CAMBRIA

October 3, 1997

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577

97 OCT -7 PM 3:35
ENVIRONMENTAL PROTECTION

Re: **Underground Storage Tank Removal and Soil Sampling Report**
Shell Service Station
999 San Pablo Avenue
Albany, California
WIC #204-0079-0109
Cambria Project #240-366-6

Dear Ms. Hugo:

This report summarizes the underground storage tank removal activities and presents the results of the soil sampling performed by Cambria Environmental Technology, Inc. (Cambria) on behalf of Shell Oil Products Company (Shell) at the site referenced above. The sampling was conducted following removal of three underground storage tanks (USTs), five dispensers, and approximately 200 ft of associated piping. Two new USTs were installed into a new excavation, and some of the soil from the new excavation was used to backfill the old tank excavation. Three observation wells were also installed in the old tank excavation during the backfilling. Presented below is a summary of these activities, soil sampling, air sampling, and analytic results. Cambria's standard tank removal sampling procedures, complete sample analytical reports, and soil disposal confirmation documents are included as Attachments A through G.

BACKGROUND

The site is an active Shell service station located at the northeast corner of the intersection of San Pablo Avenue and Marin Avenue in Albany, California. The site is located in a commercial/residential area. An active Arco service station is immediately south of the site, across Marin Avenue.

The site has had a quarterly ground water monitoring program since May 1991. During monitoring, only well S-5, located adjacent to the ARCO station south of the Shell station, has contained separate phase hydrocarbons (SPH).

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ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700

On July 31, 1996, Weiss Associates (Weiss) of Emeryville, California drilled 7 soil borings, labeled B-1 through B-7, at the site and collected soil samples to pre-characterize soil for disposal. The analytical results of the soil samples are summarized on Table 1 and included as Attachment B.

On October 21, 1996, Paradiso Mechanical of San Leandro, California removed three gasoline underground storage tanks, five product dispensers, and associated piping from the site. These improvements were replaced with two fiberglass gasoline USTs, new product dispensers, and new fiberglass piping. The locations of the former tanks and dispensers and the current tanks are shown on the attached figures.

Ground water was encountered in the former tank excavation during the tank removal and sampling activities. Separate phase hydrocarbons (SPHs) that were present on the ground water were removed from the excavation and disposed during the dewatering of the excavation. Soil types encountered during the excavation and sampling were clayey silts, sandy silts, and silty sand of low to high estimated permeability to the total depth explored of 15 ft.

EXCAVATION AND SAMPLING ACTIVITIES

Attendees:

Susan Hugo	Senior Hazardous Materials Specialist	Alameda County Department of Environmental Health (ACDEH)
Brian Crudo	Inspector	Albany Fire Department
Paul Waite	Project Engineer	Cambria Environmental Technology, Inc.
Mark Freitas	Site Supervisor	Paradiso Mechanical

Sampling Methods and Analyses: Soil samples were collected during activities at this site by driving brass tubes into soil either in situ or from a backhoe bucket. The tubes were driven into the soil either with a slide hammer or a mallet. Sequoia Analytical of Walnut Creek, California analyzed samples that Cambria collected from the site. Constituents analyzed included total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl-tert-butyl-ether (MTBE) by EPA Method 8020; and total lead by EPA Method 7420/7421.

Gasoline Tank Removal: On October 21, 1996, Paradiso Mechanical removed three gasoline underground storage tanks, five associated dispensers, and approximately 200 ft of associated piping using a backhoe. The tanks were labeled T-1, T-2, and T-3 and had capacities of 10,000-gallons each. Tanks T-1 and T-3 were constructed of fiberglass and tank T-2 was constructed of steel. Prior to removal, the tanks were triple-rinsed by Crosby and Overton of Oakland, California. Minor pitting was observed on the sides of the steel tank

and tanks T-1 and T-3 had numerous 6-inch diameter patches; however, no evidence of cracks, holes or other signs of structural failure was observed. The USTs were disposed at Erickson, Inc. of Richmond, California.

Former Gasoline Tank Excavation Sampling: On October 22, 1996, Cambria collected samples from the walls of the east end of the former gasoline tank excavation. The samples were collected above the standing ground water in the excavation. On November 1, 1996, Cambria collected similar samples from the west end of the former tank excavation. A total of 12 excavation samples were collected. Because there are monitoring wells at the site, Ms. Hugo did not require sampling of the ground water in the former tank excavation. Sample locations are shown on Figure 1 and analytic results are summarized on Table 3. Standard sampling procedures are presented in Attachment A and complete analytic reports are included as Attachment D.

Former Tank Excavation Pea Gravel Sampling and Reuse: On October 22, 1996, Cambria sampled the pea gravel excavated from the former tank excavation. Samples were analyzed for TPHg, BTEX, MTBE, and total lead as requested by Ms. Hugo. Based on the analytical results, Ms. Hugo allowed the pea gravel to be used as backfill in the former tank excavation. The excavation backfilling activities are described below. Complete analytical results are included as Attachment C.

Former Tank Excavation Dewatering: On October 23, 1996, Crosby & Overton used a vacuum truck to remove the ground water from the former tank excavation, as required by Ms. Hugo. The SPH was skimmed from the surface of the water prior to excavation dewatering. A total of 1,400 gallons of fluids were removed from the excavation and hauled by Crosby & Overton to the Shell refinery in Martinez, California for recycling.

Ambient Air Sampling: In response to Ms. Hugo's concerns about hydrocarbons volatilizing from the former tank excavation, Paul Waite of Cambria collected two ambient air samples at the east edge of the property near the former tank excavation on October 25, 1996. The air samples were collected in inert tedlar bags using a "bell jar" sampling device. Once collected, the samples were transported under chain-of-custody to Sequoia Analytical for analysis. The samples were analyzed for TPHg, BTEX, and MTBE. Complete analytical results are included as Attachment E.

Dispenser and Product Piping Sampling: On November 1, 1996, Cambria collected eleven soil samples from beneath the former product piping, vent lines, and dispensers. Sample locations are shown on Figure 1 and analytic results are summarized on Table 3. Complete analytical results are included as Attachment D.

New Tank Vault Sampling: A new tank vault was excavated at the southwest corner of the site to install two new double-walled fiberglass tanks. Weiss had sampled soil from borings in this area to pre-characterize the soil for disposal or for reuse at the site as backfill in the former tank excavation. However, after reviewing results, Ms. Hugo requested that additional samples be collected. On October 25, 1996, Paradiso Mechanical excavated two exploratory trenches along the north and south sides of the proposed new tank excavation. Cambria collected soil samples from the ends and middles of these trenches at discrete depths between 3 ft and 15 ft. The samples were analyzed for TPHg, BTEX, and MTBE. Sample locations are shown on Figure 2 and sample results are summarized on Table 2. Complete analytical results are included as Attachment F.

Based on the analytical results, Ms. Hugo allowed Shell to reuse the soil from the 0 ft to 4 ft and from 9 ft to 15 ft intervals as backfill in the former tank excavation. Because of the analytical results and visual observation of staining, the soil from 4 ft to 9 ft depth was not used as backfill. This soil, approximately 310 tons, was hauled offsite for disposal.

Former Tank Excavation Backfilling: The former tank excavation was backfilled in accordance with the October 24, 1996 *Excavation Work Plan* submitted to the ACDEH, which Ms. Hugo verbally approved at the site on October 25, 1996. Imported drain rock and pea gravel was installed in the bottom of the former tank excavation to a depth of approximately 8 ft below the final grade. The 80 cubic yds of pea gravel removed from the excavation was then placed above the imported pea gravel. A geofabric liner was then placed on top of the pea gravel. The soil removed from the new tank excavation at depths of 0 to 4 ft and 9 to 15 ft was placed on top of the fabric liner, in accordance with Ms. Hugo's approval.

Backfill Well Installation: Paradiso Mechanical installed three backfill wells, labeled RW-1, RW-2, and RW-3, in the former tank excavation during the backfilling activities. The wells were installed for potential future remediation in accordance with the October 24, 1996 *Excavation Work Plan* submitted to the ACDEH. They were constructed of 4-inch diameter PVC with 8 ft of solid casing and 6 ft of 0.020" slotted casing. The casings were secured with a cap and finished with vaults. The locations of the wells are shown on Figure 2.

Waste Disposal/Recycling: The USTs were disposed at Erickson, Inc. of Richmond, California. Excavated soil was either reused onsite as backfill or transported to Forward Landfill in Stockton, California by Manley & Sons Trucking (Manley) of Sacramento, California. On October 22, 1996, approximately 235 tons of soil removed from the tank excavation was hauled by Manley to Forward Landfill. On November 1, 1996, an additional 126 tons of soil from the bottom and sloughing sidewalls of the former tank excavation were

hauled to Forward Landfill by Manley. Forward Landfill's Disposal Confirmation form is included as Attachment G. Crosby & Overton arranged for the disposal of the tank rinsate at the Shell refinery.

ANALYTIC RESULTS

Pea Gravel Sampling: Four samples (labeled SG-1 through SG-4) of the pea gravel that was removed from the former tank excavation during the tank removal were collected and analyzed for TPHg, BTEX, MTBE, and total lead. The maximum constituent concentrations detected in the gravel were 35 parts per million (ppm) TPHg, 0.19 ppm benzene, and 19 ppm total lead. No MTBE was detected in any of the samples. Based on the analytical results, Ms. Hugo allowed the gravel to be reused as backfill within the former tank excavation.

Former Tank Excavation: Twelve samples (labeled E-1 through E-12) were collected from the sidewalls of the former tank excavation. Petroleum hydrocarbons and lead were detected in the samples. The maximum concentrations detected were 6,400 ppm TPHg, 44 ppm benzene, 30 ppm MTBE, and 30 ppm total lead.

Dispensers and Product Piping: Eleven samples were collected from beneath the former dispensers (samples D-1 through D-5), product piping (P-1 through P-4), and vent piping (V-1 and V-2). The maximum concentrations detected were 1,900 ppm TPHg, 1.4 ppm benzene, 10 ppm MTBE, and 21 ppm total lead.

Ambient Air Samples: Two air samples (Air-1 and Air-2) were collected at the site. No TPHg, BTEX, or MTBE were detected in the air samples analyzed.

New Tank Excavation: Twenty-two soil samples were collected from two trenches along the north and south sides of the new tank excavation before the area was fully excavated. Soil samples were labeled according to their location within the excavation (northwest, north-center, northeast, southwest, south-center, or southeast) and their depth. Three or four samples were collected from each of the six locations within the trenches, as shown on Figure 2. Based on the analytical results, Ms. Hugo allowed Shell to use the soil from the new excavation from 0 to 4 ft depth and from 9 to 15 ft depth to be used as backfill in the former tank excavation. The maximum hydrocarbon concentrations detected in the samples collected from these depth ranges were 58 ppm TPHg, 0.12 ppm benzene, and 0.10 ppm MTBE.

The maximum concentrations detected in the samples from between 4 ft and 9 ft were 1,500 ppm TPHg, 0.32 ppm benzene, and 8.9 ppm MTBE. Because of the analytical results and visual observation of staining, the soil from 4 to 9 ft depth removed from the new tank excavation was disposed of at Forward Landfill.

SUMMARY

On October 21, 1996, two fiberglass gasoline underground storage tanks, one steel gasoline UST, five product dispensers, and associated piping were removed from the site. These improvements were replaced with two fiberglass gasoline USTs, new product dispensers, and new fiberglass piping. The new USTs were installed into a new excavation. Some of the pea gravel excavated from the former tank excavation, along with some of the soil from the new tank excavation, was used as backfill in the former tank excavation. Ambient air samples collected in response to ACDEH concerns did not contain petroleum hydrocarbons. Cambria collected soil samples from the sidewalls of the former tank excavation and beneath the former piping and dispensers. Samples were collected from the new tank excavation to classify the soil for disposal or reuse.

Approximately 361 tons of soil excavated at the site was hauled offsite for disposal. Approximately 1,400 gallons of SPH and ground water that entered the former tank excavation was extracted and hauled to the Shell refinery for recycling.

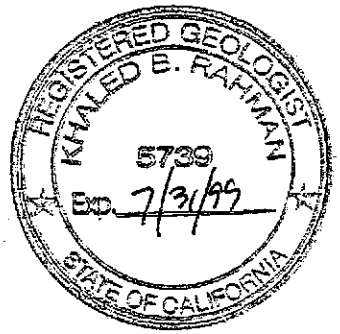
CLOSING

We appreciate your assistance with this project. Please call if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Paul D. Waite
Project Engineer

Khaled B. Rahman, R.G., C.H.G.
Senior Geologist



Figures:
1 - Former Tank Excavation and Piping Soil Sample Locations
2 - Recovery Well Locations and Trench Sample Locations

Tables:
1 - Soil Analytic Data - Weiss Associates Precharacterization Borings
2 - Soil Analytic Data - Trench Samples from New Tank Excavation
3 - Soil Analytic Data - Former Tank Pit Excavation, Piping, and Dispenser Samples

Attachments: A - Standard Tank Removal Sampling Procedures
B - Analytic Reports for Soil Samples - Weiss Associates Borings
C - Analytic Reports for Soil Samples - Pea Gravel
D - Analytic Reports for Soil Samples - Former Tank Excavation, Dispensers, and Piping
E - Analytic Reports for Air Samples
F - Analytic Reports for Soil Samples - New Tank Excavation
G - Soil Disposal Confirmation

cc: Mr. A. E. (Alex) Perez, Shell Oil Products Company, 501 Shell Avenue, Martinez, CA 94553
Mr. Brett Hovland, Shell Oil Products Company, 501 Shell Avenue, Martinez, CA 94553

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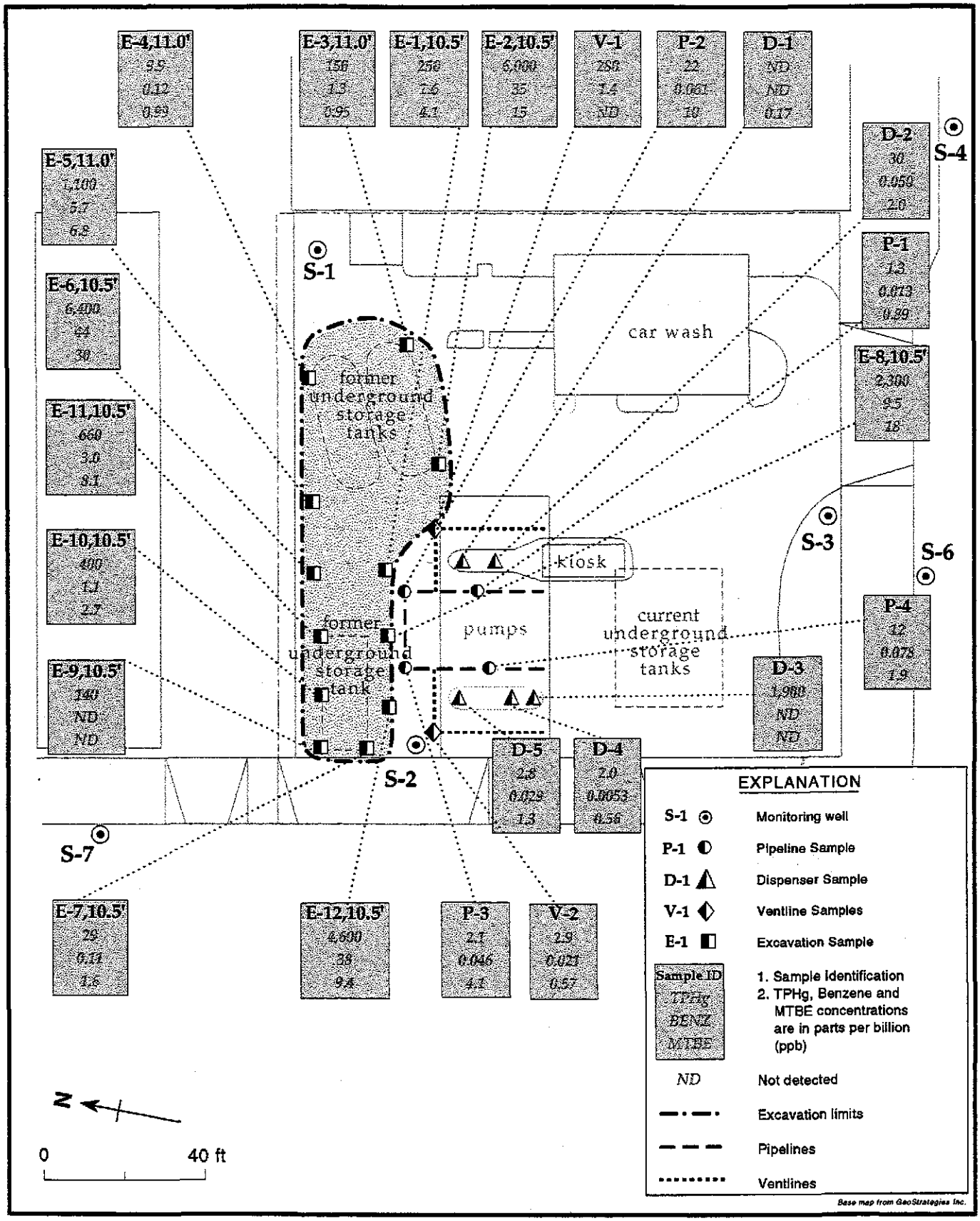

Figure 1. Former Tank Excavation and Piping Soil Sample Locations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

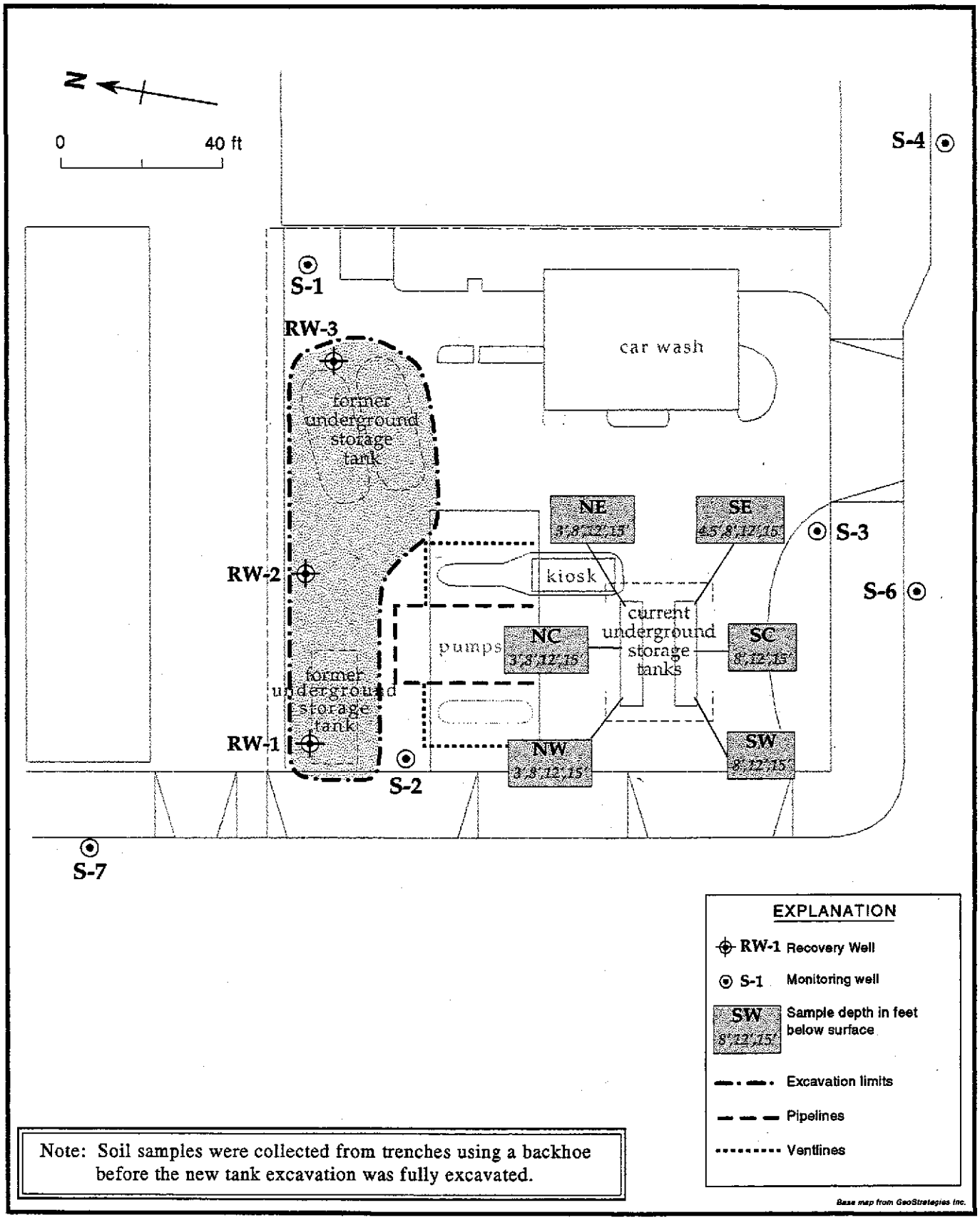

Figure 2. Recovery Well Locations and Trench Sample Locations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Table 1. Soil Analytic Data - Weiss Associates Pre-characterization Borings - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Sample ID (Depth in Feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
		(All concentrations in parts per million)			
Samples Collected July 31, 1996 by Weiss Associates					
B1 (3.0, 8.0, 13.0, 17.0) Composite	2.4	0.015	< 0.0050	< 0.0050	< 0.0050
B1 (8.0)	110	< 0.10	0.43	1.1	3.1
B1 (13.0)	25	< 0.050	0.082	0.11	0.20
B1 (17.0)	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B2 (3.0, 8.0, 13.0, 17.0) Composite	1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B2 (8.0)	6.4	0.0056	0.035	0.021	0.063
B2 (13.0)	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B2 (17.0)	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B3 (3.0, 8.0, 13.0, 17.0) Composite	1.3	0.0064	< 0.0050	< 0.0050	< 0.0050
B3 (8.0)	1.5	0.0058	< 0.0050	< 0.0050	< 0.0050
B3 (13.0)	81	0.62	< 0.10	0.34	0.56
B3 (17.0)	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B4 (3.0, 8.0, 13.0, 17.0) Composite	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B4 (8.0)	2.2	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B4 (13.0)	3.2	0.048	< 0.0050	< 0.0050	< 0.0050
B4 (17.0)	1.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B5 (3.0, 8.0, 13.0) Composite	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B5 (8.0)	160	< 0.0050	0.48	0.45	0.63
B5 (13.0)	280	< 0.12	1.2	1.2	1.4
B6 (3.0, 8.0, 13.0, 17.0) Composite	2.4	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B6 (8.0)	81	< 0.050	0.39	0.27	0.57
B6 (13.0)	87	< 0.10	0.28	0.29	0.52
B6 (17.0)	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B7 (3.0, 8.0, 13.0, 17.0) Composite	< 1.0	0.012	0.0095	0.011	0.032
B7 (8.0)	22	< 0.025	< 0.025	0.086	0.18
B7 (13.0)	65	< 0.025	< 0.025	0.10	0.26
B7 (17.0)	20	< 0.012	0.089	0.071	0.13

Table 1. Soil Analytic Data - Weiss Associates Pre-characterization Borings - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Sample ID (Depth in Feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
		(All concentrations in parts per million)			
B8 (3.0, 8.0, 13.0, 17.0) Composite	< 1.0	< 0.0050	0.0088	0.0056	0.018
B8 (8.0)	220	< 0.12	0.90	1.7	1.6
B8 (13.0)	< 1.0	0.0094	0.0086	0.01	0.038
B8 (17.0)	< 1.0	0.010	0.012	0.11	0.036

Abbreviations
TPHg = Total petroleum hydrocarbons as gasoline.
< *n* = Compound not detected at a detection limit of *n*.

Notes
TPHg analyzed by modified EPA Method 8015.
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8020.

Table 2. Soil Analytic Data - Trench Samples from New Tank Excavation - Shell Service Station
WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Sample ID - Depth in Feet	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
			(All concentrations in parts per million)			
Samples Collected October 25, 1996						
SW-8	260	< 0.50	< 0.10	0.53	0.36	1.3
SW-12	6.6	0.042	0.047	0.028	0.019	0.069
SW-15	4.9	< 0.025	0.0055	0.012	0.011	0.036
SC-8	58	< 0.25	< 0.050	0.14	0.071	0.26
SC-12	< 1.0	< 0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SC-15	1.9	0.025	0.027	0.077	0.036	0.13
SE-4.5	7.2	< 0.025	0.062	0.0090	0.0071	0.017
SE-8	< 1.0	< 0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SE-12	< 1.0	< 0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SE-15	58	< 0.25	< 0.050	< 0.050	0.32	0.11
NW-3	3.0	< 0.025	< 0.0050	< 0.0050	< 0.0050	0.0058
NW-8	34	0.37	0.32	0.086	0.15	0.20
NW-12	< 1.0	0.056	0.017	< 0.0050	0.018	0.014
NW-15	< 1.0	0.10	0.035	< 0.0050	0.036	0.013
NC-3	< 1.0	< 0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NC-8	1,500	8.9	< 1.0	< 1.0	24	130
NC-12	< 1.0	< 0.025	< 0.0050	< 0.0050	0.0059	0.0070
NC-15	4.1	0.042	0.037	0.032	0.15	0.34
NE-3	< 1.0	< 0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NE-8	620	3.6	< 0.25	< 0.25	5.0	23
NE-12	3.4	0.032	0.041	0.014	0.064	0.21
NE-15	< 1.0	< 0.025	0.12	< 0.0050	0.021	0.0072

Abbreviations
TPHg = Total petroleum hydrocarbons as gasoline.
< *n* = Compound not detected at a detection limit of *n*.

Notes
TPHg analyzed by modified EPA Method 8015.
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8020.
Sample ID indicates location of sample along edge of new excavation (southeast corner, south center, southwest corner, etc.) and sample depth.

Table 3. Soil Analytic Data - Former Tank Pit Excavation, Piping, and Dispenser Samples - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Sample ID, Depth in Feet	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead
			(All concentrations in parts per million)				
Former Tank Pit Sidewall Samples							
Samples Collected October 22, 1996							
E-1, 10.5	250	4.1	1.6	<0.12	0.18	1.9	NA
E-2, 10.5	6,000	15	35	3.2	2.9	340	NA
E-3, 11	150	0.95	1.3	<0.025	0.071	4.1	NA
E-4, 11	9.9	0.99	0.12	0.020	<0.0050	0.22	NA
E-5, 11	1,100	6.8	5.7	0.91	<0.50	44	NA
E-6, 10.5	6,400	30	44	41	60	450	NA
Samples Collected November 1, 1996							
E-7, 10.5	29	1.6	0.11	<0.025	0.23	0.43	12
E-8, 10.5	2,300	18	9.5	2.9	42	70	9.9
E-9, 10.5	140	<1.2	<0.25	<0.25	0.25	0.80	9.4
E-10, 10.5	400	2.7	1.1	0.79	1.6	4.9	10
E-11, 10.5	660	8.1	3.0	2.8	11	53	6.8
E-12, 10.5	4,600	9.4	38	18	76	39	30
Dispenser, Piping, and Vent Line Samples							
Samples Collected November 1, 1996							
D-1	<1.0	0.17	<0.0050	<0.0050	<0.0050	<0.0050	11
D-2	30	2.0	0.050	0.13	0.28	0.31	8.2
D-3	1,900	<6.2	<1.2	2.7	11	29	21
D-4	2.0	0.56	0.0053	<0.0050	<0.0050	0.023	5.7
D-5	2.8	1.3	0.029	0.0088	0.0098	0.022	7.1
P-1	1.3	0.89	0.013	<0.0050	0.0061	0.017	8.3
P-2	22	10	0.061	<0.025	0.24	0.12	8.7
P-3	2.1	4.1	0.046	<0.0050	0.0087	0.024	8.7
P-4	12	1.9	0.078	0.027	0.066	0.97	6.7
V-1	280	<1.2	1.4	1.1	0.75	2.6	6.9
V-2	2.9	0.57	0.021	0.014	<0.0050	<0.0050	6.9

Abbreviations
TPHg = Total petroleum hydrocarbons as gasoline.
<*n* =Compound not detected at a detection limit of *n*.
NA = Not Analyzed

Notes
TPHg analyzed by modified EPA Method 8015.
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8020.

ATTACHMENT A

Standard Tank Removal Sampling Procedures

STANDARD TANK REMOVAL SAMPLING PROCEDURES

Cambria Environmental Technology, Inc. (Cambria) has developed standard operating procedures for collecting soil and ground water samples during underground storage tank removal. These procedures ensure that the samples are collected, handled, and documented in compliance with California Administration Code Title 23: Waters; Chapter 3: Water Resources Control Board; Subchapter 16: Underground Storage Tank Regulations (Title 23). Cambria's sampling procedures are based on guidelines contained in the California State Regional Water Quality Control Board Tri-Regional Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites dated August 10, 1990.

Tank Removal Sampling

The objective of sample collection during routine underground storage tank removals is to determine whether hydrocarbons or other stored chemicals have leaked to the subsurface. If no ground water is encountered within the tank excavation, Cambria will sample native soil 1 to 2 ft beneath the removed tank. Additional soil samples may also be collected at locations of obvious spillage to determine maximum concentrations in the surrounding soils. For underground storage tanks with a capacity of less than 1,000 gallons, one soil sample is collected beneath the fill end of the tank. For tanks with a capacity of between 1,000 and 10,000 gallons, one soil sample is collected beneath each end of the tank. For tanks larger than 10,000 gallons, 3 or more soil samples are collected beneath the removed tank. We also collect one soil sample for every 20 ft of product piping.

In cases where ground water is encountered within underground storage tank excavations, Cambria will collect confirmatory soil samples from the excavation sidewalls just above the soil/ground water interface and a representative ground water sample from the excavation. The excavation is typically purged and allowed to recover prior to collecting the water sample. For tanks with capacities of 10,000 gallon or less, one soil sample is collected from the wall at each end of the tank excavation. For tanks with capacities greater than 10,000 gallons, or tank clusters, at least four soil samples are collected from the excavation walls next to the tank ends. Piping samples are collected in native soil 1 to 2 ft beneath the removed piping. One sample is typically collected for every 20 lineal ft of piping unless regulatory agencies approve of different sampling requirements.

The soil samples are collected in steam cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe. When a backhoe is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil.

Upon removal from the split-spoon sampler or the backhoe, the samples are trimmed flush, capped with Teflon sheets and plastic end caps, labeled, logged and refrigerated for delivery under chain of custody to a State certified analytic laboratory.

The ground water sample is collected using steam cleaned Teflon or PVC bailers, decanted into a volatile organic analysis (VOA) bottle or other appropriate clean sample container, refrigerated and transported under chain of custody to a State certified analytic laboratory.

ATTACHMENT B

Analytic Reports for Soil Samples -
Weiss Associates Borings

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Project: Shell 999 San Pablo Ave.

Enclosed are the results from samples received at Sequoia Analytical on August 2, 1996. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9608230 -01	SOLID, B1-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -01	SOLID, B1-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -02	SOLID, B1-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -03	SOLID, B1-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -04	SOLID, B1-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -05	SOLID, B2-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -05	SOLID, B2-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -06	SOLID, B2-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -07	SOLID, B2-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -08	SOLID, B2-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -09	SOLID, B3-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -09	SOLID, B3-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -10	SOLID, B3-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -11	SOLID, B3-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -12	SOLID, B3-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -13	SOLID, B4-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -13	SOLID, B4-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -14	SOLID, B4-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -15	SOLID, B4-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -16	SOLID, B4-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -17	SOLID, B5-3.0, 8.0,13.0	07/31/96	ITTLCS Title 22: Metals, T

SEQUOIA ANALYTICAL

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9608230 -17	SOLID, B5-3.0, 8.0,13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -18	SOLID, B5-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -19	SOLID, B5-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -20	SOLID, B6-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -20	SOLID, B6-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -21	SOLID, B6-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -22	SOLID, B6-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -23	SOLID, B6-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -24	SOLID, B7-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -24	SOLID, B7-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -25	SOLID, B7-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -26	SOLID, B7-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -27	SOLID, B7-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -28	SOLID, B8-3.0, 8.0,13.0,17.0	07/31/96	ITTLCS Title 22: Metals, T
9608230 -28	SOLID, B8-3.0, 8.0,13.0,17.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -29	SOLID, B8-8.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -30	SOLID, B8-13.0	07/31/96	TPHGBS Purgeable TPH/BTEX
9608230 -31	SOLID, B8-17.0	07/31/96	TPHGBS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B1-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-01	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	**500**	**5.0**	**22**
Barium, Ba	**10000**	**5.0**	**110**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**54**
Cobalt, Co	**8000**	**2.5**	**8.0**
Copper, Cu	**2500**	**0.50**	**25**
Lead, Pb	**1000**	**5.0**	**6.7**
Mercury, Hg	**20**	**0.020**	**0.068**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**54**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**33**
Zinc, Zn	**5000**	**0.50**	**39**

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B1-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-01	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.4**
Benzene	**0.0050**	**0.015**
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B1-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-02	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**110**
Benzene	0.10	N.D.
Toluene	**0.10**	**0.43**
Ethyl Benzene	**0.10**	**1.1**
Xylenes (Total)	**0.10**	**3.1**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B1-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-03	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**25**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.082**
Ethyl Benzene	**0.050**	**0.11**
Xylenes (Total)	**0.050**	**0.20**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B1-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-04	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B2-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-05	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	10	N.D.
Arsenic, As	**500**	**5.0**	**20**
Barium, Ba	**10000**	**5.0**	**120**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**51**
Cobalt, Co	**8000**	**2.5**	**7.7**
Copper, Cu	**2500**	**0.50**	**25**
Lead, Pb	**1000**	**5.0**	**7.1**
Mercury, Hg	**20**	**0.020**	**0.083**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**68**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**34**
Zinc, Zn	**5000**	**0.50**	**45**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B2-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-05	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.0**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B2-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-06	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**6.4**
Benzene	**0.0050**	**0.0056**
Toluene	**0.0050**	**0.035**
Ethyl Benzene	**0.0050**	**0.021**
Xylenes (Total)	**0.0050**	**0.063**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	121

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B2-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-07	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B2-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-08	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B3-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-09	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	10	N.D.
Arsenic, As	**500**	**5.0**	**26**
Barium, Ba	**10000**	**5.0**	**110**
Beryllium, Be	**75**	**0.50**	**0.59**
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**52**
Cobalt, Co	**8000**	**2.5**	**9.8**
Copper, Cu	**2500**	**0.50**	**21**
Lead, Pb	**1000**	**5.0**	**6.9**
Mercury, Hg	**20**	**0.020**	**0.11**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**52**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**39**
Zinc, Zn	**5000**	**0.50**	**45**

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B3-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-09	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Benzene	**0.0050**	**0.0064**
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B3-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-10	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.5**
Benzene	**0.0050**	**0.0058**
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B3-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-11	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**81**
Benzene	**0.10**	**0.62**
Toluene	0.10	N.D.
Ethyl Benzene	**0.10**	**0.34**
Xylenes (Total)	**0.10**	**0.56**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	113

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B3-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-12	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B4-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-13	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	10	N.D.
Arsenic, As	**500**	**5.0**	**17**
Barium, Ba	**10000**	**5.0**	**60**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**42**
Cobalt, Co	**8000**	**2.5**	**7.7**
Copper, Cu	**2500**	**0.50**	**18**
Lead, Pb	**1000**	**5.0**	**5.5**
Mercury, Hg	**20**	**0.020**	**0.077**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**50**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	**700**	**5.0**	**14**
Vanadium, V	**2400**	**2.5**	**27**
Zinc, Zn	**5000**	**0.50**	**37**

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B4-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-13	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B4-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-14	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.2**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B4-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-15	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**3.2**
Benzene	**0.0050**	**0.048**
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B4-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-16	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B5-3.0, 8.0,13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-17	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	**500**	**5.0**	**9.0**
Arsenic, As	**500**	**5.0**	**21**
Barium, Ba	**10000**	**5.0**	**94**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**36**
Cobalt, Co	**8000**	**2.5**	**10**
Copper, Cu	**2500**	**0.50**	**20**
Lead, Pb	**1000**	**5.0**	**6.2**
Mercury, Hg	**20**	**0.020**	**0.16**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**48**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**26**
Zinc, Zn	**5000**	**0.50**	**39**

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B5-3.0, 8.0,13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-17	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B5-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-18	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**160**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.48**
Ethyl Benzene	**0.050**	**0.45**
Xylenes (Total)	**0.050**	**0.63**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	134 Q

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B5-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-19	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**280**
Benzene	0.12	N.D.
Toluene	**0.12**	**1.2**
Ethyl Benzene	**0.12**	**1.2**
Xylenes (Total)	**0.12**	**1.4**
Chromatogram Pattern:		**C6-C12**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	144 Q

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B6-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-20	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	**500**	**5.0**	**7.6**
Arsenic, As	**500**	**5.0**	**23**
Barium, Ba	**10000**	**5.0**	**120**
Beryllium, Be	**75**	**0.50**	**0.58**
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**43**
Cobalt, Co	**8000**	**2.5**	**11**
Copper, Cu	**2500**	**0.50**	**23**
Lead, Pb	**1000**	**5.0**	**6.2**
Mercury, Hg	**20**	**0.020**	**0.096**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**59**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**33**
Zinc, Zn	**5000**	**0.50**	**48**

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B6-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-20	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.4**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

Analytes reported as N.D. were not present above the stated limit of detection.

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Mike Gregory
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B6-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-21	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**81**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.39**
Ethyl Benzene	**0.050**	**0.27**
Xylenes (Total)	**0.050**	**0.57**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	154 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B6-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-22	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**87**
Benzene	0.10	N.D.
Toluene	**0.10**	**0.28**
Ethyl Benzene	**0.10**	**0.29**
Xylenes (Total)	**0.10**	**0.52**
Chromatogram Pattern:		**C7-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B6-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-23	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B7-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-24	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	**500**	**5.0**	**30**
Barium, Ba	**10000**	**5.0**	**160**
Beryllium, Be	**75**	**0.50**	**0.58**
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**56**
Cobalt, Co	**8000**	**2.5**	**12**
Copper, Cu	**2500**	**0.50**	**27**
Lead, Pb	**1000**	**5.0**	**7.1**
Mercury, Hg	**20**	**0.020**	**0.085**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**64**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**42**
Zinc, Zn	**5000**	**0.50**	**49**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B7-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-24	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	**0.0050**	**0.012**
Toluene	**0.0050**	**0.0095**
Ethyl Benzene	**0.0050**	**0.011**
Xylenes (Total)	**0.0050**	**0.032**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B7-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-25	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**22**
Benzene	0.025	N.D.
Toluene	0.025	N.D.
Ethyl Benzene	**0.025**	**0.086**
Xylenes (Total)	**0.025**	**0.18**
Chromatogram Pattern:		**C7-C12**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	103

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B7-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/96
Attention: Brian Busch	Lab Number: 9608230-26	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**65**
Benzene	0.025	N.D.
Toluene	0.025	N.D.
Ethyl Benzene	**0.025**	**0.10**
Xylenes (Total)	**0.025**	**0.26**
Chromatogram Pattern:		**C7-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	122

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B7-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-27	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**20**
Benzene	0.012	N.D.
Toluene	**0.012**	**0.089**
Ethyl Benzene	**0.012**	**0.071**
Xylenes (Total)	**0.012**	**0.13**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	156 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B8-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/02/96
	Analysis Method: Title 22	Analyzed: 08/09/96
Attention: Brian Busch	Lab Number: 9608230-28	Reported: 08/16/96

QC Batch Number: ME0802966010MDA
Instrument ID: MTJA-2

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	**500**	**10**	**8.2**
Arsenic, As	**500**	**5.0**	**24**
Barium, Ba	**10000**	**5.0**	**200**
Beryllium, Be	**75**	**0.50**	**0.57**
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**43**
Cobalt, Co	**8000**	**2.5**	**13**
Copper, Cu	**2500**	**0.50**	**23**
Lead, Pb	**1000**	**5.0**	**6.6**
Mercury, Hg	**20**	**0.020**	**0.083**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**73**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**44**
Zinc, Zn	**5000**	**0.50**	**52**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B8-3.0, 8.0,13.0,17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-28	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.0088**
Ethyl Benzene	**0.0050**	**0.0056**
Xylenes (Total)	**0.0050**	**0.018**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B8-8.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-29	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**220**
Benzene	0.12	N.D.
Toluene	**0.12**	**0.90**
Ethyl Benzene	**0.12**	**1.7**
Xylenes (Total)	**0.12**	**1.6**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	168 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B8-13.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-30	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	**0.0050**	**0.0094**
Toluene	**0.0050**	**0.0086**
Ethyl Benzene	**0.0050**	**0.01**
Xylenes (Total)	**0.0050**	**0.038**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Weiss Associates	Client Proj. ID: Shell 999 San Pablo Ave.	Sampled: 07/31/96
5500 Shellmound	Sample Descript: B8-17.0	Received: 08/02/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/07/96
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/96
Attention: Brian Busch	Lab Number: 9608230-31	Reported: 08/16/96

QC Batch Number: GC080796BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	**0.0050**	**0.010**
Toluene	**0.0050**	**0.012**
Ethyl Benzene	**0.0050**	**0.11**
Xylenes (Total)	**0.0050**	**0.036**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 999 San Pablo Ave.
Matrix: Solid
Work Order #: 9608230 -01 -15

Reported: Aug 19, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080796BTEXEXA	GC080796BTEXEXA	GC080796BTEXEXA	GC080796BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Heider	J. Heider	J. Heider	J. Heider
MS/MSD #:	G9607F43-13	G9607F43-13	G9607F43-13	G9607F43-13
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/7/96	8/7/96	8/7/96	8/7/96
Analyzed Date:	8/7/96	8/7/96	8/7/96	8/7/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.15	0.16	0.16	0.47
MS % Recovery:	75	80	80	78
Dup. Result:	0.15	0.15	0.15	0.44
MSD % Recov.:	75	75	75	73
RPD:	0.0	6.5	6.5	6.6
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	GBLK080696	GBLK080696	GBLK080696	GBLK080696
Prepared Date:	8/7/96	8/7/96	8/7/96	8/7/96
Analyzed Date:	8/7/96	8/7/96	8/7/96	8/7/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.16	0.16	0.17	0.50
LCS % Recov.:	80	80	85	83
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 999 San Pablo Ave.
Matrix: Solid
Work Order #: 9608230 -16 - 31

Reported: Aug 19, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080796BTEXEXB	GC080796BTEXEXB	GC080796BTEXEXB	GC080796BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Y. Arteaga	Y. Arteaga	Y. Arteaga	Y. Arteaga
MS/MSD #:	G9607F43-13	G9607F43-13	G9607F43-13	G9607F43-13
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/7/96	8/7/96	8/7/96	8/7/96
Analyzed Date:	8/7/96	8/7/96	8/7/96	8/7/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.15	0.16	0.16	0.48
MS % Recovery:	75	80	80	80
Dup. Result:	0.15	0.15	0.15	0.46
MSD % Recov.:	75	75	75	77
RPD:	0.0	6.5	6.5	4.3
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	GBLK080796	GBLK080796	GBLK080796	GBLK080796
Prepared Date:	8/7/96	8/7/96	8/7/96	8/7/96
Analyzed Date:	8/7/96	8/7/96	8/7/96	8/7/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.16	0.16	0.16	0.48
LCS % Recov.:	80	80	80	80
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 999 San Pablo Ave.
Matrix: Solid
Work Order #: 9608230 01, 05, 09, 13, 17, 20, 24, 28
Reported: Aug 19, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0808966010MDA	ME0808966010MDA	ME0808966010MDA	ME0808966010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9608230-01	9608230-01	9608230-01	9608230-01
Sample Conc.:	N.D.	N.D.	54	54
Prepared Date:	8/8/96	8/8/96	8/8/96	8/8/96
Analyzed Date:	8/9/96	8/9/96	8/9/96	8/9/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	99	92	150	150
MS % Recovery:	99	92	96	96
Dup. Result:	97	91	150	140
MSD % Recov.:	97	91	96	86
RPD:	2.0	1.1	0.0	6.9
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK080896	BLK080896	BLK080896	BLK080896
Prepared Date:	8/8/96	8/8/96	8/8/96	8/8/96
Analyzed Date:	8/9/96	8/9/96	8/9/96	8/9/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	97	100	99
LCS % Recov.:	100	97	100	99
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 999 San Pablo Ave.		
5500 Shellmound	Matrix:	Solid		
Emeryville, CA 94608				
Attention: Brian Busch	Work Order #:	9608230	01, 05, 09, 13, 17, 20, 24, 28	Reported: Aug 19, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Mercury
QC Batch#:	ME0814967471M4B
Analy. Method:	EPA 7471
Prep. Method:	EPA 7471
Analyst:	T. Hua
MS/MSD #:	9608230-01
Sample Conc.:	0.068
Prepared Date:	8/14/96
Analyzed Date:	8/14/96
Instrument I.D.#:	MPE4
Conc. Spiked:	0.40 mg/kg
Result:	0.41
MS % Recovery:	86
Dup. Result:	0.39
MSD % Recov.:	81
RPD:	5.0
RPD Limit:	0-30

LCS #:	BLK081496
Prepared Date:	8/14/96
Analyzed Date:	8/14/96
Instrument I.D.#:	MPE4
Conc. Spiked:	0.40 mg/kg
LCS Result:	0.33
LCS % Recov.:	83

MS/MSD LCS Control Limits	80-120

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 7/31/96
Page of

Site Address: 999 San Pablo Ave, Albany

WIC#: 204-0079-0109

Shell Engineer: Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #81-0699-05
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: Yi-Ran Wu
Printed Name: Yi-Ran Wu

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	☐ 4461	24 hours ☐
Site Investigation	☐ 4441	48 hours ☐
Soil Classify/Disposal	☒ 4442	15 days ☒ (Normal)
Water Classify/Disposal	☐ 4443	Other ☐ ____
Soil/Air Rem. or Sys. O & M	☐ 4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M	☐ 4453	
Other	☐	

UST AGENCY: ACDEH

Analysis Required: 9608230

#	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal (see attached)	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1	B1 - 3.0	7/31		X			1					X				⊗	Y	Soil-Gas	Good
2	B1 - 8.0	Composite as B-1																	
3	B1 - 13.0																		
4	B1 - 17.0																		
5	B2 - 3.0																		
6	B2 - 8.0	Composite as B-2																	
7	B2 - 13.0																		
8	B2 - 17.0																		

Relinquished By (signature):	Printed Name: BRIAN BUSCH	Date: 8/1/96 Time: 0930	Received (signature):	Printed Name:	Date: 8-2-96 Time: 09:30
Relinquished By (signature):	Printed Name: SCOTT CLOUGH	Date: 8/2/96 Time: 12:20	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: W. Hde	Date: 8/2/96 Time: 1220

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/12/93

Shell Oil Chn of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 7/31/96
Page of

Site Address: 999 San Pablo Ave, Albany

WIC#: 204-0079-0109

Shell Engineer: Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #81-0699-05
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: Yi-Ran Wu
Printed Name: Yi-Ran Wu

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring ☐	4461	24 hours ☐
Site Investigation ☐	4441	48 hours ☐
Soil Classify/Disposal ☒	4442	15 days ☒ (Normal)
Water Classify/Disposal ☐	4443	Other ☐ ____
Soil/Air Rem. or Sys. O & M ☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M ☐	4453	
Other ☐		

96062730

UST AGENCY: ACDEH

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal (See attached)	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
9	B3-3.0	7/31		X			1					X				X	Y	Soil-Gas	Good
10	B3-8.0	Composite as B-3																	
11	B3-13.0																		
12	B3-17.0																		
13	B4-3.0	Composite as B-4																	
14	B4-8.0																		
15	B4-13.0																		
16	B4-17.0																		

	Printed Name	Date/Time		Printed Name	Date/Time
Relinquished By (signature): Brian Bush	Brian Bush	Date: 8/1/96 Time: 0930	Received (signature): Scott Anderson	Scott Anderson	Date: 8-2-96 Time: 0930
Relinquished By (signature): Scott Anderson	Scott Anderson	Date: 8/2/96 Time: 12:20	Received (signature):		Date: Time:
Relinquished By (signature):		Date: Time:	Received (signature):	W. Hall	Date: 8/2/96 Time: 1220

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/17/93

Shell Oil Chn. of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 7/31/96
Page of

Site Address: 999 San Pablo Ave, Albany

WIC#: 204-0079-0109

Shell Engineer: Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #81-0699-05
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: Yi-Ran Wu
Printed Name: Yi-Ran Wu

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	4461	24 hours ☐
Site Investigation	4441	48 hours ☐
Soil Classify/Disposal	☒ 4442	15 days ☒ (Normal)
Water Classify/Disposal	4443	Other ☐ _____
Soil/Air Rem. or Sys. O & M	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M	4453	
Other		

UST AGENCY: ACDEH

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal (See attached); Combination TPH 8015 & BTEX 8020; ~~TPH 8015~~ 9608230; Asbestos; Container Size; Preparation Used; Composite Y/N

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
17	B5-3.0	7/31		X			1	Soil-Gas	Good
18	B5-8.0	Composite as B-5							
19	B5-13.0								
#	~~B5-17.0~~								
20	B6-3.0								
21	B6-8.0	Composite as B-6							
22	B6-13.0								
23	B6-17.0								

	Printed Name	Date/Time		Printed Name	Date/Time
Relinquished By (signature):	BRIAN BUSCH	Date: 8/1/96 Time: 0730	Received (signature):	Scott Chung	Date: 8/2/96 Time: 09:30
Relinquished By (signature):	Scott Chung	Date: 8/2/96 Time: 1220	Received (signature):		Date: Time:
Relinquished By (signature):		Date: Time:	Received (signature):	D. Hale	Date: 8/2/96 Time: 1220

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/13/93

Shell Oil Chn of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:_____

Date: 7/31/96
Page of

Site Address: 999 San Pablo Ave, Albany

WIC#: 204-0079-0109

Shell Engineer: Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #81-0699-05
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: Yi-Ran Wu
Printed Name: Yi-Ran Wu

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CT/DT	TURN AROUND TIME	
G.W. Monitoring	☐	4461	24 hours	☐
Site Investigation	☐	4441	48 hours	☐
Soil Classify/Disposal	☒	4442	15 days	☒ (Normal)
Water Classify/Disposal	☐	4443	Other	☐ ____
Soil/Air Rem. or Sys. O & M	☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.	
Water Rem. or Sys. O & M	☐	4453		
Other	☐			

UST AGENCY: ACDEH

Analysis Required

9608230

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal (See attached)	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
24	B7-3.0	7/31		X			1					X				X	Y	Soil-Gas	Good
25	B7-8.0	Composite as B-7																	
26	B7-13.0																		
27	B7-17.0																		
28	B8-3.0																		
29	B8-8.0	Composite as B-8																	
30	B8-13.0																		
31	B8-17.0																		

	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
Relinquished By (signature):	BRIAN BUSCH	Date: 8/1/96 Time: 0430	Received (signature):	Printed Name:	Date: 8.2.96 Time: 0913
Relinquished By (signature):	Scott Clowe	Date: 8/2/96 Time: 1240	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: W. Hale	Date: 8/2/96 Time: 1220

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev: 7/12/93

Shell Oil Chn of Custody

ATTACHMENT C

Analytical Reports for Soil Samples-
Pea Gravel

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell, 204-0079-0109, Albany

Enclosed are the results from samples received at Sequoia Analytical on October 22, 1996. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9610D43 -01	SOLID, SG-1	10/22/96	Lead
9610D43 -01	SOLID, SG-1	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D43 -02	SOLID, SG-2	10/22/96	Lead
9610D43 -02	SOLID, SG-2	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D43 -03	SOLID, SG-3	10/22/96	Lead
9610D43 -03	SOLID, SG-3	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D43 -04	SOLID, SG-4	10/22/96	Lead
9610D43 -04	SOLID, SG-4	10/22/96	TPGBMS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Paul Waite

Client Proj. ID: Shell, 204-0079-0109, Albany

Lab Proj. ID: 9610D43

Sampled: 10/22/96
Received: 10/22/96
Analyzed: see below

Reported: 10/23/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9610D43-01 Sample Desc : **SOLID,SG-1**				
Lead	**mg/Kg**	**10/22/96**	**5.0**	**16**
Lab No: 9610D43-02 Sample Desc : **SOLID,SG-2**				
Lead	**mg/Kg**	**10/22/96**	**5.0**	**13**
Lab No: 9610D43-03 Sample Desc : **SOLID,SG-3**				
Lead	**mg/Kg**	**10/22/96**	**5.0**	**17**
Lab No: 9610D43-04 Sample Desc : **SOLID,SG-4**				
Lead	**mg/Kg**	**10/22/96**	**5.0**	**19**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: SG-1	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/22/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/22/96
Attention: Paul Waite	Lab Number: 9610D43-01	Reported: 10/23/96

QC Batch Number: GC101896BTEXEXC
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**29**
Methyl t-Butyl Ether	**0.12**	**0.19**
Benzene	0.025	N.D.
Toluene	0.025	N.D.
Ethyl Benzene	0.025	N.D.
Xylenes (Total)	**0.025**	**0.85**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: SG-2	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/22/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/22/96
Attention: Paul Waite	Lab Number: 9610D43-02	Reported: 10/23/96

QC Batch Number: GC101896BTEXEXC
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**13**
Methyl t-Butyl Ether	0.062	N.D.
Benzene	0.012	N.D.
Toluene	0.012	N.D.
Ethyl Benzene	0.012	N.D.
Xylenes (Total)	**0.012**	**0.040**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: SG-3	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/22/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/22/96
Attention: Paul Waite	Lab Number: 9610D43-03	Reported: 10/23/96

QC Batch Number: GC101896BTEXEXC
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**35**
Methyl t-Butyl Ether	0.50	N.D.
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	**0.10**	**0.33**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: SG-4	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/22/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/22/96
Attention: Paul Waite	Lab Number: 9610D43-04	Reported: 10/23/96

QC Batch Number: GC101896BTEXEXC
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**17**
Methyl t-Butyl Ether	0.12	N.D.
Benzene	0.025	N.D.
Toluene	0.025	N.D.
Ethyl Benzene	0.025	N.D.
Xylenes (Total)	**0.025**	**0.13**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell, 204-0079-0109, Albany
Matrix: Solid
Work Order #: 9610D43 01-04
Reported: Oct 23, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC102296BTEXEXC	GC102296BTEXEXC	GC102296BTEXEXC	GC102296BTEXEXC
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Porter	Porter	Porter	Porter
MS/MSD #:	961085517	961085517	961085517	961085517
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/18/96	10/18/96	10/18/96	10/18/96
Analyzed Date:	10/18/96	10/18/96	10/18/96	10/18/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/kg
Result:	0.20	0.18	0.17	0.53
MS % Recovery:	100	90	85	88
Dup. Result:	0.20	0.17	0.17	0.51
MSD % Recov.:	100	85	85	85
RPD:	0.0	5.7	0.0	3.8
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK102296	BLK102296	BLK102296	BLK102296
Prepared Date:	10/22/96	10/22/96	10/22/96	10/22/96
Analyzed Date:	10/22/96	10/22/96	10/22/96	10/22/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.22	0.19	0.19	0.57
LCS % Recov.:	110	95	95	95
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell, 204-0079-0109, Albany
Matrix: Solid
Work Order #: 9610D43 01-04
Reported: Oct 23, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1022966010MDF	ME1022966010MDF	ME1022966010MDF	ME1022966010MDF
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9610D4301	9610D4301	9610D4301	9610D4301
Sample Conc.:	N.D.	N.D.	45	48
Prepared Date:	10/22/96	10/22/96	10/22/96	10/22/96
Analyzed Date:	10/22/96	10/22/96	10/22/96	10/22/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	89	88	140	140
MS % Recovery:	89	88	95	92
Dup. Result:	89	88	140	140
MSD % Recov.:	89	88	95	92
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK102296	BLK102296	BLK102296	BLK102296
Prepared Date:	10/22/96	10/22/96	10/22/96	10/22/96
Analyzed Date:	10/22/96	10/22/96	10/22/96	10/22/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	92	94	94	96
LCS % Recov.:	92	94	94	96
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 10/22/96
Page of

Site Address: 999 San Pablo Av. Albany, CA

WIC#: 204-0079-0109

Shell Engineer: R. Jeff Granberry
Phone No.: 675-6168
Fax #:

Consultant Name & Address: Cambria 1144-65th St Oakland CA

Consultant Contact: Paul Waite
Phone No.: 510-420-9185
Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: Paul Waite

LAB: Sequoia 96101043

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1. SG-1	10/22		X									X	X					Need results by 12 Noon on Wednesday 10/23	
2. SG-2			X									X	X						
3. SG-3			X									X	X						
4. SG-4			X									X	X						

CHECK ONE (1) BOX ONLY — CT/DT

- G.W. Monitoring ☐ 4461
- Site Investigation ☐ 4441
- Soil Classify/Disposal ☒ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME

- 24 hours ☒
- 48 hours ☐
- 10 day (Normal)
- Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda County

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	Paul Waite	Date: 10/22 Time:	Pete Bitondo	Pete Bitondo	Date: 10/23/96 Time: 16:54
Pete Bitondo	Peter Bitondo	Date: 10/22 Time: 17:35	[signature]	Scott Rose	Date: 10-22-96 Time: 1735
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/17/95

Shell Oil Chain of Custody

CAMBRIA

ATTACHMENT D

Analytic Reports for Soil Samples -
Former Tank Excavation, Dispensers, and Piping

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell, 204-0079-0109, Albany

Enclosed are the results from samples received at Sequoia Analytical on October 22, 1996. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9610D44 -01	SOLID, E-1, 10.5	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D44 -02	SOLID, E-2, 10.5	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D44 -03	SOLID, E-3, 11	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D44 -04	SOLID, E-4, 11	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D44 -05	SOLID, E-5, 11	10/22/96	TPGBMS Purgeable TPH/BTEX
9610D44 -06	SOLID, E-6, 10.5	10/22/96	TPGBMS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Received: 10/22/96
1144 65th St. Suite C		
Oakland, CA 94608	Lab Proj. ID: 9610D44	Reported: 11/05/96
Attention: Paul Waite		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and chain of custody.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: E-1, 10.5	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/23/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/23/96
Attention: Paul Waite	Lab Number: 9610D44-01	Reported: 11/05/96

QC Batch Number: GC102396BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**250**
Methyl t-Butyl Ether	**0.62**	**4.1**
Benzene	**0.12**	**1.6**
Toluene	0.12	N.D.
Ethyl Benzene	**0.12**	**0.18**
Xylenes (Total)	**0.12**	**1.9**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	172 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: E-2, 10.5	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/23/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/23/96
Attention: Paul Waite	Lab Number: 9610D44-02	Reported: 11/05/96

QC Batch Number: GC102396BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**500**	**6000**
Methyl t-Butyl Ether	**12**	**15**
Benzene	**2.5**	**35**
Toluene	**2.5**	**3.2**
Ethyl Benzene	**2.5**	**2.9**
Xylenes (Total)	**2.5**	**340**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	144 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: E-3, 11	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/23/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/23/96
Attention: Paul Waite	Lab Number: 9610D44-03	Reported: 11/05/96

QC Batch Number: GC102396BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**150**
Methyl t-Butyl Ether	**0.12**	**0.95**
Benzene	**0.025**	**1.3**
Toluene	0.025	N.D.
Ethyl Benzene	**0.025**	**0.071**
Xylenes (Total)	**0.025**	**4.1**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	145 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: E-4, 11	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/23/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/23/96
Attention: Paul Walte	Lab Number: 9610D44-04	Reported: 11/05/96

QC Batch Number: GC102396BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**9.9**
Methyl t-Butyl Ether	**0.025**	**0.99**
Benzene	**0.0050**	**0.12**
Toluene	**0.0050**	**0.020**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.22**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	158 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: E-5, 11	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/23/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/23/96
Attention: Paul Waite	Lab Number: 9610D44-05	Reported: 11/05/96

QC Batch Number: GC102396BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**1100**
Methyl t-Butyl Ether	**2.5**	**6.8**
Benzene	**0.50**	**5.7**
Toluene	**0.50**	**0.91**
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**44**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	144 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 10/22/96
1144 65th St. Suite C	Sample Descript: E-6, 10.5	Received: 10/22/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/23/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/23/96
Attention: Paul Waite	Lab Number: 9610D44-06	Reported: 11/05/96

QC Batch Number: GC102396BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1000	6400
Methyl t-Butyl Ether	25	30
Benzene	5.0	44
Toluene	5.0	41
Ethyl Benzene	5.0	60
Xylenes (Total)	5.0	450
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	119

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Walte

Client Project ID: Shell, 204-0079-0109, Albany
Matrix: Solid
Work Order #: 9610D44 01-06
Reported: Nov 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC102396BTEXEXA	GC102396BTEXEXA	GC102396BTEXEXA	GC102396BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Ortega	Ortega	Ortega	Ortega
MS/MSD #:	9608A7408	9608A7408	9608A7408	9608A7408
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/23/96	10/23/96	10/23/96	10/23/96
Analyzed Date:	10/23/96	10/23/96	10/23/96	10/23/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.18	0.15	0.15	0.44
MS % Recovery:	90	75	75	73
Dup. Result:	0.21	0.18	0.17	0.49
MSD % Recov.:	105	90	85	82
RPD:	15	18	13	11
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK102396	BLK102396	BLK102396	BLK102396
Prepared Date:	10/23/96	10/23/96	10/23/96	10/23/96
Analyzed Date:	10/23/96	10/23/96	10/23/96	10/23/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.22	0.19	0.18	0.53
LCS % Recov.:	110	95	90	88
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ______

Date: 10/22/96
Page 1 of 1

Site Address: 999 San Pablo Av Albany CA

WIC#: 204-0079-0109

Shell Engineer: R. Jeff Granberry
Phone No.:
Fax #:

Consultant Name & Address: Cambria 1144-65th St, Oakland CA

Consultant Contact: Paul Waite
Phone No.: 510-420-9185
Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: Paul Waite

Analysis Required: 9610D44

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring ☐	4461
Site Investigation ☐	4441
Soil Classify/Disposal ☒	4442
Water Classify/Disposal ☐	4443
Soil/Air Rem. or Sys. O & M ☐	4452
Water Rem. or Sys. O & M ☐	4453
Other ☐	

TURN AROUND TIME:
24 hours ☐
48 hours ☐
15 days ☒ (Normal)
Other ☐

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda

Sample ID	Date	Time	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
E-1, 10.5	10/22	200	X									X	X							
E-2, 10.5		205										X	X							
E-3, 11		208										X	X							
E-4, 11		217										X	X							
E-5-11		225										X	X							
E-6-10.5		230										X	X							

Relinquished By (signature):	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
[signature]	Paul Waite	Date: 10/22 Time:	[signature]	PETER BITONDO	Date: 10/22/96 Time: 1624
[signature]	PETER BITONDO	Date: 10/22 Time: 17:35	[signature]	SCOTT ROSS	Date: 10-22-96 Time: 1735
		Date: Time:			Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93

Shell Oil Chn. of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 10/22/96
Page 1 of 1

Site Address: 999 San Pablo Av Albany CA

WIC#: 204-0079-0109

Shell Engineer: R. Jeff Granberry | Phone No.: | Fax #:

Consultant Name & Address: Cambria 1144-65th St Oakland CA

Consultant Contact: Pam Waite | Phone No.: 510-420-3185 | Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: Pam Waite

LAB: Seqvois

CHECK ONE (1) BOX ONLY		CT/DI
G.W. Monitoring	☐	4461
Site Investigation	☐	4441
Soil Classify/Disposal	☒	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME: 24 hours ☐ | 48 hours ☐ | 15 days ☒ (Normal) | Other ☐

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda

Analysis Required

Sample ID	Date	Time Sampled	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
E-1, 10.5	10/22	200	X									X	X							
E-2, 10.5	"	205	"									X	X							
E-3, 11	"	208	"									X	X							
E-4, 11	"	217	"									X	X							
E-5-11	"	225	"									X	X							
E-6-10.5	"	230	"									X	X							

Relinquished By (signature): [signature]	Printed Name: Pam Waite	Date: 10/22 Time:	Received (signature): [signature]	Printed Name: PETER BITONDO	Date: 10/22/96 Time: 16:24
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 3/12/93

Shell Oil Chain of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell, 204-0079-0109, Albany

Enclosed are the results from samples received at Sequoia Analytical on November 4, 1996. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9611112 -01	SOLID, E-7, 10.5	11/01/96	Lead
9611112 -01	SOLID, E-7, 10.5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -02	SOLID, E-8, 10.5	11/01/96	Lead
9611112 -02	SOLID, E-8, 10.5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -03	SOLID, E-9, 10.5	11/01/96	Lead
9611112 -03	SOLID, E-9, 10.5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -04	SOLID, E-10, 10.5	11/01/96	Lead
9611112 -04	SOLID, E-10, 10.5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -05	SOLID, E-11, 10.5	11/01/96	Lead
9611112 -05	SOLID, E-11, 10.5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -06	SOLID, E-12, 10.5	11/01/96	Lead
9611112 -06	SOLID, E-12, 10.5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -07	SOLID, D-1	11/01/96	Lead
9611112 -07	SOLID, D-1	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -08	SOLID, D-2	11/01/96	Lead
9611112 -08	SOLID, D-2	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -09	SOLID, D-3	11/01/96	Lead
9611112 -09	SOLID, D-3	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -10	SOLID, D-4	11/01/96	Lead
9611112 -10	SOLID, D-4	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -11	SOLID, D-5	11/01/96	Lead

SEQUOIA ANALYTICAL

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9611112 -11	SOLID, D-5	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -12	SOLID, P-1	11/01/96	Lead
9611112 -12	SOLID, P-1	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -13	SOLID, P-2	11/01/96	Lead
9611112 -13	SOLID, P-2	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -14	SOLID, P-3	11/01/96	Lead
9611112 -14	SOLID, P-3	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -15	SOLID, P-4	11/01/96	Lead
9611112 -15	SOLID, P-4	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -16	SOLID, V-1	11/01/96	Lead
9611112 -16	SOLID, V-1	11/01/96	TPGBMS Purgeable TPH/BTEX
9611112 -17	SOLID, V-2	11/01/96	Lead
9611112 -17	SOLID, V-2	11/01/96	TPGBMS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Received: 11/04/96
1144 65th St. Suite C		
Oakland, CA 94608	Lab Proj. ID: 9611112	Reported: 11/08/96
Attention: Paul Waite		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 28 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell, 204-0079-0109, Albany
Lab Proj. ID: 9611112

Sampled: 11/01/96
Received: 11/04/96
Analyzed: see below

Attention: Paul Waite

Reported: 11/08/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9611112-01 Sample Desc : **SOLID,E-7, 10.5**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**12**
Lab No: 9611112-02 Sample Desc : **SOLID,E-8, 10.5**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**9.9**
Lab No: 9611112-03 Sample Desc : **SOLID,E-9, 10.5**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**9.4**
Lab No: 9611112-04 Sample Desc : **SOLID,E-10, 10.5**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**10**
Lab No: 9611112-05 Sample Desc : **SOLID,E-11, 10.5**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**6.8**
Lab No: 9611112-06 Sample Desc : **SOLID,E-12, 10.5**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**30**
Lab No: 9611112-07 Sample Desc : **SOLID,D-1**				
Lead	**mg/Kg**	**11/06/96**	**5.0**	**11**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Paul Waite

Client Proj. ID: Shell, 204-0079-0109, Albany

Lab Proj. ID: 9611112

Sampled: 11/01/96
Received: 11/04/96
Analyzed: see below

Reported: 11/08/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9611112-08 Sample Desc : **SOLID,D-2**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**8.2**
Lab No: 9611112-09 Sample Desc : **SOLID,D-3**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**21**
Lab No: 9611112-10 Sample Desc : **SOLID,D-4**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**5.7**
Lab No: 9611112-11 Sample Desc : **SOLID,D-5**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**7.1**
Lab No: 9611112-12 Sample Desc : **SOLID,P-1**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**8.3**
Lab No: 9611112-13 Sample Desc : **SOLID,P-2**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**8.7**
Lab No: 9611112-14 Sample Desc : **SOLID,P-3**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**8.7**

Analytes reported as N.D. were not present above the stated limit of detection.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Paul Waite

Client Proj. ID: Shell, 204-0079-0109, Albany

Lab Proj. ID: 9611112

Sampled: 11/01/96
Received: 11/04/96
Analyzed: see below

Reported: 11/08/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9611112-15 Sample Desc : **SOLID,P-4**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**6.7**
Lab No: 9611112-16 Sample Desc : **SOLID,V-1**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**6.9**
Lab No: 9611112-17 Sample Desc : **SOLID,V-2**				
Lead	**mg/Kg**	**11/07/96**	**5.0**	**6.9**

Analytes reported as N.D. were not present above the stated limit of detection.

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: E-7, 10.5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-01	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**29**
Methyl t-Butyl Ether	**0.12**	**1.6**
Benzene	**0.025**	**0.11**
Toluene	0.025	N.D.
Ethyl Benzene	**0.025**	**0.23**
Xylenes (Total)	**0.025**	**0.43**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82

Analytes reported as N.D. were not present above the stated limit of detection.

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: E-8, 10.5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-02	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: gchp22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	2300
Methyl t-Butyl Ether	6.2	18
Benzene	1.2	9.5
Toluene	1.2	2.9
Ethyl Benzene	1.2	42
Xylenes (Total)	1.2	70
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	138 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: E-9, 10.5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-03	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**140**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	**0.25**	**0.25**
Xylenes (Total)	**0.25**	**0.80**
Chromatogram Pattern:		
Unidentified HC		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: E-10, 10.5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/07/96
Attention: Paul Waite	Lab Number: 9611112-04	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: gchp22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	20	400
Methyl t-Butyl Ether	0.50	2.7
Benzene	0.10	1.1
Toluene	0.10	0.79
Ethyl Benzene	0.10	1.6
Xylenes (Total)	0.10	4.9
Chromatogram Pattern:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: E-11, 10.5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-05	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	660
Methyl t-Butyl Ether	2.5	8.1
Benzene	0.50	3.0
Toluene	0.50	2.8
Ethyl Benzene	0.50	11
Xylenes (Total)	0.50	53
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: E-12, 10.5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/07/96
Attention: Paul Waite	Lab Number: 9611112-06	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	4600
Methyl t-Butyl Ether	6.2	9.4
Benzene	1.2	38
Toluene	1.2	18
Ethyl Benzene	1.2	76
Xylenes (Total)	1.2	39
Chromatogram Pattern:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: D-1	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/07/96
Attention: Paul Waite	Lab Number: 9611112-07	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.17**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: D-2	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-08	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**30**
Methyl t-Butyl Ether	**0.12**	**2.0**
Benzene	**0.025**	**0.050**
Toluene	**0.025**	**0.13**
Ethyl Benzene	**0.025**	**0.28**
Xylenes (Total)	**0.025**	**0.31**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: D-3	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-09	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**250**	**1900**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	1.2	N.D.
Toluene	**1.2**	**2.7**
Ethyl Benzene	**1.2**	**11**
Xylenes (Total)	**1.2**	**29**
Chromatogram Pattern:		
Unidentified HC		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: D-4	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-10	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.0**
Methyl t-Butyl Ether	**0.025**	**0.56**
Benzene	**0.0050**	**0.0053**
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.023**
Chromatogram Pattern:		
Unidentified HC		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: D-5	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-11	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.8**
Methyl t-Butyl Ether	**0.025**	**1.3**
Benzene	**0.0050**	**0.029**
Toluene	**0.0050**	**0.0088**
Ethyl Benzene	**0.0050**	**0.0098**
Xylenes (Total)	**0.0050**	**0.022**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: P-1	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-12	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Methyl t-Butyl Ether	**0.025**	**0.89**
Benzene	**0.0050**	**0.013**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0061**
Xylenes (Total)	**0.0050**	**0.017**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: P-2	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-13	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**22**
Methyl t-Butyl Ether	**0.12**	**10**
Benzene	**0.025**	**0.061**
Toluene	0.025	N.D.
Ethyl Benzene	**0.025**	**0.24**
Xylenes (Total)	**0.025**	**0.12**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: P-3	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-14	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.1**
Methyl t-Butyl Ether	**0.025**	**4.1**
Benzene	**0.0050**	**0.046**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0087**
Xylenes (Total)	**0.0050**	**0.024**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: P-4	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-15	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**12**
Methyl t-Butyl Ether	**0.025**	**1.9**
Benzene	**0.0050**	**0.078**
Toluene	**0.0050**	**0.027**
Ethyl Benzene	**0.0050**	**0.066**
Xylenes (Total)	**0.0050**	**0.97**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	147 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: V-1	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-16	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**280**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	**0.25**	**1.4**
Toluene	**0.25**	**1.1**
Ethyl Benzene	**0.25**	**0.75**
Xylenes (Total)	**0.25**	**2.6**
Chromatogram Pattern:		
Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Cambria	Client Proj. ID: Shell, 204-0079-0109, Albany	Sampled: 11/01/96
1144 65th St. Suite C	Sample Descript: V-2	Received: 11/04/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 11/06/96
	Analysis Method: 8015Mod/8020	Analyzed: 11/06/96
Attention: Paul Waite	Lab Number: 9611112-17	Reported: 11/08/96

QC Batch Number: GC110696BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.9**
Methyl t-Butyl Ether	**0.025**	**0.57**
Benzene	**0.0050**	**0.021**
Toluene	**0.0050**	**0.014**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Unidentified HC		**C8-C12**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria Environmental Tech.	Client Project ID:	Shell, 204-0079-0109, Albany	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Paul Waite	Work Order #:	9611112 01-17	Reported: Nov 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC110696BTEXEXA	GC110696BTEXEXA	GC110696BTEXEXA	GC110696BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPa 5030	EPa 5030	EPa 5030	EPa 5030
Analyst:	Porter	Porter	Porter	Porter
MS/MSD #:	9610I7809	9610I7809	9610I7809	9610I7809
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/6/96	11/6/96	11/6/96	11/6/96
Analyzed Date:	11/6/96	11/6/96	11/6/96	11/6/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.17	0.17	0.18	0.54
MS % Recovery:	85	85	90	90
Dup. Result:	0.16	0.17	0.17	0.54
MSD % Recov.:	80	85	85	90
RPD:	6.1	0.0	5.7	0.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK110696	BLK110696	BLK110696	BLK110696
Prepared Date:	11/6/96	11/6/96	11/6/96	11/6/96
Analyzed Date:	11/6/96	11/6/96	11/6/96	11/6/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.18	0.19	0.19	0.58
LCS % Recov.:	90	95	95	97
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell, 204-0079-0109, Albany
Matrix: Solid
Work Order #: 9611112 01-07
Reported: Nov 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1105966010MDE	ME1105966010MDE	ME1105966010MDE	ME1105966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9610K3609	9610K3609	9610K3609	9610K3609
Sample Conc.:	N.D.	N.D.	18	9.3
Prepared Date:	11/5/96	11/5/96	11/5/96	11/5/96
Analyzed Date:	11/6/96	11/6/96	11/6/96	11/6/96
Instrument I.D.#:	MATJA2	MATJA2	MATJA2	MATJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	97	92	110	100
MS % Recovery:	97	92	92	91
Dup. Result:	97	92	110	100
MSD % Recov.:	97	92	92	91
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK110596	BLK110596	BLK110596	BLK110596
Prepared Date:	11/5/96	11/5/96	11/5/96	11/5/96
Analyzed Date:	11/6/96	11/6/96	11/6/96	11/6/96
Instrument I.D.#:	MATJA2	MATJA2	MATJA2	MATJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	98	93	97	97
LCS % Recov.:	98	93	97	97
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Walte

Client Project ID: Shell, 204-0079-0109, Albany
Matrix: Solid
Work Order #: 9611112 08-17

Reported: Nov 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1107j966010MDE	ME1107j966010MDE	ME1107j966010MDE	ME1107j966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9611222401	9611222401	9611222401	9611222401
Sample Conc.:	N.D.	N.D.	26	27
Prepared Date:	11/7/96	11/7/96	11/7/96	11/7/96
Analyzed Date:	11/7/96	11/7/96	11/7/96	11/7/96
Instrument I.D.#:	MATJA2	MATJA2	MATJA2	MATJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	91	86	120	120
MS % Recovery:	91	86	94	93
Dup. Result:	90	86	120	110
MSD % Recov.:	90	86	94	83
RPD:	1.1	0.0	0.0	8.7
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK110796	BLK110796	BLK110796	BLK110796
Prepared Date:	11/7/96	11/7/96	11/7/96	11/7/96
Analyzed Date:	11/7/96	11/7/96	11/7/96	11/7/96
Instrument I.D.#:	MATJA2	MATJA2	MATJA2	MATJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	95	94	97	96
LCS % Recov.:	95	94	97	96
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 11/01/96
Page 1 of 2

Site Address: 999 San Pablo, Albany CA

WIC#: 204-0074-0109

Shell Engineer: R. Jeff Cranberry

Phone No.: 675-6168
Fax #:

Consultant Name & Address: Cambria 1144-65th St Oakland CA

Consultant Contact: Paul Waite

Phone No.: 510-420-0185
Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: Paul Waite

Analysis Required 9611112

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring	4441
Site Investigation	4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours ☐ | 48 hours ☐ | 15 days ☒ (Normal) | Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda

Sample ID	Date	Time	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	Total Lead	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
01 E-7, 10.5	11/01	11:29	X			1						—								
02 E-8, 10.5		11:34				1						—								
03 E-9, 10.5		1142				1						—								
04 E-10, 10.5		1145				1						—								
05 E-11, 10.5		1154				1						—								
06 E-12, 10.5		1203				1						—								
07 D-1 ~~TB~~		1231				1						—								
08 D-2		12:35				1						—								

Relinquished By (signature):	Printed Name: Paul Waite	Date: 11/4	Received (signature):	Printed Name: Neil Van Hlam	Date: 11/4/96
Relinquished By (signature):	Printed Name: Neil Van Hlam	Time:	Received (signature):	Printed Name:	Time: 1300
Relinquished By (signature):	Printed Name:	Date: 11/4	Received (signature):	Printed Name:	Date:
		Time: 1433			Time:
		Date:	Received (signature):	Printed Name: P. Le	Date: 11-04-96
		Time:			Time: 14:02

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93

Shell Oil Co. Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 11/01/96
Page 2 of 2

Site Address: 999 San Pablo Av., CA

WIC#: 204-0079-0109

Shell Engineer: R. Jeff Granberry — Phone No.: 675-6168 Fax #:

Consultant Name & Address: Cambria 1144-65th St, Oakland, CA

Consultant Contact: Paul Waite — Phone No.: 510-420-0185 Fax #: 420-9170

Comments:

Sampled by: PW

Printed Name: Paul Waite

Analysis Required 9611112

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours ☐ ; 48 hours ☐ ; 15 days ☒ (Normal) ; Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	Total Lead	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
09	D-3	11/01	205	X			1														
10	D-4		1243				1														
11	D-5		1239				1														
12	P-1		1247				1														
13	P-2		1251				1														
14	P-3		1255				1														
15	P-4		1259				1														
16	V-1		158				1														
17	V-2		201				1														

Relinquished By (signature): PW	Printed Name: Paul Waite	Date: 11/4 Time:	Received (signature):	Printed Name: Neil VanSlam	Date: 11/4/96 Time: 1300
Relinquished By (signature):	Printed Name: Neil VanSlam	Date: 11/4 Time: 14:15	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: P. Ue	Date: 11-04-96 Time: 14:52

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/95

Shell Oil Co. Chain of Custody

ATTACHMENT E

Analytical Reports for Air Samples

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell 204-0079-0109

Enclosed are the results from samples received at Sequoia Analytical on October 24, 1996. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9610E79 -01	AIR, Air-1	10/23/96	TPGBMA Purgeable TPH/BTEX
9610E79 -02	AIR, Air-2	10/23/96	TPGBMA Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0079-0109	Sampled: 10/23/96
1144 65th St. Suite C	Sample Descript: Air-1	Received: 10/24/96
Oakland, CA 94608	Matrix: AIR	
	Analysis Method: 8015Mod/8020	Analyzed: 10/28/96
Attention: Paul Waite	Lab Number: 9610E79-01	Reported: 10/29/96

QC Batch Number: GC102896BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	1.4	N.D.
Methyl t-Butyl Ether	1.4	N.D.
Benzene	0.016	N.D.
Toluene	0.013	N.D.
Ethyl Benzene	0.012	N.D.
Xylenes (Total)	0.012	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0079-0109	Sampled: 10/23/96
1144 65th St. Suite C	Sample Descript: Air-2	Received: 10/24/96
Oakland, CA 94608	Matrix: AIR	
	Analysis Method: 8015Mod/8020	Analyzed: 10/28/96
Attention: Paul Waite	Lab Number: 9610E79-02	Reported: 10/29/96

QC Batch Number: GC102896BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ppmV	Sample Results ppmV
TPPH as Gas	1.4	N.D.
Methyl t-Butyl Ether	1.4	N.D.
Benzene	0.016	N.D.
Toluene	0.013	N.D.
Ethyl Benzene	0.012	N.D.
Xylenes (Total)	0.012	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Client Proj. ID: Shell 204-0079-0109
Lab Proj. ID: 9610E79

Received: 10/24/96
Reported: 10/29/96

LABORATORY NARRATIVE

ppmV note:

	Molecular Weight
Gas	86.2
MTBE	88
Benzene	78
Toluene	92
Ethyl Benzene	106
Xylenes	106

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria Environmental Tech.	Client Project ID:	Shell 204-0079-0109	
1144 65th St., Ste. C	Matrix:	Air	
Oakland, CA 94608			
Attention: Paul Waite	Work Order #:	9610E79 01, 02	Reported: Oct 30, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC102896BTEX21A	GC102896BTEX21A	GC102896BTEX21A	GC102896BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	G. Fish	G. Fish	G. Fish	G. Fish
MS/MSD #:	9610C3305	9610C3305	9610C3305	9610C3305
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/28/96	10/28/96	10/28/96	10/28/96
Analyzed Date:	10/28/96	10/28/96	10/28/96	10/28/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	9.8	9.7	28
MS % Recovery:	110	98	97	93
Dup. Result:	10	9.3	9.6	29
MSD % Recov.:	100	93	96	97
RPD:	9.5	5.2	1.0	3.5
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK102896	BLK102896	BLK102896	BLK102896
Prepared Date:	10/28/96	10/28/96	10/28/96	10/28/96
Analyzed Date:	10/28/96	10/28/96	10/28/96	10/28/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	9.7	9.7	29
LCS % Recov.:	100	97	97	97
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

ATTACHMENT F

Analytic Reports for Soil Samples -
New Tank Excavation

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SE-4.5	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/26/96
Attention: Paul Waite	Lab Number: 9610G16-01	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**7.2**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	**0.0050**	**0.062**
Toluene	**0.0050**	**0.0090**
Ethyl Benzene	**0.0050**	**0.0071**
Xylenes (Total)	**0.0050**	**0.017**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	137 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NW-3	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/26/96
Attention: Paul Waite	Lab Number: 9610G16-02	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**3.0**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.0058**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	114

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NW-8	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/28/96
Attention: Paul Waite	Lab Number: 9610G16-03	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**34**
Methyl t-Butyl Ether	**0.12**	**0.37**
Benzene	**0.025**	**0.32**
Toluene	**0.025**	**0.086**
Ethyl Benzene	**0.025**	**0.15**
Xylenes (Total)	**0.025**	**0.20**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	147 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NW-12	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/27/96
Attention: Paul Waite	Lab Number: 9610G16-04	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.056**
Benzene	**0.0050**	**0.017**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.018**
Xylenes (Total)	**0.0050**	**0.014**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NW-15	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/27/96
Attention: Paul Waite	Lab Number: 9610G16-05	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.10**
Benzene	**0.0050**	**0.035**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.036**
Xylenes (Total)	**0.0050**	**0.013**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NC-3	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/26/96
Attention: Paul Waite	Lab Number: 9610G16-06	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NC-8	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/27/96
Attention: Paul Waite	Lab Number: 9610G16-07	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**200**	**1500**
Methyl t-Butyl Ether	**5.0**	**8.9**
Benzene	1.0	N.D.
Toluene	1.0	N.D.
Ethyl Benzene	**1.0**	**24**
Xylenes (Total)	**1.0**	**130**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NC-12	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/27/96
Attention: Paul Walte	Lab Number: 9610G16-08	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0059**
Xylenes (Total)	**0.0050**	**0.0070**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NC-15	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-09	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**4.1**
Methyl t-Butyl Ether	**0.025**	**0.042**
Benzene	**0.0050**	**0.037**
Toluene	**0.0050**	**0.032**
Ethyl Benzene	**0.0050**	**0.15**
Xylenes (Total)	**0.0050**	**0.34**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NE-3	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-10	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NE-8	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-11	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**620**
Methyl t-Butyl Ether	**1.2**	**3.6**
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	**0.25**	**5.0**
Xylenes (Total)	**0.25**	**23**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	120

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NE-12	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-12	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**3.4**
Methyl t-Butyl Ether	**0.025**	**0.032**
Benzene	**0.0050**	**0.041**
Toluene	**0.0050**	**0.014**
Ethyl Benzene	**0.0050**	**0.064**
Xylenes (Total)	**0.0050**	**0.21**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: NE-15	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/27/96
Attention: Paul Waite	Lab Number: 9610G16-13	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	**0.0050**	**0.12**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.021**
Xylenes (Total)	**0.0050**	**0.0072**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SW-8	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-14	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**260**
Methyl t-Butyl Ether	0.50	N.D.
Benzene	0.10	N.D.
Toluene	**0.10**	**0.53**
Ethyl Benzene	**0.10**	**0.36**
Xylenes (Total)	**0.10**	**1.3**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	121

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SW-12	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-15	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**6.6**
Methyl t-Butyl Ether	**0.025**	**0.042**
Benzene	**0.0050**	**0.047**
Toluene	**0.0050**	**0.028**
Ethyl Benzene	**0.0050**	**0.019**
Xylenes (Total)	**0.0050**	**0.069**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SW-15	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-16	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**4.9**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	**0.0050**	**0.0055**
Toluene	**0.0050**	**0.012**
Ethyl Benzene	**0.0050**	**0.011**
Xylenes (Total)	**0.0050**	**0.036**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SC-8	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-17	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**58**
Methyl t-Butyl Ether	0.25	N.D.
Benzene	0.050	N.D.
Toluene	**0.050**	**0.14**
Ethyl Benzene	**0.050**	**0.071**
Xylenes (Total)	**0.050**	**0.26**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SC-12	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/27/96
Attention: Paul Waite	Lab Number: 9610G16-18	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SC-15	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Walte	Lab Number: 9610G16-19	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.9**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	**0.0050**	**0.027**
Toluene	**0.0050**	**0.077**
Ethyl Benzene	**0.0050**	**0.036**
Xylenes (Total)	**0.0050**	**0.13**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SE-8	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-20	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SE-12	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-21	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 999 San Pablo Albany	Sampled: 10/25/96
1144 65th St. Suite C	Sample Descript: SE-15	Received: 10/25/96
Oakland, CA 94608	Matrix: SOLID	Extracted: 10/25/96
	Analysis Method: 8015Mod/8020	Analyzed: 10/25/96
Attention: Paul Waite	Lab Number: 9610G16-22	Reported: 10/28/96

QC Batch Number: GC102596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**58**
Methyl t-Butyl Ether	0.25	N.D.
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	**0.050**	**0.32**
Xylenes (Total)	**0.050**	**0.11**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria Environmental Tech.	Client Project ID:	Shell 999 San Pablo Albany	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Paul Waite	Work Order #:	9610G16 03-22	Reported: Oct 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC102596BTEXEXB	GC102596BTEXEXB	GC102596BTEXEXB	GC102596BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Heider	Heider	Heider	Heider
MS/MSD #:	9610G1620	9610G1620	9610G1620	9610G1620
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/25/96	10/25/96	10/25/96	10/25/96
Analyzed Date:	10/26/96	10/26/96	10/26/96	10/26/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.16	0.15	0.14	0.44
MS % Recovery:	80	75	70	73
Dup. Result:	0.17	0.15	0.15	0.45
MSD % Recov.:	85	75	75	92
RPD:	6.1	0.0	6.9	22
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK102596	BLK102596	BLK102596	BLK102596
Prepared Date:	10/25/96	10/25/96	10/25/96	10/25/96
Analyzed Date:	10/26/96	10/26/96	10/26/96	10/26/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.18	0.17	0.16	0.48
LCS % Recov.:	90	85	80	80
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria Environmental Tech.	Client Project ID:	Shell 999 San Pablo Albany	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Paul Waite	Work Order #:	9610G16 01-02	Reported: Oct 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC102596BTEXEXA	GC102596BTEXEXA	GC102596BTEXEXA	GC102596BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Porter	Porter	Porter	Porter
MS/MSD #:	9610B1305	9610B1305	9610B1305	9610B1305
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/25/96	10/25/96	10/25/96	10/25/96
Analyzed Date:	10/25/96	10/25/96	10/25/96	10/25/96
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.17	0.15	0.15	0.42
MS % Recovery:	85	75	75	70
Dup. Result:	0.17	0.15	0.14	0.41
MSD % Recov.:	85	75	70	68
RPD:	0.0	0.0	6.9	2.4
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK102596	BLK102596	BLK102596	BLK102596
Prepared Date:	10/25/96	10/25/96	10/25/96	10/25/96
Analyzed Date:	10/25/96	10/25/96	10/25/96	10/25/96
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.19	0.17	0.16	0.46
LCS % Recov.:	95	85	80	77
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 999 San Pablo Albany
Matrix: Solid
Work Order #: 9610G16 03-22
Reported: Oct 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC102596BTEXEXB	GC102596BTEXEXB	GC102596BTEXEXB	GC102596BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Heider	Heider	Heider	Heider
MS/MSD #:	9610G1620	9610G1620	9610G1620	9610G1620
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/25/96	10/25/96	10/25/96	10/25/96
Analyzed Date:	10/26/96	10/26/96	10/26/96	10/26/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.16	0.15	0.14	0.44
MS % Recovery:	80	75	70	73
Dup. Result:	0.17	0.15	0.15	0.45
MSD % Recov.:	85	75	75	92
RPD:	6.1	0.0	6.9	22
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK102596	BLK102596	BLK102596	BLK102596
Prepared Date:	10/25/96	10/25/96	10/25/96	10/25/96
Analyzed Date:	10/26/96	10/26/96	10/26/96	10/26/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.18	0.17	0.16	0.48
LCS % Recov.:	90	85	80	80

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

961016

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 10/25/96
Page 1 of 3

Site Address: 999 San Pablo Ave, Albany
WIC#: 204-0079-0109
Shell Engineer: R. Jeff Granberry
Phone No.: 675-6168
Fax #:
Consultant Name & Address: Tambria 1144-65th St Oakland CA
Consultant Contact: Paul Waite
Phone No.: 510-420-9185
Fax #: 420-9170
Comments: Need Results by Monday, Noon 10/28
Sampled by: DJ
Printed Name: Paul Waite

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	☐	4461
Site Investigation	☐	4441
Soil Classify/Disposal	☒	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME: 24 hours ☒ / 48 hours ☐ / 5 days ☐ (Normal) / Other ☐ ____

NOTE: Notify lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SE-4.5		202										X	X						01	
NW-3		230										X	X						02	
NW-8		236										X	X						03	
NW-12		243										X	X						04	
NW-15		249										X	X						05	

Relinquished By (signature):	Printed Name: Paul Waite	Date: 10/25 Time: 501	Received (signature):	Printed Name: Fredrick	Date: 10 25 Time: 500
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: SCOT ROSS	Date: 10/25/96 Time: 1900

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93

Brief Of Chain of Custody

Sequoia Analytical
680 Chesapeake Drive, Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
819 Striker Avenue, Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

7610G16

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ______

Date: 10/25/96
Page 2 of 3

Sequoia Analytical
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819 Striker Avenue, Suite 8, Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Site Address: 999 San Pablo Av, Albany

WIC#: 204-0079-0109

Shell Engineer: R. Jeff Granberry
Phone No.: 675-6168
Fax #:

Consultant Name & Address: Cambria 1144-65th St, Oakland CA

Consultant Contact: Paul Waite
Phone No.: 510-420-3185
Fax #: 420-9170

Comments: Need Results Monday 10/28 Noon

Sampled by: [signature]

Printed Name: Paul Waite

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	☐	4461
Site Investigation	☐	4441
Soil Classify/Disposal	☒	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME
- 24 hours ☒ (circled)
- 48 hours ☐
- 16 days ☐ (Normal)
- Other ☐ ______

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: Alameda

Analysis Required

Sample ID	Date	tube (Sludge)	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
NC-3		232										X	X						06	
NC-8		238										X	X						07	
NC-12		244										X	X						08	
NC-15		250										X	X						09	
NE-3		303										X	X						10	
NE-8		306										X	X						11	
NE-12		311										X	X						12	
NE-15		314										X	X						13	

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	Paul Waite	Date: 10/25 Time: 501	[signature]	[illegible]	Date: 1025 Time: 500
		Date: Time:			Date: Time:
		Date: Time:	[signature]	Scott Ross	Date: 10-25-96 Time: 1900

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/11/95

Shell Oil Chn. of Custody

7010616

SHELL OIL COMPANY

RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ______

Date: 10/25/96

FAX (415) 364-9233 · (510) 988-9673 · (916) 921-0100
(415) 364-9600 · (510) 988-9600 · (916) 921-9600
Redwood City, CA 94063 · Walnut Creek, CA 94598 · Sacramento, CA 95834
680 Chesapeake Drive · 404 N. Wiget Lane · 819 Striker Avenue, Suite 8
Sequoia Analytical

Site Address: 999 San Pablo Av

WIC#: 204-0079-0109

Shell Engineer: R Jeff Granberry — Phone No.: 675-6168 — Fax #:

Consultant Name & Address: Cambria 1144-65th St Oakland CA

Consultant Contact: Paul Waite — Phone No.: 510-420-9185 — Fax #: 420-9170

Comments: Need results by Monday 10/28, Noon

Sampled by: [signature]

Printed Name: Paul Waite

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring ☐	4461	24 hours ☒
Site Investigation ☐	4441	48 hours ☐
Soil Classify/Disposal ☒	4442	16 days ☐ (Normal)
Water Classify/Disposal ☐	4443	Other ☐
Soil/Air Rem. or Sys. O & M ☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M ☐	4453	
Other ☐		

UST AGENCY: Alameda

Analysis Required

Sample ID	Date	Time	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SW-8	10/25	128	X									X	X					14	
SW-12		135										X	X					15	
SW-15		143										X	X					16	
SC-8		130										X	X					17	
SC-12		137										X	X					18	
SC-15		144										X	X					19	
SE-8		206										X	X					20	
SE-12		209										X	X					21	
SE-15		215										X	X					22	

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	Paul Waite	Date: 10/25 Time: 301	[signature]	French	Date: 10/25 Time: 536
		Date: Time:			Date: Time:
		Date: Time:	[signature]	Scot Ross	Date: 10-25-96 Time: 1900

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93 · Shell Oil Chn. of Custody

ATTACHMENT G

Soil Disposal Confirmation

DISPOSAL CONFIRMATION

Consultant:	CAMBRIA ENVIRONMENTAL
Contact:	PAUL WAIT
Phone/Fax:	(510) 420-0700 FAX (510) 420-9170
Client:	SHELL OIL CO. - JEFF GRANBERRY
Station #/Wic #:	204-0079-0109
Site Address:	999 SAN PABLO
City/State:	ALBANY, CA
Estimated YD/Ton:	1300 YARDS
Actual YD/Ton:	235.27/126.73/310.47 TONS
Disposal Facility:	FORWARD LANDFILL, INC.
Disposal Date:	OCTOBER 22, NOVEMBER 1 & 8, 1996
Contact:	CORRINA MATHEWS
Phone #:	(209) 982-4298
Hauler:	MANLEY & SONS TRUCKING, INC.
Contact:	TIM A. MANLEY
Phone #:	(916) 381-6864
Fax #:	(916) 381-1573

Date & Time Faxed

5308

12/5/96 12:50