/---	---	---	---	---
MW-11	12/12/00	<0.5/---	---	---	---	---
MW-11	03/06/01	<0.5/---	---	---	---	---
MW-11	10/04/01	<0.5/---	---	---	---	---
MW-11	03/18/03	---/<1	---/<2	---/<2	---/<2	---/10
MW-11	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-11	12/03/03	---/<0.5	---	---	---	---
MW-11	03/16/04	---/<0.5	---	---	---	---
MW-11	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-11	04/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-11	09/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-11	12/20/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-11	03/19/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-11	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-11	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-11	12/08/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-11	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-12	10/08/96	76/---	---	---	---	---
MW-12	06/03/97	44/---	---	---	---	---
MW-12	09/04/97	52/---	---	---	---	---
MW-12	12/16/97	<5/---	---	---	---	---
MW-12	03/31/99	9/---	---	---	---	---
MW-12	06/07/99	14/---	---	---	---	---
MW-12	10/26/99	18/---	---	---	---	---
MW-12	12/27/99	---/16	---	---	---	---
MW-12	04/05/00	20/<5	<5/<5	<5/<5	33/<5	2,030/<100
MW-12	06/28/00	33/<5	<5/---	<5/---	<5/---	<100/---
MW-12	09/27/00	14/16	---	---	---	---
MW-12	12/12/00	27/12	---	---	---	---
MW-12	03/06/01	2.9/2.3	---	---	---	---
MW-12	10/04/01	11/<50	---	---	---	---
MW-12	03/19/03	---/0.97	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-12	05/02/03	---/7.7	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-12	12/02/03	---/4.6	---	---	---	---
MW-12	03/15/04	---/<0.5	---	---	---	---
MW-12	02/28/07	---/2.6	---/<0.5	---/<0.5	---/<0.5	---
MW-12	04/25/07	---/3.4	---/<0.5	---/<0.5	---/<0.5	---
MW-12	09/28/07	---/16	---/<0.5	---/<0.5	---/<0.5	---/20
MW-12	12/21/07	---/7.4	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-12	03/20/08	---/5.3	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-12	05/28/08	---/11	---/<0.5	---/<0.5	---/<0.5	---/23
MW-12	08/12/08	---/10	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-12	12/08/09	---/6.2	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-12	9/1/2010	---/13	---/<0.5	---/<0.5	---/<0.5	---/36
MW-13	10/08/96	99/---	---	---	---	---
MW-13	06/03/97	<0.6/---	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-13	09/04/97	150/---	---	---	---	---
MW-13	12/16/97	<5/---	---	---	---	---
MW-13	03/31/99	1.6/---	---	---	---	---
MW-13	06/07/99	<5/---	---	---	---	---
MW-13	10/26/99	<150/---	---	---	---	---
MW-13	12/27/99	13/---	---	---	---	---
MW-13	04/05/00	22/<100	37/<100	181/<100	911/<100	52,200/<2,000
MW-13	06/28/00	<50/---	<50/---	<50/---	<50/---	<1,000/---
MW-13	09/27/00	9.0/<5	---	---	---	---
MW-13	12/12/00	<100/---	---	---	---	---
MW-13	03/07/01	<500/---	---	---	---	---
MW-13	10/04/01	11/<500	---	---	---	---
MW-13	03/19/03	---/<0.5	---/<0.5	---/<0.5	---/<10	---/<0.5
MW-13	05/02/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-13	12/02/03	---/<0.5	---	---	---	---
MW-13	03/16/04	---/<0.5	---	---	---	---
MW-13	02/28/07	---/<10	---/<10	---/<10	---/<10	---
MW-13	04/25/07	---/<10	---/<10	---/<10	---/<10	---
MW-13	09/28/07	---/<25	---/<25	---/<25	---/<25	---/<500
MW-13	12/21/07	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-13	03/20/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-13	05/28/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-13	08/12/08	---/<1.0	---/<1.0	---/<1.0	---/<1.0	---/<20
MW-13	12/08/09	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-13	9/1/2010	---/<5.0	---/<5.0	---/<5.0	---/<5.0	---/<100
MW-14	10/08/96	<0.5/---				
MW-14	06/03/97	<0.6/---	---	---	---	---
MW-14	09/04/97	4.5/---	---	---	---	---
MW-14	03/31/99	<0.6/---	---	---	---	---
MW-14	06/07/99	<5/---	---	---	---	---
MW-14	10/25/99	<1/---	---	---	---	---
MW-14	12/27/99	<1/---	---	---	---	---
MW-14	04/05/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
MW-14	06/27/00	<5/---	<5/---	<5/---	<5/---	<100/---
MW-14	09/27/00	<0.5/---	---	---	---	---
MW-14	12/12/00	<0.5---	---	---	---	---

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)
MW-14	03/06/01	<0.5/---	---	---	---	---
MW-14	10/04/01	<0.5/---	---	---	---	---
MW-14	03/18/03	---/<1	---/<2	---/<2	---/<2	---/<10
MW-14	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
MW-14	12/03/03	---/<0.5	---	---	---	---
MW-14	03/16/04	---/<0.5	---	---	---	---
MW-14	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-14	04/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
MW-14	09/26/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-14	12/20/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-14	03/18/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-14	05/27/08	---	---	---	---	---
MW-14	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-14	12/07/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
MW-14	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	06/08/99	<5/---	---	---	---	---
DW-1	04/04/00	<0.5/---	<5/---	<5/---	<5/---	<100/---
DW-1	06/27/00	<5/---	<5/---	<5/---	<5/---	<100/---
DW-1	09/27/00	<0.5/---	---	---	---	---
DW-1	12/11/00	<0.5/---	---	---	---	---
DW-1	03/06/01	<0.5/---	---	---	---	---
DW-1	10/04/01	<0.5/---	---	---	---	---
DW-1	03/18/03	---/<1	---/<2	---/<2	---/<2	---/<10
DW-1	05/01/03	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<20
DW-1	12/02/03	---/<0.5	---	---	---	---
DW-1	03/15/04	---/<0.5	---	---	---	---
DW-1	02/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
DW-1	04/25/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---
DW-1	09/27/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	12/20/07	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	03/18/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	05/27/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	08/12/08	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	12/08/09	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10
DW-1	9/1/2010	---/<0.5	---/<0.5	---/<0.5	---/<0.5	---/<10

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - FUEL OXYGENATE COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	MTBE 8020/8260 (µg/l)	DIPE 8020/8260 (µg/l)	TAME 8020/8260 (µg/l)	ETBE 8020/8260 (µg/l)	TBA 8020/8260 (µg/l)

Notes:

MTBE = Methyl-tert butyl ether
DIPE = Di-isopropyl ether
TAME = Tert-amyl methyl ether
ETBE = Ether-tert butyl ether
TBA = Tert-butanol

* = MTBE is masked by other constituents in sample
µg/l = Micrograms per liter
--- = Not tested
< = Less than laboratory reporting limit

1 = Result is between the Practical Quantitation Limit (PQL) and the calculated Minimum Detection Limit (MDL).

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	CHLOROFORM (µg/l)	1,2-DCA (µg/l)	PCE (µg/l)	EDB (µg/l)
MW-1	5/28/1992	<1.0	<1.0	---	---
MW-1	4/5/2000	---	<5	<5	<5
MW-1	6/28/2000	---	<5	<5	<5
MW-2	5/28/1992	<1.0	<1.0	---	---
MW-2	4/5/2000	---	<100	<100	<100
MW-2	6/28/2000	---	<5	<5	<5
MW-3	5/28/1992	<1.0	<1.0	---	---
MW-3	5/10/1993	<1.0	<1.0	---	---
MW-3	4/5/2000	---	<5	<5	<5
MW-3	6/28/2000	---	<5	<5	<5
MW-4	5/28/1992	<1.0	<1.0	---	---
MW-4	5/10/1993	<1.0	<1.0	---	---
MW-4	4/5/2000	---	<5	<5	<5
MW-4	6/28/2000	---	<5	<5	<5
MW-5	5/28/1992	<1.0	1	---	---
MW-5	5/10/1993	<1.0	12	---	---
MW-5	8/3/1993	<1.0	<1.0	---	---
MW-5	11/10/1993	<0.5	<0.3	---	---
MW-5	1/21/1994	<0.5	<0.3	---	---
MW-5	4/28/1994	<0.5	<0.3	---	---
MW-5	12/7/1994	<0.5	---	---	---
MW-5	4/5/2000	---	<5	<5	<5
MW-5	6/27/2000	---	<5	<5	<5
MW-6	5/28/1992	<1.0	<1.0	---	---
MW-6	5/10/1993	<1.0	<1.0	---	---
MW-6	4/4/2000	---	<5	<5	<5
MW-6	6/28/2000	---	<5	<5	<5
MW-7	5/28/1992	<1.0	<1.0	---	---
MW-7	5/10/1993	<1.0	<1.0	---	---
MW-7	4/5/2000	---	<5	<5	<5
MW-7	6/28/2000	---	<5	<5	<5

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	CHLOROFORM (µg/l)	1,2-DCA (µg/l)	PCE (µg/l)	EDB (µg/l)
MW-8	5/28/1992	<1.0	<1.0	---	---
MW-8	5/10/1993	<1.0	<1.0	---	---
MW-8	4/5/2000	---	<5	<5	<5
MW-8	6/28/2000	---	<5	<5	<5
MW-9	5/28/1992	<1.0	<1.0	---	---
MW-9	5/10/1993	<1.0	<1.0	---	---
MW-9	4/4/2000	---	<5	<5	<5
MW-9	6/27/2000	---	<5	<5	<5
MW-10	5/28/1992	<1.0	<1.0	---	---
MW-10	5/10/1993	<1.0	<1.0	---	---
MW-10	4/4/2000	---	<5	<5	<5
MW-10	6/27/2000	---	<5	<5	<5
MW-11	5/28/1992	<1.0	<1.0	---	---
MW-11	5/10/1993	<1.0	<1.0	---	---
MW-11	4/4/2000	---	<5	<5	<5
MW-11	6/27/2000	---	<5	<5	<5
MW-12	5/28/1992	<1.0	<1.0	---	---
MW-12	5/10/1993	<1.0	12	---	---
MW-12	8/3/1993	<0.5	<0.3	---	---
MW-12	11/10/1993	<0.5	15	---	---
MW-12	1/21/1994	<0.5	3.3	---	---
MW-12	4/28/1994	<0.5	10	---	---
MW-12	8/25/1994	<1.0	2.4	---	---
MW-12	12/7/1994	<1.0	8.6	---	---
MW-12	4/5/2000	---	<5	<5	<5
MW-12	6/28/2000	---	<5	<5	<5
MW-13	5/28/1992	---	<1.0	---	---
MW-13	5/10/1993	---	15	---	---
MW-13	1/21/1994	---	<0.3	---	---

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	CHLOROFORM (µg/l)	1,2-DCA (µg/l)	PCE (µg/l)	EDB (µg/l)
MW-13	4/28/1994	---	<0.3	---	---
MW-13	8/25/1994	<1.0	<1.0	---	---
MW-13	12/7/1994	<1.0	<1.0	---	---
MW-13	4/5/2000	---	<100	<100	<100
MW-13	6/28/2000	---	19	<5	<5
MW-14	5/28/1992	<1.0	<1.0	---	---
MW-14	5/10/1993	<1.0	<1.0	---	---
MW-14	1/21/1994	<0.5	<0.3	---	---
MW-14	4/28/1994	<0.5	<0.3	---	---
MW-14	8/25/1994	<1.0	<1.0	---	---
MW-14	12/7/1994	<1.0	<1.0	---	---
MW-14	3/24/1995	<0.5	<0.5	---	---
MW-14	4/18/1996	<0.5	<0.5	---	---
MW-14	7/31/1996	<0.5	<0.5	---	---
MW-14	10/8/1996	<0.5	<0.5	---	---
MW-14	4/5/2000	---	<5	<5	<5
MW-14	6/27/2000	---	<5	<5	<5
DW-1	4/4/2000	---	<5	<5	<5
DW-1	6/27/2000	---	<5	<5	<5

Notes:

1,2-DCA = 1,2-Dichloroethane

PCE = Tetrachloroethene

EDB = 1,2-Dibromoethane

µg/l = Micrograms per liter

--- = Not tested

< = Less than laboratory reporting limit

1 = Tetrachloroethylene was detected at a concentration of 1.0 µg/l

2 = Trichloroethylene was detected at a concentration of 28 µg/l

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	Acenaphthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	2,4-Dimethyl-phenol (µg/l)	Fluorene (µg/l)	2-Methyl-naphthalene (µg/l)	N-Nitroso-diphenylamine (µg/l)	bis(2-ethyl-hexyl)phthalate (µg/l)	Diethylphthalate (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Phenol (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)
MW-1	3/19/2003	<10	<50	<20	44	<10	55	<10	<10	<10	82	<10	18	19	2 [1]
MW-1	5/1/2003	<10	<50	10 [1]	35	1 [1]	230	1 [1]	<10	3 [1]	530	2 [1]	<10	<10	45
MW-1	2/27/2007	<10	<50	<20	40	<10	250	<10	83	<10	770	<10	<10	<10	40
MW-1	4/26/2007	<10	<50	<20	51	<10	66	<10	<10	<10	350	<10	<10	84	48
MW-1	9/28/2007	<10	<50	<20	22	<10	32	<10	<10	<10	280	<10	<10	110	50
MW-1	12/21/2007	<10	<50	<20	22	<10	94	<10	<10	<10	<10	<10	<10	120	41
MW-1	3/20/2008	<100	<500	<200	<100	<100	<100	<100	<100	<100	260	<100	<100	<100	<100
MW-1	8/12/2008	<10	<50	<20	47	<10	56	<10	<10	<10	280	<10	23	92	40
MW-2	3/19/2003	<10	<50	<20	14	<10	43	<10	5 j	1 [1]	63	<10	2 [1]	12	11
MW-2	5/1/2003	2 [1]	<56	<22	10 [1]	6 [1]	380	<11	<11	<11	720	9 [1]	<11	<11	44
MW-2	2/27/2007	<10	<50	<20	<10	<10	120	<10	22	<10	640	<10	<10	<10	30
MW-2	4/26/2007	<10	<50	<20	17	<10	52	<10	<10	<10	350	<10	<10	6.8 [1]	21
MW-2	3/20/2008	<100	<500	<200	<100	<100	<100	<100	<100	<100	260	<100	<100	<100	<100
MW-2	8/12/2008	<10	<50	<20	<10	<10	88	<10	<10	<10	470	<10	<10	<10	34
MW-3	3/19/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-3	5/2/2003	<11	<56	<22	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
MW-3	2/28/2007	<10	39 [1]	<22	35	<11	78	<11	<11	<11	410	<11	<11	7 [1]	13
MW-3	4/25/2007	<10	19 [1]	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-3	9/28/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-3	12/21/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-3	3/20/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-3	8/12/2008	<50	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	Acenaphthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	2,4-Dimethyl-phenol (µg/l)	Fluorene (µg/l)	2-Methyl-naphthalene (µg/l)	N-Nitroso-diphenylamine (µg/l)	bis(2-ethyl-hexyl)phthalate (µg/l)	Diethylphthalate (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Phenol (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)
MW-4	3/18/2003	<10	<50	<20	<10	<10	2 [1]	<10	<10	<10	8 [1]	<10	<10	<10	<10
MW-4	5/1/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-4	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-4	4/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-4	9/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-4	12/19/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-4	3/19/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-4	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-5	3/18/2003	<12	<59	<24	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
MW-5	5/1/2003	<11	<56	<22	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
MW-5	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-5	4/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-5	9/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-5	12/19/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-5	3/18/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-5	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-6	5/2/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-6	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-6	4/25/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-6	9/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	Acenaphthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	2,4-Dimethyl-phenol (µg/l)	Fluorene (µg/l)	2-Methyl-naphthalene (µg/l)	N-Nitroso-diphenylamine (µg/l)	bis(2-ethyl-hexyl)phthalate (µg/l)	Diethylphthalate (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Phenol (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)
MW-6	12/20/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-6	3/19/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-6	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-7	3/19/2003	<11	<53	<21	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
MW-7	5/2/2003	<10	<50	<20	<11	<10	<11	<10	<11	<11	<11	<11	<11	<11	<11
MW-7	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-7	4/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-7	9/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-7	12/20/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-7	3/19/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-7	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	3/18/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	5/1/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	4/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-8	9/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	12/20/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	3/19/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-8	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-9	3/19/2003	<12	<59	<24	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12
MW-9	5/2/2003	<10	<50	<20	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	Acenaphthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	2,4-Dimethyl-phenol (µg/l)	Fluorene (µg/l)	2-Methyl-naphthalene (µg/l)	N-Nitroso-diphenylamine (µg/l)	bis(2-ethyl-hexyl)phthalate (µg/l)	Diethylphthalate (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Phenol (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)
MW-9	2/28/2007	<11	<56	<22	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
MW-9	4/25/2007	<10	<50	<20	<10	<20	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-9	9/27/2007	<10	<50	<20	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-9	12/21/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-9	3/19/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-9	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-10	3/19/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-10	5/2/2003	<11	<53	<21	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
MW-10	9/28/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-10	12/21/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-10	3/19/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-10	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-11	3/18/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-11	5/1/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-11	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-11	4/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-11	9/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-11	12/20/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-11	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	Acenaphthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	2,4-Dimethyl-phenol (µg/l)	Fluorene (µg/l)	2-Methyl-naphthalene (µg/l)	N-Nitroso-diphenylamine (µg/l)	bis(2-ethyl-hexyl)phthalate (µg/l)	Diethylphthalate (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Phenol (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)
MW-12	3/19/2003	<11	<53	<21	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
MW-12	5/2/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-12	4/26/2007	<10	46 [1]	<20	<10	<10	<10	<10	<10	<10	2.3	<10	<10	<10	<10
MW-12	9/28/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	72	<10	<10	<10	<10
MW-12	12/21/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-12	3/20/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-12	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	53	<10	<10	<10	<10
MW-13	3/19/2003	<11	<53	<21	16	<11	110	<11	10 [1]	2 [1]	150	2 [1]	<11	6 [1]	5 [1]
MW-13	5/2/2003	<10	99	<20	18	<10	100	<10	<10	<10	360	<10	7 [1]	28	75
MW-13	2/28/2007	<11	<56	<22	<11	<11	<11	<11	<11	<11	6 [1]	<11	<11	<11	<11
MW-13	4/25/2007	<10	<50	<20	50	<10	43	<10	<10	<10	240	<10	<10	14	13
MW-13	12/21/2007	<10	<50	<20	12	<10	96	<10	<10	<10	470	<10	<10	<10	10
MW-13	3/20/2008	<10	<50	<20	17	<10	13	<10	<10	<10	170	<10	<10	<10	14
MW-13	8/12/2008	<10	<50	<20	24	<10	110	<10	<10	<10	630	<10	<10	<10	16
MW-14	3/18/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-14	5/1/2003	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-14	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-14	4/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<0.5	<10	<10	<10	<10
MW-14	9/26/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-14	12/20/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW-14	3/18/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL DATA - SEMI-VOLATILE ORGANIC COMPOUNDS

LEMON COVE MAINTENANCE STATION

TULARE COUNTY, CALIFORNIA

WELL I.D.	SAMPLE DATE	Acenaphthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	2,4-Dimethyl-phenol (µg/l)	Fluorene (µg/l)	2-Methyl-naphthalene (µg/l)	N-Nitroso-diphenylamine (µg/l)	bis(2-ethyl-hexyl)phthalate (µg/l)	Diethylphthalate (µg/l)	Naphthalene (µg/l)	Phenanthrene (µg/l)	Phenol (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)
MW-14	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DW-1	3/18/2003	<11	<54	<22	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
DW-1	5/1/2003	<11	<53	<21	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
DW-1	2/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DW-1	4/25/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DW-1	9/27/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DW-1	12/20/2007	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DW-1	3/18/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DW-1	8/12/2008	<10	<50	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes: µg/l = Micrograms per liter

< = Less than laboratory reporting limit

1 = Result is between the Practical Quantitation Limit (PQL) and the calculated Minimum Detection Limit (MDL).

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA – RNA PARAMETERS
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	SULFATE (mg/l)	NITRATE (mg/l)	IRON (µg/l)	MANGANESE (µg/l)	METHANE (µg/l)	OXYGEN (mg/l)	ORP (mV)	pH
MW-1	3/19/2003	56	0.91	---	---	850	1.20	24.2	---
MW-1	5/1/2003	17	0.72	---	---	3,000	3.54	163.6	---
MW-1	12/3/2003	8.1	0.72	4,200	2,300	---	3.54	163.6	---
MW-1	3/16/2004	7.4	0.75	2,500	2,100	3,700	0.50	-122.8	---
MW-1	2/27/2007	10	<0.1	2,900	2,000	2,900	1.37	151	---
MW-1	4/26/2007	6.8	<0.1	2,900	2,000	2,500	0.70	-205.8	---
MW-1	9/28/2007	8.6	<0.10	1,000	2,000	2,400	---	---	6.2
MW-1	12/21/2007	3,400	<5.0	400	2,500	3,600	1.44	79	6.2
MW-1	3/20/2008	12	<0.10	220	2,000	1,300	1.53	---	7.1
MW-1	5/28/2008	11	<0.10	870	3,100	4,200	0.25	57	7.1
MW-2	3/19/2003	54	2.9	---	---	1,000	0.94	-36.0	---
MW-2	5/1/2003	34	0.75	---	---	2,500	3.12	460.9	---
MW-2	12/3/2003	16	0.89	880	4,000	5,500	0.30	-119.0	---
MW-2	3/16/2004	11	0.85	3,200	3,200	3,700	0.80	-114.0	---
MW-2	2/27/2007	33	0.70	3,500	3,800	7,900	1.41	-131.3	---
MW-2	4/26/2007	21	0.41	2,600	3,200	4,100	0.30	-244.4	---
MW-2	9/28/2007	Unable to access		---	---	---	---	---	---
MW-4	3/18/2003	150	6.7	---	---	<1.0	1.16	263.4	---
MW-4	5/1/2003	90	7.7	---	---	7.2	3.46	683.1	---
MW-4	12/3/2003	78	13	<100	1,600	170	5.90	-28.6	---
MW-4	3/16/2004	120	8.9	100	400	83	0.60	-22.2	---
MW-4	2/27/2007	130	10	150 [1]	850	14	3.43	448.0	---
MW-4	4/26/2007	92	13	70 [1]	590	3.0	3.30	-148.6	---
MW-4	9/26/2007	110	6.8	180	160	17	---	178	6.3
MW-4	12/19/2007	4,000	<10	170	570	25	1.65	103	6.3
MW-4	3/18/2008	66	8.3	210	1,000	51	4.45	221	6.5
MW-4	5/27/2008	84	10	340	970	33	4.19	165	6.6
MW-5	3/18/2003	130	13	---	---	4.3	1.27	81.8	---
MW-5	5/1/2003	120	7.3	---	---	<1.0	3.39	611.9	---
MW-5	3/16/2004	120	12	<100	<50	1.9	2.00	-54.7	---
MW-5	2/27/2007	100	18	<500	<500	1.3	4.99	415.5	---
MW-5	4/26/2007	92	20	<500	380 [1]	<1.0	3.60	-105.8	---
MW-5	9/26/2007	95	19	150	1,300	<1.0	---	118	6.2
MW-5	12/19/2007	3,300	<50	110	670	<1.0	1.80	161	6.6
MW-5	3/18/2008	73	18	160	870	<1.0	4.71	150	6.5
MW-5	5/27/2008	87	21	180	520	<1.0	5.20	134	6.6
MW-8	3/18/2003	120	13	---	---	1.3	1.24	69.7	---
MW-8	5/1/2003	110	10	---	---	<1.0	3.23	631.1	---
MW-8	12/3/2003	110	6.7	<100	180	1.2	1.90	80.7	---

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA – RNA PARAMETERS
LEMON COVE MAINTENANCE STATION
TULARE COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	SULFATE (mg/l)	NITRATE (mg/l)	IRON (µg/l)	MANGANESE (µg/l)	METHANE (µg/l)	OXYGEN (mg/l)	ORP (mV)	pH
MW-8	3/16/2004	110	15	100 [1]	100 [1]	1.1	4.00	-56.9	---
MW-8	2/27/2007	120	32	99 [1]	86 [1]	<1.0	0.75	387.4	---
MW-8	4/26/2007	90	16	<500	14 [1]	<1.0	3.50	-111.7	---
MW-8	9/27/2007	110	30	200	14	<1.0	---	175	6.5
MW-8	12/20/2007	4,200	<50	170	31	<1.0	2.36	217	6.4
MW-8	3/19/2008	94	24	170	49	<1.0	4.48	222	6.5
MW-8	5/27/2008	98	20	250	<10	<1.0	3.56	206	6.9
MW-11	3/18/2003	110	16	---	---	<1.0	0.93	76.9	---
MW-11	5/1/2003	120	17	---	---	0.27 [1]	3.48	628.1	---
MW-11	12/3/2003	110	17	<100	<50	<1.0	6.40	89.4	---
MW-11	3/16/2004	100	17	<100	<50	<1.0	7.30	-71.3	---
MW-11	2/27/2007	84	26	<500	3.4 [1]	<1.0	2.99	489.0	---
MW-11	4/26/2007	78	26	<500	<500	<1.0	2.90	-65.7	---
MW-11	9/27/2007	77	28	120	<10	<1.0	---	205	6.7
MW-11	12/20/2007	3,700	<50	130	<10	<1.0	2.42	242	6.3
MW-11	3/19/2008	69	24	130	<10	<1.0	4.08	210	6.5
MW-11	5/27/2008	81	27	160	<10	<1.0	6.50	190	7.0
MW-13	9/28/2007	4.1	<0.10	360	3,400	7,600	---	---	6.3
MW-13	12/21/2007	3,900	<5.0	410	3,500	11,000	1.40	59	6.1
MW-13	3/20/2008	1.8	<0.10	320	5,300	7,000	1.83	---	7.2
MW-13	5/28/2008	3.9	0.18	1,100	3,500	10,000	0.29	46	6.8
MW-14	3/18/2003	140	12	---	---	140	0.61	79.1	---
MW-14	5/1/2003	31	2.3	---	---	<1.0	5.58	523.4	---
MW-14	12/3/2003	110	22	<100	<50	<1.0	18.10	19.1	---
MW-14	3/16/2004	130	14	<100	<50	<1.0	17.20	-30.1	---
MW-14	2/27/2007	110	12	<500	<500	<1.0	3.30	-62.9	---
MW-14	4/26/2007	93	9.6	<500	33 [1]	<1.0	1.60	-62.9	---
MW-14	9/26/2007	170	11	220	100	<1.0	---	194	6.5
MW-14	12/20/2007	4,600	<50	170	450	<1.0	23.8	141	6.5
MW-14	3/18/2008	140	8.4	280	460	<1.0	5.20	217	6.3
MW-14	5/27/2008	---	---	---	---	---	---	---	---

Notes:
ORP = Oxidation Reduction Potential
mg/l = Milligrams per liter
µg/l = Micrograms per liter
mV = Millivolts
< = Less than laboratory reporting limit
--- = Not tested
1 = Result is between the Practical Quantitation Limit (PQL) and the calculated Minimum Detection Limit (MDL).

APPENDIX A

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-1	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 24 feet	Screened Casing Length:
Well Elevation: 494.75 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.64 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 10.68 Gal.	Volumes Purged: 1.6
Start Purging Time: 1505	End Purging Time: 1612
Total Time: 67 min.	Flow Gauge: to
Total Volume Purged: 17 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Submersible Pump		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1509	25.0	681	6.86	11
1612	28.0	795	7.20	17
1635				Sample

Comments: Dry after purging 11 gallons. Purged 6 additional gallons. Allowed to recharge, then sampled.
Gray water, with odor.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-2	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 19.8 feet	Screened Casing Length:
Well Elevation: 494.33 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.32 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 8.15 Gal.	Volumes Purged: 2.5
Start Purging Time: 1517	End Purging Time: 1635
Total Time: 78 min.	Flow Gauge: to
Total Volume Purged: 20 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1521	27.2	711	6.87	10
1625	27.1	802	6.95	16
1635	27.0	807	6.98	20
1645				Sample

Comments: Gray/greenish-gray, odor. Well was dry after 10 gallons, purged additional 10 gallons, allowed to recharge then sampled.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-3	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 22 feet	Screened Casing Length:
Well Elevation: 494.25 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.27 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 9.62 Gal.	Volumes Purged: 1.6
Start Purging Time: 1306	End Purging Time: 1432
Total Time: 86 min.	Flow Gauge: to
Total Volume Purged: 15 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1310	25.9	621	6.78	9
1432	26.3	689	7.02	15
1600				Sample

Comments: Dry after purging 9 gallons. Allowed to recharge, purged additional 6 gallons, allowed to recharge, then sampled. Clear water, slight odor.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-4	Date: 9/1/10
Well Diameter: 2 in.	Field Personnel: JE
Casing Length: 17 feet	Screened Casing Length:
Well Elevation: 493.83 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 6.86 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 1.65 Gal.	Volumes Purged: 3.0
Start Purging Time: 1159	End Purging Time: 1202
Total Time: 3 min.	Flow Gauge: to
Total Volume Purged: 5.0 Gal.	Avg. Flow Rate: 1.7 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1200	25.4	965	7.59	2
1201	24.8	1,019	7.03	3
1202	24.8	1,053	6.90	5
1210				Sample

Comments: Water very turbid.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-5	Date: 9/1/10
Well Diameter: 2 in.	Field Personnel: JE
Casing Length: 15 feet	Screened Casing Length:
Well Elevation: 494.45 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.31 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 1.26 Gal.	Volumes Purged: 3.2
Start Purging Time: 1139	End Purging Time: 1142
Total Time: 3 min.	Flow Gauge: to
Total Volume Purged: 4 Gal.	Avg. Flow Rate: 1.3 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS

Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1140	27.7	690	6.89	2
1141	26.2	765	6.88	3
1142	26.6	765	6.69	4
1150				Sample

Comments: Water clear.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-6	Date: 9/1/10
Well Diameter: 2 in.	Field Personnel: JE
Casing Length: 24.5 feet	Screened Casing Length:
Well Elevation: 495.08 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.92 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.71 Gal.	Volumes Purged: 3.1
Start Purging Time: 1324	End Purging Time: 1329
Total Time: 5 min.	Flow Gauge: to
Total Volume Purged: 8.5 Gal.	Avg. Flow Rate: 1.7 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method : Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1325	25.4	662	7.39	3
1327	24.7	645	7.34	6
1329	24.4	649	7.19	8.5
1340				Sample

Comments: Water turbid, clear after 3 gallons purged.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-7	Date: 9/1/10
Well Diameter: 2 in.	Field Personnel: JE
Casing Length: 17.5 feet	Screened Casing Length:
Well Elevation: 493.57 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 6.60 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 1.78 Gal.	Volumes Purged: 3.1
Start Purging Time: 1239	End Purging Time: 1242
Total Time: 3 min.	Flow Gauge: to
Total Volume Purged: 5.5 Gal.	Avg. Flow Rate: 1.8 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Submersible Pump		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1240	25.6	793	7.69	2
1241	24.9	767	7.32	4
1242	24.5	752	7.21	5.5
1250				Sample

Comments: Purge water turbid, clear after 3 gallons purged.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-8	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 19 feet	Screened Casing Length:
Well Elevation: 493.63 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 6.65 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 8.06 Gal.	Volumes Purged: 3.0
Start Purging Time: 1258	End Purging Time: 1311
Total Time: 13 min.	Flow Gauge: to
Total Volume Purged: 24.5 Gal.	Avg. Flow Rate: 1.9 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1302	24.6	678	7.23	8
1307	24.5	782	7.19	16
1311	24.8	786	7.09	24.5
1320				Sample

Comments: Purge water turbid. Clear after 10 gallons purged.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-9	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 18.5 feet	Screened Casing Length:
Well Elevation: 494.90 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.77 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 7.00 Gal.	Volumes Purged: 3.1
Start Purging Time: 1341	End Purging Time: 1354
Total Time: 13 min.	Flow Gauge: to
Total Volume Purged: 21.5 Gal.	Avg. Flow Rate: 1.7 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1345	26.7	744	7.15	7
1349	26.5	745	7.16	14
1354	26.5	744	7.16	21.5
1405				Sample

Comments: Purge water clear.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-10	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 17.5 feet	Screened Casing Length:
Well Elevation: 494.67 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: Gal.	Volumes Purged:
Start Purging Time:	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume Purged: Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method:	Sampling Method:
Laboratory Analysis:	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
				Sample

Comments: Unable to access well – under large pile of asphalt.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-11	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 19 feet	Screened Casing Length:
Well Elevation: 494.31 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.35 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 7.61 Gal.	Volumes Purged: 3.0
Start Purging Time: 1420	End Purging Time: 1434
Total Time: 14 min.	Flow Gauge: to
Total Volume Purged: 23 Gal.	Avg. Flow Rate: 1.6 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1424	26.7	690	7.81	8
1429	25.8	677	7.07	16
1434	25.6	679	7.05	23
1445				Sample

Comments: Purge water turbid. Clear after 5 gallons.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-12	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 18.5 feet	Screened Casing Length:
Well Elevation: 493.80 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 6.83 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 7.62 Gal.	Volumes Purged: 3.0
Start Purging Time: 1452	End Purging Time: 1506
Total Time: 14 min.	Flow Gauge: to
Total Volume Purged: 23 Gal.	Avg. Flow Rate: 1.6 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1456	27.2	933	6.85	8
1501	26.3	969	6.83	16
1506	26.1	967	6.81	23
1515				Sample

Comments: Purge water clear, odor.
Duplicate MW-15 collected at 1525.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-13	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 19.3 feet	Screened Casing Length:
Well Elevation: 494.06 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 7.10 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 7.96 Gal.	Volumes Purged: 3.0
Start Purging Time: 1352	End Purging Time: 1406
Total Time: 14 min.	Flow Gauge: to
Total Volume Purged: 24 Gal.	Avg. Flow Rate: 1.7 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1356	25.6	806	7.08	8
1401	25.8	1,226	6.90	16
1406	25.7	1,219	6.97	24
1415				Sample

Comments: Dry after purging 24 gallons. Allowed to recharge, then sampled.
Water gray/greenish-yellow, strong odor.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: MW-14	Date: 9/1/10
Well Diameter: 4 in.	Field Personnel: JE
Casing Length: 17.3 feet	Screened Casing Length:
Well Elevation: 492.22 feet MSL measured from top of casing	

PURGE CHARACTERISTICS	
Water Depth Before Purging: 5.10 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 7.96 Gal.	Volumes Purged: 3.0
Start Purging Time: 1209	End Purging Time: 1223
Total Time: 14 min.	Flow Gauge: to
Total Volume Purged: 24 Gal.	Avg. Flow Rate: 1.7 gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS	
Purging Method: Submersible Pump	Sampling Method: Disposable Bailer
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead	

TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1214	26.6	1,002	7.32	8
1219	24.8	1,133	7.21	16
1223	24.5	1,119	7.17	24
1230				Sample

Comments: Purge water turbid, no odor. Clear after 7 gallons purged.

MONITORING WELL SAMPLING DATA

Project Name: Lemon Cove Maint. Station	**Project Number**: S9200-06-21A
Well No.: DW-1	Date: 9/1/10
Well Diameter: in.	Field Personnel: JE
Casing Length: feet	Screened Casing Length:
Well Elevation: feet MSL measured from	

PURGE CHARACTERISTICS	
Water Depth Before Purging: ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: Gal.	Volumes Purged:
Start Purging Time:	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume Purged: Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method:		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, BTEX, FOCs, Total Lead				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1650				Sample

Comments: Ran 2-inch line connected below the spigot for 5 to 10 min to drop the pressure in the water tank. Once the pump was drawing formation water, I allowed water to run for approximately 10 min and detached the hose before collecting a sample. Collected sample from the 2-inch line.

APPENDIX B

September 13, 2010

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

TEL: (916) 852-9118
FAX: (916) 852-9132

Workorder No.: 113591

RE: Lemon Cove M.S., S9200-06-21A

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on September 03, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Geocon Consultants, Inc.
Project: Lemon Cove M.S., S9200-06-21A
Lab Order: 113591

CASE NARRATIVE

Analytical Comments for Method 8015 (GRO)

Dilution was necessary for samples 113591-009B, 113591-013B and 113591-014B, due to sample matrix.

Surrogate recovery biased high for samples 113591-009B, 113591-010B, 113591-011B and 113591-014B, possibly due to matrix interferences.

Analytical Comments for Method 8260

Dilution was necessary for samples 113591-009A, 113591-013A and 113591-014A, due to sample matrix.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-001

Client Sample ID: MW-5
Collection Date: 9/1/2010 11:50:00 AM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3010A			**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	0.017	0.0050		mg/L	1	9/9/2010 11:45 AM
DIESEL RANGE ORGANICS BY GC/FID						
	EPA 3510C			**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	0.063	0.050		mg/L	1	9/7/2010 10:22 PM
Surr: p-Terphenyl	104	36-126		%REC	1	9/7/2010 10:22 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 06:08 PM
Surr: Bromofluorobenzene (FID)	92.7	70-130		%REC	1	9/3/2010 06:08 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/8/2010 05:36 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/8/2010 05:36 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/8/2010 05:36 PM
Ethylbenzene	ND	0.50		µg/L	1	9/8/2010 05:36 PM
m,p-Xylene	ND	1.0		µg/L	1	9/8/2010 05:36 PM
MTBE	ND	0.50		µg/L	1	9/8/2010 05:36 PM
o-Xylene	ND	0.50		µg/L	1	9/8/2010 05:36 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/8/2010 05:36 PM
Tert-Butanol	ND	10		µg/L	1	9/8/2010 05:36 PM
Toluene	ND	0.50		µg/L	1	9/8/2010 05:36 PM
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%REC	1	9/8/2010 05:36 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%REC	1	9/8/2010 05:36 PM
Surr: Dibromofluoromethane	91.7	70-130		%REC	1	9/8/2010 05:36 PM
Surr: Toluene-d8	100	70-130		%REC	1	9/8/2010 05:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-002

Client Sample ID: MW-4
Collection Date: 9/1/2010 12:10:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 11:49 AM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/7/2010 10:32 PM
Surr: p-Terphenyl	98.7	36-126		%REC	1	9/7/2010 10:32 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 06:47 PM
Surr: Bromofluorobenzene (FID)	89.8	70-130		%REC	1	9/3/2010 06:47 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/8/2010 06:16 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/8/2010 06:16 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/8/2010 06:16 PM
Ethylbenzene	ND	0.50		µg/L	1	9/8/2010 06:16 PM
m,p-Xylene	ND	1.0		µg/L	1	9/8/2010 06:16 PM
MTBE	ND	0.50		µg/L	1	9/8/2010 06:16 PM
o-Xylene	ND	0.50		µg/L	1	9/8/2010 06:16 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/8/2010 06:16 PM
Tert-Butanol	ND	10		µg/L	1	9/8/2010 06:16 PM
Toluene	ND	0.50		µg/L	1	9/8/2010 06:16 PM
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	9/8/2010 06:16 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	1	9/8/2010 06:16 PM
Surr: Dibromofluoromethane	92.8	70-130		%REC	1	9/8/2010 06:16 PM
Surr: Toluene-d8	100	70-130		%REC	1	9/8/2010 06:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-003

Client Sample ID: MW-14
Collection Date: 9/1/2010 12:30:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 11:54 AM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	0.15	0.050		mg/L	1	9/7/2010 10:41 PM
Surr: p-Terphenyl	93.1	36-126		%REC	1	9/7/2010 10:41 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 07:06 PM
Surr: Bromofluorobenzene (FID)	93.6	70-130		%REC	1	9/3/2010 07:06 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/8/2010 06:36 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/8/2010 06:36 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/8/2010 06:36 PM
Ethylbenzene	ND	0.50		µg/L	1	9/8/2010 06:36 PM
m,p-Xylene	ND	1.0		µg/L	1	9/8/2010 06:36 PM
MTBE	ND	0.50		µg/L	1	9/8/2010 06:36 PM
o-Xylene	ND	0.50		µg/L	1	9/8/2010 06:36 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/8/2010 06:36 PM
Tert-Butanol	ND	10		µg/L	1	9/8/2010 06:36 PM
Toluene	ND	0.50		µg/L	1	9/8/2010 06:36 PM
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%REC	1	9/8/2010 06:36 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	1	9/8/2010 06:36 PM
Surr: Dibromofluoromethane	89.7	70-130		%REC	1	9/8/2010 06:36 PM
Surr: Toluene-d8	100	70-130		%REC	1	9/8/2010 06:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-004

Client Sample ID: MW-7
Collection Date: 9/1/2010 12:50:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3010A			**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 11:57 AM
DIESEL RANGE ORGANICS BY GC/FID						
	EPA 3510C			**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/7/2010 10:51 PM
Surr: p-Terphenyl	98.0	36-126		%REC	1	9/7/2010 10:51 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 07:26 PM
Surr: Bromofluorobenzene (FID)	91.3	70-130		%REC	1	9/3/2010 07:26 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/9/2010 10:53 AM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 10:53 AM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 10:53 AM
Ethylbenzene	ND	0.50		µg/L	1	9/9/2010 10:53 AM
m,p-Xylene	ND	1.0		µg/L	1	9/9/2010 10:53 AM
MTBE	ND	0.50		µg/L	1	9/9/2010 10:53 AM
o-Xylene	ND	0.50		µg/L	1	9/9/2010 10:53 AM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 10:53 AM
Tert-Butanol	ND	10		µg/L	1	9/9/2010 10:53 AM
Toluene	ND	0.50		µg/L	1	9/9/2010 10:53 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	9/9/2010 10:53 AM
Surr: 4-Bromofluorobenzene	93.9	70-130		%REC	1	9/9/2010 10:53 AM
Surr: Dibromofluoromethane	101	70-130		%REC	1	9/9/2010 10:53 AM
Surr: Toluene-d8	109	70-130		%REC	1	9/9/2010 10:53 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-005

Client Sample ID: MW-8
Collection Date: 9/1/2010 1:20:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 12:02 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/7/2010 11:00 PM
Surr: p-Terphenyl	88.2	36-126		%REC	1	9/7/2010 11:00 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 07:45 PM
Surr: Bromofluorobenzene (FID)	92.5	70-130		%REC	1	9/3/2010 07:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/8/2010 06:56 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/8/2010 06:56 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/8/2010 06:56 PM
Ethylbenzene	ND	0.50		µg/L	1	9/8/2010 06:56 PM
m,p-Xylene	ND	1.0		µg/L	1	9/8/2010 06:56 PM
MTBE	ND	0.50		µg/L	1	9/8/2010 06:56 PM
o-Xylene	ND	0.50		µg/L	1	9/8/2010 06:56 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/8/2010 06:56 PM
Tert-Butanol	ND	10		µg/L	1	9/8/2010 06:56 PM
Toluene	ND	0.50		µg/L	1	9/8/2010 06:56 PM
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%REC	1	9/8/2010 06:56 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%REC	1	9/8/2010 06:56 PM
Surr: Dibromofluoromethane	91.6	70-130		%REC	1	9/8/2010 06:56 PM
Surr: Toluene-d8	100	70-130		%REC	1	9/8/2010 06:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-006

Client Sample ID: MW-6
Collection Date: 9/1/2010 1:40:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 12:05 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	0.077	0.050		mg/L	1	9/7/2010 11:10 PM
Surr: p-Terphenyl	93.9	36-126		%REC	1	9/7/2010 11:10 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 08:05 PM
Surr: Bromofluorobenzene (FID)	90.9	70-130		%REC	1	9/3/2010 08:05 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/8/2010 07:16 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/8/2010 07:16 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/8/2010 07:16 PM
Ethylbenzene	ND	0.50		µg/L	1	9/8/2010 07:16 PM
m,p-Xylene	ND	1.0		µg/L	1	9/8/2010 07:16 PM
MTBE	ND	0.50		µg/L	1	9/8/2010 07:16 PM
o-Xylene	ND	0.50		µg/L	1	9/8/2010 07:16 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/8/2010 07:16 PM
Tert-Butanol	ND	10		µg/L	1	9/8/2010 07:16 PM
Toluene	ND	0.50		µg/L	1	9/8/2010 07:16 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	1	9/8/2010 07:16 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	1	9/8/2010 07:16 PM
Surr: Dibromofluoromethane	90.9	70-130		%REC	1	9/8/2010 07:16 PM
Surr: Toluene-d8	99.9	70-130		%REC	1	9/8/2010 07:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-007

Client Sample ID: MW-9
Collection Date: 9/1/2010 2:05:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 12:10 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/7/2010 11:19 PM
Surr: p-Terphenyl	95.0	36-126		%REC	1	9/7/2010 11:19 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 08:25 PM
Surr: Bromofluorobenzene (FID)	89.6	70-130		%REC	1	9/3/2010 08:25 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/8/2010 07:36 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/8/2010 07:36 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/8/2010 07:36 PM
Ethylbenzene	ND	0.50		µg/L	1	9/8/2010 07:36 PM
m,p-Xylene	ND	1.0		µg/L	1	9/8/2010 07:36 PM
MTBE	ND	0.50		µg/L	1	9/8/2010 07:36 PM
o-Xylene	ND	0.50		µg/L	1	9/8/2010 07:36 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/8/2010 07:36 PM
Tert-Butanol	ND	10		µg/L	1	9/8/2010 07:36 PM
Toluene	ND	0.50		µg/L	1	9/8/2010 07:36 PM
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%REC	1	9/8/2010 07:36 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	1	9/8/2010 07:36 PM
Surr: Dibromofluoromethane	93.9	70-130		%REC	1	9/8/2010 07:36 PM
Surr: Toluene-d8	99.1	70-130		%REC	1	9/8/2010 07:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

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Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-008

Client Sample ID: MW-11
Collection Date: 9/1/2010 2:45:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 12:13 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/7/2010 11:29 PM
Surr: p-Terphenyl	92.8	36-126		%REC	1	9/7/2010 11:29 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100903A	QC Batch: M10VW101			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/3/2010 08:44 PM
Surr: Bromofluorobenzene (FID)	91.2	70-130		%REC	1	9/3/2010 08:44 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/9/2010 11:34 AM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 11:34 AM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 11:34 AM
Ethylbenzene	ND	0.50		µg/L	1	9/9/2010 11:34 AM
m,p-Xylene	ND	1.0		µg/L	1	9/9/2010 11:34 AM
MTBE	ND	0.50		µg/L	1	9/9/2010 11:34 AM
o-Xylene	ND	0.50		µg/L	1	9/9/2010 11:34 AM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 11:34 AM
Tert-Butanol	ND	10		µg/L	1	9/9/2010 11:34 AM
Toluene	ND	0.50		µg/L	1	9/9/2010 11:34 AM
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%REC	1	9/9/2010 11:34 AM
Surr: 4-Bromofluorobenzene	92.6	70-130		%REC	1	9/9/2010 11:34 AM
Surr: Dibromofluoromethane	91.5	70-130		%REC	1	9/9/2010 11:34 AM
Surr: Toluene-d8	107	70-130		%REC	1	9/9/2010 11:34 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ANALYTICAL RESULTS

Advanced Technology Laboratories

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-009

Client Sample ID: MW-13
Collection Date: 9/1/2010 2:15:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909D	QC Batch: 66679			PrepDate: 9/8/2010		Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 12:17 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate: 9/7/2010		Analyst: **CBR**
DRO	2.1	0.050		mg/L	1	9/7/2010 11:38 PM
Surr: p-Terphenyl	79.8	36-126		%REC	1	9/7/2010 11:38 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	21	0.50		mg/L	10	9/7/2010 04:01 PM
Surr: Bromofluorobenzene (FID)	136	70-130	S	%REC	10	9/7/2010 04:01 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	110	5.0		µg/L	10	9/9/2010 01:15 PM
Di-isopropyl ether	ND	5.0		µg/L	10	9/9/2010 01:15 PM
Ethyl tert-butyl ether	ND	5.0		µg/L	10	9/9/2010 01:15 PM
Ethylbenzene	3400	50		µg/L	100	9/8/2010 11:15 PM
m,p-Xylene	2200	100		µg/L	100	9/8/2010 11:15 PM
MTBE	ND	5.0		µg/L	10	9/9/2010 01:15 PM
o-Xylene	460	5.0		µg/L	10	9/9/2010 01:15 PM
Tert-amyl methyl ether	ND	5.0		µg/L	10	9/9/2010 01:15 PM
Tert-Butanol	ND	100		µg/L	10	9/9/2010 01:15 PM
Toluene	360	5.0		µg/L	10	9/9/2010 01:15 PM
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%REC	100	9/8/2010 11:15 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	10	9/9/2010 01:15 PM
Surr: 4-Bromofluorobenzene	91.1	70-130		%REC	10	9/9/2010 01:15 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%REC	100	9/8/2010 11:15 PM
Surr: Dibromofluoromethane	89.6	70-130		%REC	10	9/9/2010 01:15 PM
Surr: Dibromofluoromethane	85.0	70-130		%REC	100	9/8/2010 11:15 PM
Surr: Toluene-d8	73.0	70-130		%REC	10	9/9/2010 01:15 PM
Surr: Toluene-d8	96.8	70-130		%REC	100	9/8/2010 11:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

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Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-010

Client Sample ID: MW-12
Collection Date: 9/1/2010 3:15:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:15 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907F	QC Batch: 66670			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	1.0	0.050		mg/L	1	9/7/2010 11:48 PM
Surr: p-Terphenyl	87.5	36-126		%REC	1	9/7/2010 11:48 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	1.5	0.050		mg/L	1	9/7/2010 02:04 PM
Surr: Bromofluorobenzene (FID)	238	70-130	S	%REC	1	9/7/2010 02:04 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	33	0.50		µg/L	1	9/9/2010 12:35 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 12:35 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 12:35 PM
Ethylbenzene	82	0.50		µg/L	1	9/9/2010 12:35 PM
m,p-Xylene	1.0	1.0		µg/L	1	9/9/2010 12:35 PM
MTBE	13	0.50		µg/L	1	9/9/2010 12:35 PM
o-Xylene	0.56	0.50		µg/L	1	9/9/2010 12:35 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 12:35 PM
Tert-Butanol	36	10		µg/L	1	9/9/2010 12:35 PM
Toluene	0.66	0.50		µg/L	1	9/9/2010 12:35 PM
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%REC	1	9/9/2010 12:35 PM
Surr: 4-Bromofluorobenzene	95.7	70-130		%REC	1	9/9/2010 12:35 PM
Surr: Dibromofluoromethane	91.4	70-130		%REC	1	9/9/2010 12:35 PM
Surr: Toluene-d8	105	70-130		%REC	1	9/9/2010 12:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Advanced Technology Laboratories

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-011

Client Sample ID: MW-15
Collection Date: 9/1/2010 3:25:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:26 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907E	QC Batch: 66671			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	0.96	0.050		mg/L	1	9/8/2010 01:22 AM
Surr: p-Terphenyl	103	36-126		%REC	1	9/8/2010 01:22 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	1.4	0.050		mg/L	1	9/7/2010 02:23 PM
Surr: Bromofluorobenzene (FID)	229	70-130	S	%REC	1	9/7/2010 02:23 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	35	0.50		µg/L	1	9/9/2010 12:55 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 12:55 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 12:55 PM
Ethylbenzene	84	0.50		µg/L	1	9/9/2010 12:55 PM
m,p-Xylene	1.0	1.0		µg/L	1	9/9/2010 12:55 PM
MTBE	13	0.50		µg/L	1	9/9/2010 12:55 PM
o-Xylene	0.66	0.50		µg/L	1	9/9/2010 12:55 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 12:55 PM
Tert-Butanol	23	10		µg/L	1	9/9/2010 12:55 PM
Toluene	0.73	0.50		µg/L	1	9/9/2010 12:55 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%REC	1	9/9/2010 12:55 PM
Surr: 4-Bromofluorobenzene	94.7	70-130		%REC	1	9/9/2010 12:55 PM
Surr: Dibromofluoromethane	96.1	70-130		%REC	1	9/9/2010 12:55 PM
Surr: Toluene-d8	107	70-130		%REC	1	9/9/2010 12:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-012

Client Sample ID: MW-3
Collection Date: 9/1/2010 4:00:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:30 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907E	QC Batch: 66671			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	0.49	0.050		mg/L	1	9/8/2010 01:12 AM
Surr: p-Terphenyl	85.2	36-126		%REC	1	9/8/2010 01:12 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	0.43	0.050		mg/L	1	9/7/2010 02:43 PM
Surr: Bromofluorobenzene (FID)	116	70-130		%REC	1	9/7/2010 02:43 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	4.4	0.50		µg/L	1	9/9/2010 12:15 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 12:15 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 12:15 PM
Ethylbenzene	37	0.50		µg/L	1	9/9/2010 12:15 PM
m,p-Xylene	ND	1.0		µg/L	1	9/9/2010 12:15 PM
MTBE	13	0.50		µg/L	1	9/9/2010 12:15 PM
o-Xylene	ND	0.50		µg/L	1	9/9/2010 12:15 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 12:15 PM
Tert-Butanol	17	10		µg/L	1	9/9/2010 12:15 PM
Toluene	ND	0.50		µg/L	1	9/9/2010 12:15 PM
Surr: 1,2-Dichloroethane-d4	99.5	70-130		%REC	1	9/9/2010 12:15 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%REC	1	9/9/2010 12:15 PM
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	9/9/2010 12:15 PM
Surr: Toluene-d8	104	70-130		%REC	1	9/9/2010 12:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-013

Client Sample ID: MW-1
Collection Date: 9/1/2010 4:35:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:33 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907E	QC Batch: 66671			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	3.3	0.050		mg/L	1	9/8/2010 01:41 AM
Surr: p-Terphenyl	106	36-126		%REC	1	9/8/2010 01:41 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	30	0.50		mg/L	10	9/7/2010 04:20 PM
Surr: Bromofluorobenzene (FID)	124	70-130		%REC	10	9/7/2010 04:20 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS11_100908B	QC Batch: A10VW192			PrepDate:		Analyst: **SLL**
Benzene	2300	25		µg/L	50	9/8/2010 11:56 PM
Di-isopropyl ether	ND	5.0		µg/L	10	9/9/2010 01:35 PM
Ethyl tert-butyl ether	ND	5.0		µg/L	10	9/9/2010 01:35 PM
Ethylbenzene	2800	25		µg/L	50	9/8/2010 11:56 PM
m,p-Xylene	4700	50		µg/L	50	9/8/2010 11:56 PM
MTBE	ND	5.0		µg/L	10	9/9/2010 01:35 PM
o-Xylene	1400	25		µg/L	50	9/8/2010 11:56 PM
Tert-amyl methyl ether	ND	5.0		µg/L	10	9/9/2010 01:35 PM
Tert-Butanol	ND	100		µg/L	10	9/9/2010 01:35 PM
Toluene	2900	25		µg/L	50	9/8/2010 11:56 PM
Surr: 1,2-Dichloroethane-d4	82.6	70-130		%REC	50	9/8/2010 11:56 PM
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%REC	10	9/9/2010 01:35 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	50	9/8/2010 11:56 PM
Surr: 4-Bromofluorobenzene	93.2	70-130		%REC	10	9/9/2010 01:35 PM
Surr: Dibromofluoromethane	83.3	70-130		%REC	50	9/8/2010 11:56 PM
Surr: Dibromofluoromethane	89.6	70-130		%REC	10	9/9/2010 01:35 PM
Surr: Toluene-d8	94.8	70-130		%REC	50	9/8/2010 11:56 PM
Surr: Toluene-d8	105	70-130		%REC	10	9/9/2010 01:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

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Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-014

Client Sample ID: MW-2
Collection Date: 9/1/2010 4:45:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:37 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907E	QC Batch: 66671			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	3.2	0.050		mg/L	1	9/8/2010 01:02 AM
Surr: p-Terphenyl	109	36-126		%REC	1	9/8/2010 01:02 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	47	0.25		mg/L	5	9/7/2010 03:42 PM
Surr: Bromofluorobenzene (FID)	212	70-130	S	%REC	5	9/7/2010 03:42 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	360	10		µg/L	20	9/9/2010 01:55 PM
Di-isopropyl ether	ND	10		µg/L	20	9/9/2010 01:55 PM
Ethyl tert-butyl ether	ND	10		µg/L	20	9/9/2010 01:55 PM
Ethylbenzene	4200	50		µg/L	100	9/9/2010 12:16 AM
m,p-Xylene	10000	100		µg/L	100	9/9/2010 12:16 AM
MTBE	ND	10		µg/L	20	9/9/2010 01:55 PM
o-Xylene	1100	10		µg/L	20	9/9/2010 01:55 PM
Tert-amyl methyl ether	ND	10		µg/L	20	9/9/2010 01:55 PM
Tert-Butanol	ND	200		µg/L	20	9/9/2010 01:55 PM
Toluene	540	10		µg/L	20	9/9/2010 01:55 PM
Surr: 1,2-Dichloroethane-d4	78.8	70-130		%REC	100	9/9/2010 12:16 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%REC	20	9/9/2010 01:55 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%REC	20	9/9/2010 01:55 PM
Surr: 4-Bromofluorobenzene	89.5	70-130		%REC	100	9/9/2010 12:16 AM
Surr: Dibromofluoromethane	80.4	70-130		%REC	100	9/9/2010 12:16 AM
Surr: Dibromofluoromethane	90.0	70-130		%REC	20	9/9/2010 01:55 PM
Surr: Toluene-d8	92.6	70-130		%REC	100	9/9/2010 12:16 AM
Surr: Toluene-d8	106	70-130		%REC	20	9/9/2010 01:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-015

Client Sample ID: DW-1
Collection Date: 9/1/2010 4:50:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:41 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907E	QC Batch: 66671			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/8/2010 12:35 AM
Surr: p-Terphenyl	115	36-126		%REC	1	9/8/2010 12:35 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/7/2010 03:03 PM
Surr: Bromofluorobenzene (FID)	89.9	70-130		%REC	1	9/7/2010 03:03 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS11_100909A	QC Batch: A10VW193			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/9/2010 04:43 PM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 04:43 PM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 04:43 PM
Ethylbenzene	ND	0.50		µg/L	1	9/9/2010 04:43 PM
m,p-Xylene	ND	1.0		µg/L	1	9/9/2010 04:43 PM
MTBE	ND	0.50		µg/L	1	9/9/2010 04:43 PM
o-Xylene	ND	0.50		µg/L	1	9/9/2010 04:43 PM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 04:43 PM
Tert-Butanol	ND	10		µg/L	1	9/9/2010 04:43 PM
Toluene	ND	0.50		µg/L	1	9/9/2010 04:43 PM
Surr: 1,2-Dichloroethane-d4	86.6	70-130		%REC	1	9/9/2010 04:43 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%REC	1	9/9/2010 04:43 PM
Surr: Dibromofluoromethane	87.0	70-130		%REC	1	9/9/2010 04:43 PM
Surr: Toluene-d8	92.6	70-130		%REC	1	9/9/2010 04:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT: Geocon Consultants, Inc.
Lab Order: 113591
Project: Lemon Cove M.S., S9200-06-21A
Lab ID: 113591-016

Client Sample ID: Equipment Blank
Collection Date: 9/1/2010 5:00:00 PM
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3010A				**EPA 200.7**		
RunID: ICP8_100909E	QC Batch: 66680			PrepDate:	9/8/2010	Analyst: **SRB**
Lead	ND	0.0050		mg/L	1	9/9/2010 04:02 PM
DIESEL RANGE ORGANICS BY GC/FID						
EPA 3510C				**EPA 8015B(M)**		
RunID: GC16_100907E	QC Batch: 66671			PrepDate:	9/7/2010	Analyst: **CBR**
DRO	ND	0.050		mg/L	1	9/8/2010 12:44 AM
Surr: p-Terphenyl	94.2	36-126		%REC	1	9/8/2010 12:44 AM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/7/2010 12:43 PM
Surr: Bromofluorobenzene (FID)	91.8	70-130		%REC	1	9/7/2010 12:43 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/9/2010 10:33 AM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 10:33 AM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 10:33 AM
Ethylbenzene	ND	0.50		µg/L	1	9/9/2010 10:33 AM
m,p-Xylene	ND	1.0		µg/L	1	9/9/2010 10:33 AM
MTBE	ND	0.50		µg/L	1	9/9/2010 10:33 AM
o-Xylene	ND	0.50		µg/L	1	9/9/2010 10:33 AM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 10:33 AM
Tert-Butanol	ND	10		µg/L	1	9/9/2010 10:33 AM
Toluene	ND	0.50		µg/L	1	9/9/2010 10:33 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	9/9/2010 10:33 AM
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	1	9/9/2010 10:33 AM
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	9/9/2010 10:33 AM
Surr: Toluene-d8	104	70-130		%REC	1	9/9/2010 10:33 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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ANALYTICAL RESULTS

Print Date: *13-Sep-10*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	113591	**Collection Date:**	9/1/2010 11:30:00 AM
Project:	Lemon Cove M.S., S9200-06-21A	**Matrix:**	WATER
Lab ID:	113591-017		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC19_100907A	QC Batch: M10VW102			PrepDate:		Analyst: **DDL**
GRO	ND	0.050		mg/L	1	9/7/2010 01:25 PM
Surr: Bromofluorobenzene (FID)	91.6	70-130		%REC	1	9/7/2010 01:25 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS12_100909A	QC Batch: Y10VW007			PrepDate:		Analyst: **SLL**
Benzene	ND	0.50		µg/L	1	9/9/2010 10:13 AM
Di-isopropyl ether	ND	0.50		µg/L	1	9/9/2010 10:13 AM
Ethyl tert-butyl ether	ND	0.50		µg/L	1	9/9/2010 10:13 AM
Ethylbenzene	ND	0.50		µg/L	1	9/9/2010 10:13 AM
m,p-Xylene	ND	1.0		µg/L	1	9/9/2010 10:13 AM
MTBE	ND	0.50		µg/L	1	9/9/2010 10:13 AM
o-Xylene	ND	0.50		µg/L	1	9/9/2010 10:13 AM
Tert-amyl methyl ether	ND	0.50		µg/L	1	9/9/2010 10:13 AM
Tert-Butanol	ND	10		µg/L	1	9/9/2010 10:13 AM
Toluene	ND	0.50		µg/L	1	9/9/2010 10:13 AM
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%REC	1	9/9/2010 10:13 AM
Surr: 4-Bromofluorobenzene	93.9	70-130		%REC	1	9/9/2010 10:13 AM
Surr: Dibromofluoromethane	95.0	70-130		%REC	1	9/9/2010 10:13 AM
Surr: Toluene-d8	104	70-130		%REC	1	9/9/2010 10:13 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

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CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WW

Sample ID: **MB-66679** SampType: **MBLK** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124838**
Client ID: **PBW** Batch ID: **66679** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **LCS-66679** SampType: **LCS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124838**
Client ID: **LCSW** Batch ID: **66679** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.028	0.0050	1.000	0	103	85	115				

Sample ID: **113587-001D-MS** SampType: **MS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124838**
Client ID: **ZZZZZZ** Batch ID: **66679** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.393	0.0050	2.500	0	95.7	71	121				

Sample ID: **113587-001D-MSD** SampType: **MSD** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124838**
Client ID: **ZZZZZZ** Batch ID: **66679** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.290	0.0050	2.500	0	91.6	71	121	2.393	4.37	20	

Sample ID: **113591-009C-DUP** SampType: **DUP** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124838**
Client ID: **MW-13** Batch ID: **66679** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WW

Sample ID: **LCS-66680** SampType: **LCS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124846**
Client ID: **LCSW** Batch ID: **66680** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.005	0.0050	1.000	0	100	85	115				

Sample ID: **MB-66680** SampType: **MBLK** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124846**
Client ID: **PBW** Batch ID: **66680** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: **113595-002A-MS** SampType: **MS** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124846**
Client ID: **ZZZZZZ** Batch ID: **66680** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.366	0.0050	2.500	0	94.6	71	121				

Sample ID: **113595-002A-MSD** SampType: **MSD** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124846**
Client ID: **ZZZZZZ** Batch ID: **66680** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.463	0.0050	2.500	0	98.5	71	121	2.366	4.05	20	

Sample ID: **113591-016C-DUP** SampType: **DUP** TestCode: **200.7_WW** Units: **mg/L** Prep Date: **9/8/2010** RunNo: **124846**
Client ID: **Equipment Blank** Batch ID: **66680** TestNo: **EPA 200.7** **EPA 3010A** Analysis Date: **9/9/2010** SeqNo: **2007318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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DO	Surrogate Diluted Out		Calculations are based on raw values		

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Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL LL

Sample ID: **MB-66670** SampType: **MBLK** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124791**
Client ID: **PBW** Batch ID: **66670** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/7/2010** SeqNo: **2006510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.080		0.08000		100	36	126				

Sample ID: **LCS-66670** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124791**
Client ID: **LCSW** Batch ID: **66670** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/7/2010** SeqNo: **2006511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.882	0.050	1.000	0	88.2	52	128				
Surr: p-Terphenyl	0.078		0.08000		97.8	36	126				

Sample ID: **MB-66670MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124791**
Client ID: **ZZZZZZ** Batch ID: **66670** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/7/2010** SeqNo: **2006512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.809	0.050	1.000	0	80.9	52	128				
Surr: p-Terphenyl	0.073		0.08000		91.5	36	126				

Sample ID: **MB-66670MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124791**
Client ID: **ZZZZZZ** Batch ID: **66670** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/7/2010** SeqNo: **2006513**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.926	0.050	1.000	0	92.6	52	128	0.8094	13.5	20	
Surr: p-Terphenyl	0.080		0.08000		100	36	126		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL LL

Sample ID: **MB-66671** SampType: **MBLK** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124787**
Client ID: **PBW** Batch ID: **66671** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/7/2010** SeqNo: **2006438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
Surr: p-Terphenyl	0.071		0.08000		88.2	36	126				

Sample ID: **LCS-66671** SampType: **LCS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124787**
Client ID: **LCSW** Batch ID: **66671** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/8/2010** SeqNo: **2006439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.869	0.050	1.000	0	86.9	52	128				
Surr: p-Terphenyl	0.074		0.08000		92.2	36	126				

Sample ID: **MB-66671MS** SampType: **MS** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124787**
Client ID: **ZZZZZZ** Batch ID: **66671** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/8/2010** SeqNo: **2006440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.869	0.050	1.000	0	86.9	52	128				
Surr: p-Terphenyl	0.077		0.08000		96.4	36	126				

Sample ID: **MB-66671MSD** SampType: **MSD** TestCode: **8015_W_DSL** Units: **mg/L** Prep Date: **9/7/2010** RunNo: **124787**
Client ID: **ZZZZZZ** Batch ID: **66671** TestNo: **EPA 8015B(M EPA 3510C** Analysis Date: **9/8/2010** SeqNo: **2006441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.909	0.050	1.000	0	90.9	52	128	0.8692	4.50	20	
Surr: p-Terphenyl	0.078		0.08000		97.3	36	126		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **M100903LCS2** SampType: **LCS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124730**
Client ID: **LCSW** Batch ID: **M10VW101** TestNo: **EPA 8015B(M** Analysis Date: **9/3/2010** SeqNo: **2005383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.970	0.050	1.000	0	97.0	70	130				
Surr: Bromofluorobenzene (FID)	95.275		100.0		95.3	70	130				

Sample ID: **M100903MB1MS** SampType: **MS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124730**
Client ID: **ZZZZZZ** Batch ID: **M10VW101** TestNo: **EPA 8015B(M** Analysis Date: **9/3/2010** SeqNo: **2005384**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.938	0.050	1.000	0	93.8	70	130				
Surr: Bromofluorobenzene (FID)	96.767		100.0		96.8	70	130				

Sample ID: **M100903MB1MSD** SampType: **MSD** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124730**
Client ID: **ZZZZZZ** Batch ID: **M10VW101** TestNo: **EPA 8015B(M** Analysis Date: **9/3/2010** SeqNo: **2005385**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.985	0.050	1.000	0	98.5	70	130	0.9380	4.89	20	
Surr: Bromofluorobenzene (FID)	95.296		100.0		95.3	70	130		0	0	

Sample ID: **M100903MB1** SampType: **MBLK** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124730**
Client ID: **PBW** Batch ID: **M10VW101** TestNo: **EPA 8015B(M** Analysis Date: **9/3/2010** SeqNo: **2005386**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	90.967		100.0		91.0	70	130				

Sample ID: **113591-001BDUP** SampType: **DUP** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124730**
Client ID: **MW-5** Batch ID: **M10VW101** TestNo: **EPA 8015B(M** Analysis Date: **9/3/2010** SeqNo: **2005393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **113591-001BDUP** SampType: **DUP** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124730**
Client ID: **MW-5** Batch ID: **M10VW101** TestNo: **EPA 8015B(M** Analysis Date: **9/3/2010** SeqNo: **2005393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	90.970		100.0		91.0	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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DO	Surrogate Diluted Out		Calculations are based on raw values		

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Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **M100907LCS2** SampType: **LCS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124767**
Client ID: **LCSW** Batch ID: **M10VW102** TestNo: **EPA 8015B(M** Analysis Date: **9/7/2010** SeqNo: **2006060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.955	0.050	1.000	0	95.5	70	130				
Surr: Bromofluorobenzene (FID)	95.032		100.0		95.0	70	130				

Sample ID: **M100907MB1MS** SampType: **MS** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124767**
Client ID: **ZZZZZZ** Batch ID: **M10VW102** TestNo: **EPA 8015B(M** Analysis Date: **9/7/2010** SeqNo: **2006061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.946	0.050	1.000	0	94.6	70	130				
Surr: Bromofluorobenzene (FID)	96.094		100.0		96.1	70	130				

Sample ID: **M100907MB1MSD** SampType: **MSD** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124767**
Client ID: **ZZZZZZ** Batch ID: **M10VW102** TestNo: **EPA 8015B(M** Analysis Date: **9/7/2010** SeqNo: **2006062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.959	0.050	1.000	0	95.9	70	130	0.9460	1.36	20	
Surr: Bromofluorobenzene (FID)	94.490		100.0		94.5	70	130		0	0	

Sample ID: **M100907MB1** SampType: **MBLK** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124767**
Client ID: **PBW** Batch ID: **M10VW102** TestNo: **EPA 8015B(M** Analysis Date: **9/7/2010** SeqNo: **2006063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	90.328		100.0		90.3	70	130				

Sample ID: **113591-016BDUP** SampType: **DUP** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124767**
Client ID: **Equipment Blank** Batch ID: **M10VW102** TestNo: **EPA 8015B(M** Analysis Date: **9/7/2010** SeqNo: **2006065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: **113591-016BDUP** SampType: **DUP** TestCode: **8015_W_GP** Units: **mg/L** Prep Date: RunNo: **124767**
Client ID: **Equipment Blank** Batch ID: **M10VW102** TestNo: **EPA 8015B(M** Analysis Date: **9/7/2010** SeqNo: **2006065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	91.480		100.0		91.5	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A10908LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **LCSW** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.330	0.50	20.00	0	112	70	130				
Benzene	41.110	0.50	40.00	0	103	70	130				
Chlorobenzene	20.430	0.50	20.00	0	102	70	130				
MTBE	22.020	0.50	20.00	0	110	70	130				
Toluene	43.050	0.50	40.00	0	108	70	130				
Trichloroethene	21.900	0.50	20.00	0	110	70	130				
Surr: 1,2-Dichloroethane-d4	24.480		25.00		97.9	70	130				
Surr: 4-Bromofluorobenzene	25.370		25.00		101	70	130				
Surr: Dibromofluoromethane	23.230		25.00		92.9	70	130				
Surr: Toluene-d8	26.050		25.00		104	70	130				

Sample ID: **A10908MB4MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **ZZZZZZ** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.970	0.50	40.00	0	97.4	70	130				
MTBE	20.530	0.50	20.00	0	103	70	130				
Toluene	41.160	0.50	40.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	23.400		25.00		93.6	70	130				
Surr: 4-Bromofluorobenzene	25.330		25.00		101	70	130				
Surr: Dibromofluoromethane	22.780		25.00		91.1	70	130				
Surr: Toluene-d8	25.820		25.00		103	70	130				

Sample ID: **A10908MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **ZZZZZZ** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.150	0.50	40.00	0	95.4	70	130	38.97	2.13	20	
MTBE	20.260	0.50	20.00	0	101	70	130	20.53	1.32	20	
Toluene	40.720	0.50	40.00	0	102	70	130	41.16	1.07	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A10908MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **ZZZZZZ** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	23.300		25.00		93.2	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.140		25.00		101	70	130		0	0	
Surr: Dibromofluoromethane	22.520		25.00		90.1	70	130		0	0	
Surr: Toluene-d8	25.770		25.00		103	70	130		0	0	

Sample ID: **A10908MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **PBW** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Di-isopropyl ether	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
MTBE	ND	0.50									
o-Xylene	ND	0.50									
Tert-amyl methyl ether	ND	0.50									
Tert-Butanol	ND	10									
Toluene	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.650		25.00		90.6	70	130				
Surr: 4-Bromofluorobenzene	23.990		25.00		96.0	70	130				
Surr: Dibromofluoromethane	21.460		25.00		85.8	70	130				
Surr: Toluene-d8	24.910		25.00		99.6	70	130				

Sample ID: **113591-001A** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **MW-5** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50						0	0	20	
Di-isopropyl ether	ND	0.50						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **113591-001A** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124819**
Client ID: **MW-5** Batch ID: **A10VW192** TestNo: **EPA 8260B** Analysis Date: **9/8/2010** SeqNo: **2006957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	ND	0.50						0	0	20	
Ethylbenzene	ND	0.50						0	0	20	
m,p-Xylene	ND	1.0						0	0	20	
MTBE	ND	0.50						0	0	20	
o-Xylene	ND	0.50						0	0	20	
Tert-amyl methyl ether	ND	0.50						0	0	20	
Tert-Butanol	ND	10						0	0	20	
Toluene	ND	0.50						0	0	20	
Surr: 1,2-Dichloroethane-d4	23.110		25.00		92.4	70	130		0	20	
Surr: 4-Bromofluorobenzene	24.430		25.00		97.7	70	130		0	20	
Surr: Dibromofluoromethane	22.760		25.00		91.0	70	130		0	20	
Surr: Toluene-d8	25.330		25.00		101	70	130		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A10909LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **LCSW** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007411**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.970	0.50	20.00	0	99.8	70	130				
Benzene	36.510	0.50	40.00	0	91.3	70	130				
Chlorobenzene	18.260	0.50	20.00	0	91.3	70	130				
MTBE	20.550	0.50	20.00	0	103	70	130				
Toluene	38.530	0.50	40.00	0	96.3	70	130				
Trichloroethene	17.550	0.50	20.00	0	87.8	70	130				
Surr: 1,2-Dichloroethane-d4	22.800		25.00		91.2	70	130				
Surr: 4-Bromofluorobenzene	23.750		25.00		95.0	70	130				
Surr: Dibromofluoromethane	21.850		25.00		87.4	70	130				
Surr: Toluene-d8	24.240		25.00		97.0	70	130				

Sample ID: **A10909MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **ZZZZZZ** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	34.370	0.50	40.00	0	85.9	70	130				
MTBE	20.920	0.50	20.00	0	105	70	130				
Toluene	36.470	0.50	40.00	0	91.2	70	130				
Surr: 1,2-Dichloroethane-d4	21.050		25.00		84.2	70	130				
Surr: 4-Bromofluorobenzene	24.000		25.00		96.0	70	130				
Surr: Dibromofluoromethane	19.480		25.00		77.9	70	130				
Surr: Toluene-d8	23.390		25.00		93.6	70	130				

Sample ID: **A10909MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **ZZZZZZ** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	35.340	0.50	40.00	0	88.4	70	130	34.37	2.78	20	
MTBE	20.120	0.50	20.00	0	101	70	130	20.92	3.90	20	
Toluene	37.970	0.50	40.00	0	94.9	70	130	36.47	4.03	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A10909MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **ZZZZZZ** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	22.220		25.00		88.9	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.540		25.00		94.2	70	130		0	0	
Surr: Dibromofluoromethane	21.780		25.00		87.1	70	130		0	0	
Surr: Toluene-d8	23.910		25.00		95.6	70	130		0	0	

Sample ID: **A10909MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **PBW** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Di-isopropyl ether	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
MTBE	ND	0.50									
o-Xylene	ND	0.50									
Tert-amyl methyl ether	ND	0.50									
Tert-Butanol	ND	10									
Toluene	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.180		25.00		88.7	70	130				
Surr: 4-Bromofluorobenzene	23.570		25.00		94.3	70	130				
Surr: Dibromofluoromethane	21.310		25.00		85.2	70	130				
Surr: Toluene-d8	24.110		25.00		96.4	70	130				

Sample ID: **113591-015A** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **DW-1** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50						0	0	20	
Di-isopropyl ether	ND	0.50						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **113591-015A** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124853**
Client ID: **DW-1** Batch ID: **A10VW193** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	ND	0.50						0	0	20	
Ethylbenzene	ND	0.50						0	0	20	
m,p-Xylene	ND	1.0						0	0	20	
MTBE	ND	0.50						0	0	20	
o-Xylene	ND	0.50						0	0	20	
Tert-amyl methyl ether	ND	0.50						0	0	20	
Tert-Butanol	ND	10						0	0	20	
Toluene	ND	0.50						0	0	20	
Surr: 1,2-Dichloroethane-d4	22.150		25.00		88.6	70	130		0	20	
Surr: 4-Bromofluorobenzene	22.890		25.00		91.6	70	130		0	20	
Surr: Dibromofluoromethane	22.350		25.00		89.4	70	130		0	20	
Surr: Toluene-d8	23.200		25.00		92.8	70	130		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Y100909LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **LCSW** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.650	0.50	20.00	0	88.2	70	130				
Benzene	41.130	0.50	40.00	0	103	70	130				
Chlorobenzene	19.710	0.50	20.00	0	98.6	70	130				
MTBE	20.150	0.50	20.00	0	101	70	130				
Toluene	41.550	0.50	40.00	0	104	70	130				
Trichloroethene	19.890	0.50	20.00	0	99.4	70	130				
Surr: 1,2-Dichloroethane-d4	23.960		25.00		95.8	70	130				
Surr: 4-Bromofluorobenzene	23.210		25.00		92.8	70	130				
Surr: Dibromofluoromethane	23.610		25.00		94.4	70	130				
Surr: Toluene-d8	26.830		25.00		107	70	130				

Sample ID: **Y100909MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **ZZZZZZ** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.610	0.50	40.00	0	99.0	70	130				
MTBE	19.080	0.50	20.00	0	95.4	70	130				
Toluene	40.000	0.50	40.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	22.070		25.00		88.3	70	130				
Surr: 4-Bromofluorobenzene	23.470		25.00		93.9	70	130				
Surr: Dibromofluoromethane	22.650		25.00		90.6	70	130				
Surr: Toluene-d8	26.010		25.00		104	70	130				

Sample ID: **Y100909MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **ZZZZZZ** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.990	0.50	40.00	0	100	70	130	39.61	0.955	20	
MTBE	18.450	0.50	20.00	0	92.2	70	130	19.08	3.36	20	
Toluene	39.250	0.50	40.00	0	98.1	70	130	40.00	1.89	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Y100909MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **ZZZZZZ** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	21.720		25.00		86.9	70	130		0	0	
Surr: 4-Bromofluorobenzene	22.940		25.00		91.8	70	130		0	0	
Surr: Dibromofluoromethane	23.130		25.00		92.5	70	130		0	0	
Surr: Toluene-d8	26.790		25.00		107	70	130		0	0	

Sample ID: **Y100909MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **PBW** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Di-isopropyl ether	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
MTBE	ND	0.50									
o-Xylene	ND	0.50									
Tert-amyl methyl ether	ND	0.50									
Tert-Butanol	ND	10									
Toluene	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.370		25.00		93.5	70	130				
Surr: 4-Bromofluorobenzene	24.220		25.00		96.9	70	130				
Surr: Dibromofluoromethane	23.250		25.00		93.0	70	130				
Surr: Toluene-d8	26.230		25.00		105	70	130				

Sample ID: **113591-004A** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **MW-7** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50						0	0	20	
Di-isopropyl ether	ND	0.50						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Geocon Consultants, Inc.
Work Order: 113591
Project: Lemon Cove M.S., S9200-06-21A

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **113591-004A** SampType: **DUP** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **124852**
Client ID: **MW-7** Batch ID: **Y10VW007** TestNo: **EPA 8260B** Analysis Date: **9/9/2010** SeqNo: **2007399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	ND	0.50						0	0	20	
Ethylbenzene	ND	0.50						0	0	20	
m,p-Xylene	ND	1.0						0	0	20	
MTBE	ND	0.50						0	0	20	
o-Xylene	ND	0.50						0	0	20	
Tert-amyl methyl ether	ND	0.50						0	0	20	
Tert-Butanol	ND	10						0	0	20	
Toluene	ND	0.50						0	0	20	
Surr: 1,2-Dichloroethane-d4	24.490		25.00		98.0	70	130		0	20	
Surr: 4-Bromofluorobenzene	22.600		25.00		90.4	70	130		0	20	
Surr: Dibromofluoromethane	23.190		25.00		92.8	70	130		0	20	
Surr: Toluene-d8	25.960		25.00		104	70	130		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: 9/3/10

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: GSO

Sample Condition Upon Receipt: 4.8 5.0
1. CHILLED Y ☑ N ☐
2. HEADSPACE (VOA) Y ☑ N ☐
3. CONTAINER INTACT Y ☑ N ☐
4. SEALED Y ☐ N ☑
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☑ N ☐

Client: GEOCON CONSULTANTS, INC.
Attn: R. Silva
Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: Lemon Cove M.S. Project #: 59200-06-21A Sampler: (Printed Name) J. Esquivel (Signature)

Relinquished by: (Signature and Printed Name) J. Esquivel	Date: 9/2/10	Time: 1230	Received by: (Signature and Printed Name) GSO	Date: 9/2/10	Time: 1630
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) Marge	Date: 9/3/10	Time: 9:15
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: R. Silva 9/2/10
Print Name Date
Signature

Send Report To: Attn: R. Silva Co: _____ Address _____ City _____ State _____ Zip _____

Bill To: Attn: _____ Co: _____ Address _____ City _____ State _____ Zip _____

Special Instructions/Comments: Caltrans Contract #06A1141
Global ID # T0610700028
Send Report : EDF to Sacramento@geocon
T.O. #21

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

QA/QC: RTNE ☐ CT ☒ SWRCB ☐ Logcode _____ OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / BTEX	8015B (DRO)	TPHg	BTEX / FOCs (8260)	TPHd (8015B)	Total Lead (200.7)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	113591-001	MW-5	9/2/10	9:50								X	X				X			E	4	V G	H	
		↓		↓										X			↓			↓	1	L G	C	
															X						1	P	C	
	2	MW-4		12:10								X	X								4	V G	H	
		↓		↓										X							1	L G	C	
															X						1	P	C	
	3	MW-14		12:30								X	X								4	V G	H	
		↓		↓										X							1	L G	C	
															X						1	P	C	

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Client: GEOCON CONSULTANTS, INC.
Attn: R. Silva

Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742

TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: Lemon Cove M.S. Project #: S9200-06-21A Sampler: (Printed Name) J. Esquivel (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
J. Esquivel	9/2/10	1230	GSO.	9/2/10	1630
			Marg	9/3/10	915

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	113591- 4	MW-7	9/1/10	1250								X	X				X			E	4	VG	H	
														X							1	LG	C	
															X						1	P	C	
	5	MW-8		1320								X	X								4	VG	H	
														X							1	LG	C	
															X						1	P	C	
	6	MW-6		1340								X	X								4	VG	H	
														X							1	LG	C	
															X						1	P	C	

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FAX: (916) 852-9132

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			Margi	9/3/10	915

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	113591 - 7	MW-9	9/1/10	1405								X	X				X			E	4	VG	H	
		↓		↓										X							1	LG	C	
															X						1	P	C	
	8	MW-11		1445								X	X								4	VG	H	
		↓		↓										X							1	LG	C	
															X						1	P	C	
	9	MW-13		1415								X	X								4	VG	H	
		↓		↓										X							1	LG	C	
															X						1	P	C	

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3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: GEOCON CONSULTANTS, INC.
Attn: R. Silva
Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: Lemon Cove M.S. Project #: 59200-06-21A Sampler: (Printed Name) J. Esquivel (Signature)

Relinquished by: (Signature and Printed Name) J. Esquivel Date: 9/2/10 Time: 1230 Received by: (Signature and Printed Name) GSO. Marg Date: 9/2/10 Time: 1630
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 9/3/10 Time: 915
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

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	113591-10	MW-12	9/1/10	1515							X	X				X			E	4	VG	H	
													X							1	LG	C	
														X						1	P	C	
	11	MW-15		1525							X	X								4	VG	H	
													X							1	LG	C	
														X						1	P	C	
	12	MW-3		1600							X	X								4	VG	H	
													X							1	LG	C	
														X						1	P	C	

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Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

QA/QC: RTNE ☐ CT ☒ SWRCB ☐ Logcode _____ OTHER _____

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Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

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Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
J. Esquivel	9/2/10	1230	GSO	9/2/10	1630
			Margo	9/3/10	915

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	113591-13	MW-1	9/1/10	1635								X	X				X			E	4	V	G	H
		↓	↓	↓										X			↓			↓	1	L	G	C
															X						1		P	C
	14	MW-2		1645								X	X								4	V	G	H
		↓		↓										X							1	L	G	C
															X						1		P	C
	15	DW-1		1650								X	X								4	V	G	H
		↓	↓	↓										X			↓			↓	1	L	G	C
															X						1		P	C

Q A / Q C: RTNE ☐ CT ☒ SWRCB ☐ Logcode _____ OTHER _____

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			Mrgo	9/3/10	915

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	113591-16	Equipment Blank	9/1/10	1700								X	X					X			E	4	VG	H	
	↓	↓	↓	↓										X				↓			↓	1	LG	C	
															X							1	P	C	
	17	Trip Blank	↓	1130								X	X					↓			↓	2	VG	H	

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3. RISK EVALUATION REPORT

FINAL

ENVIRONMENTAL RESOURCES MANAGEMENT

Caltrans

Risk Evaluation Report
Lemon Cove Maintenance Station
Tulare County, California

June 2003

Project No. 5209.00

Environmental Resources Management
1809 N. Helm Street, Suite 4
Fresno, California 93727

ERM

FINAL

Caltrans

Risk Evaluation Report
Lemon Cove Maintenance Station
Tulare County, California

June 2003 ; 6/30/03

Project No. 5209.00

Patrick E. Galvin, P.E.
Principal in Charge

Robin A. Streeter
Task Manager

Heather D. Lee, P.E.
Project Engineer

Environmental Resources Management
1809 N. Helm Street, Suite 4
Fresno, California 93727

TABLE OF CONTENTS

LIST OF FIGURES iii

LIST OF TABLES iii

LIST OF ACRONYMS iv

1.0 *INTRODUCTION* 1

1.1 *SITE LOCATION* 1

1.2 *PROJECT BACKGROUND* 2
1.2.1 *Underground Storage Tank History* 2
1.2.2 *Investigation History* 2
1.2.3 *Extent of Contamination* 3

1.3 *DOCUMENT ORGANIZATION* 4

2.0 *INTRINSIC BIOREMEIDATION EVALUATION* 5

2.1 *IINTRINSIC BIOREMEDIATION THEORY AND CAPACITY ESTIMATION* 5
2.1.1 *Intrinsic Bioremediation Capacity Estimation* 6

2.2 *DATA ANALYSIS* 8

3.0 *SOIL* 10

3.1 *IDENTIFICATION OF POTENTIAL EXPOSURE PATHWAYS* 10
3.1.1 *Land Use* 10
3.1.2 *Other Potential Exposure Pathways* 12

3.2 *DEVELOPMENT OF SITE-SPECIFIC RISK-BASED SCREENING LEVELS* 13

3.3 *DATA COMPARISION* 14
3.3.1 *Maintenance Worker Scenario* 14
3.3.2 *Construction Worker Scenario* 15

4.0 GROUNDWATER 17

4.1 IDENTIFICATION OF POTENTIAL EXPOSURE PATHWAYS 17

4.2 DEVELOPMENT OF SCREENING LEVELS 18

4.3 DATA COMPARISON 19

5.0 SUMMARY AND CONCLUSIONS 20

5.1 INTRINSIC BIOREMEDIATION EVALUATION 20

5.2 RISK-BASED CORRECTIVE ACTION ANALYSIS - SOIL 20
5.2.1 Maintenance Worker 20
5.2.2 Construction Worker 21

5.3 RISK-BASED CORRECTIVE ACTION ANALYSIS - GROUNDWATER 21

5.4 CONCLUSIONS 21

6.0 RECOMMENDATIONS 22

6.1 WASH RACK DRAINAGE AREA SOIL 22

6.2 FORMER UNDERGROUND STORAGE TANK AREA SOIL 22

6.3 GROUNDWATER 23

6.4 ORC® PILOT STUDY ACTIVITIES 23

7.0 REFERENCES 25

APPENDIX A — SOIL AND GROUNDWATER DATA TABLES

APPENDIX B — CALCULATION OF RISK-BASED SCREENING LEVELS

LIST OF FIGURES

(Figures immediately follow the text)

1 *Site Location Map*

2 *Site Detail Map*

LIST OF TABLES

(Tables immediately follow the figures)

1 *Estimate of Biodegradation Capacity for Petroleum Hydrocarbons Based on Benzene – March 2003 Sampling Event*

2 *Estimate of Biodegradation Capacity for Petroleum Hydrocarbons Based on Benzene – May 2003 Sampling Event*

3 *Comparison of Surface Soil Data to Screening Levels - Maintenance Worker Scenario*

4 *Comparison of Soil Data (All Depths) to Screening Levels - Construction Worker Scenario*

5 *Comparison of Metals Data to Typical Background Concentrations*

6 *Comparison of Groundwater Data to Screening Levels – Residential Scenario*

LIST OF ACRONYMS

AFCEE	Air Force Committee for Environmental Excellence
AST	Aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
Caltrans	California Department of Transportation
CO_2	Carbon dioxide
CVRWQCB	California Regional Water Quality Control Board – Central Valley Region
ERM	Environmental Resources Management
GAC	Granular activated carbon
IBR	Intrinsic bioremediation
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
OEHHA	Office of Environmental Health Assessment
PAH	Polynuclear aromatic hydrocarbon
ppm	Parts per million
PRG	Preliminary remediation goal
RAOR	Remedial Action Options Report
RBCA	Risk-Based Corrective Action
redox	Reduction/oxidation
RfD	Reference dose
SFRWQCB	California Regional Water Quality Control Board – San Francisco Region
SOP	Standard Operating Procedure
TCEHD	Tulare County Environmental Health Department
TPH-D	Total petroleum hydrocarbons as diesel
TPH-G	Total petroleum hydrocarbons as gasoline
TRPH	Total recoverable petroleum hydrocarbons

USEPA	United States Environmental Protection Agency
UST	Underground storage tank
VOC	Volatile organic compound

1.0 INTRODUCTION

On behalf of the California Department of Transportation (Caltrans), Environmental Resources Management (ERM) has prepared this *Risk Evaluation Report* for the Lemon Cove Maintenance Station (site), Tulare County, California. This risk evaluation includes an intrinsic bioremediation (IBR) evaluation for site groundwater, a risk-based corrective action (RBCA) analysis for soil, and a RBCA analysis for groundwater. ERM developed the RBCA analyses using the methodologies outlined by the American Society for Testing and Materials (ASTM) and described in their *Standard for Risk-Based Corrective Action Applied at Petroleum Release Sites* (ASTM, 1995).[1] This work is being completed in accordance with the *Groundwater Monitoring and Risk Evaluation Workplan* (ERM, 2003a) submitted to the Tulare County Environmental Health Department (TCEHD) in March 2003.

The following subsections describe the site background and the general approach to conducting the analyses. The final subsection outlines the organization of the remaining sections of this report.

1.1 SITE LOCATION

The site is a Caltrans maintenance yard on an 0.6-acre parcel on County Road 248 in Lemon Cove, California (Figure 1). The site contains an office, two warehouses, wash rack, shed, two fuel aboveground storage tanks (ASTs), propane AST, and two storage bins (Figure 2). Operations at the site support road maintenance in the surrounding area, including road construction and repair. Property use adjacent to this site includes: agricultural use to the east and west, residential development to the south, and light industrial use to the north (Sequoia Orange Company).

---

[1] In July 1998, ASTM issued a *Standard Provisional Guide for Risk-Based Corrective Action*, which broadened the scope of the RBCA methodology to constituents other than those typically found at petroleum release sites. The methodology in the provisional guidance is consistent with the ASTM *Standard for Risk-Based Corrective Action Applied at Petroleum Release Sites*. Thus, the latter document remains the primary reference for the RBCA methodology used in this report.

1.2 PROJECT BACKGROUND

The following sections present the underground storage tank (UST) and the investigative histories for the site.

1.2.1 *Underground Storage Tank History*

Three fuel USTs and a pump house were formerly located at the site. The USTs, reportedly installed in 1935, consisted of three single-wall steel tanks (a 1,000-gallon diesel tank; a 1,000-gallon gasoline tank; and a 250-gallon waste oil tank subsequently converted to kerosene). The USTs, product lines, and fuel dispensers were removed in 1987. Soil samples collected from the excavation detected total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) at concentrations up to 4,800 and 3,400 milligrams per kilogram (mg/kg), respectively. Benzene was detected at concentrations up to 100 mg/kg and lead was detected up to 12 mg/kg. The excavation was reportedly backfilled with excavated soil and imported road base material.

1.2.2 *Investigation History*

From 1988 through 1994, various investigations were conducted to assess the extent of soil and groundwater impacts associated with the former tanks. During this time, 22 soil borings were completed, monitoring wells MW-1 through MW-14 were installed, and a soil gas survey was performed. Approximately one-quarter inch of free product was measured on the groundwater surface in well MW-2 at the time it was installed. In 1993, Alisto Engineering Group prepared a *Feasibility Study and Remedial Work Plan*. The feasibility study included an aquifer pump test and a vapor extraction test. The results from these tests were used to design a groundwater remediation system. The groundwater treatment system was approved by the TCEHD in 1994.

In 1994, a groundwater extraction/treatment system, including extraction wells MW-15, MW-16, MW-17, and MW-18, was installed at the site (Figure 2). This system used four 200-pound granular activated carbon (GAC) canisters for treatment of extracted groundwater. Treated water was discharged to an on-site infiltration/injection trench installed parallel to the northern portion of the site. This discharge was performed under California Regional Water Quality Control Board - Central Valley Region (CVRWQCB), Waste Discharge Requirements, General Order No. 91-25014, issued on 14 November 1994. The groundwater extraction/treatment system operated from March 1995 through

June 1996, and treated approximately 1,376,893 gallons of water. The average flow rate was 4.6 gallons per minute, with an average influent concentration of 2,200 micrograms per liter TPH-G. Based on the average flow rate and influent concentration, approximately 97 pounds of TPH-G was removed from groundwater by the system.

Since 1996, periodic groundwater monitoring of wells MW-1 through MW-14 and the domestic well (DW-1) has been performed.

1.2.3 *Extent of Contamination*

In December 2000, Geocon Consultants, Inc., prepared a *Remedial Action Options Report* (RAOR) (Geocon, 2000). The RAOR included a summary of previous investigations at the site, delineated the extent of TPH impacts, and evaluated several potential soil and groundwater remedial options for the site.

According to Geocon, the data from soil boring and UST removal provide adequate delineation of the TPH-G and TPH-D impacts in site soil. In addition, Geocon noted that the samples collected from on-site groundwater monitoring wells and domestic well provide a reasonable delineation of the dissolved hydrocarbons beneath the site. The extent of the soil impacts for the UST area and the wash rack drainage ditch are discussed independently below.

1.2.3.1 *Underground Storage Tank Area*

Based on laboratory analytical results, the majority of the TPH-G soil impact exists beneath the current groundwater table, primarily beneath the former USTs. The TPH-G soil impacts (≥ 1 parts per million [ppm]) extend approximately 35 feet to the south and north, 60 feet to the west, and 25 feet to the east of the source location. The majority of the TPH-G mass exists between the depths of 10 and 15 feet below ground surface (bgs) (water table at approximately 10 feet bgs), with lesser amounts present between 5 and 10 feet bgs. Assuming a 10-foot vertical thickness, the associated volume of impacted soil is estimated to be 2,000 cubic yards and is limited to within the Caltrans yard (Geocon, 2000).

The distribution of the TPH-D impacted soil appears very similar to that of the TPH-G impacted soil, with the majority of the mass beneath the current water table. The TPH-D soil impacts (≥ 1 ppm) extend laterally approximately 55 feet to the west, 40 feet to the north, 25 feet to the south, and 20 feet to the east. Assuming a 10-foot vertical thickness, the

associated volume of impacted soil is estimated to be 1,725 cubic yards and is limited to within the Caltrans yard (Geocon, 2000).

1.2.3.2 *Wash Rack Drainage Ditch*

Based on laboratory analytical results, soil in the wash rack drainage ditch outside the site is impacted with total recoverable petroleum hydrocarbons (TRPH). The majority of the TRPH-impacted soil exists in surface soil extending approximately 30 feet beyond the western site fence line. The TRPH concentrations decrease rapidly with depth, typically to less than 50 mg/kg. Assuming a 2-foot-vertical thickness, the associated volume of impacted soil is estimated to be 30 cubic yards (Geocon, 2000).

1.2.3.3 *Groundwater*

Based on monitoring well data collected prior to preparation of the RAOR, the petroleum hydrocarbon plume extended approximately 160 feet downgradient from the former UST source location. The greatest TPH-G and TPH-D impacts (>100 milligrams per liter [mg/L]) are concentrated near wells MW-2 and MW-13, approximately 35 feet downgradient of the former USTs (Geocon, 2000). The flow direction of first encountered groundwater beneath the site has been generally toward the southwest, but ranges from west to southeast.

1.3 *DOCUMENT ORGANIZATION*

The remaining sections of this report are organized as follows:

- Section 2 – Presents the IBR evaluation
- Section 3 - Presents the RBCA analysis for soil;
- Section 4 – Presents the RBCA analysis for groundwater;
- Section 5 – Summarizes the results and conclusions of the RBCA analysis and IBR evaluation;
- Section 6 – Summarizes ERM's recommendations for site activities and the ORC® injection pilot study activities; and
- Section 7– Lists the references.

Figures and tables referenced in the text are presented after Section 7. Appendix A includes the soil and groundwater data for the site. Appendix B includes the calculations for the RBCA analysis.

2.0 *INTRINSIC BIOREMEIDATION EVALUATION*

This section provides the results of the IBR evaluation conducted during the first and second quarter 2003 sampling events at the Caltrans Lemon Cove Maintenance Station. Included in this presentation are the theory and methodology behind IBR and data analysis drawn specifically for this site.

IBR uses the capacity of naturally occurring microbes to degrade petroleum hydrocarbons that have been released into an aquifer. IBR capacity depends on the metabolic capabilities of native microbes and the hydrology and geochemistry of the aquifer. The process of "natural attenuation" refers to the actual physical, chemical, and biological processes that facilitate intrinsic remediation. Of these processes, biodegradation is typically the primary mechanism that attenuates groundwater plumes by transforming contaminants into predominantly innocuous byproducts. More detailed IBR theory for petroleum hydrocarbons is presented below.

2.1 *IINTRINSIC BIOREMEDIATION THEORY AND CAPACITY ESTIMATION*

During biodegradation, microbes transform available nutrients into forms useful for energy and cell reproduction through the transfer of electrons. Biologically mediated reactions are reduction/oxidation (redox) reactions, involving the transfer of electrons from the organic compound to an electron acceptor. In the case of petroleum hydrocarbons, the organic compound is the electron donor and, therefore, is oxidized during IBR. Dissolved oxygen is the electron acceptor for aerobic metabolism, whereas nitrate, manganese (IV), iron (III), sulfate, and carbon dioxide (CO_2) serve as electron acceptors for alternative anaerobic pathways. The biochemical energy level associated with different degradation pathways is directly reflected in the redox potential value associated with that pathway. In general, biochemical mechanisms having very similar energy potentials are observed to occur concurrently (such as oxygen and nitrate reactions, and sulfate and CO_2 reactions).

Thus, the general approach taken to evaluate an aquifer's IBR behavior is to analyze different areas of a hydrocarbon plume for indicators of certain degradation pathways. Indicators include microbial activity, oxygen,

redox potential, concentrations of specific electron acceptors, and metabolic byproducts. The results are used to estimate the inherent capacity of an aquifer to degrade contaminants.

The amount of biodegradation supported by groundwater moving through the zone of chemical impact is calculated based on the following rationale:

- Groundwater upgradient of the source contains electron acceptors.
- As the upgradient groundwater moves through the source zone, free-phase petroleum product and contaminated soil release hydrocarbons to the water.
- Biodegradation reactions occur in the source zone and downgradient of the source zone until the available electron acceptors are consumed. The reactions result in decreased concentrations of electron acceptors and increased concentrations of metabolic byproducts in the groundwater.

As dissolved petroleum hydrocarbons are biodegraded, the microbially mediated reactions that cause biodegradation produce CO_2 (Air Force Committee for Environmental Excellence [AFCEE], 1995).

The method for estimating IBR capacity of an aquifer to degrade fuel contaminants uses changes in individual electron acceptors and metabolic byproducts to determine the amount of petroleum hydrocarbons degraded through each metabolic pathway.

2.1.1 *Intrinsic Bioremediation Capacity Estimation*

A decrease in electron acceptor concentrations and an increase in metabolic byproduct concentrations in the source zone of a dissolved hydrocarbon plume relative to background conditions can be related to the mass of hydrocarbons degraded per unit volume of groundwater by the utilization factors described below. Using stoichiometry, utilization factors can be derived from balanced redox reactions for the biodegradation of petroleum hydrocarbons showing the ratios of mass of electron acceptors consumed and metabolic byproducts produced to the mass of dissolved hydrocarbons degraded (AFCEE, 1995). It should be noted that the intrinsic capacity applies to all bio-available petroleum hydrocarbons, which include gasoline as well as diesel-range hydrocarbons. The utilization factors presented below are derived from

the following reactions based on the degradation of benzene (C_6H_6), which is a relatively toxic and mobile compound found in gasoline:

1. $7.5\ O_2 + C_6H_6 \rightarrow 6\ CO_2 + 3\ H_2O$

2. $6\ NO_3^- + C_6H_6 + 6\ H^+ \rightarrow 6\ CO_2 + 3\ N_2 + 6\ H_2O$

3. $30\ Fe(OH)_3 + C_6H_6 + 60\ H^+ \rightarrow 6\ CO_2 + 30\ Fe^{2+} + 78\ H_2O$

4. $3.75\ SO_4^{2-} + C_6H_6 + 7.5\ H^+ \rightarrow 6\ CO_2 + 3.75\ H_2S^o + 3\ H_2O$

5. $C_6H_6 + 4.5\ H_2O \rightarrow 2.25\ CO_2 + 3.75\ CH_4$

Electron Acceptor/Metabolic Byproduct	Utilization Factor (gram for gram C_6H_6)
Oxygen	3.08
Nitrate	4.77
Iron (II)	21.54
Sulfate	4.62
Methane	0.77

For a given background and source zone concentration of each individual electron acceptor and metabolic byproduct, the mass of petroleum hydrocarbons degraded per unit volume of groundwater in the source zone (the "IBR capacity") can be estimated by dividing the difference between the background and source zone concentrations by the corresponding utilization factor (United States Environmental Protection Agency [USEPA], 1996).

$$\beta = \frac{1}{3.08}\left[O_{2B} - O_{2source}\right] + \frac{1}{4.77}\left[N_B - N_{source}\right] + \frac{1}{4.62}\left[S_B - S_{source}\right] + \frac{1}{21.54}\left[Fe_{source} - Fe_B\right] + \frac{1}{0.77}\left[CH_{4source} - CH_{4B}\right]$$

where:

β = Biodegradation Capacity (mg/L)

O_{2B} = Background Dissolved Oxygen Concentration (mg/L)

$O_{2\,source}$ = Average Source Zone Dissolved Oxygen Concentration (mg/L)

N_B = Background Nitrate Concentration (mg/L)

N_{source}= Average Source Zone Nitrate Concentration (mg/L)

S_B = Background Sulfate Concentration (mg/L)

S_{source} = Average Source Zone Sulfate Concentration (mg/L)

Fe_{source} = Source Zone Iron (II) Concentration (mg/L)

Fe_B = Background Iron (II) Concentration (mg/L)

$CH_{4\,source}$ = Source Zone Methane Concentration (mg/L)

$CH_{4\,B}$ = Background Methane Concentration (mg/L)

2.2 *DATA ANALYSIS*

Appropriate site-specific IBR data collected during the March and May 2003 sampling events are presented in Appendix A (Table A-6). This analysis uses the specific pathway method described above, which quantifies the biodegradation capacity of petroleum hydrocarbons to estimate the IBR capacity at the site. As detailed above, this method uses stoichiometry to relate the observed production of iron and methane in the source zone of a dissolved hydrocarbon plume to the estimated mass of hydrocarbons degraded through aerobic respiration, denitrification, iron reduction, manganese reduction, and sulfate reduction.

The electron acceptor and metabolic byproduct concentrations generally follow the expected pattern at the site, with decreased concentrations of electron acceptors and increased concentrations of metabolic byproducts within the source zone with respect to background concentrations.

The plume area supports a significant amount of IBR activity. The IBR capacity, defined as the contaminant mass biodegraded per unit volume of upgradient groundwater moving through the source zone, is estimated to be 27.8 mg/L (Table 1) and 30.2 mg/L (Table 2) based on benzene, for the March and May 2003 sampling events, respectively. These estimates are based on the measured parameters upgradient (MW-5) and the average of two source zone (MW-1 and MW-2) locations during both sampling events. The calculated IBR capacities are in the range of typical IBR capacities for petroleum-contaminated sites (7.2 to 70.5 mg/L; USEPA, 1996).

It should be noted that although the noted IBR capacity is based on benzene, all bio-available petroleum hydrocarbons (most of gasoline- and diesel-range compounds) are readily biodegradable. The numeric value of IBR capacity differs only marginally if either xylene or dodecane (a proxy chemical for diesel) is used for writing electron acceptor-specific balanced equations for biodegradation and estimating IBR capacity. Thus, at the subject site both diesel- and gasoline-range petroleum compounds are anticipated to attenuate due to natural degradation mechanisms.

3.0 SOIL

In assessing the significance of reported constituent concentrations in soil, this RBCA analysis followed the general methodology described by ASTM for the evaluation of petroleum release sites. This methodology emphasizes the use of realistic exposure information to identify potential exposure pathways and develop site-specific screening levels. Analytical data are then compared to the screening levels to determine the significance of residual constituent concentrations.

The RBCA analysis on soil was conducted in three steps:

1. Potential exposure pathways associated with soil were defined, based on current and realistic future land use;
2. Screening levels were derived for each of the exposure pathways defined in the previous step; and
3. Reported constituent concentrations were then compared to these site-specific screening levels.

Each of these steps is described in the following sections.

3.1 *IDENTIFICATION OF POTENTIAL EXPOSURE PATHWAYS*

As discussed below, the identification of potential exposure pathways is based primarily on an evaluation of potential exposures by human receptors under current and realistic future land uses for the site. Other potential exposure pathways related to the off-site migration of chemical constituents and to exposures by ecological receptors are also considered in this section.

3.1.1 *Land Use*

Operations at the site support road maintenance in the surrounding area, including road construction and repair. There are no known plans to cease operation or alter land use at the site in the foreseeable future. Thus, land use at the Maintenance Station involves industrial activities under both current and realistic future uses of the site. Property use adjacent to this site includes: agricultural to the east and west, residential to the south, and light industrial to the north.

Based on this land use information and the types of constituents present, the following receptor populations and attendant exposure pathways have been identified for site surface soil:

- **Maintenance workers:** occasional direct contact (i.e., incidental ingestion and dermal contact) with surface soil and inhalation fugitive dust released from surface soil;[2] and
- **Off-site populations:** inhalation of fugitive dust released from surface soil (off-site populations may include nearby residents, passers-by, etc.).

Of these populations, Caltrans personnel working at the Maintenance Station are expected to have the greatest opportunity for exposure to surface soil constituents. Thus, the RBCA analysis focused on the maintenance workers in the development of risk-based screening levels for surface soil evaluation. The surface soil data collected from the wash rack drainage area (Table A-1) were used for this analysis.

In addition to the exposures to surface soil considered above, occasional exposures to both surface and subsurface soil may also occur during future excavations or other intrusive activities. Thus, the following additional exposures were identified for surface and subsurface soil:

- **Construction workers:** direct contact with soil, inhalation of volatile organic compounds (VOCs), and inhalation of fugitive dust released from disturbed soil; and
- **Off-site populations:** inhalation of VOCs and fugitive dust released from soil during construction activities.

Again, construction workers are expected to have a much greater opportunity for exposure to soil constituents than off-site populations during excavation, construction, or other intrusive activity. Thus, the development of risk-based screening levels for subsurface soil focused on construction workers. Because construction activities may involve exposures to both surface and subsurface soil, data collected from both the wash rack drainage area and the UST area (Table A-2) were used for this analysis.

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[2] No VOCs were detected in surface soil. In addition, given the age of the petroleum hydrocarbon contamination at this site, it is unlikely that significant volatile fractions are associated with the detected TRPH.

3.1.2 *Other Potential Exposure Pathways*

This discussion evaluates the significance of several additional exposure pathways for soil, as listed below:

- Migration of VOCs in subsurface soil to indoor air;
- Migration of VOCs in subsurface soil to ambient air (undisturbed conditions);
- Leaching of soil constituents to groundwater;
- Transport of soil constituents to surface water via surface water runoff; and
- Potential exposures by ecological receptors.

3.1.2.1 *Migration of VOCs in Subsurface Soil to Indoor Air*

No VOCs were detected in subsurface soil samples collected near the existing buildings, and no additional buildings are planned for this site. In addition, elevated levels of VOCs in subsurface soil were generally associated with the deepest soil samples, and may reflect groundwater contamination rather than soil contamination. For these reasons, the migration of VOCs in subsurface soil to indoor air was considered an incomplete pathway for this analysis.

3.1.2.2 *Migration of VOCs in Subsurface Soil to Ambient Air (Undisturbed Conditions)*

Detections of VOCs in subsurface soil were generally localized and confined to deeper soil. For these reasons, significant migration of VOCs from subsurface soil to ambient air is only expected to occur when subsurface soils are disturbed (e.g., during excavation).

3.1.2.3 *Leaching of Soil Constituents*

The potential for soil constituents to leach to groundwater was identified as a potential exposure pathway. Evaluation of the leaching pathway was performed using groundwater data (see Section 4.0) collected from site monitoring wells and the on-site domestic well. Typically, groundwater analytical data are preferred over modeling, because groundwater data provide a better indicator of actual site conditions.

3.1.2.4 *Surface Water Runoff*

Surface runoff from the site was not considered a potential exposure pathway, based on the following:

- There are no surface water bodies present in the immediate vicinity of the site (the nearest body of surface water is the Kaweah River, approximately 3,000 feet to the west of the site); and
- The areas of soil impact are small, especially within the former wash rack drainage ditch area where surficial soil has been affected.

3.1.2.5 *Potential Exposure by Ecological Receptors*

Exposures by ecological receptors were also not considered in this analysis for the following reasons:

- Current and realistic future uses of the site are industrial, thus limiting the types of potential habitat that the site affords ecological receptors; and
- The areas of soil impact are generally localized, particularly with respect to surficial soil contamination, and this also serves to limit potential exposure by ecological receptors.

3.2 *DEVELOPMENT OF SITE-SPECIFIC RISK-BASED SCREENING LEVELS*

Risk-based screening levels were developed for each of the two receptor populations (i.e., maintenance workers and construction workers) defined above. Calculation of the levels followed USEPA and ASTM guidance. These screening levels utilized generic assumptions developed by USEPA for the majority of exposure parameters. Generic factors developed by USEPA were also used to assess chemical fate in the environment (i.e., volatilization and fugitive dust generation). However, in the calculation of screening levels for construction workers, site-specific assumptions were used for the exposure frequency and exposure duration terms to reflect the fact that daily or routine exposures are not expected to occur under current and realistic future use conditions.

Toxicity information used in the calculation of screening levels for specific constituents was based on current data from the Office of Environmental Health Hazard Assessment (OEHHA) and the USEPA. Specifically, the evaluation of noncarcinogenic risk relied on reference doses (RfDs)

developed by USEPA, and the evaluation of carcinogenic risk utilized carcinogenic slope factors developed by OEHHA and USEPA. Route to route extrapolations were used to derive toxicity indices for the inhalation route of exposure in cases where no route-specific information was available. For those constituents lacking toxicity indices, values for structurally similar surrogate compounds were selected. For petroleum hydrocarbon mixtures (TRPH), toxicity information for pyrene was utilized, in accordance with methodologies developed by the Massachusetts Department of Environmental Protection (1994) and the TPH Criteria Working Group (Edwards, 1997).

Detailed screening level calculations are presented in Appendix B. The resulting screening levels are presented in Tables 3 and 4 for maintenance and construction workers, respectively.

3.3 *DATA COMPARISION*

The maximum soil concentrations for the maintenance worker and the construction worker were compared to the risk-based screening levels developed for each exposure scenario. The following screening levels are also presented for comparison (Tables 3 and 4):

- Region IX preliminary remediation goals (PRGs), industrial and residential (USEPA, 2002); and
- California Regional Water Quality Control Board - San Francisco Region (SFRWQCB) Risk-Based Screening Levels, industrial and residential (SFRWQCB, 2001).

3.3.1 *Maintenance Worker Scenario*

As shown in Table 3, all maximum reported constituent concentrations in surface soil are less than the screening levels developed for maintenance workers, with the exception of TRPH. The maximum concentration for TRPH of 50,000 mg/kg exceeds both site-specific risk-based screening levels and the SFRWQCB values. Thus, based on this comparison, surface soil may pose an unacceptable risk based on current and realistic future use conditions.

In considering the results of this comparison, it should be emphasized that the screening levels used in this analysis represent conservative (i.e., health-protective) criteria. Sources of this conservatism include the following:

- The opportunity for exposure to this soil is small, in light of the current and realistic future use of this area. Thus, the exposure frequency assumptions used in the development of screening levels are expected to overestimate the actual potential for exposure.
- The areas of affected soil are small, further limiting the potential for significant exposure.
- TRPH results may reflect naturally occurring organic material, as well as petroleum hydrocarbon contamination; thus, actual levels of petroleum hydrocarbon contamination may be less than the detected concentrations.
- The maximum concentration detected was reported within one sample in 1994. All other 1994 TRPH concentrations were below all screening levels. Three of the 1991 samples also contained concentrations above the PRGs and SFRWQCB screening levels, however, these areas were resampled in 1994, and the more recent results were less than all risk-based screening levels.
- The metals concentrations detected within the wash rack drainage area were compared to background concentrations (Table 5). All of the maximum concentrations[3] were below typical background levels (Kearney, 1996 and Shacklette, H.T., and J.G. Boerngen. 1984).

3.3.2 *Construction Worker Scenario*

As shown in Table 4, comparison of the maximum reported constituent concentrations in surface and subsurface soil to the screening levels for the construction worker scenario indicates that toluene, ethylbenzene, xylene, TPH-G, and TPH-D exceeded their respective PRGs and SFRWQCB screening levels. However, none of these constituents exceeded their respective site-specific screening levels.

The maximum concentration of benzene exceeded all of its screening levels. Therefore, comparison of the soil data to risk-based screening levels indicates that constituents in subsurface soil may pose an unacceptable risk under current and realistic future uses. Again, the conservatism of this analysis must be emphasized in considering the results of this comparison. Sources of conservatism include the following:

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[3] Reported detection limits for the metals data are uncharacteristically low. However, these data are consistent with the data presented in the RAOR.

- Constituents were detected infrequently, limiting the potential for significant exposure, even during intrusive activities.
- The maximum detected concentrations appear to correspond to a limited area within the vicinity of the former USTs (within soil boring from UST excavation floor and MW-1 boring), again limiting the potential for exposure.
- Constituents were generally confined to deep soil (i.e., below 10 feet), where the opportunity for exposure, even during construction activities, is very small.
- Constituents detected in deep soil (i.e., below 10 feet) may reflect groundwater contamination, rather than soil contamination, based on the depth to groundwater at this site.

4.0 GROUNDWATER

Similar to the approach used for soil, the RBCA analysis for groundwater was conducted in three steps:

1. Potential exposure pathways associated with groundwater were defined, based on current and realistic future land use;
2. Screening levels were derived for each of the exposure pathways defined in the previous step; and
3. Reported constituent concentrations were then compared to these site-specific screening levels.

Each of these steps is described in the following sections.

4.1 IDENTIFICATION OF POTENTIAL EXPOSURE PATHWAYS

As discussed below, the identification of potential exposure pathways is based primarily on an evaluation of the potential exposures by human receptors under current and realistic future beneficial uses of water on the site.

Currently there is one active domestic well on site. In addition, surrounding residential areas have active domestic wells. These wells will continue to be used to provide irrigation and drinking water to the area in the future. In addition, the CVRWQCB Basin Plan for this area cites potential future uses of groundwater to include municipal and domestic water supply, agricultural supply, industrial service supply, and industrial process supply (CVRWQCB, 1995).

Therefore, the following exposure scenario and attendant exposure pathways were identified for groundwater:

- **Residential use of groundwater:** Consistent with the screening methods utilized by USEPA Region IX (2002/2003), evaluation of this scenario considered incidental ingestion of groundwater and inhalation of VOCs released from groundwater during household water use. Also consistent with USEPA Region IX methods, dermal contact with constituents in groundwater (e.g., during showering or bathing) was not included in the analysis of residential exposures. Exclusion of the dermal contact pathway is reasonable in light of the

fact that, in general, constituents in water are poorly absorbed by the skin. Moreover, with respect to VOCs (the predominant constituents detected in groundwater), these chemicals tend to volatilize rather than be transported by dermal cells across skin membranes.

Several additional exposure pathways were considered, but were not selected for evaluation, as explained below:

- **Migration of VOCs from the water table into indoor air:** Although this pathway may represent a complete exposure pathway for this site, the screening-level RBCA analysis focused on residential use of groundwater as the primary exposure scenario, given the presence of a residential well on site. Residential use of groundwater is generally considered to involve as much or more exposure than other potential exposure pathways, and thus represents a conservative assessment of potential exposure in screening level analyses.
- **Migration of VOCs to ambient air:** Again, this analysis focused on residential use of groundwater, given the conservative nature of this scenario.
- **Direct contact with groundwater under a construction worker scenario:** Direct contact with groundwater during construction was not selected for evaluation because significant contact is unlikely due to the need to dewater excavated areas to allow construction to continue. Dewatering would eliminate the potential for routine ingestion or skin contact with constituents in groundwater.
- **Discharge to surface water:** No receiving water bodies are located in the immediate vicinity of the site. Thus, groundwater discharge to surface water was not considered an applicable exposure pathway.

4.2 *DEVELOPMENT OF SCREENING LEVELS*

Screening levels were identified for each constituent detected in groundwater samples collected from the site. These screening levels were based on the following:

- Maximum contaminant levels or other federal action levels promulgated under the Safe Drinking Water Act were used, where available;
- Water quality goals established by the CVRWQCB (CVRWQCB, 2000);
- SFRWQCB Risk-Based Screening Levels (SFRWQCB, 2001); and

- Risk-based concentrations calculated based on the residential use of groundwater.

Calculation of the risk-based screening levels followed USEPA guidance, incorporating default regulatory assumptions appropriate for a residential scenario. Toxicity information used in the calculation of screening levels for each specific constituent was based on current data from California Environmental Protection Agency and USEPA. Detailed screening level calculations are presented in Appendix B. The resulting screening levels are presented in Table 6.

4.3 *DATA COMPARISON*

As stated in Section 1.2.2, a groundwater extraction/treatment system operated at the site from March 1995 through June 1996. ERM compared the screening levels to the maximum concentration detected following groundwater treatment (since 1996).

As shown in Table 6, the maximum reported concentrations of the following constituents were above one or more of the screening levels for groundwater: benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether; TPH-G; TPH-D; 1,2-dichloroethane; acenaphthene; fluorene; 2-methylnaphthalene; bis(2-ethylhexyl)phthalate; diethylphthalate; naphthalene; phenanthrene; phenol; 2-methylphenol; and 4-methylphenol.

In considering the results of this comparison, the following points should be noted:

- Diethylphthalate and bis(2-ethylhexyl)phthalate are common laboratory contaminants and should be considered as nondetect at such low levels (USEPA, 1999).
- Polynuclear aromatic hydrocarbons (PAHs) such as acenaphthene, fluorene, naphthalene, phenanthrene, and 2-methylnapthalene, were detected in wells that contain petroleum hydrocarbons (MW-1, MW-2, MW-4, and MW-13). These PAHs appeared to be associated with the presence of elevated concentrations of TPH.
- Concentrations exceeding screening levels are primarily located beneath the former tank excavation and southwest of the excavations (MW-1, MW-2, MW-4, MW-12, and MW-13). Historically, there has been infrequent detection of constituents downgradient of the former UST area.

5.0 SUMMARY AND CONCLUSIONS

This section presents ERM's summary of the findings and the conclusions for the IBR evaluation and risk assessment completed at the Lemon Cove Maintenance Station.

5.1 INTRINSIC BIOREMEDIATION EVALUATION

Site groundwater exhibits substantial capacity for IBR of TPH as evident by the electron acceptor balance for benzene and the calculated results. Based on benzene, the IBR capacity for TPH is estimated to be 27.8 mg/L (March 2003) and 30.2 mg/L (May 2003). The calculated capacities fall within the observed range for TPH-IBR capacities for petroleum-contaminated sites (7.2 to 70.5 mg/L; USEPA 1996).

Although the noted IBR capacity is based on benzene, the IBR capacity differs only marginally if either xylene or dodecane (a proxy chemical for diesel) is used for writing electron acceptor balanced equations. Thus, at the subject site, both diesel- and gasoline-range petroleum compounds are anticipated to attenuate due to natural degradation mechanisms.

5.2 RISK-BASED CORRECTIVE ACTION ANALYSIS - SOIL

The RBCA analysis for soil evaluated the following exposure scenarios:

- Maintenance workers' exposure to surface soil based on data from the wash rack drainage area; and
- Construction workers' exposure to surface and subsurface soil based on data collected from the wash rack drainage area and the former UST locations.

Maximum reported constituent concentrations were compared to the screening levels developed for each pathway.

5.2.1 *Maintenance Worker*

As demonstrated in this report, reported constituent concentrations in soil were less than their respective screening levels for the maintenance

worker with the exception of TRPH. Although this RBCA analysis incorporates a number of conservative assumptions regarding both the opportunity for exposure and the levels of constituents present, surface soil may pose an unacceptable risk based on current and realistic future use conditions.

5.2.2 *Construction Worker*

For the construction worker scenario, reported concentrations of toluene, ethylbenzene, xylene, TPH-G, and TPH-D in soil exceeded the PRG and SFRWQCB screening levels; however, these concentrations were below the site-specific screening levels. The maximum reported concentration of benzene exceeded all screening levels. Although this RBCA analysis incorporates a number of conservative assumptions regarding both the opportunity for exposure and the levels of constituents present, surface and subsurface soil may pose an unacceptable risk based on a construction worker scenario.

5.3 *RISK-BASED CORRECTIVE ACTION ANALYSIS - GROUNDWATER*

The RBCA analysis for groundwater evaluated the exposure scenario of residential use of groundwater. Maximum reported constituent concentrations were compared to the risk-based screening levels developed for each pathway. Several of the maximum values were reported above their respective screening levels, indicating potential adverse health effects from exposure to groundwater under a residential use scenario.

5.4 *CONCLUSIONS*

The IBR evaluation concluded that the naturally occurring microbes have capacity to degrade petroleum hydrocarbons that have been released into an aquifer. Based on the comparison of the maximum detected soil and groundwater results at the site, the RBCA analyses concluded that constituents present at the site may pose an unacceptable risk under current and future land use conditions. In consideration of the results of the RBCA analyses, it should be emphasized that the risk-based screening levels presented herein are conservative (i.e., health protective), and the potential for human exposure is limited by the localized nature of contamination. The following section presents ERM's recommendations for future site activities.

6.0 RECOMMENDATIONS

This section presents ERM's recommendations for further site activities at the Lemon Cove Maintenance Station. In addition, Section 6.4 describes the ORC® Injection Pilot Study conducted at the former UST area in June 2003.

6.1 WASH RACK DRAINAGE AREA SOIL

Based on the conservative nature of the RBCA analysis for soil, localized nature of the contamination, and the fact that TRPH results may reflect naturally occurring organic material, surface soil within the wash rack drainage area are unlikely to pose an unacceptable risk to the maintenance worker. ERM recommends soil excavation and off-site disposal or confirmation sampling using more product-specific hydrocarbon analytical methods (e.g., USEPA Method 8015 Modified) to verify that surface soil does not pose a risk.

In addition, ERM recommends verification of the detection limits for the 1994 metals analyses results.

6.2 FORMER UNDERGROUND STORAGE TANK AREA SOIL

Comparison of the soil data to risk-based screening levels indicates that constituents in subsurface soil may pose an unacceptable risk under current and realistic future uses.

In order to further characterize the risk to the soil at the site, ERM calculated the estimates of potential cancer and noncancer risk. USEPA and California EPA have both defined a range of acceptable cancer risk as 1×10^{-6} to 1×10^{-4}. In addition, a hazard index equal to or less than 1 indicates that adverse health effects are unlikely to occur as a result of the defined conditions of exposure. Using the maximum detected concentrations at the site and the construction worker exposure scenario, ERM calculated the potential cancer risk of 2×10^{-6}, within the range of acceptable risk defined by the USEPA and utilized by California EPA. In addition, ERM calculated a hazard index of 1, indicating that no unacceptable (noncancer) health effects are anticipated from site-related constituents.

Based on the conservative nature of the RBCA analysis for soil, the estimate of potential cancer and noncancer risk, and the localized nature of the contamination, ERM does not recommend further action for the soil within the former UST area. However, there is a potential for residual soil constituents concentrations to leach into groundwater. As described in the following section, ERM recommends enhanced bioremediation be conducted for site groundwater. If additional groundwater sampling indicates that leaching of constituents to groundwater continues, additional remediation options will be evaluated for soil. Remedial options may include additional enhanced bioremediation and soil excavation.

6.3 *GROUNDWATER*

Although the groundwater contamination appears to be localized, comparison of groundwater data to risk-based screening levels indicates that groundwater constituents may pose an unacceptable risk. As described by the IBR evaluation, both diesel- and gasoline-range petroleum compounds are anticipated to attenuate due to natural degradation mechanisms. However, given the elevated concentrations within the source area, ERM recommends enhanced biodegradation through the use of chemical oxidant injection within the former tank excavation and southwest. The following section describes the pilot study activities for ORC® injection.

6.4 *ORC® PILOT STUDY ACTIVITIES*

As previously stated, the occurrence of TPH-G, TPH-D, and BTEX in groundwater is primarily beneath the former tank excavation and southwest of the tank excavation (MW-1, MW-2, MW-4, MW-12, and MW-13). In order to increase the rate of natural biodegradation of hydrocarbons in groundwater, ERM performed a one-time injection of ORC® via direct-push borings. ORC® is a proprietary formulation of magnesium peroxide with time-release properties designed to provide a source of oxygen for a period of up to 1 year in groundwater. By increasing the concentration of oxygen in the source area with a one-time application of ORC®, an evaluation of the potential for enhanced IBR of hydrocarbons in the subsurface can be made.

ORC® was injected at the site on 11 June 2003 in accordance with *ORC® Injection Pilot Study Workplan* dated 2 June 2003 (ERM, 2003b).

Approximately 900 pounds of ORC® was injected through 15 borings, spaced 8-feet apart in a 20-foot by 40-foot grid within the source area. The borings were advanced to a depth of 20 feet and 60 pounds of ORC® (mixed with approximately 4.5 gallons of water) was injected from 10 to 20 feet below ground surface.

The ORC® injection is expected to enhance the IBR capacity. The effectiveness of ORC® injection to accelerate the reduction of contaminant concentrations *in situ* will be measured by assessing contaminant concentrations and bioremediation parameters in subsequent groundwater monitoring events. The results of this on-going groundwater monitoring will be reviewed, together with additional soil characterization, to ensure that site conditions do not pose an unacceptable risk under current and realistic future use conditions.

7.0 REFERENCES

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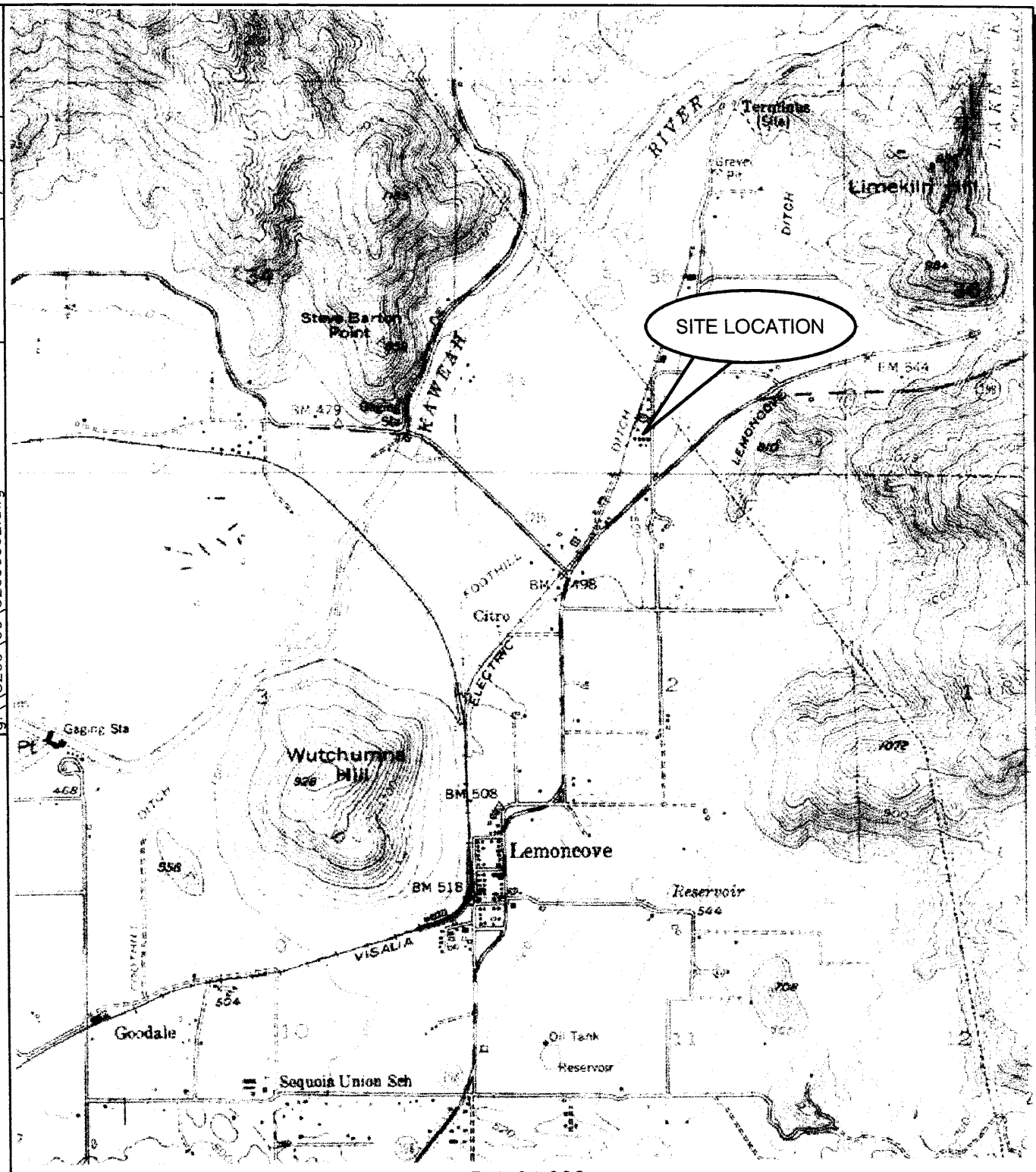
Figures



SCALE 1:24,000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

N

Figure 1

Site Location Map

Caltrans Lemon Cove Maintenance Station

Lemon Cove, California

ERM *03/03*

References:
U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle, Ahwahnee, California
TOPO! Software Version 2.6.8

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Drawn By: J. Estrada
Date: 03/06/03
Project No. 5209.00

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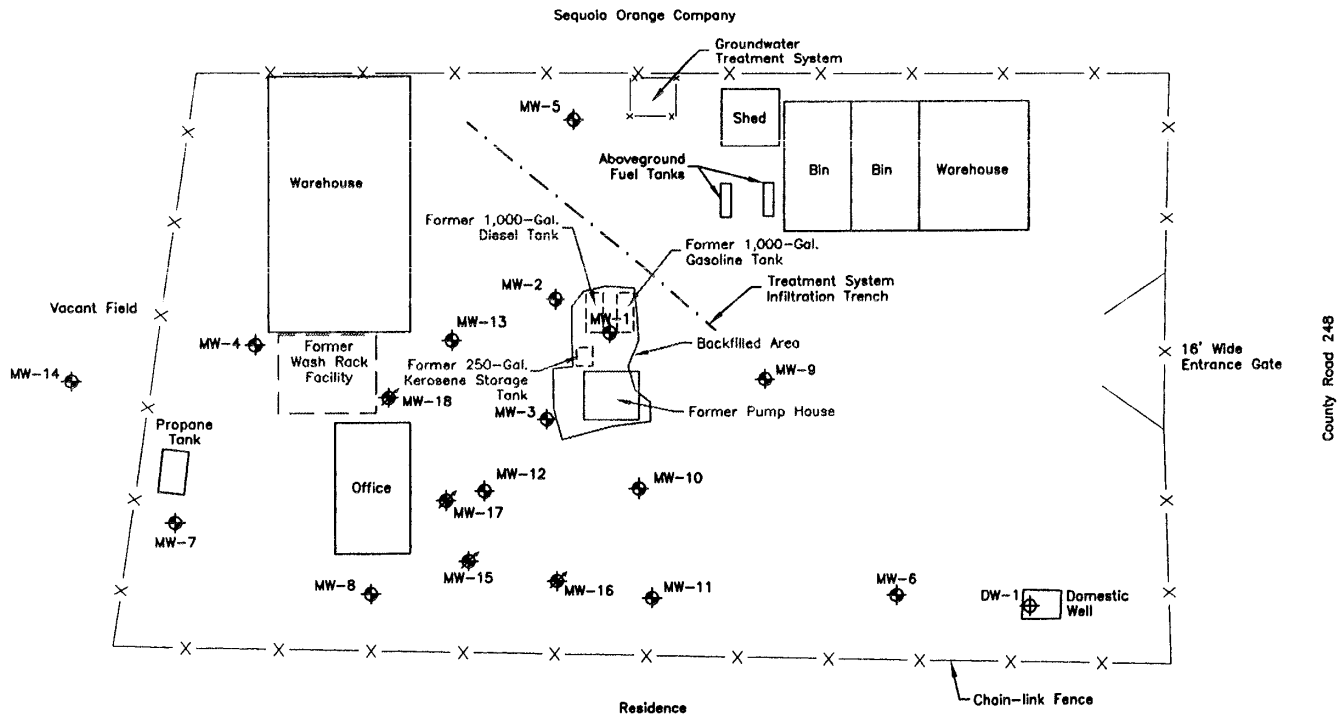

LEGEND

- Groundwater Monitoring Well
- Domestic Well
- Groundwater Extraction Well

N

0 40

Approx. Scale (feet)

Domestic Well 33673 Road 248

Figure 2

Site Detail Map

Caltrans Lemon Cove Maintenance Station

Lemon Cove, California

ERM *03/03*

Tables

Table 1 *Estimate of Biodegradation Capacity for Petroleum Hydrocarbons Based on Benzene*
March 2003 Sampling Event
Caltrans Lemon Cove Maintenance Station
Tulare County, California

Electron Acceptor or Metabolite	Utilization Factor (g/g C_6H_6)	Background (Upgradient) Concentration (mg/L)	Source Zone Concentration (mg/L)	Biodegradation Capacity for Benzene (mg/L)
Dissolved oxygen	3.08	1.27	1.07	0.06
Nitrate*	4.77	13.0	1.91	10.30
Iron (II)	21.54	0.01	0.16	0.01
Sulfate	4.62	130	55.0	16.23
Methane	0.77	0.0043	0.93	1.20
				27.8

Notes:

Source zone concentration is the average of wells MW-1 and MW-2, both found in the source zone.
Upgradient well is MW-5

* Because nitrate was reported as nitrogen, the concentration is multiplied by 62/14 to calculate the actual nitrate concentration.

Concentrations less than the detection limit are taken as one-half the detection limit.
mg/L = Milligrams per liter

g/g = Grams per gram

Table 2 *Estimate of Biodegradation Capacity for Petroleum Hydrocarbons Based on Benzene*
May 2003 Sampling Event
Caltrans Lemon Cove Maintenance Station
Tulare County, California

Electron Acceptor or Metabolite	Utilization Factor (g/g C_6H_6)	Background (Upgradient) Concentration (mg/L)	Source Zone Concentration (mg/L)	Biodegradation Capacity for Benzene (mg/L)
Dissolved oxygen	3.08	3.39	3.33	0.02
Nitrate*	4.77	7.3	0.74	6.10
Iron (II)	21.54	0.20	1.57	0.06
Sulfate	4.62	120	25.5	20.45
Methane	0.77	<0.001	2.75	3.57
				30.2

Notes:

Source zone concentration is the average of wells MW-1 and MW-2, both found in the source zone.

Upgradient well is MW-5

* Because nitrate was reported as nitrogen, the concentration is multiplied by 62/14 to calculate the actual nitrate concentration.

Concentrations less than the detection limit are taken as one half the detection limit.

mg/L = Milligrams per liter

g/g = Grams per gram

Table 3 *Comparison of Surface Soil Data to Screening Levels*
Maintenance Worker Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Maximum Soil Concentration (mg/kg)	Region IX Preliminary Remediation Goals Residential (mg/kg)	Region IX Preliminary Remediation Goals Industrial (mg/kg)	San Francisco RWQCB Risk-Based Screening Level Residential (mg/kg)	San Francisco RWQCB Risk-Based Screening Level Industrial (mg/kg)	Risk-Based Screening Level (mg/kg)
TRPH	50,000			500	1,000	26,112
Arsenic	0.030	22 ^	260 ^	0.39	2.7	1.6
Barium	1.0	5,400	67,000	750	1,500	57,243
Cadmium	0.030	37	450	1.7	12	6.4
Total Chromium	Not detected	210	450	13.0	13	870,416
Lead	0.170	150	750	200	750	287
Mercury	0.0031	23	310	4.7	10	261
Selenium	0.023	390	5,100	10	10	4,353
Silver	0.040	390	5,100	20	40	4,353

Notes:

Shaded values indicated that the maximum concentration is above the respective screening level.
^ = The noncancer endpoint was used for arsenic data.
1E-06 = 0.000001
mg/kg = Milligrams per kilogram
Not detected = Not detected in surface soil samples (0 to 2 feet).
Risk-Based Screening Levels - Appendix B, Table B-1.
RWQCB = Central Valley Regional Water Quality Control Board
TRPH = Total recoverable petroleum hydrocarbons

Table 4 *Comparison of Soil Data (All Depths) to Screening Levels*
Construction Worker Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Maximum Soil Concentration (mg/kg)	Region IX Preliminary Remediation Goals Residential (mg/kg)	Region IX Preliminary Remediation Goals Industrial (mg/kg)	San Francisco RWQCB Risk-Based Screening Level Residential (mg/kg)	San Francisco RWQCB Risk-Based Screening Level Industrial (mg/kg)	Risk-Based Screening Level (mg/kg)
Benzene	230	0.6	1.3	0.05	0.05	111
Ethylbenzene	81	8.9	20.0	2.5	2.5	5,330
Toluene	540	520	520	2.6	2.6	26,219
Xylenes	890	270	420	1.0	1.0	76,403
TPH as gasoline	4,900			100	100	105,397
TPH as diesel	3,400			100	100	52,775
Kerosene	Not detected			100	100	52,775
TRPH	13,000			1,000	1,000	52,775
Arsenic	0.030	22 ^	260 ^	13	13	91
Barium	1.0	5,400	67,000	2,400	2,400	8,519
Cadmium	0.030	37	450	33	33	183
Total Chromium	Not detected	210	450	13	13	2,469,076
Lead	22	150	750	750	750	17,645
Mercury	0.0031	23	310	160	160	771
Selenium	0.023	390	5,100	2,500	2,700	12,842
Silver	0.040	390	5,100	2,500	2,700	12,842

Notes:

Shaded values indicated that the maximum concentration is above the respective screening level.
^ = The noncancer endpoint was used for arsenic data.
1E-06 = 0.000001
mg/kg = Milligrams per kilogram
Not detected = Not detected in surface soil samples (0 to 2 feet).
Risk-Based Screening Levels - Appendix B, Table B-2
RWQCB = Central Valley Regional Water Quality Control Board
TPH = Total petroleum hydrocarbons
TRPH = Total recoverable petroleum hydrocarbons

Table 5 *Comparison of Metals Data to Typical Background Concentrations*
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Maximum Soil Concentration (mg/kg)	Kearney Foundation of Soil Science [1] Average California (mg/kg)	Shacklette and Boerngen 2 Western United States (mg/kg)
Arsenic	0.030	3.5	7.0
Barium	1.0	19	670
Cadmium	0.030	0.36	Not available
Total Chromium	Not detected	122	56
Lead	0.170	23.9	20
Mercury	0.0031	0.26	0.065
Selenium	0.023	0.058	0.34
Silver	0.040	0.8	Not available

Notes:

1 = Kearney Foundation of Soil Science - Division of Agriculture and Natural Resources. 1996. *Background Concentrations of Trace and Major Elements in California Soils.* March 1996.

2 = Shacklette, H.T., and J.G. Boerngen. 1984. Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States. USGS Professional Paper 1270. Washington, D.C.: U.S. Geological Survey.

mg/kg = Milligrams per kilogram

Table 6 *Comparison of Groundwater Data to Screening Levels*
Residential Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Historic Maximum Concentration (µg/L)	Maximum Concentration Since 1996 (µg/L)	RWQCB (Compilation of Water Quality Goals)			San Francisco RWQCB Risk-Based Screening Levels (µg/L)	Risk-Based Screening Levels (µg/L)
			MCL (µg/L)	Toxicity (µg/L)	Taste and Odors (µg/L)		
Benzene	31,600	4,800	1.0	0.15	170	1.0	0.17
Ethylbenzene	27,000	7,500	700	300	29	30	4.4
Toluene	133,000	31,000	150	150	42	40	803
Xylene	200,000	94,000	1,750	1,800	17	13	1,460
Methyl tert-Butyl Ethanol *	23	23	13	13	5.0	5.0	19
Di-isopropyl Ether *	ND	ND	–	–	0.80	–	19
tert-Amyl Methyl Ether *	ND	ND	–	–	–	–	19
Ethyl-tert Butyl Ether *	ND	ND	–	–	–	–	19
tert-Butanol *	10	10	–	12	290,000	–	19
TPH as gasoline	7,600,000	1,700,000	–	21	5.0	100	416
TPH as diesel	150,000	150,000	–	56-140	100	100	219
Chloroform	ND	ND	100	–	2,400	28	0.90
1,2-Dichloroethane	100	19	0.50	0.40	7,000	0.50	0.24
Tetrachloroethene	ND	ND	5.0	0.06	170	1.3	0.81
Ethylene Dibromide	ND	ND	0.05	0.0097	–	0.05	0.068
Acenaphthene	2.0	2.0	–	0.0029	–	20	438
Benzoic Acid	99	99	–	28,000	–	–	29,200
Benzyl Alcohol	10	10	–	–	–	–	2,190
2,4-Dimethylphenol	44	44	–	100	–	100	146
Fluorene	6.0	6.0	–	280	–	3.9	292
2-Methylnaphthalene	380	380	–	–	–	2.1	6.3
N-Nitro-sodiphenylamine	1.0	1.0	–	3.9	–	–	1.9
bis(2-ethylhexyl)phthalate	10	10	4.0	12	–	12	1.2
Diethylphthalate	3.0	3.0	–	5,600	–	3.0	5,840
Naphthalene	720	720	–	14	21	21	6.3

Table 6 *Comparison of Groundwater Data to Screening Levels*
Residential Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Historic Maximum Concentration (µg/L)	Maximum Concentration Since 1996 (µg/L)	RWQCB (Compilation of Water Quality Goals)			San Francisco RWQCB Risk-Based Screening Levels (µg/L)	Risk-Based Screening Levels (µg/L)
			MCL (µg/L)	Toxicity (µg/L)	Taste and Odors (µg/L)		
Phenanthrene	9.0	9.0	–	–	–	4.6	219
Phenol	18	18	4,200	5.0	–	5.0	4,380
2-Methylphenol	28	28	–	35	–	–	365
4-Methylphenol	75	75	–	–	–	–	36

Notes:
* Results from USEPA Method 8260
Shaded values indicated that the maximum concentration within the past two years is above the respective screening level.
1E-06 = 0.000001
MCL = Maximum Contaminant Level or other federal action level promulgated under the Safe Drinking Water Act (40 Code of Federal Regulations 141).
µg/L = Micrograms per liter
ND = Not detected
Risk-Based Screening Level, based on the residential use of groundwater (Appendix A, Table A-3).
RWQCB = Central Valley Regional Water Quality Control Board
TPH = Total petroleum hydrocarbons
Shaded concentrations reflect an exceedance of a screening level.

Appendix A
Soil and Groundwater Data Tables

Table A-1 *Summary of Soil Analytical Data*
Wash Rack Drainage Ditch Borings
Lemon Cove Maintenance Station
Tulare County, California

Sample I.D.	Depth (feet bgs)	Date	TRPH	Arsenic	Barium	Cadmium	Chromium	Total Lead	Mercury	Selenium	Silver	SVOCs
B-1	0.5	03/03/94	72	**0.011**	**0.7**	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-1	5.5	03/03/94	11	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-1	10	03/03/94	22	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-10	0.5	03/03/94	11	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	**0.03**	ND
B-10	5.5	03/03/94	22	< 0.005	**0.6**	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	**0.03**	ND
B-10	10	03/03/94	22	**0.008**	< 0.5	**0.03**	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-11	0.5	03/03/94	43	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-11	5.5	03/03/94	40	**0.007**	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-11	10	03/03/94	29	< 0.005	< 0.5	**0.02**	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-12	0.5	03/03/94	275	**0.01**	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	**0.016**	< 0.02	–
B-12	5.5	03/03/94	11	**0.009**	**0.65**	< 0.005	< 0.06	< 0.07	< 0.0006	**0.012**	< 0.02	–
B-12	10	03/03/94	< 10	< 0.005	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	**0.01**	< 0.02	–
B-13	0.5	03/03/94	337	**0.008**	**0.6**	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-13	5.5	03/03/94	< 10	**0.03**	**0.69**	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-13	10	03/03/94	< 10	**0.009**	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-14	0.5	03/03/94	< 10	< 0.005	**0.67**	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-14	5.5	03/03/94	< 10	**0.025**	**0.74**	< 0.005	< 0.2	< 0.07	< 0.0006	**0.015**	< 0.02	–
B-14	10	03/03/94	< 10	**0.006**	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-15	0.5	03/03/94	< 10	**0.011**	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-15	5.5	03/03/94	< 10	**0.008**	< 0.5	< 0.005	< 0.06	< 0.07	**0.003**	< 0.005	< 0.02	–
B-15	10	03/03/94	11	**0.012**	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-16	0.5	03/03/94	11	< 0.005	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-16	5.5	03/03/94	15	< 0.005	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-16	10	03/03/94	< 10	< 0.005	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	**0.013**	< 0.02	–
B-17	0.5	03/03/94	457	< 0.005	**1**	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-17	5.5	03/03/94	18	**0.007**	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-17	10	03/03/94	18	**0.008**	**0.57**	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-18	0.5	03/03/94	36	< 0.005	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-18	5.5	03/03/94	25	< 0.005	**0.85**	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-18	10	03/03/94	22	< 0.005	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-19	0.5	03/03/94	51	**0.014**	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	**0.012**	< 0.02	–
B-19	5.5	03/03/94	22	**0.009**	**0.76**	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-19	10	03/03/94	126	**0.012**	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–

Table A-1 *Summary of Soil Analytical Data*
Wash Rack Drainage Ditch Borings
Lemon Cove Maintenance Station
Tulare County, California

Sample I.D.	Depth (feet bgs)	Date	TRPH	Arsenic	Barium	Cadmium	Chromium	Total Lead	Mercury	Selenium	Silver	SVOCs
B-2	0.5	03/03/94	25	0.017	< 0.5	< 0.005	< 0.2	< 0.07	0.0014	< 0.005	< 0.02	ND
B-2	5.5	03/03/94	< 10	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	0.0007	< 0.005	< 0.02	ND
B-2	10	03/03/94	< 10	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-20	0.5	03/03/94	< 10	0.033	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-20	5.5	03/03/94	54	0.008	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-20	10	03/03/94	33	0.008	< 0.5	< 0.005	< 0.06	< 0.07	< 0.0006	< 0.005	< 0.02	–
B-3	0.5	03/03/94	15	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	0.0008	0.023	< 0.02	ND
B-3	5.5	03/03/94	14	< 0.005	0.5	< 0.005	< 0.2	< 0.07	< 0.0006	0.013	< 0.02	ND
B-3	10	03/03/94	29	0.01	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-4	0.5	03/03/94	29	0.022	< 0.5	< 0.005	< 0.2	< 0.07	0.0021	< 0.005	< 0.02	ND
B-4	5.5	03/03/94	32	0.018	< 0.5	< 0.005	< 0.2	< 0.07	0.0031	< 0.005	< 0.02	ND
B-4	10	03/03/94	25	0.009	< 0.5	< 0.005	< 0.2	< 0.07	0.002	< 0.005	< 0.02	ND
B-5	0.5	03/03/94	33	0.028	0.5	< 0.005	< 0.2	< 0.07	0.0006	< 0.005	< 0.02	ND
B-5	5.5	03/03/94	25	< 0.005	0.7	< 0.005	< 0.2	< 0.07	0.0012	< 0.005	< 0.02	ND
B-5	10	03/03/94	25	0.008	< 0.5	0.02	< 0.2	< 0.07	0.0017	< 0.005	< 0.02	ND
B-6	0.5	03/03/94	50,000	0.01	0.7	< 0.005	< 0.2	0.17	< 0.0006	0.01	0.04	ND
B-6	5.5	03/03/94	18	< 0.005	0.7	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-6	10	03/03/94	11	< 0.5	< 0.005	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-7	0.5	03/03/94	36	0.024	< 0.5	< 0.005	< 0.2	< 0.07	0.0008	< 0.005	< 0.02	ND
B-7	5.5	03/03/94	18	0.006	0.6	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-7	10	03/03/94	29	< 0.005	< 0.5	0.02	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-8	0.5	03/03/94	18	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-8	5.5	03/03/94	25	< 0.005	0.6	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	0.02	ND
B-8	10	03/03/94	29	< 0.005	< 0.5	0.02	< 0.2	< 0.07	< 0.0006	< 0.005	0.03	ND
B-9	0.5	03/03/94	29	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-9	5.5	03/03/94	18	0.014	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
B-9	10	03/03/94	22	< 0.005	< 0.5	< 0.005	< 0.2	< 0.07	< 0.0006	< 0.005	< 0.02	ND
HA-1	0	1991	7,700	–	–	–	–	–	–	–	–	–
HA-1	2	1991	980	–	–	–	–	–	–	–	–	–
HA-2	0	1991	13,000	–	–	–	–	–	–	–	–	–
HA-2	2	1991	10	–	–	–	–	–	–	–	–	–

Table A-1 *Summary of Soil Analytical Data*
Wash Rack Drainage Ditch Borings
Lemon Cove Maintenance Station
Tulare County, California

Sample I.D.	Depth (feet bgs)	Date	TRPH	Arsenic	Barium	Cadmium	Chromium	Total Lead	Mercury	Selenium	Silver	SVOCs
HA-3	0	1991	2,800	–	–	–	–	–	–	–	–	–
HA-3	2	1991	19	–	–	–	–	–	–	–	–	–
HA-4	0	1991	22	–	–	–	–	–	–	–	–	–
HA-4	2	1991	6	–	–	–	–	–	–	–	–	–
Number of Samples			68	60	60	60	60	60	60	60	60	33
Number of Detections			56	32	18	5	0	1	11	9	5	0
Maximum			50,000	0.03	1.0	0.030	ND	0.17	0.0031	0.023	0.040	ND

Notes:

Results reported in milligrams per kilogram
bgs = Below ground surface
ND = Not detected
TRPH = Total recoverable petroleum hydrocarbons
SVOCs = Semivolatile organic compounds
– = Not tested
< = Less than laboratory test method detection limits

Table A-2 *Summary of Soil Analytical Data*
Underground Storage Tank Area Borings
Lemon Cove Maintenance Station
Tulare County, California

Sample I.D.	Depth (feet bgs)	Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	Kerosene	Total Lead
B-1/MW-1	5.0	10/18/88	**35**	**8.0**	**0.13**	**1.6**	**1.0**	**11**	–	22
B-1/MW-1	10.0	10/18/88	**4,900**	< 0.5	**230**	**540**	**81**	**690**	–	3
B-1/MW-1	20.0	10/18/88	**2.5**	< 0.5	**0.09**	**0.18**	< 0.05	**0.46**	–	3
B-2/MW-2	5.0	10/18/88	< 0.5	< 0.5	**0.22**	< 0.05	< 0.05	< 0.2	–	7
B-2/MW-2	10.0	10/18/88	**1,900**	< 0.5	**47**	**86**	**2.1**	**160**	–	3
B-2/MW-2	20.0	10/18/88	**14**	**220**	**0.53**	**1.3**	**0.25**	**1.7**	–	13
B-3/MW-3	5.0	10/18/88	< 0.5	< 0.5	< 0.05	< 0.05	< 0.05	< 0.2	–	5
B-3/MW-3	10.0	10/18/88	**470**	< 0.5	**20**	**22**	**16**	**110**	–	4
B-3/MW-3	15.0	10/18/88	**2.2**	**140**	**0.34**	**0.06**	< 0.05	**0.29**	–	2
B-4	5.0	10/18/88	< 0.5	< 0.5	< 0.05	< 0.05	< 0.05	< 0.2	–	–
B-4	10.0	10/18/88	< 0.5	< 0.5	< 0.05	< 0.05	< 0.05	< 0.2	–	–
MW-4	5.0	–	< 1.0	–	ND	ND	ND	ND	–	–
MW-4	10.0	–	< 1.0	–	ND	ND	ND	ND	–	–
MW-5	5.0	06/12/05	< 1.0	–	ND	**0.014**	ND	**0.013**	–	–
MW-5	10.0	06/12/05	**1.0**	–	ND	**0.12**	ND	**0.061**	–	–
MW-5	15.0	06/12/05	< 1.0	–	ND	**0.01**	ND	**0.007**	–	–
MW-6	5.0	06/12/05	< 1.0	–	ND	**0.008**	ND	**0.005**	–	–
MW-6	10.0	06/12/05	< 1.0	–	ND	**0.006**	ND	ND	–	–
MW-6	15.0	06/12/05	< 1.0	–	ND	ND	ND	ND	–	–
MW-7	10.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-7	15.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-7	20.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-8	3.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-8	6.0	10/15/91	< 1.0	< 1.0	< 0.005	**0.022**	**0.018**	**0.08**	–	–
MW-8	9.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-8	12.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-9	6.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-9	9.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-9	12.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-10	3.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-10	6.0	10/15/91	< 1.0	< 1.0	**0.004**	**0.006**	< 0.005	**0.0055**	–	–
MW-10	9.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-10	12.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-10	15.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–

Table A-2 *Summary of Soil Analytical Data*
Underground Storage Tank Area Borings
Lemon Cove Maintenance Station
Tulare County, California

Sample I.D.	Depth (feet bgs)	Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	Kerosene	Total Lead
MW-11	3.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-11	6.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-11	9.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-11	12.0	10/15/91	< 1.0	< 1.0	**0.026**	**0.01**	**0.0096**	**0.058**	–	–
MW-11	15.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-12	3.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-12	6.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-12	9.0	10/15/91	**3.2**	< 1.0	**0.54**	< 0.005	**0.03**	**0.47**	–	–
MW-12	12.0	10/15/91	**4.4**	< 1.0	**0.71**	**0.086**	**0.087**	**0.59**	–	–
MW-12	15.0	10/15/91	**3.2**	< 1.0	**0.93**	**0.006**	**0.065**	**0.24**	–	–
MW-13	3.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-13	6.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-13	9.0	10/10/91	**1.0**	< 1.0	**0.23**	**0.32**	**0.031**	**0.02**	–	–
MW-13	12.0	10/10/91	**2,000**	**0.62**	**10**	**120**	**34**	**230**	–	–
MW-13	15.0	10/10/91	**1,700**	**0.28**	**4.5**	**62**	**18**	**120**	–	–
MW-14	3.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-14	6.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-14	9.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-15	5.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-15	8.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-16	5.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-16	8.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-17	5.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-17	8.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-18	5.5	05/23/94	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
MW-18	8.5	05/23/94	< 1.0	< 5.0	**0.033**	< 0.005	< 0.005	**0.04**	–	–
S-1 *	11.0	08/26/87	**4,800**	–	**100**	**300**	–	**890**	–	**12**
S-2 *	11.0	08/26/87	**2,300**	**3,400**	**56**	**160**	–	**420**	–	**10**
S-3 *	8.0	08/26/87	< 0.5	< 0.5	< 0.05	< 0.05	–	< 0.02	< 0.5	**3.2**
SB-1	6.0	10/15/91	< 1.0	< 1.0	**0.03**	**0.032**	**0.0067**	**0.038**	–	–
SB-1	12.0	10/15/91	**38**	**290**	**0.2**	**2.5**	**0.92**	**4.6**	–	–
SB-2	3.0	10/15/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	–	–
SB-2	6.0	10/15/91	< 1.0	< 1.0	**0.054**	**0.083**	**0.017**	**0.1**	–	–
SB-2	9.0	10/15/91	**160**	**660**	**0.92**	**12**	**3.9**	**25**	–	–

Table A-2 ***Summary of Soil Analytical Data***
Underground Storage Tank Area Borings
Lemon Cove Maintenance Station
Tulare County, California

Sample I.D.	Depth (feet bgs)	Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	Kerosene	Total Lead
SB-2	12.0	10/15/91	**4.6**	**71**	**0.14**	**0.42**	**0.1**	**0.53**	—	—
SB-2	15.0	10/15/91	**2.0**	< 1.0	0.006	0.062	0.015	0.12	—	—
SB-3	6.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-3	9.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-4	6.0	10/15/91	< 1.0	< 1.0	< 0.005	0.0058	0.005	0.0075	—	—
SB-4	12.0	10/15/91	**6.2**	**230**	< 0.005	0.11	< 0.005	0.22	—	—
SB-4	15.0	10/15/91	< 1.0	< 1.0	**0.005**	< 0.005	< 0.005	**0.018**	—	—
SB-5	6.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-5	9.0	10/10/91	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-5	12.0	10/10/91	< 1.0	< 1.0	**0.032**	< 0.005	**0.017**	**0.05**	—	—
SB-6	5.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-6	10.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-6	30.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-7	20.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
SB-7	25.0	05/22/97	< 1.0	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	—	—
Number of Samples			83	74	83	83	80	83	1	12
Number of Detections			21	10	27	30	21	33	0	12
Maximum			4,900	3,400	230	540	81	890	ND	22

Notes:
* Samples collected within the underground storage tank excavation floor.
Results reported in milligrams per kilogram
bgs = Below ground surface
TPH-D = Total petroleum hydrocarbons as diesel
TPH-G = Total petroleum hydrocarbons as gasoline
TRPH = Total recoverable petroleum hydrocarbons
< = Less than laboratory test method detection limits

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
33673 Road 248	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
33673 Road 248	05/01/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
DW-1	06/08/99	< 0.6	< 0.6	< 0.6	< 1.2				
DW-1	04/04/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
DW-1	06/27/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
DW-1	09/27/00	0.96	< 0.5	0.86	< 0.5				
DW-1	12/11/00	0.96	< 0.5	0.86	< 0.5				
DW-1	03/06/01	0.96	< 0.5	0.86	< 0.5				
DW-1	11/09/01	0.96	< 0.5	0.86	< 0.5				
DW-1	01/04/02	< 0.5	< 0.5	0.86	< 0.5				
DW-1	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
DW-1	05/01/03	< 0.5	< 0.5 U	< 0.5	< 0.5		< 0.5		< 0.5
MW-1	10/11/91	7,400	14,000	1,500	8,000				
MW-1	05/28/92	24,000	42,000	2,000	14,000	< 1.0	< 1.0	—	—
MW-1	05/10/93	5,600	9,200	950	7,100				
MW-1	01/21/94	15,000	22,000	3,500	19,000				
MW-1	04/28/94	12,000	16,000	860	13,000				
MW-1	08/25/94	13,000	16,000	820	14,000				
MW-1	12/07/94	7,100	7,900	2,500	11,000				
MW-1	03/24/95	6,300	10,000	740	11,000				
MW-1	02/15/96	12,000	12,000	1,900	9,400				
MW-1	04/18/96	11,600	35,600	3,000	17,700				
MW-1	07/31/96	12,900	85,400	9,000	47,800				
MW-1	10/08/96	2,000	12,200	1,900	11,600				
MW-1	06/03/97	3,300	31,000	3,500	22,000				
MW-1	09/04/97	2,900	31,000	4,000	26,000				
MW-1	12/16/97	1,500	380	740	3,800				
MW-1	03/31/99	1,300	11,000	1,200	7,900				
MW-1	06/07/99	1,000	6,200	920	6,000				
MW-1	10/26/99	690	1,300	580	2,500				
MW-1	12/27/99	400	230	360	1,300				
MW-1	04/05/00	526	479	323	846	—	< 5.0	< 5.0	< 5.0
MW-1	06/28/00	1,400	6,400	940	5,300	—	< 5.0	< 5.0	< 5.0
MW-1	09/27/00	2,800	15,000	1,800	14,300				
MW-1	12/12/00	660	580	350	980				
MW-1	03/07/01	280	84	150	250				
MW-1	10/04/01	1,200	1,900	900	2,930				
MW-1	01/04/02	720	520	570	530				
MW-1 (Dup)	01/04/02	680	440	530	580				
MW-1	03/19/03	200	860	56	1,970		< 0.5		< 0.5
MW-1	05/01/03	2,900	17,000	4,200	30,000		< 0.5		< 0.5
MW-2	10/11/91	22,000	44,000	3,500	20,000				
MW-2	05/28/92	17,000	41,000	1,500	16,000	< 1.0	< 1.0	—	—
MW-2	01/21/94	16,000	26,000	1,600	14,000				
MW-2	04/28/94	8,800	13,000	730	12,000				
MW-2	08/25/94	9,600	14,000	920	12,000				
MW-2	03/24/95	11,000	21,000	1,700	18,000				
MW-2	06/07/99	280	21,000	2,700	17,000				
MW-2	10/26/99	140	10,000	1,500	9,300				
MW-2	12/27/99	64	11,000	1,500	10,000				

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-2	04/05/00	101	21,200	2,590	16,100	—	< 100	< 100	< 100
MW-2	06/28/00	140	19,000	3,300	17,800	—	< 5.0	< 5.0	< 5.0
MW-2	09/27/00	130	18,000	3,200	18,500				
MW-2	12/12/00	52	5,200	940	4,600				
MW-2	03/07/01	7.3	140	270	590				
MW-2	10/04/01	67	12,000	3,200	20,300				
MW-2	03/19/03	20	270	120	470		< 0.5		< 0.5
MW-2	05/01/03	210	15,000	5,000	31,300		< 0.5		< 0.5
MW-3	10/11/91	1,600	115	110	590				
MW-3	05/28/92	< 0.3	19	< 0.3	29	< 1.0	< 1.0	—	—
MW-3	05/10/93	230	39	24	100	< 1.0	< 1.0	—	—
MW-3	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-3	11/10/93	100	< 0.5	18	24				
MW-3	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-3	04/28/94	56	< 0.5	< 0.5	9.3				
MW-3	08/25/94	510	< 2	< 2	13				
MW-3	12/07/94	860	16	100	170				
MW-3	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-3	02/15/96	1,100	34	120	190				
MW-3	04/18/96	1,300	690	180	570				
MW-3	07/31/96	2,600	38	610	630				
MW-3	10/08/96	3,500	670	630	980				
MW-3	06/03/97	1,500	110	460	580				
MW-3	09/04/97	3,400	2,200	760	2,400				
MW-3	12/16/97	690	3,200	340	1,800				
MW-3	03/31/99	790	770	120	780				
MW-3	06/07/99	< 0.6	< 0.6	< 0.6	6.9				
MW-3	10/25/99	16	8	15	16				
MW-3	12/27/99	2	< 1	3	< 3				
MW-3	04/05/00	17	1.7	6.9	4.1	—	< 5.0	< 5.0	< 5.0
MW-3	06/28/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-3	09/27/00	550	190	58	490				
MW-3	12/12/00	2.4	1.7	1.2	1				
MW-3	03/06/01	< 0.5	< 0.5	< 0.5	0.83				
MW-3	10/04/01	30	< 0.5	25	15.62				
MW-3	01/04/02	8.6	< 0.5	5.4	8.6				
MW-3	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-3	05/01/03	27	0.75	15	4.9		< 0.5		< 0.5
MW-4	10/11/91	ND	1	0.7	2.4				
MW-4	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-4	05/10/93	34	5.9	42	280	< 1.0	< 1.0	—	—
MW-4	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-4	11/10/93	88	34	200	750				
MW-4	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-4	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-4	03/24/95	< 0.5	< 0.5	< 0.5	39				
MW-4	02/15/96	28	22	360	1,900				
MW-4	04/17/96	5.4	3.4	75	350				
MW-4	07/31/96	4.6	4.5	150	460				
MW-4	10/08/96	3.2	3.1	130	400				

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-4	06/03/97	< 0.3	< 0.3	6	27				
MW-4	09/04/97	4.4	5.6	200	1,200				
MW-4	12/16/97	1.5	1.7	39	480				
MW-4	03/31/99	0.6	3.1	620	1,100				
MW-4	06/07/99	< 0.6	< 0.6	37	80				
MW-4	10/26/99	1	3	280	340				
MW-4	12/27/99	< 0.6	1	280	320				
MW-4	04/05/00	< 0.5	1.4	446	444	—	< 5.0	< 5.0	< 5.0
MW-4	06/28/00	< 0.5	< 0.5	200	170	—	< 5.0	< 5.0	< 5.0
MW-4	09/27/00	< 0.5	< 0.5	< 0.5	0.86				
MW-4	12/12/00	< 5	< 5	370	370				
MW-4	03/07/01	< 0.5	< 0.5	120	100				
MW-4	10/04/01	0.56	< 0.5	250	190				
MW-4	01/04/02	< 0.5	0.59	490	250				
MW-4	03/18/03	< 0.5	< 0.5	91	79		< 0.5		< 0.5
MW-4	05/01/03	< 0.5	< 0.5	32	27		< 0.5		< 0.5
MW-4 (Dup)	05/01/03	< 0.5	< 0.5 U	40	34		< 0.5		< 0.5
MW-5	10/11/91	ND	ND	ND	ND				
MW-5	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	1.0	—	—
MW-5	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	12.0	—	—
MW-5	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-5	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	—	—
MW-5	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	—	—
MW-5	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	—	—
MW-5	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	—	—	—
MW-5	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	02/15/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	04/17/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	07/30/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	10/08/96	< 0.5	0.6	< 0.5	0.8				
MW-5	06/03/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-5	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-5	12/16/97	< 0.5	< 0.5	< 0.5	< 1				
MW-5	03/31/99	< 0.3	< 0.3	< 0.6	< 0.6				
MW-5	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-5	10/25/99	< 0.6	< 1	< 1	< 3				
MW-5	12/27/99	< 0.6	< 1	< 1	< 3				
MW-5	04/05/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-5	06/27/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-5	09/27/00	< 0.5	< 0.5	< 0.5	0.55				
MW-5	12/11/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	03/06/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-5	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-5	05/01/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-6	10/11/91	0.33	0.4	ND	0.38				
MW-6	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-6	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-6	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-6	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	08/25/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	02/15/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	04/17/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	07/30/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	10/08/96	< 0.5	0.5	< 0.5	1				
MW-6	06/03/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-6	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-6	12/16/97	< 0.5	< 0.5	< 0.5	< 1				
MW-6	03/31/99	< 0.3	< 0.3	< 0.6	< 0.6				
MW-6	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-6	10/25/99	< 0.6	< 1	< 1	< 3				
MW-6	12/27/99	< 0.6	< 1	< 1	< 3				
MW-6	04/04/00	0.7	0.8	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-6	06/28/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-6	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	12/11/00	< 0.5	2.4	< 0.5	< 0.5				
MW-6	03/06/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-6	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-6	05/01/03	< 0.5	0.2 j	< 0.5	< 0.5		< 0.5		< 0.5
MW-7	10/11/91	0.47	0.5	ND	0.4				
MW-7	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-7	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-7	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	02/15/96	< 0.5	< 0.5	0.9	1.2				
MW-7	04/18/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	07/31/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	10/08/96	< 0.5	0.6	< 0.5	< 0.5				
MW-7	06/03/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-7	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-7	12/16/97	< 0.5	< 0.5	< 0.5	< 1				
MW-7	03/31/99	< 0.3	< 0.6	< 0.6	< 0.6				
MW-7	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-7	10/25/99	< 0.6	< 1	< 1	< 3				
MW-7	12/27/99	< 0.6	< 1	< 1	< 3				
MW-7	04/05/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-7	06/28/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-7	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	12/11/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	03/06/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-7	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-7	05/01/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-8	10/11/91	ND	ND	ND	ND				
MW-8	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-8	05/10/93	< 0.5	1.6	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-8	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	08/25/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	02/15/96	17	2.1	17	34				
MW-8	04/18/96	13	< 0.5	< 0.5	< 0.5				
MW-8	07/30/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	10/08/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	06/03/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-8	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-8	12/16/97	1.9	1.4	0.9	5.2				
MW-8	03/31/99	1.8	< 0.3	< 0.6	< 0.6				
MW-8	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-8	10/25/99	< 0.6	< 1	< 1	< 3				
MW-8	12/27/99	< 0.6	< 1	< 1	< 3				
MW-8	04/05/00	2.4	0.8	<0.5	<0.5	—	< 5.0	< 5.0	< 5.0
MW-8	06/28/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-8	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	12/11/00	< 0.5	2.5	< 0.5	< 0.5				
MW-8	03/06/01	0.57	< 0.5	< 0.5	< 0.5				
MW-8	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-8	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-8	05/01/03	< 0.5	< 0.5 U	< 0.5	< 0.5 U		< 0.5		< 0.5
MW-9	10/11/91	ND	0.42	ND	0.41				
MW-9	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-9	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-9	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	08/25/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	02/15/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	04/17/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	07/30/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	10/08/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	06/03/97	< 0.3	0.7	< 0.3	< 0.6				
MW-9	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-9	12/16/97	< 0.5	1.6	0.82	5.3				
MW-9	03/31/99	< 0.3	< 0.3	< 0.6	< 0.6				
MW-9	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-9	10/25/99	< 0.6	< 1	< 1	< 3				
MW-9	12/27/99	< 0.6	< 1	< 1	< 3				
MW-9	04/04/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-9	06/27/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-9	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	12/11/00	< 0.5	1.6	< 0.5	< 0.5				
MW-9	03/06/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9 (Dup)	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-9	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-9 (Dup)	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-9	05/01/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-10	10/11/91	ND	ND	ND	ND				
MW-10	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-10	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-10	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	02/15/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	04/17/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	07/30/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	10/08/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	06/03/97	1.2	9	0.9	4.9				
MW-10	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-10	12/16/97	< 0.5	1.4	0.8	4.7				
MW-10	03/31/99	< 0.3	< 0.3	< 0.6	< 0.6				
MW-10	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-10	10/25/99	< 0.6	< 1	< 1	< 3				
MW-10	12/27/99	< 0.6	< 1	< 1	< 3				
MW-10	04/04/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-10	06/27/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-10	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	12/11/00	< 0.5	1.2	< 0.5	< 0.5				
MW-10	03/06/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	01/04/02	< 0.5	< 0.5	< 0.5	< 0.5				
MW-10	03/19/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-10	05/01/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-11	10/11/91	ND	0.49	ND	0.38				
MW-11	05/28/92	3	3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-11	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-11	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	08/25/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	02/15/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	04/17/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	07/30/96	< 0.5	< 0.5	< 0.5	< 0.5				

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-11	10/08/96	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	07/03/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-11	09/04/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-11	12/16/97	< 0.5	1.9	0.87	5.6				
MW-11	03/31/99	< 0.3	< 0.3	< 0.6	< 0.6				
MW-11	06/07/99	< 0.6	< 0.6	< 0.6	< 1.2				
MW-11	10/25/99	< 0.6	< 1	< 1	< 3				
MW-11	12/27/99	1	< 1	< 1	< 3				
MW-11	04/04/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-11	06/27/00	< 0.5	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-11	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	12/12/00	< 0.5	1.4	< 0.5	< 0.5				
MW-11	03/06/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	10/04/01	< 0.5	< 0.5	< 0.5	< 0.5				
MW-11	01/04/02	< 0.5	0.59	490	250				
MW-11	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-11	05/01/03	< 0.5	< 0.5 U	< 0.5	< 0.5 U		< 0.5		< 0.5
MW-12	10/11/91	9,000	1,000	920	1,300				
MW-12	05/28/92	7,000	560	160	310	< 1.0	< 1.0	—	—
MW-12	05/10/93	4,900	150	600	1,600	< 1.0	12.0	—	—
MW-12	08/03/93	10,000	1,000	4,400	1,500	< 0.5	< 0.3	—	—
MW-12	11/10/93	7,700	1,100	1,400	3,700	< 0.5	15.0	—	—
MW-12	01/21/94	2,800	76	500	880	< 0.5	3.3	—	—
MW-12	04/28/94	4,400	370	880	2,100	< 0.5	10.0	—	—
MW-12	08/25/94	1,100	16	< 2	76	< 1.0	2.4	—	—
MW-12	12/07/94	6,700	160	1,500	3,900	< 1.0	8.6	—	—
MW-12	03/24/95	4,700	230	910	2,100				
MW-12	02/15/96	2,400	7.8	1,000	880				
MW-12	04/18/96	2,000	7.8	850	610				
MW-12	07/31/96	26,800	730	9,400	12,000				
MW-12	10/08/96	8,100	218	1,900	2,500				
MW-12	06/03/97	3,300	24	1,400	940				
MW-12	09/04/97	3,600	11	1,100	820				
MW-12	12/16/97	4,800	320	990	1,200				
MW-12	03/31/99	410	0	230	110				
MW-12	06/07/99	1,400	3	730	590				
MW-12	10/26/99	3,000	4	800	950				
MW-12	12/27/99	1,600	< 1	520	510				
MW-12	04/05/00	693	1.2	231	104	—	< 5.0	< 5.0	< 5.0
MW-12	06/28/00	110	< 0.5	120	92	—	< 5.0	< 5.0	< 5.0
MW-12	09/27/00	1,300	1.3	470	87.3				
MW-12	12/12/00	400	< 0.5	210	8.7				
MW-12	03/06/01	36	< 0.5	3.9	0.57				
MW-12	10/04/01	960	1.1	470	8.8				
MW-12	01/04/02	38	< 0.5	43	39				
MW-12	03/19/03	< 0.5	< 0.5	< 0.5	0.4		< 0.5		< 0.5
MW-12	05/01/03	4.1	0.2 j	14	< 0.5		< 0.5		< 0.5
MW-12 (Dup)	05/01/03	3.8	0.3 j	13	< 0.5		< 0.5		< 0.5
MW-13	10/11/91	11,000	27,000	2,200	14,000				
MW-13	05/28/92	14,000	30,000	900	10,000	—	< 1.0	—	—
MW-13	05/10/93	18,000	34,000	3,700	22,000	—	15.0	—	—

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-13	01/21/94	14,000	49,000	27,000	####	—	< 0.3	—	—
MW-13	04/28/94	11,000	25,000	1,400	20,000	—	< 0.3	—	—
MW-13	08/25/94	12,000	27,000	1,800	21,000	< 1.0	< 1.0	—	—
MW-13	12/07/94	9,300	26,000	1,700	20,000	< 1.0	< 1.0	—	—
MW-13	03/24/95	10,000	22,000	4,300	25,000				
MW-13	02/15/96	8,400	35,000	2,700	18,000				
MW-13	04/18/96	9,200	30,700	3,300	19,900				
MW-13	07/31/96	31,600	#####	16,100	85,300				
MW-13	10/08/96	7,600	33,800	4,200	24,100				
MW-13	06/03/97	4,600	24,000	3,300	20,000				
MW-13	09/04/97	3,900	21,000	2,900	16,000				
MW-13	12/16/97	2,900	18,000	2,300	13,000				
MW-13	03/31/99	2,000	23,000	2,000	17,000				
MW-13	06/07/99	2,000	29,000	3,200	21,000				
MW-13	10/26/99	1,200	21,000	2,700	17,000				
MW-13	12/27/99	900	17,000	2,700	17,000				
MW-13	04/05/00	1,610	27,100	3,100	23,960	—	< 100	< 100	< 100
MW-13	06/28/00	1,100	21,000	3,100	19,300	—	19.0	< 5.0	< 5.0
MW-13	09/27/00	780	17,000	2,800	16,900				
MW-13	12/12/00	710	13,000	3,400	32,000				
MW-13	03/07/01	< 500	16,000	7,500	94,000				
MW-13	10/04/01	350	11,000	2,200	15,800				
MW-13	03/19/03	62	1,200	550	3,620		< 0.5		< 0.5
MW-13	05/01/03	1,300 J	11,000 J	7,100	19,000		< 0.5		< 0.5
MW-14	10/11/91	0.37	0.51	ND	0.51				
MW-14	05/28/92	< 0.3	< 0.3	< 0.3	< 0.3	< 1.0	< 1.0	—	—
MW-14	05/10/93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-14	08/03/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-14	11/10/93	< 0.5	< 0.5	< 0.5	< 0.5				
MW-14	01/21/94	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	—	—
MW-14	04/28/94	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	—	—
MW-14	08/25/94	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-14	12/07/94	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	—	—
MW-14	03/24/95	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	—	—
MW-14	02/15/96	0.9	< 0.5	2.1	4				
MW-14	04/18/96	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	—	—
MW-14	07/31/96	1.3	2.9	0.5	0.8	< 0.5	< 0.5	—	—
MW-14	10/08/96	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	—	—
MW-14	06/03/97	< 0.3	< 0.3	< 0.3	< 0.6				
MW-14	09/04/97	0.3	0.9	< 0.3	0.7				
MW-14	03/31/99	< 0.3	< 0.6	< 0.6	< 0.6				
MW-14	04/05/99	0.6	0.5	< 0.5	< 0.5				
MW-14	06/07/99	< 0.6	< 0.6	< 0.6	< 1.23				
MW-14	10/25/99	< 0.6	< 1	< 1	< 3				
MW-14	12/27/99	< 0.6	< 1	< 1	< 3				
MW-14	04/05/00					—	< 5.0	< 5.0	< 5.0
MW-14	06/27/00	7.2	< 0.5	< 0.5	< 0.5	—	< 5.0	< 5.0	< 5.0
MW-14	09/27/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-14	12/12/00	< 0.5	< 0.5	< 0.5	< 0.5				
MW-14	03/06/01	0.57	< 0.5	< 0.5	< 0.5				
MW-14	10/04/01	< 0.5	< 0.5	< 0.5	0.52				

Table A-3 *Summary of Groundwater Analytical Data*
Volatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene (total)	Chloroform	1,2-DCA	PCE	EDB
MW-14	01/04/02	< 0.5	< 0.5	< 0.5	1				
MW-14	03/18/03	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5
MW-14	05/01/03	< 0.5	< 0.5 U	< 0.5	< 0.5		< 0.5		< 0.5
Number of Samples		262	264	260	263	21	64	20	44
Number of Detections		158	158	160	173	0	10	0	0
Maximum		24,000	85,400	9,000	47,800	ND	19	ND	ND
Maximum Since 1996		4,800	31,000	7,500	94,000	ND	19	ND	ND

Key:
MCL = Maximum contaminant level
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
NA = Not analyzed
ND = Not detected
NE = Not Established
< = Less than laboratory test method reporting limit

Notes:
Results reported in micrograms per liter.
Bolded detection represent a value detected above method detection limits

Laboratory Qualifiers:
j = Value is between the method detection limit and the practical quantitation limit.

ERM Qualifiers:
U = Nondetected sample result.
UJ = Nondetected and estimated at the detection limit.
J = Detected and estimated result.

Table A-4 ***Summary of Groundwater Analytical Data***
Fuel Oxygenate Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	MTBE		DIPE		TAME		ETBE		TBA	
		8020	8260	8015	8260	8015	8260	8015	8260	8015	8260
33673 Road 248	03/18/03	—	< 1	—	< 2	—	< 2	—	< 2	—	< 10
33673 Road 248	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
DW-1	06/08/99	< 5	—	—	—	—	—	—	—	—	—
DW-1	04/04/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
DW-1	06/27/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
DW-1	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
DW-1	03/18/03	—	< 1	—	< 2	—	< 2	—	< 2	—	< 10
DW-1	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-1	10/08/96	58	—	—	—	—	—	—	—	—	—
MW-1	09/04/97	120	—	—	—	—	—	—	—	—	—
MW-1	12/16/97	< 25	—	—	—	—	—	—	—	—	—
MW-1	03/31/99	1	—	—	—	—	—	—	—	—	—
MW-1	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-1	10/26/99	6	—	—	—	—	—	—	—	—	—
MW-1	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-1	04/05/00	11	< 5	17	< 5	69	< 5	282	< 5	9,640	< 100
MW-1	06/28/00	50	—	< 50	—	< 50	—	< 50	—	< 1000	—
MW-1	09/27/00	8.6	< 5	—	—	—	—	—	—	—	—
MW-1	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-1	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-2	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-2	10/26/99	< 150	—	—	—	—	—	—	—	—	—
MW-2	12/27/99	10	—	—	—	—	—	—	—	—	—
MW-2	04/05/00	27	< 100	66	< 100	103	< 100	1020	< 100	51300	< 2000
MW-2	06/28/00	< 50	—	< 50	—	< 50	—	< 50	—	< 1000	—
MW-2	09/27/00	20	< 5	—	—	—	—	—	—	—	—
MW-2	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-2	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-3	10/08/96	65	—	—	—	—	—	—	—	—	—
MW-3	06/03/97	53	—	—	—	—	—	—	—	—	—
MW-3	09/04/97	160	—	—	—	—	—	—	—	—	—
MW-3	12/16/97	< 50	—	—	—	—	—	—	—	—	—
MW-3	03/31/99	33	—	—	—	—	—	—	—	—	—
MW-3	06/07/99	12	—	—	—	—	—	—	—	—	—
MW-3	10/25/99	—	20	—	—	—	—	—	—	—	—
MW-3	12/27/99	—	9.3	—	—	—	—	—	—	—	—

Table A-4 *Summary of Groundwater Analytical Data*
Fuel Oxygenate Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	MTBE		DIPE		TAME		ETBE		TBA	
		8020	8260	8015	8260	8015	8260	8015	8260	8015	8260
MW-3	04/05/00	3.5	< 5	< 5	< 5	< 5	< 5	12	< 5	541	< 100
MW-3	06/28/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-3	09/27/00	16	19	—	—	—	—	—	—	—	—
MW-3	03/19/03	—	2.2	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-3	05/01/03	—	8.8	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-4	10/08/96	9.2	—	—	—	—	—	—	—	—	—
MW-4	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-4	09/04/97	4.2	—	—	—	—	—	—	—	—	—
MW-4	12/16/97	< 10	—	—	—	—	—	—	—	—	—
MW-4	03/31/99	5.2	—	—	—	—	—	—	—	—	—
MW-4	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-4	10/26/99	< 3	—	—	—	—	—	—	—	—	—
MW-4	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-4	04/05/00	3.8	< 5	< 5	< 5	62	< 5	255	< 5	8,950	< 100
MW-4	06/28/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-4	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-4	03/18/03	—	< 0.5	—	< 2	—	< 2	—	< 2	—	< 10
MW-4	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-4 (Dup)	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-5	10/08/96	1.8	—	—	—	—	—	—	—	—	—
MW-5	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-5	09/04/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-5	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-5	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—
MW-5	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-5	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-5	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-5	04/05/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-5	06/27/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-5	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-5	03/18/03	—	< 1	—	< 2	—	< 2	—	< 2	—	< 10
MW-5	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-6	10/08/96	2.1	—	—	—	—	—	—	—	—	—
MW-6	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-6	09/04/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-6	12/16/97	< 0.5	—	—	—	—	—	—	—	—	—
MW-6	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—

Table A-4 *Summary of Groundwater Analytical Data*
Fuel Oxygenate Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	MTBE		DIPE		TAME		ETBE		TBA	
		8020	8260	8015	8260	8015	8260	8015	8260	8015	8260
MW-6	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-6	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-6	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-6	04/04/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-6	06/28/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-6	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-6	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-6	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-7	10/08/96	< 0.5	—	—	—	—	—	—	—	—	—
MW-7	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-7	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-7	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—
MW-7	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-7	10/25/99	—	**23**	—	—	—	—	—	—	—	—
MW-7	12/27/99	—	**2.6**	—	—	—	—	—	—	—	—
MW-7	04/05/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-7	06/28/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-7	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-7	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-7	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-8	10/08/96	**1.1**	—	—	—	—	—	—	—	—	—
MW-8	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-8	09/04/97	**0.8**	—	—	—	—	—	—	—	—	—
MW-8	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-8	03/31/99	**6.3**	—	—	—	—	—	—	—	—	—
MW-8	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-8	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-8	12/27/99	—	**2.6**	—	—	—	—	—	—	—	—
MW-8	04/05/00	**2.3**	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-8	06/28/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-8	09/27/00	**0.81**	—	—	—	—	—	—	—	—	—
MW-8	03/18/03	—	< 1	—	< 2	—	< 2	—	< 2	—	< 10
MW-8	05/01/03	—	**0.3** j	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-9	10/08/96	< 0.5	—	—	—	—	—	—	—	—	—
MW-9	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-9	09/04/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-9	12/16/97	< 5	—	—	—	—	—	—	—	—	—

Table A-4 ***Summary of Groundwater Analytical Data***
Fuel Oxygenate Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	MTBE		DIPE		TAME		ETBE		TBA	
		8020	8260	8015	8260	8015	8260	8015	8260	8015	8260
MW-9	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—
MW-9	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-9	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-9	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-9	04/04/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-9	06/27/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-9	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-9	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5
MW-9 (Dup)	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5
MW-9	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-10	10/08/96	< 0.5	—	—	—	—	—	—	—	—	—
MW-10	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-10	09/04/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-10	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-10	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—
MW-10	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-10	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-10	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-10	04/04/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-10	06/27/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-10	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-10	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5
MW-10	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-11	10/08/96	< 0.5	—	—	—	—	—	—	—	—	—
MW-11	07/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-11	09/04/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-11	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-11	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—
MW-11	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-11	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-11	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-11	04/04/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-11	06/27/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-11	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-11	03/18/03	—	< 1	—	< 2	—	< 2	—	< 2	—	10
MW-11	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20

Table A-4 *Summary of Groundwater Analytical Data*
Fuel Oxygenate Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	MTBE		DIPE		TAME		ETBE		TBA	
		8020	8260	8015	8260	8015	8260	8015	8260	8015	8260
MW-12	10/08/96	76	—	—	—	—	—	—	—	—	—
MW-12	06/03/97	44	—	—	—	—	—	—	—	—	—
MW-12	09/04/97	52	—	—	—	—	—	—	—	—	—
MW-12	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-12	03/31/99	9	—	—	—	—	—	—	—	—	—
MW-12	06/07/99	14	—	—	—	—	—	—	—	—	—
MW-12	10/26/99	18	—	—	—	—	—	—	—	—	—
MW-12	12/27/99	—	16	—	—	—	—	—	—	—	—
MW-12	04/05/00	20	< 5	< 5	< 5	< 5	< 5	33	< 5	2,030	< 100
MW-12	06/28/00	33 (1)	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-12	09/27/00	14	16	—	—	—	—	—	—	—	—
MW-12	03/19/03	—	0.97	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-12	05/01/03	—	7.7	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-12 (Dup)	05/01/03	—	5.7	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-13	10/08/96	99	—	—	—	—	—	—	—	—	—
MW-13	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-13	09/04/97	150	—	—	—	—	—	—	—	—	—
MW-13	12/16/97	< 5	—	—	—	—	—	—	—	—	—
MW-13	03/31/99	1.6	—	—	—	—	—	—	—	—	—
MW-13	06/07/99	< 150	—	—	—	—	—	—	—	—	—
MW-13	10/26/99	< 150	—	—	—	—	—	—	—	—	—
MW-13	12/27/99	13	—	—	—	—	—	—	—	—	—
MW-13	04/05/00	22	< 100	37	< 100	181	< 100	911	< 100	52,200	< 2,000
MW-13	06/28/00	—	—	< 50	—	< 50	—	< 50	—	< 1,000	—
MW-13	09/27/00	—	—	—	—	—	—	—	—	—	—
MW-13	03/19/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 10	—	< 0.5
MW-13	05/01/03	—	< 0.5 UJ	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
MW-14	10/08/96	< 0.5	—	—	—	—	—	—	—	—	—
MW-14	06/03/97	< 0.6	—	—	—	—	—	—	—	—	—
MW-14	09/04/97	4.5	—	—	—	—	—	—	—	—	—
MW-14	03/31/99	< 0.6	—	—	—	—	—	—	—	—	—
MW-14	06/07/99	< 5	—	—	—	—	—	—	—	—	—
MW-14	10/25/99	< 1	—	—	—	—	—	—	—	—	—
MW-14	12/27/99	< 1	—	—	—	—	—	—	—	—	—
MW-14	04/05/00	< 0.5	—	< 5	—	< 5	—	< 5	—	< 100	—
MW-14	06/27/00	< 5	—	< 5	—	< 5	—	< 5	—	< 100	—

Table A-4 *Summary of Groundwater Analytical Data*
Fuel Oxygenate Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	MTBE		DIPE		TAME		ETBE		TBA	
		8020	8260	8015	8260	8015	8260	8015	8260	8015	8260
MW-14	09/27/00	< 0.5	—	—	—	—	—	—	—	—	—
MW-14	03/18/03	—	< 1	—	< 2	—	< 2	—	< 2	—	< 10
MW-14	05/01/03	—	< 0.5	—	< 0.5	—	< 0.5	—	< 0.5	—	< 20
Number of Samples		91	36	20	28	20	28	20	28	18	28
Number of Detections		43	14	3	0	4	0	6	0	6	1
Maximum		160	23	66	ND	103	ND	1,020	ND	51,300	10
Maximum Since 1996		160	23	66	ND	181	ND	1020	ND	52200	10

Key:
MTBE = Methyl-tert butyl ether
DIPE = Di-isopropyl ether
TAME = Tert-amyl methyl ether
ETBE = Ethyl-tert butyl ether
TBA = Tert-butanol
NE = Not established

Notes:
Results reported in micrograms per liter.
Bolded detection represents a value detected above method detection limits.
--- = Not tested
< = Less than laboratory test method reporting limit
(1) MTBE analyzed using United States Environmental Protection Agency Test Method 8015 Modified.

Laboratory Qualifiers:
j = Value is between detection limit and the practical quantitation limit.
ERM Qualifiers:
UJ = Nondetected and estimated at the detection limit.

Table A-5 ***Summary of Groundwater Analytical Data***
Semivolatile Organic Compounds
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	Acenaphthene	Benzoic Acid	Benzyl Alcohol	2,4-Dimethyl-phenol	Fluorene	2-Methyl-Naphthalene	N-Nitro-sodiphenylamine	bis(2-ethyl-hexyl)phthalate	Diethyl-phthalate	Naphthalene	Phenanthrene	Phenol	2-Methyl-phenol	4-Methyl-phenol
33673 Road 248	03/18/03	< 11.0	< 54.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
33673 Road 248	05/01/03	< 11.0	< 56.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
DW-1	03/18/03	< 11.0	< 54.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
DW-1	05/01/03	< 11.0	< 53.0	< 21.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-1	03/19/03	< 10.0	< 50.0	< 20.0	**44**	< 10.0	**55.0**	< 10.0	< 10.0	< 10.0	**82.0**	< 10.0	**18.0**	**19.0**	**2.0** j
MW-1	05/01/03	< 10.0	< 50.0	**10.0** j	**35.0**	**1.0** j	**230.0**	**1.0** j	< 10.0 U	**3.0** j	**530.0**	**2.0** j	< 10.0	< 10.0	**45.0**
MW-2	03/19/03	< 10.0	< 50.0	< 20.0	**14**	< 10.0	**43.0**	< 10.0	**5.0** j	**1.0** j	**63.0**	< 10.0	**2.0** j	**12.0**	**11.0**
MW-2	05/01/03	**2.0** j	< 56.0	< 22.0	**10.0** j	**6.0** j	**380.0**	< 11.0	< 11.0	< 11.0 U	**720.0**	**9.0** j	< 11.0	< 11.0	**44.0**
MW-3	03/19/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-3	05/01/03	< 11.0	< 56.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-4	03/18/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	**2.0** j	< 10.0	< 10.0	< 10.0	**8.0** j	< 10.0	< 10.0	< 10.0	< 10.0
MW-4	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-4 (Dup)	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-5	03/18/03	< 12.0	< 59.0	< 24.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
MW-5	05/01/03	< 11.0	< 56.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-6	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-7	03/19/03	< 11.0	< 53.0	< 21.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-7	05/01/03	< 10.0	< 50.0	< 20.0	< 11.0	< 10.0	< 11.0	< 10.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-8	03/18/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-8	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-9	03/19/03	< 12.0	< 59.0	< 24.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0	< 12.0
MW-9 (Dup)	03/19/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-9	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-10	05/01/03	< 11.0	< 53.0	< 21.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-11	03/18/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-11	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-12	03/19/03	< 11.0	< 53.0	< 21.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
MW-12	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-12 (Dup)	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-13	03/19/03	< 11.0	< 53.0	< 21.0	**16.0**	< 11.0	**110.0**	< 11.0	**10.0** j	**2.0** j	**150.0**	**2.0** j	< 11.0	**6.0** j	**5.0** j
MW-13	05/01/03	< 10.0	**99.0**	< 20.0	**18.0**	< 10.0	**100.0**	< 10.0	< 10.0	< 10.0	**360.0**	< 10.0	**7.0** j	**28.0**	**75.0**
MW-14	03/18/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MW-14	05/01/03	< 10.0	< 50.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Number of Samples		23	23	23	21	23	23	23	23	23	23	23	23	23	23
Number of Detections		1	1	1	6	2	7	1	2	3	7	3	3	4	6
Maximum		2.0	59.0	10	44.0	6.0	380.0	1.0	10.0	3.0	720.0	9.0	18.0	28.0	75.0
Maximum Since 1996		2.0	99.0	10	44.0	6.0	380.0	1.0	10.0	3.0	720.0	9.0	18.0	28.0	75.0

Key:
Results reported in micrograms per liter.
Bolded detection represents a value detected above method detection limits
< = Less than laboratory test method reporting limit
Dup = Duplicate sample

Laboratory Qualifiers:
j = Value is between the method detection limit and the practical quantitation limit.

ERM Qualifiers:
U= Nondetected sample result.

Table A-6 Summary of Groundwater Analytical Data
Natural Attenuation Sample Results
Lemon Cove Maintenance Station
Tulare County, California

Sample Location	Date	Dissolved Oxygen	Reduction - Oxidation Potential (mV)	Methane (µg/L)	Nitrate as N	Sulfate	Total Iron	Ferric Iron	Ferrous Iron
MW-1	03/19/03	**1.20**	**24.2**	**850**	**0.91**	**56**	**0.42**	**1.10**	<0.25
MW-1	05/01/03	**3.54**	**163.6**	**3,000**	**0.72**	**17**	**1.70**	**1.10**	**0.64**
MW-2	03/19/03	**0.94**	**-36.0**	**1,000**	**2.9**	**54**	**0.65**	**0.44**	**0.2**
MW-2	05/01/03	**3.12**	**460.9**	**2,500**	**0.75**	**34**	**2.80**	**0.25**	**2.5**
MW-4	03/18/03	**1.16**	**263.4**	<1.0	**6.7**	**150**	<0.10	<0.25	**0.02**
MW-4	05/01/03	**3.46**	**683.1**	**7.2**	**7.7**	**90**	**0.31**	<0.25	**0.27**
MW-5	03/18/03	**1.27**	**81.8**	**4.3**	**13**	**130**	<0.10	<0.25	**0.01**
MW-5	05/01/03	**3.39**	**611.9**	<1.0	**7.3**	**120**	**0.2**	<0.25	**0.2 j**
MW-8	03/18/03	**1.24**	**69.7**	**1.3**	**13**	**120**	<0.10	<0.25	**0.003**
MW-8	05/01/03	**3.23**	**631.1**	<1.0	**10**	**110**	<0.10	<0.25	<0.25
MW-11	03/18/03	**0.93**	**76.9**	<1.0	**16**	**110**	<0.10	<0.25	**0.02**
MW-11	05/01/03	**3.48**	**628.1**	**0.27 j**	**17**	**120**	<0.10	<0.25	<0.25
MW-14	03/18/03	**0.61**	**79.1**	**140**	**12**	**140**	<0.10	<0.25	**0.006**
MW-14	05/01/03	**5.58**	**523.4**	<1.0	**2.3**	**31**	<0.10	<0.25	<0.25

Key:
Bolded detection represents a value detected above method detection limits
Results reported in milligrams per liter, unless otherwise noted.
mV = millivolt
µg/L = Micrograms per liter

Laboratory Qualifiers:
j = Value is between the method detection limit and the practical quantitation limit.

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
33673 Road 248	03/18/03	< 50	< 50		NA	NA	NA
33673 Road 248	05/01/03	< 50	< 59		NA	NA	NA
DW-1	06/08/99	< 500	< 1000		NA	NA	NA
DW-1	04/04/00	< 50	< 50		90	11	< 100
DW-1	06/27/00	< 50	< 50		350	< 5	< 100
DW-1	09/27/00	< 50	< 50		540	6	NA
DW-1	12/11/00	< 50	< 50		540	6	NA
DW-1	03/06/01	< 50	< 50		540	6	NA
DW-1	11/09/01	< 50	< 50		540	6	NA
DW-1	01/04/02	< 50	< 50		< 2	NA	< 0.1
DW-1	03/18/03	< 50	< 50		NA	NA	NA
DW-1	05/01/03	< 50	< 54		NA	NA	NA
MW-1	10/11/91	46,000	48,000		NA	NA	NA
MW-1	05/28/92	220,000	< 50		NA	NA	NA
MW-1	05/10/93	88,000	< 50		NA	NA	NA
MW-1	01/21/94	250,000	< 50		NA	NA	NA
MW-1	04/28/94	220,000	< 50		NA	NA	NA
MW-1	08/25/94	240,000	< 50		NA	NA	NA
MW-1	12/07/94	240,000	< 50		NA	NA	NA
MW-1	03/24/95	220,000	< 50		NA	NA	NA
MW-1	02/15/96	78,000	< 50		NA	NA	NA
MW-1	04/18/96	130,000	< 50		NA	NA	NA
MW-1	07/31/96	300,000	3,300		NA	NA	NA
MW-1	10/08/96	51,000	2,200		NA	NA	NA
MW-1	06/03/97	150,000	< 500		NA	NA	NA
MW-1	09/04/97	110,000	< 500		NA	NA	NA
MW-1	12/16/97	13,000	< 5000		NA	NA	NA
MW-1	03/31/99	31,000	< 0.5		NA	NA	NA
MW-1	06/07/99	53,000	< 1000		NA	NA	NA
MW-1	10/26/99	14,000	< 400		NA	NA	NA
MW-1	12/27/99	8,100	< 400		NA	NA	NA
MW-1	04/05/00	75,002	9,004		370	9	< 100
MW-1	06/28/00	47,000	22,005		650	6	< 100
MW-1	09/27/00	85,000	3,000		1,200	< 5	NA
MW-1	12/12/00	9,400	< 50		6,350	< 10	NA
MW-1	03/07/01	1,900	< 50		970	< 10	NA
MW-1	10/04/01	23,000	3,200		1,600	< 5	NA
MW-1	01/04/02	8,100	2,700	(6)	< 2	NA	< 0.1
MW-1 (Dup)	01/04/02	11,000	NA		NA	NA	NA
MW-1	03/19/03	7,700	2,000		NA	NA	NA
MW-1	05/01/03	97,000	24,000	(4)	NA	NA	NA
MW-2	10/11/91	170,000	74,000		NA	NA	NA
MW-2	05/28/92	680,000	< 50		NA	NA	NA
MW-2	01/21/94	340,000	< 50		NA	NA	NA
MW-2	04/28/94	180,000	< 50		NA	NA	NA
MW-2	08/25/94	200,000	< 50		NA	NA	NA
MW-2	03/24/95	350,000	< 50		NA	NA	NA
MW-2	06/07/99	67,000	< 1000		NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-2	10/26/99	60,000	< 400		NA	NA	NA
MW-2	12/27/99	54,000	< 400		NA	NA	NA
MW-2	04/05/00	950,002	18,004		230	< 5	< 100
MW-2	06/28/00	150,000	26,004		710	< 5	< 100
MW-2	09/27/00	100,000	1,900		1,800	< 5	NA
MW-2	12/12/00	33,000	< 50		1,480	< 10	NA
MW-2	03/07/01	3,900	< 50		1,510	< 10	NA
MW-2	10/04/01	100,000	24,000		900	< 5	NA
MW-2	03/19/03	5,400	1,600		NA	NA	NA
MW-2	05/01/03	71,000	22,000	(4)	NA	NA	NA
MW-3	10/11/91	3,900	1,700		NA	NA	NA
MW-3	05/28/92	3,300	490		NA	NA	NA
MW-3	05/10/93	1,300	< 50		NA	NA	NA
MW-3	08/03/93	< 50	< 50		NA	NA	NA
MW-3	11/10/93	460	< 50		NA	NA	NA
MW-3	01/21/94	<50	< 50		NA	NA	NA
MW-3	04/28/94	380	< 50		NA	NA	NA
MW-3	08/25/94	1,800	< 50		NA	NA	NA
MW-3	12/07/94	6,500	< 50		NA	NA	NA
MW-3	03/24/95	< 50	< 50		NA	NA	NA
MW-3	02/15/96	3,400	< 50		NA	NA	NA
MW-3	04/18/96	3,900	< 50		NA	NA	NA
MW-3	07/31/96	9,900	1,200		NA	NA	NA
MW-3	10/08/96	10,000	1,300		NA	NA	NA
MW-3	06/03/97	6,600	< 500		NA	NA	NA
MW-3	09/04/97	15,000	< 500		NA	NA	NA
MW-3	12/16/97	8,900	< 5000		NA	NA	NA
MW-3	03/31/99	3,800	< 0.5		NA	NA	NA
MW-3	06/07/99	< 500	< 1000		NA	NA	NA
MW-3	10/25/99	< 500	< 400		NA	NA	NA
MW-3	12/27/99	< 500	< 400		NA	NA	NA
MW-3	04/05/00	2,002	1,003		200	10	< 100
MW-3	06/28/00	< 50	< 50		240	< 5	< 100
MW-3	09/27/00	3,400	490		3,200	< 5	NA
MW-3	12/12/00	80	< 50		3,350	< 10	NA
MW-3	03/06/01	< 50	< 50		< 100	< 10	NA
MW-3	10/04/01	320	840		800	< 5	NA
MW-3	01/04/02	88	< 50		< 2	NA	< 0.1
MW-3	03/19/03	< 50	100		NA	NA	NA
MW-3	05/01/03	160	130	J,(4)	NA	NA	NA
MW-4	10/11/91	ND	ND		NA	NA	NA
MW-4	05/28/92	< 50	< 50		NA	NA	NA
MW-4	05/10/93	1,300	< 50		NA	NA	NA
MW-4	08/03/93	< 50	< 50		NA	NA	NA
MW-4	11/10/93	6,400	< 50		NA	NA	NA
MW-4	01/21/94	< 50	< 50		NA	NA	NA
MW-4	04/28/94	< 50	< 50		NA	NA	NA
MW-4	03/24/95	250	< 50		NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-4	02/15/96	7,400	< 50		NA	NA	NA
MW-4	04/17/96	1,600	< 50		NA	NA	NA
MW-4	07/31/96	2,500	< 50		NA	NA	NA
MW-4	10/08/96	1,500	98		NA	NA	NA
MW-4	06/03/97	< 500	< 500		NA	NA	NA
MW-4	09/04/97	5,200	< 500		NA	NA	NA
MW-4	12/16/97	1,600	< 5000		NA	NA	NA
MW-4	03/31/99	3,700	< 0.5		NA	NA	NA
MW-4	06/07/99	< 500	< 1000		NA	NA	NA
MW-4	10/26/99	2,900	< 400		NA	NA	NA
MW-4	12/27/99	2,800	< 400		NA	NA	NA
MW-4	04/05/00	39,002	1,005		230	5	< 100
MW-4	06/28/00	1,600	< 50		180	11	< 100
MW-4	09/27/00	73	< 50		2,600	< 5	NA
MW-4	12/12/00	4,300	< 50		6,600	11	NA
MW-4	03/07/01	910	< 50		< 100	< 10	NA
MW-4	10/04/01	1,800	750		700	< 5	NA
MW-4	01/04/02	6,500	1300	(6)	< 2	NA	< 0.1
MW-4	03/18/03	540	160		NA	NA	NA
MW-4	05/01/03	260	130	(4)	NA	NA	NA
MW-4 (Dup)	05/01/03	300	200	(4)	NA	NA	NA
MW-5	10/11/91	ND	ND		NA	NA	NA
MW-5	05/28/92	< 50	< 50		NA	NA	NA
MW-5	05/10/93	< 50	< 50		NA	NA	NA
MW-5	08/03/93	< 50	< 50		NA	NA	NA
MW-5	11/10/93	< 50	< 50		NA	NA	NA
MW-5	01/21/94	< 50	< 50		NA	NA	NA
MW-5	04/28/94	< 50	< 50		NA	NA	NA
MW-5	12/07/94	< 50	< 50		NA	NA	NA
MW-5	03/24/95	< 50	< 50		NA	NA	NA
MW-5	02/15/96	< 50	< 50		NA	NA	NA
MW-5	04/17/96	< 50	< 50		NA	NA	NA
MW-5	07/30/96	< 50	< 50		NA	NA	NA
MW-5	10/08/96	< 50	< 50		NA	NA	NA
MW-5	06/03/97	< 500	< 500		NA	NA	NA
MW-5	09/04/97	< 500	< 500		NA	NA	NA
MW-5	12/16/97	< 50	< 5000		NA	NA	NA
MW-5	03/31/99	< 500	< 0.5		NA	NA	NA
MW-5	06/07/99	< 500	< 1000		NA	NA	NA
MW-5	10/25/99	< 500	< 400		NA	NA	NA
MW-5	12/27/99	< 500	< 400		NA	NA	NA
MW-5	04/05/00	< 50	< 50		270	7	< 100
MW-5	06/27/00	< 50	< 50		510	5	< 100
MW-5	09/27/00	65	< 50		< 30	< 5	NA
MW-5	12/11/00	< 50	< 50		23,200	< 10	NA
MW-5	03/06/01	< 50	< 50		1,100	< 10	NA
MW-5	10/04/01	< 50	< 50		500	< 5	NA
MW-5	01/04/02	< 50	< 50		< 2	NA	< 0.1
MW-5	03/18/03	150	40		NA	NA	NA
MW-5	05/01/03	130	170	(4)	NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-6	10/11/91	ND	ND		NA	NA	NA
MW-6	05/28/92	< 50	< 50		NA	NA	NA
MW-6	05/10/93	< 50	< 50		NA	NA	NA
MW-6	08/03/93	< 50	< 50		NA	NA	NA
MW-6	11/10/93	< 50	< 50		NA	NA	NA
MW-6	01/21/94	< 50	< 50		NA	NA	NA
MW-6	04/28/94	< 50	< 50		NA	NA	NA
MW-6	08/25/94	< 50	< 50		NA	NA	NA
MW-6	12/07/94	< 50	< 50		NA	NA	NA
MW-6	03/24/95	< 50	< 50		NA	NA	NA
MW-6	02/15/96	< 50	< 50		NA	NA	NA
MW-6	04/17/96	< 50	210		NA	NA	NA
MW-6	07/30/96	< 50	< 50		NA	NA	NA
MW-6	10/08/96	< 50	< 50		NA	NA	NA
MW-6	06/03/97	< 500	< 500		NA	NA	NA
MW-6	09/04/97	< 500	< 500		NA	NA	NA
MW-6	12/16/97	< 50	< 5000		NA	NA	NA
MW-6	03/31/99	< 500	< 0.5		NA	NA	NA
MW-6	06/07/99	< 500	< 1000		NA	NA	NA
MW-6	10/25/99	< 500	< 400		NA	NA	NA
MW-6	12/27/99	< 500	< 400		NA	NA	NA
MW-6	04/04/00	1,002	< 50		180	11	< 100
MW-6	06/28/00	< 50	< 50		140	< 5	< 100
MW-6	09/27/00	54	< 50		4,900	< 5	NA
MW-6	12/11/00	< 50	< 50		584	< 10	NA
MW-6	03/06/01	< 50	< 50		180	< 10	NA
MW-6	10/04/01	< 50	< 50		800	< 5	NA
MW-6	01/04/02	< 50	91	(6)	< 2	NA	< 0.1
MW-6	03/19/03	< 50	< 50		NA	NA	NA
MW-6	05/01/03	< 50	10	j,(4)	NA	NA	NA
MW-7	10/11/91	ND	ND		NA	NA	NA
MW-7	05/28/92	< 50	< 50		NA	NA	NA
MW-7	05/10/93	< 50	< 50		NA	NA	NA
MW-7	08/03/93	< 50	< 50		NA	NA	NA
MW-7	11/10/93	< 50	< 50		NA	NA	NA
MW-7	01/21/94	< 50	< 50		NA	NA	NA
MW-7	04/28/94	< 50	< 50		NA	NA	NA
MW-7	03/24/95	< 50	< 50		NA	NA	NA
MW-7	02/15/96	< 50	< 50		NA	NA	NA
MW-7	04/18/96	< 50	< 50		NA	NA	NA
MW-7	07/31/96	< 50	< 50		NA	NA	NA
MW-7	10/08/96	< 50	< 50		NA	NA	NA
MW-7	06/03/97	< 50	< 500		NA	NA	NA
MW-7	09/04/97	< 500	< 500		NA	NA	NA
MW-7	12/16/97	< 50	< 5000		NA	NA	NA
MW-7	03/31/99	< 500	< 0.5		NA	NA	NA
MW-7	06/07/99	< 500	< 1000		NA	NA	NA
MW-7	10/25/99	< 500	< 400		NA	NA	NA
MW-7	12/27/99	< 500	< 400		NA	NA	NA
MW-7	04/05/00	< 50	1,003		170	12	< 100

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)		TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-7	06/28/00	< 50		100		360	7	< 100
MW-7	09/27/00	< 50		< 50		< 30	19	NA
MW-7	12/11/00	< 50		< 50		268	< 10	NA
MW-7	03/06/01	< 50		< 50		150	< 10	NA
MW-7	10/04/01	< 50		< 50		500	< 5	NA
MW-7	01/04/02	< 50		< 50		< 2	NA	< 0.1
MW-7	03/19/03	< 50		98		NA	NA	NA
MW-7	05/01/03	< 50		66	(4)	NA	NA	NA
MW-8	10/11/91	ND		ND		NA	NA	NA
MW-8	05/28/92	< 50		< 50		NA	NA	NA
MW-8	05/10/93	< 50		< 50		NA	NA	NA
MW-8	08/03/93	< 50		< 50		NA	NA	NA
MW-8	11/10/93	< 50		< 50		NA	NA	NA
MW-8	01/21/94	< 50		< 50		NA	NA	NA
MW-8	04/28/94	< 50		< 50		NA	NA	NA
MW-8	08/25/94	< 50		< 50		NA	NA	NA
MW-8	12/07/94	< 50		< 50		NA	NA	NA
MW-8	03/24/95	< 50		< 50		NA	NA	NA
MW-8	02/15/96	650		< 50		NA	NA	NA
MW-8	04/18/96	100		< 50		NA	NA	NA
MW-8	07/30/96	< 50		< 50		NA	NA	NA
MW-8	10/08/96	< 50		< 50		NA	NA	NA
MW-8	06/03/97	< 500		< 500		NA	NA	NA
MW-8	09/04/97	< 500		< 500		NA	NA	NA
MW-8	12/16/97	< 50		< 5000		NA	NA	NA
MW-8	03/31/99	< 500		< 0.5		NA	NA	NA
MW-8	06/07/99	< 500		< 1000		NA	NA	NA
MW-8	10/25/99	< 500		< 400		NA	NA	NA
MW-8	12/27/99	< 500		< 400		NA	NA	NA
MW-8	04/05/00	1,002		< 50		80	9	< 100
MW-8	06/28/00	< 50		< 50		140	< 5	< 100
MW-8	09/27/00	53		< 50		2,900	< 5	NA
MW-8	12/11/00	< 50		< 50		765	< 10	NA
MW-8	03/06/01	< 50		54		< 100	< 10	NA
MW-8	10/04/01	< 50		53		800	< 5	NA
MW-8	01/04/02	< 50		< 50		< 2	NA	< 0.1
MW-8	03/18/03	< 50		20		NA	NA	NA
MW-8	05/01/03	< 50	UJ	30	j	NA	NA	NA
MW-9	10/11/91	ND		ND		NA	NA	NA
MW-9	05/28/92	< 50		< 50		NA	NA	NA
MW-9	05/10/93	< 50		< 50		NA	NA	NA
MW-9	08/03/93	< 50		< 50		NA	NA	NA
MW-9	11/10/93	< 50		< 50		NA	NA	NA
MW-9	01/21/94	< 50		< 50		NA	NA	NA
MW-9	04/28/94	< 50		< 50		NA	NA	NA
MW-9	08/25/94	< 50		< 50		NA	NA	NA
MW-9	12/07/94	< 50		< 50		NA	NA	NA
MW-9	03/24/95	< 50		< 50		NA	NA	NA
MW-9	02/15/96	< 50		< 50		NA	NA	NA
MW-9	04/17/96	< 50		< 50		NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-9	07/30/96	< 50	< 50		NA	NA	NA
MW-9	10/08/96	< 50	< 50		NA	NA	NA
MW-9	06/03/97	< 500	< 500		NA	NA	NA
MW-9	09/04/97	< 500	< 500		NA	NA	NA
MW-9	12/16/97	< 50	< 5000		NA	NA	NA
MW-9	03/31/99	< 500	< 0.5		NA	NA	NA
MW-9	06/07/99	< 500	< 1000		NA	NA	NA
MW-9	10/25/99	< 500	< 400		NA	NA	NA
MW-9	12/27/99	< 500	< 400		NA	NA	NA
MW-9	04/04/00	< 50	< 50		120	10	< 100
MW-9	06/27/00	< 50	< 50		140	7	< 100
MW-9	09/27/00	53	< 50		< 30	85	NA
MW-9	12/11/00	< 50	< 50		688	< 10	NA
MW-9	03/06/01	< 50	< 50		< 100	< 10	NA
MW-9	10/04/01	< 50	< 50		500	< 5	NA
MW-9	01/04/02	< 50	56	(6)	< 2	NA	< 0.1
MW-9 (Dup)	01/04/02	< 50	56	(6)	< 2	NA	< 0.1
MW-9	03/19/03	< 50	20		NA	NA	NA
MW-9 (Dup)	03/19/03	< 50	< 50		NA	NA	NA
MW-9	05/01/03	< 50	< 50	UJ	NA	NA	NA
MW-10	10/11/91	ND	ND		NA	NA	NA
MW-10	05/28/92	< 50	< 50		NA	NA	NA
MW-10	05/10/93	< 50	< 50		NA	NA	NA
MW-10	08/03/93	< 50	< 50		NA	NA	NA
MW-10	11/10/93	< 50	< 50		NA	NA	NA
MW-10	01/21/94	< 50	< 50		NA	NA	NA
MW-10	04/28/94	< 50	< 50		NA	NA	NA
MW-10	12/07/94	< 50	< 50		NA	NA	NA
MW-10	03/24/95	< 50	< 50		NA	NA	NA
MW-10	02/15/96	< 50	< 50		NA	NA	NA
MW-10	04/17/96	< 50	< 50		NA	NA	NA
MW-10	07/30/96	< 50	< 50		NA	NA	NA
MW-10	10/08/96	< 50	< 50		NA	NA	NA
MW-10	06/03/97	< 500	< 500		NA	NA	NA
MW-10	09/04/97	< 500	< 500		NA	NA	NA
MW-10	12/16/97	< 50	< 5000		NA	NA	NA
MW-10	03/31/99	< 500	< 0.5		NA	NA	NA
MW-10	06/07/99	< 500	< 1000		NA	NA	NA
MW-10	10/25/99	< 500	< 400		NA	NA	NA
MW-10	12/27/99	< 500	< 400		NA	NA	NA
MW-10	04/04/00	< 50	< 50		180	11	< 100
MW-10	06/27/00	< 50	< 50		340	< 5	< 100
MW-10	09/27/00	55	< 50		< 30	< 5	NA
MW-10	12/11/00	< 50	< 50		8,080	< 10	NA
MW-10	03/06/01	< 50	< 50		< 100	< 10	NA
MW-10	10/04/01	< 50	52		800	< 5	NA
MW-10	01/04/02	< 50	< 50		< 2	NA	< 0.1
MW-10	03/19/03	< 50	22		NA	NA	NA
MW-10	05/01/03	< 50	< 50	UJ	NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)	TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-11	10/11/91	ND	ND	NA	NA	NA
MW-11	05/28/92	< 50	< 50	NA	NA	NA
MW-11	05/10/93	< 50	< 50	NA	NA	NA
MW-11	08/03/93	< 50	< 50	NA	NA	NA
MW-11	11/10/93	< 50	< 50	NA	NA	NA
MW-11	01/21/94	< 50	< 50	NA	NA	NA
MW-11	04/28/94	< 50	< 50	NA	NA	NA
MW-11	08/25/94	< 50	< 50	NA	NA	NA
MW-11	12/07/94	< 50	< 50	NA	NA	NA
MW-11	03/24/95	< 50	< 50	NA	NA	NA
MW-11	02/15/96	< 50	< 50	NA	NA	NA
MW-11	04/17/96	< 50	< 50	NA	NA	NA
MW-11	07/30/96	< 50	< 50	NA	NA	NA
MW-11	10/08/96	< 50	< 50	NA	NA	NA
MW-11	07/03/97	< 500	< 500	NA	NA	NA
MW-11	09/04/97	< 500	< 500	NA	NA	NA
MW-11	12/16/97	< 50	< 5000	NA	NA	NA
MW-11	03/31/99	< 500	< 0.5	NA	NA	NA
MW-11	06/07/99	< 500	< 1000	NA	NA	NA
MW-11	10/25/99	< 500	< 400	NA	NA	NA
MW-11	12/27/99	< 500	< 400	NA	NA	NA
MW-11	04/04/00	< 50	< 50	**270**	9	< 100
MW-11	06/27/00	< 50	**703**	**320**	9	< 100
MW-11	09/27/00	< 50	< 50	< 30	< 5	NA
MW-11	12/12/00	< 50	< 50	**389**	< 10	NA
MW-11	03/06/01	< 50	< 50	**210**	< 10	NA
MW-11	10/04/01	< 50	**52**	**800**	< 5	NA
MW-11	01/04/02	< 50	< 50	< 2	NA	< 0.1
MW-11	03/18/03	< 50	**20**	NA	NA	NA
MW-11	05/01/03	< 50	**20** j	NA	NA	NA
MW-12	10/11/91	**16,400**	**9,300**	NA	NA	NA
MW-12	05/28/92	**15,000**	< 50	NA	NA	NA
MW-12	05/10/93	**26,000**	< 50	NA	NA	NA
MW-12	08/03/93	**88,000**	< 50	NA	NA	NA
MW-12	11/10/93	**82,000**	< 50	NA	NA	NA
MW-12	01/21/94	**21,000**	< 50	NA	NA	NA
MW-12	04/28/94	**43,000**	< 50	NA	NA	NA
MW-12	08/25/94	**7,100**	< 50	NA	NA	NA
MW-12	12/07/94	**69,000**	< 50	NA	NA	NA
MW-12	03/24/95	**60,000**	< 50	NA	NA	NA
MW-12	02/15/96	**10,000**	< 50	NA	NA	NA
MW-12	04/18/96	**4,600**	**910**	NA	NA	NA
MW-12	07/31/96	**160,000**	**1,900**	NA	NA	NA
MW-12	10/08/96	**23,000**	**1,900**	NA	NA	NA
MW-12	06/03/97	**15,000**	< 500	NA	NA	NA
MW-12	09/04/97	**12,000**	< 500	NA	NA	NA
MW-12	12/16/97	**11,000**	< 5000	NA	NA	NA
MW-12	03/31/99	**1,500**	< 0.5	NA	NA	NA
MW-12	06/07/99	**5,000**	< 1000	NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-12	10/26/99	10,000	< 400		NA	NA	NA
MW-12	12/27/99	7,100	< 400		NA	NA	NA
MW-12	04/05/00	28,002	3,004		260	11	< 100
MW-12	06/28/00	2,400	14,004		410	< 5	< 100
MW-12	09/27/00	5,600	670		2,700	< 5	NA
MW-12	12/12/00	2,700	< 50		1,690	< 10	NA
MW-12	03/06/01	310	73		470	< 10	NA
MW-12	10/04/01	4,600	1,300		900	< 5	NA
MW-12	01/04/02	340	340	(6)	< 2	NA	< 0.1
MW-12	03/19/03	140	67		NA	NA	NA
MW-12	05/01/03	140	110	J,(4)	NA	NA	NA
MW-12 (Dup)	05/01/03	140	87	J,(4)	NA	NA	NA
MW-13	10/11/91	70,000	89,000		NA	NA	NA
MW-13	05/28/92	190,000	< 50		NA	NA	NA
MW-13	05/10/93	280,000	< 50		NA	NA	NA
MW-13	01/21/94	7,600,000	92,000		NA	NA	NA
MW-13	04/28/94	380,000	14,000		NA	NA	NA
MW-13	08/25/94	400,000	4,200		NA	NA	NA
MW-13	12/07/94	410,000	3,100		NA	NA	NA
MW-13	03/24/95	480,000	2,400		NA	NA	NA
MW-13	02/15/96	130,000	< 50	(1)	NA	NA	NA
MW-13	04/18/96	130,000	15,000		NA	NA	NA
MW-13	07/31/96	490,000	3,900		NA	NA	NA
MW-13	10/08/96	120,000	1,500		NA	NA	NA
MW-13	06/03/97	120,000	< 500		NA	NA	NA
MW-13	09/04/97	93,000	< 500		NA	NA	NA
MW-13	12/16/97	59,000	< 5000		NA	NA	NA
MW-13	03/31/99	71,000	< 0.5		NA	NA	NA
MW-13	06/07/99	79,000	< 1000		NA	NA	NA
MW-13	10/26/99	100,000	< 400		NA	NA	NA
MW-13	12/27/99	90,000	< 400		NA	NA	NA
MW-13	04/05/00	1,350,002	110,004		370	12	< 100
MW-13	06/28/00	170,000	35,004		530	< 5	< 100
MW-13	09/27/00	96,000	3,200		1,400	7	NA
MW-13	12/12/00	180,000	5,000		855	< 10	NA
MW-13	03/07/01	1,700,000	150,000		2,000	< 10	NA
MW-13	10/04/01	91,000	57,000		900	< 5	NA
MW-13	03/19/03	16,000	7,700		NA	NA	NA
MW-13	05/01/03	46,000	8,600	J	NA	NA	NA
MW-14	10/11/91	ND	ND		NA	NA	NA
MW-14	05/28/92	< 50	80		NA	NA	NA
MW-14	05/10/93	< 50	< 50		NA	NA	NA
MW-14	08/03/93	< 50	< 50		NA	NA	NA
MW-14	11/10/93	< 50	< 50		NA	NA	NA
MW-14	01/21/94	< 50	< 50		NA	NA	NA
MW-14	04/28/94	< 50	< 50		NA	NA	NA
MW-14	08/25/94	< 50	< 50		NA	NA	NA
MW-14	12/07/94	< 50	< 50		NA	NA	NA
MW-14	03/24/95	< 50	< 50		NA	NA	NA

Table A-7 *Summary of Groundwater Analytical Data*
Hydrocarbons, Nitrogen, and Lead
Lemon Cove Maintenance Station
Tulare County, California

Well I.D.	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)		TKN (µg/L)	Total Lead (µg/L)	Organic Lead (µg/L)
MW-14	02/15/96	< 50	< 50		NA	NA	NA
MW-14	04/18/96	< 50	< 50		NA	NA	NA
MW-14	07/31/96	< 50	< 50		NA	NA	NA
MW-14	10/08/96	< 50	< 50		NA	NA	NA
MW-14	06/03/97	< 500	< 500		NA	NA	NA
MW-14	09/04/97	< 500	< 500		NA	NA	NA
MW-14	03/31/99	< 500	< 0.5		NA	NA	NA
MW-14	04/05/99	**1,002**	**803**		**90**	**7**	< 100
MW-14	06/07/99	< 500	< 1000		NA	NA	NA
MW-14	10/25/99	< 500	< 400		NA	NA	NA
MW-14	12/27/99	< 500	< 770		NA	NA	NA
MW-14	06/27/00	< 50	< 50		**170**	< 5	< 100
MW-14	09/27/00	**52**	< 50		**3,200**	< 5	NA
MW-14	12/12/00	< 50	< 50		**351**	< 10	NA
MW-14	03/06/01	< 50	< 50		< 100	< 10	NA
MW-14	10/04/01	< 50	**74**		**600**	< 5	NA
MW-14	01/04/02	< 50	< 50		< 2	NA	< 0.1
MW-14	03/18/03	< 50	**30**		NA	NA	NA
MW-14	05/01/03	< 50	**10**	j	NA	NA	NA
Number of Samples		402	402		70	60	30
Number of Detections		160	90		79	28	0
Maximum		7,600,000	150,000		23,200	85	ND
Maximum Since 1996		950,002	74,000		23,200	85	ND

Key:

MCL = Maximum contaminant level
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
NE = Not Established
NA = Not analyzed
ND = Not detected
< = Less than laboratory test method reporting limit

Notes:

Results reported in micrograms per liter.
Bolded detection represent a value detected above method detection limits
1 = Laboratory report notation "Diesel appears to be masked by high concentrations of gasoline."
2 = Laboratory report notation "Sample contains hydrocarbons that do not match the gasoline pattern. However, quantitation is based on a gasoline standard."
3 = Laboratory report notation "Sample contains hydrocarbons that are heavier than diesel. However, quantitation is based on diesel standard."
4 = Laboratory report notation "Sample contains hydrocarbons that fall within the diesel range, but does not match diesel pattern."
5 = Laboratory report notation "Sample contains hydrocarbons that are lighter than diesel. However, quantitation is based on diesel standard."
6 = Laboratory report notation "Diesel Chromatogram pattern was not typical."
7 = No MCL, action level requires treatment and public notification at 15 micrograms per liter.

Laboratory Qualifiers:

j = Value is between the method detection limit and the practical quantitation limit.

ERM Qualifiers:

U = Nondetected sample result.
UJ = Nondetected and estimated at the detection limit.
J = Detected and estimated result.

Appendix B
Calculation of Risk-Based Screening Levels

Table B-1 *Soil Screening Level Calculations*
Maintenance Worker Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Dermal Absorption	PEF (m^3/kg)	Oral CSF (mg/kg-day)^-1	Inhalation CSF (mg/kg-day)^-1	Oral RfD (mg/kg-day)	Inhalation RfD (mg/kg-day)	Cs (carc) (mg/kg)	Cs (noncarc) (mg/kg)	Cs (mg/kg)
Total Recoverable Petroleum Hydrocarbons	0.1	1.32E+09 ^			3.00E-02	3.00E-02	not applicable	2.61E+04	2.6E+04
Arsenic	0.1	1.32E+09	1.50E+00	1.20E+01	3.00E-04	not available	1.62E+00	2.61E+02	1.6E+00
Barium	0.1	1.32E+09			7.00E-02	1.40E-04	not applicable	5.72E+04	5.7E+04
Cadmium	0.1	1.32E+09	3.80E-01	1.50E+01	5.00E-04	not available	6.38E+00	4.35E+02	6.4E+00
Total Chromium *	0.1	1.32E+09			1.00E+00	1.00E+00	not applicable	8.70E+05	8.7E+05
Lead	0.1	1.32E+09	8.50E-03	4.20E-02	not available	not available	2.87E+02	not applicable	2.9E+02
Mercury	0.1	1.32E+09			3.00E-04	not available	not applicable	2.61E+02	2.6E+02
Selenium	0.1	1.32E+09			5.00E-03	not available	not applicable	4.35E+03	4.4E+03
Silver	0.1	1.32E+09			5.00E-03	not available	not applicable	4.35E+03	4.4E+03

Equations (Base Worker)

Cs (carc) = (TRL x ATc x BW) / {(EF x ED) x [(IngR x 1E-06 kg/mg x CSFo) + [InhR x CSFi/ (PEF)] + (SA x DA x ABS x 1E-06 kg/mg x CSFo)]}

Cs (noncarc) = [(THI x ATn x BW) / (EF x ED)] x {1/[(IngR x 1E-06 kg/mg/RfDo) + (SA x DA x ABS x 1E-06/RfDo) + (InhR x (1/(PEF)) x (1/RfDi))]}

Cs (carc) =	health based level for soil, based on carcinogenic effects		
Cs (noncarc) =	health based level for soil, based on noncarcinogenic effects		
Target Risk Level (TRL) =	0.000001		
Target Hazard Index (THI) =	1		
Body weight (BW) =	70	kg	
Averaging time (ATc) =	25550	days	(carcinogenic constituents)
Averaging time (ATn) =	9125	days	(noncarcinogenic constituents)
Exposure frequency (EF) =	250	days/yr	
Exposure duration (ED) =	25	yrs	
Soil ingestion rate (IngR) =	100	mg/day	
Skin surface area (SA) =	5800	cm^2/day	
Dust adherence (DA) =	0.03	mg/cm^2	
Inhalation rate (InhR) =	20	m^3/day	
Particulate emission factor (PEF) =	1.32E+09	m^3/kg	(USEPA Region IX default value)
ABS =	absorption factor (chemical specific)		(USEPA Region IX, 2002)
CSFo =	oral slope factor (chemical specific)		(OEHHA, May 2002)
CSFi =	inhalation slope factor (chemical specific)		(OEHHA, May 2002)
RfDo =	oral reference dose (chemical specific)		(USEPA Region IX, 2002)
RfDi =	inhalation reference dose (chemical specific)		(USEPA Region IX, 2002)

*RfDo and RfDi for chromium III taken from the Integrated Risk Information System (IRIS, June 1999)

^Given the age of the petroleum hydrocarbon contamination at this site, it is unlikely that significant volatile fractions are associated with detected total recoverable petroleum hydrocarbons.

For those constituents lacking reference doses or slope factors, values for structurally similar surrogate compounds were selected.

Table B-2 *Soil Screening Level Calculations*
Construction Worker Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Dermal Absorption	PEF or VF (m^3/kg)	Oral CSF (mg/kg-day)^-1	Inhalation CSF (mg/kg-day)^-1	Oral RfD (mg/kg-day)	Inhalation RfD (mg/kg-day)	Cs (carc) (mg/kg)	Cs (noncarc) (mg/kg)	Cs (mg/kg)
Benzene	0.1	2.70E+03	1.00E-01	1.00E-01	3.00E-03	1.70E-03	1.11E+02	2.79E+02	1.1E+02
Ethylbenzene	0.1	5.40E+03	3.85E-03	3.85E-03	1.00E-01	2.90E-01	5.33E+03	6.62E+04	5.3E+03
Toluene	0.1	4.00E+03			2.00E-01	1.10E-01	not applicable	2.62E+04	2.6E+04
Xylenes	0.1	6.10E+03			2.00E+00	2.00E-01	not applicable	7.64E+04	7.6E+04
TPH as gasoline	0.13	1.00E+06 ^			6.00E-02	5.70E-02	not applicable	1.05E+05	1.1E+05
TPH as diesel	0.13	1.00E+06 ^			3.00E-02	3.00E-02	not applicable	5.28E+04	5.3E+04
Kerosene	0.13	1.00E+06 ^			3.00E-02	3.00E-02	not applicable	5.28E+04	5.3E+04
Total Recoverable Petroleum Hydrocarbons	0.13	1.00E+06 ^			3.00E-02	3.00E-02	not applicable	5.28E+04	5.3E+04
Arsenic	0.01	1.00E+06	1.50E+00	1.20E+01	3.00E-04	not available	9.07E+01	7.71E+02	9.1E+01
Barium	0.01	1.00E+06			7.00E-02	1.40E-04	not applicable	8.52E+03	8.5E+03
Cadmium	0.01	1.00E+06	3.80E-01	1.50E+01	5.00E-04	not available	1.83E+02	1.28E+03	1.8E+02
Total Chromium *	0.01	1.00E+06			1.00E+00	1.00E+00	not applicable	2.47E+06	2.5E+06
Lead	0.01	1.00E+06	8.50E-03	4.20E-02	not available	not available	1.76E+04	not applicable	1.8E+04
Mercury	0.01	1.00E+06			3.00E-04	not available	not applicable	7.71E+02	7.7E+02
Selenium	0.01	1.00E+06			5.00E-03	not available	not applicable	1.28E+04	1.3E+04
Silver	0.01	1.00E+06			5.00E-03	not available	not applicable	1.28E+04	1.3E+04

Equations (Base Worker)

Cs (carc) = (TRL x ATc x BW) / {(EF x ED) x [(IngR x 1E-06 kg/mg x CSFo) + [InhR x CSFi/ (VF or PEF)] + (SA x DA x ABS x 1E-06 kg/mg x CSFo)]}

Cs (noncarc) = [(THI x ATn x BW) / (EF x ED)] x {1/[(IngR x 1E-06 kg/mg/RfDo) + (SA x DA x ABS x 1E-06/RfDo) + (InhR x (1/(VF or PEF)) x (1/RfDi))]}

Cs (carc) =	health based level for soil, based on carcinogenic effects		
Cs (noncarc) =	health based level for soil, based on noncarcinogenic effects		
Target Risk Level (TRL) =	0.000001		
Target Hazard Index (THI) =	1		
Body weight (BW) =	70	kg	
Averaging time (ATc) =	25550	days	(carcinogenic constituents)
Averaging time (ATn) =	365	days	(noncarcinogenic constituents)
Exposure frequency (EF) =	20	days/yr	
Exposure duration (ED) =	1	yrs	
Soil ingestion rate (IngR) =	480	mg/day	
Skin surface area (SA) =	5800	cm^2/day	
Dust adherence (DA) =	0.3	mg/cm^2	
Inhalation rate (InhR) =	20	m^3/day	
Particulate emission factor (PEF) =	1.00E+06	m^3/kg	(USEPA Region IX default value)
Volatilization factor (VF) =	chemical specific (m^3/kg; USEPA Region IX, 2002)		
ABS =	absorption factor (chemical specific)		(USEPA Region IX, 2002)
CSFo =	oral slope factor (chemical specific)		(OEHHA, May 2002 or USEPA Region IX, 2002)
CSFi =	inhalation slope factor (chemical specific)		(OEHHA, May 2002 or USEPA Region IX, 2002)
RfDo =	oral reference dose (chemical specific)		(USEPA Region IX, 2002)
RfDi =	inhalation reference dose (chemical specific)		(USEPA Region IX, 2002)

^Given the age of the petroleum hydrocarbon contamination at this site, it is unlikely that significant volatile fractions are associated with detected total recoverable petroleum hydrocarbons.
For those constituents lacking reference doses or slope factors, values for structurally similar surrogate compounds were selected.

Table B-3 ***Groundwater Screening Level Calculations***
Residential Land Use Scenario
Lemon Cove Maintenance Station
Tulare County, California

Constituent	Oral CSF (mg/kg-day)^-1	Inhalation CSF (mg/kg-day)^-1	Oral RfD (mg/kg-day)	Inhalation RfD (mg/kg-day)	Cw (carc) (µg/l)	Cw (noncarc) (µg/l)	Cw (µg/l)
Benzene	1.00E-01	1.00E-01	3.00E-03	1.70E-03	1.70E-01	1.24E+01	1.70E-01
Ethylbenzene	3.85E-03	3.85E-03	1.00E-01	2.90E-01	4.42E+00	2.12E+03	4.42E+00
Toluene	--	--	2.00E-01	1.10E-01	not applicable	8.03E+02	8.03E+02
Xylene	--	--	2.00E+00	2.00E-01	not applicable	1.46E+03	1.46E+03
Methyl tert-Butyl Ethanol	1.80E-03	9.10E-04	8.60E-01	8.60E-01	1.87E+01	6.28E+03	1.87E+01
Di-isopropyl Ether	1.80E-03	9.10E-04	8.60E-01	8.60E-01	1.87E+01	6.28E+03	1.87E+01
tert-Amyl Methyl Ether	1.80E-03	9.10E-04	8.60E-01	8.60E-01	1.87E+01	6.28E+03	1.87E+01
Ethyl-tert Butyl Ether	1.80E-03	9.10E-04	8.60E-01	8.60E-01	1.87E+01	6.28E+03	1.87E+01
tert-Butanol	1.80E-03	9.10E-04	8.60E-01	8.60E-01	1.87E+01	6.28E+03	1.87E+01
TPH as gasoline			6.00E-02	5.70E-02	not applicable	4.16E+02	4.16E+02
TPH as diesel			3.00E-02	3.00E-02	not applicable	2.19E+02	2.19E+02
Chloroform	3.10E-02	1.90E-02	1.00E-02	8.60E-04	8.96E-01	6.28E+00	8.96E-01
1,2-Dichloroethane	4.70E-02	7.20E-02	3.00E-02	1.40E-03	2.37E-01	1.02E+01	2.37E-01
Tetrachloroethene	5.40E-01	2.10E-02	1.00E-02	1.70E-01	8.11E-01	1.24E+03	8.11E-01
Ethylene Dibromide	3.60E+00	2.50E-01	5.70E-05	5.70E-05	6.81E-02	4.16E-01	6.81E-02
Acenaphthene			6.00E-02	6.00E-02	not applicable	4.38E+02	4.38E+02
Benzoic Acid			4.00E+00	4.00E+00	not applicable	2.92E+04	2.92E+04
Benzyl Alcohol			3.00E-01	3.00E-01	not applicable	2.19E+03	2.19E+03
2,4-Dimethylphenol			2.00E-02	2.00E-02	not applicable	1.46E+02	1.46E+02
Fluorene			4.00E-02	4.00E-02	not applicable	2.92E+02	2.92E+02
2-Methylnaphthalene			2.00E-02	8.60E-04	not applicable	6.28E+00	6.28E+00
N-Nitro-sodiphenylamine	9.00E-03	9.00E-03	not available	not available	1.89E+00	not applicable	1.89E+00
bis(2-ethylhexyl)phthalate	1.40E-02	1.40E-02	2.00E-02	2.20E-02	1.22E+00	1.61E+02	1.22E+00
Diethylphthalate			8.00E-01	8.00E-01	not applicable	5.84E+03	5.84E+03
Naphthalene			2.00E-02	8.60E-04	not applicable	6.28E+00	6.28E+00
Phenanthrene			3.00E-02	3.00E-02	not applicable	2.19E+02	2.19E+02
Phenol			6.00E-01	6.00E-01	not applicable	4.38E+03	4.38E+03
2-Methylphenol			5.00E-02	5.00E-02	not applicable	3.65E+02	3.65E+02
4-Methylphenol			5.00E-03	5.00E-03	not applicable	3.65E+01	3.65E+01

Table B-3 ***Groundwater Screening Level Calculations***
Residential Land Use Scenario
Lemon Cove Maintenance Station
Tulare County, California

Equations

Cs (carc) = (TRL x ATc x BW x 1,000 µg/mg) / {(EF x ED) x [(IngR x 1E-06 kg/mg x CSFo) + (InhR x CSFi x VF)]}

Cs (noncarc) = [(THI x ATn x BW x 1,000 µg/mg) / (EF x ED)] x {1/[(IngR x 1E-06 kg/mg/RfDo) + (InhR x VF x (1/RfDi))]}

Cs (carc) =	health based level for soil, based on carcinogenic effects			
Cs (noncarc) =	health based level for soil, based on noncarcinogenic effects			
Target Risk Level (TRL) =	0.000001			
Target Hazard Index (THI) =	1			
Body weight (BW) =	70	kg		
Averaging time (ATc) =	25550	days	(carcinogenic constituents)	
Averaging time (ATn) =	10950	days	(noncarcinogenic constituents)	
Exposure frequency (EF) =	350	days/yr		
Exposure duration (ED) =	30	yrs		
Groundwater ingestion rate (IngR) =	2	l/day		(USEPA Region IX, 2002)
Inhalation rate (InhR) =	20	m^3/day		(USEPA Region IX, 2002)
Volatilization factor (VF) =	0.5	l/m^3		(OEHHA, May 2002 or USEPA Region IX, 2002)
CSFo =	oral slope factor (chemical specific)			(OEHHA, May 2002 or USEPA Region IX, 2002)
CSFi =	inhalation slope factor (chemical specific)			(USEPA Region IX, 2002)
RfDo =	oral reference dose (chemical specific)			(USEPA Region IX, 2002)
RfDi =	inhalation reference dose (chemical specific)			

For those constituents lacking reference doses or slope factors, values for structurally similar surrogate compounds were selected.

4. CONTRACTOR'S ENDORSEMENT FORM

CONTRACTOR'S ENDORSEMENT

Folder No. 2667-12

A. As a condition to entering upon Licensor's right-of-way to perform work pursuant to this Agreement, Licensee's contractor *(Fill in)*:

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(hereinafter "Contractor") agrees to comply with all the terms and provisions of this Agreement relating to the work to be performed and the insurance requirements set forth in Exhibit C.

B. Before the Contractor commences any work, the Contractor will pay the Licensor a nonrefundable payment of $500 upon execution and return of this Contractor's Endorsement, and will provide the Licensor with a certificate issued by its insurance carrier providing the insurance coverage required pursuant to Exhibit C in a policy which contains the following type endorsement:

UNION PACIFIC RAILROAD COMPANY is named as an additional insured with respect to all liabilities arising out of Insured's performance of work on behalf of the Licensee.

All insurance correspondence shall be directed to: John S. Hertzler - Folder No. 2667-12, Union Pacific Railroad Company, 1400 Douglas Street STOP 1690, Omaha, Nebraska 68179-1690.

_____

(Please print Contractor's Name above)

X_____

Title:_____