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Interim Remedial Action
Large-Diameter Auger Excavation Operations
and
4th Quarter 2001 Quarterly Groundwater Monitoring

19984 Meekland Avenue Hayward, California

February 8, 2002

Prepared for:

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By:

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TABLE OF CONTENTS

EXECUTIVE SUMMARY PURPOSE AND SCOPE	
FIELD OPERATIONS AND COLLECTED DATA	
- Landfill Acceptance Borings	
- Large-Diameter Auger Excavation Operations	
LABORATORY ANALYTICAL RESULTS: SOIL & GROUNDWATER	
QUARTERLY GROUNDWATER MONITORING RESULTS	
SCHEDULE OF ACTIVITIES FOR FOLLOWING QUARTER	4
LIMITATIONS	4
TABLES	
Γable 1: Current and Previous Investigations Soil Sample Analytical Results	
Table 2: Current Investigation Groundwater Grab Sample Analytical Results	
Γable 3: Summary of Groundwater Elevations	
FIGURES	
Figure 1: Location Map	
Figure 2: Large Diameter Auger Source Removal Footprint Map & Certified Analytical Results	
Figure 3: Large Diameter Auger Shafts and Backfilling Details Figure 4: Photo Sheet #1	
Figure 5: Photo Sheet #2	
Figure 6: Photo Sheet #3	
Figure 7: Groundwater Elevations, December 2001	
Figure 8: PHC % in Groundwater, December 2001	
Figure 9: Extent of TPH-gas/BTEX in Groundwater, December 2001	
APPENDICES	
Appendix A: Geologic Logs of Landfill Acceptance Borings	
Appendix B: Certified Analytical Reports for Excavation	
Appendix C: Certificate of Disposal of Contaminated Groundwater & Non Hazardous Soil Waste Manifests	
Appendix D: Field Methodology for Groundwater Monitoring Appendix F: Certified Applytical Results for Quarterly Monitoring	
ADDEDUIX E. CETHIEG ADSIVICSI RESULTS for CHISTERIV MODIFICIAN	



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PURPOSE AND SCOPE

Weber, Hayes and Associates has completed an interim remedial action scope of work designed to excavate a remaining area of contamination beneath former tank excavations, to eliminate it as a source of ongoing contamination. Records of downgradient monitoring wells MW-5, and MW-9 at 19984 Meekland Avenue, Hayward (Figure 1), have shown groundwater hydrocarbon concentrations fluctuating with groundwater elevation, indicating a remaining source of contamination at and below groundwater level.

Upon conducting a additional site assessment in February 2001, it was determined that the contamination was limited to the area beneath former tank excavations. The scope of the interim remedial action was adjusted again when a deeper zone of contamination (to 40 feet) was discovered during the drilling of the landfill acceptance borings in October 2001. Since that discovery, Weber, Hayes and Associates wrote an addendum to the scope of work to address removing the deeper layer of contamination using large diameter augers. Our addendum to the interim remedial action was approved by Alameda County Environmental Health Services (AC-EHS)in their letter¹ dated December 13, 2001.

The large diameter auger excavation method was chosen based on; 1)depth to groundwater, 2)close proximity of existing streets, 3) ability to excavate to base of a highly contaminated soil layer (up to 40 feet) which was the suspected remaining contamination feeding the groundwater plume, 4) the cost effectiveness and, 5) the time effectiveness to conduct the job. Soil excavation by other means would have required ramping or benching to prevent sidewall sluffing. However, this would have made it necessary to shut down the street, and would have generated many times the soil quantity, both of which would have increase project costs. It would have been feasible to prevent sidewall sluffing by using sheet piles and shoring, however, the cost to have shoring or sheet piles down 40 feet below ground surface would have greatly increased the costs of the project.

Quarterly Monitoring Results

In addition to excavation results, this report presents the 4th Quarter 2001 groundwater monitoring report for the site. The groundwater monitoring event for the fourth quarter 2001 took place on December 18, 2001. Groundwater elevations at the site rose an average of approximately 0.84 feet since the previous quarter (September 2001). The calculated groundwater flow direction on December 18, 2001 was to the west, which appears to be consistent with historical data. Groundwater analytical results from the fourth quarter 2001 indicate that dissolved petroleum hydrocarbons ("PHCs") are present at concentrations that exceed water quality goals in on-site monitoring wells downgradient of the removed underground storage tanks ("USTs") and dispensers at the site.

Methyl - tert - Butyl Ether (MTBE) was not detected in the groundwater samples collected this

¹: Alameda County Environmental Health Services Agency letter: Property at 19984 Meekland Avenue, Hayward, CA 94541, Approval of Addendum to Interim Remedial Action

quarter. MTBE has not been detected in groundwater at the site. Groundwater samples in the third quarter 2000 were analyzed for the fuel oxygenates Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, and tertiary Amyl Methyl Ether. No fuel oxygenates were detected in these groundwater samples. The fuel release at the site is believed to predate the use of these oxygenates.

PHC concentrations at the site generally declined slightly this quarter in all impacted groundwater monitoring wells except wells MW-6, MW-9 and MW-10.

EXCAVATION FIELD OPERATIONS AND COLLECTED DATA

Landfill Acceptance Borings

In October 2001, two borings were drilled in the area of suspected soil contamination. These boring were drilled for two purposes; 1) to confirm the presence of a hydrocarbon source at depth and, 2) to use the samples obtained from these borings to obtain landfill acceptance for the soils we expected to remove during our interim remedial action excavation operations. Obtaining landfill acceptance would allow us to immediately load contaminated soils from our excavation operations directly into trucks for transport to Forward Landfill in Manteca, instead of stockpiling contaminated soils onsite in a residential neighborhood.

During the drilling of these borings, it was discovered that contamination existed from as shallow as 10 feet to 39 feet below ground surface (bgs) in boring DP-1 and to 20 feet to 39 feet in boring DP-2. A layer of highly contaminated soil was identified from 34-39 feet bgs in both borings which confirmed our suspicions that there existed a remaining source for the groundwater plume at the site. Boring locations are shown on Figure 2 and Geologic Logs of Landfill Acceptance Borings are included in Appendix A.

Large Diameter Auger Excavation Operations

On January, 7, 8, 9, and 10, 2002, interim remedial action excavation operations were conducted at 19984 Meekland Avenue, in Hayward (Figure 1), by using six foot diameter augers to excavate contaminated soils. Excavation operations were conducted by Case Pacific under the direction of a geologist from Weber, Hayes and Associates. Sixteen large diameter shafts were drilled to 40 feet bgs, approximately 10-15 feet below the groundwater table. Locations of large diameter auger borings are depicted on Figure 2. Figure 3 shows large diameter boring details, and Figures 4, 5, and 6 show photos of interim remedial action excavation operations.

At the onset of drilling each large diameter shaft, clean overburden was removed with the large diameter augers and stockpiled onsite to be reused as backfill. Clean overburden was determined by; 1) using a HNU organic vapor analyzer to determine the presence or absence of contamination, 2) visual identification of soil color, 3) olfactory parameters and, 4) previous lab results from the site assessment investigation². At the end of each day of drilling, a 4-point soil composite sample (Soil Reuse

²:Weber, Hayes and Associates: Additional Site Assessment and Groundwater Monitoring Report - First Quarter - 2001, Harbert Transportation, 19984 Meekland Avenue, Hayward CA, dated June 6, 2001.

#1a,b,c,d, #2a,b,c,d, and #3a,b,c,d) was obtained from the clean overburden and analyzed on a 24 hour rush analysis so that backfilling of the large diameter shafts to ground surface could be conducted. Each of the three 4-point composites samples were clean, with no TPH-g or M-BTEX detections, as depicted on Table 1.

Once contaminated soil was encountered within the large diameter shaft being drilled, the soil was segregated from the clean overburden and loaded directly into trucks (Caballero Trucking) for transport to Allied Waste - Forward Landfill in Manteca. Over three days of drilling, a total of 33 trucks transported 594 yds³ of gasoline contaminated soils under proper hazardous waste manifest to Forward Landfill. Strong hydrocarbon odor and staining was present in much of the contaminated soil (see Photo Sheets). In addition, 3,000 gallons of gasoline impacted groundwater was extracted from one designated large diameter shaft to help dewater the area being drilled. Groundwater Certificate of Disposal and Non Hazardous Soil Waste Manifest forms are included in Appendix C.

During drilling, the drill rig was able to remove a 6-foot diameter by 6-foot section of soil within one pass, which made drilling efficient, and allowed the drill rig to stay ahead of groundwater seeping into the shaft once the soil/groundwater interface was reached. Better than anticipated drilling and excavation results and soil conditions allowed us to remove more contamination than originally anticipated. A clear visual contact was present near the base of several holes between contaminated and clean soil. Once the shaft was completed to 40 feet bgs, and all caving sands that had fallen into the shaft had been removed, a sidewall or bottom soil sample was obtained.

After each shaft was drilled to its completion, proper backfilling was conducted. Backfilling operations were the same for each large diameter shaft. A diagram for backfilling operations is depicted on Figure 3. Specifically, upon reaching 40 feet bgs, Oxygen Release Compound® (ORC) was poured into the saturated zone. ORC is a formulation of magnesium peroxide that slowly releases molecular oxygen when hydrated which will promote microbial growth and enhance the ability of aerobic microbes to degrade contaminants. The ORC slurry targets dissolved phase contamination plus any residual sorbed material within the saturated zone and capillary fringe. Following the ORC fill, 10 yds³ of control density fill (flowable cement grout) was added to each shaft, to above the water table/ saturated zone. This cement slurry was necessary so that drilling of the next shaft could be conducted. Without the cement slurry, the augers would "sway" into the previously drilled shaft. After the cement slurry installation, clean fill sand was placed into the shaft and brought to within approximately 15 feet of ground surface. After the fill sand was placed, and receipt of analytical results of the soil reuse stockpile were obtained, the clean soil was placed atop of the fill sand to complete the backfilling of the shafts to ground surface. The backfill material was compacted with the loader and backhoe after the shaft was completely filled.

LABORATORY ANALYTICAL RESULTS: SOIL & GROUNDWATER

During the interim remedial action, a total of 16 soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) and the volatile constituent compounds of Methyl tert Butyl Ether (MTBE), benzene, toluene, ethylbenzene, xylenes (BTEX). Laboratory tested soil samples were collected from the sidewalls and base of large-diameter shafts to confirm the majority of soil contamination had been removed (see Results, Table 1). Additionally, groundwater samples were

obtained at the onset of groundwater dewatering, and at the end of pumping 3,000 gallons to show the decrease in groundwater concentrations as a result of groundwater batch removal (see Results, Table 2). Certified analytical reports issued by Entech Environmental Laboratory (CAELAP # I-2346) are included in Appendix B. The groundwater was properly disposed of by Intergrated Waste Management (IWM). A certificate of disposal of contaminated groundwater is included in Appendix C.

Confirmatory soil samples from the large diameter shafts (14 sidewall and 2 base) indicate soil contamination was successfully removed to its full lateral and vertical extent. Soil analytical results indicate only non-detectable to trace levels of residual hydrocarbons remain. Groundwater analytical results show a decrease in groundwater concentrations from the start of pumping to the end of pumping. Specifically:

- SOIL: Trace concentrations of TPH-g and its constituents MTBE, and BTEX was detected in 5 of the 16 soil samples obtained after the excavation from the remedial soil removal operations. Of those samples with detections, the highest concentration was TPH-g at 34 mg/kg or parts per million (ppm) in the west sidewall sample from large diameter auger shaft #16 (LD#16 SW-W) as depicted on Table 1. No contamination was detected in the 11 remaining sidewall and base soil samples (see Figure 2).
- Water #1 obtained directly at the onset of groundwater dewatering. TPH-g was detected at 22,000 ug/L or parts per billion (ppb), along with gasoline constituents of benzene at 450 ppb, toluene at 320 ppb, ethylbenzene at 1,500 ppb, xylenes at 3,800 ppb, and MTBE at <5 ppb. At the end of excavation operations and after pumping 3,000 gallons of groundwater another groundwater sample was obtained (Pit Water #2). Analytical results from this groundwater sample still indicated moderate levels of TPH-g at 18,000 ppb, benzene at 320 ppb, toluene at 140 ppb, ethylbenzene at 1,300 ppb, xylenes at 2,900 ppb, and MTBE at <15 ppb, as depicted on Table 2. No MTBE has been detected at the site since monitoring began.

CONCLUSIONS FROM EXCAVATION

In summary, the majority of the soil contamination beneath the subject site was successfully removed within two former tank excavations. A total of 594 yd³ of gasoline impacted soil was removed from the former tank excavation pits, as well as, 3,000 gallons of gasoline impacted groundwater. In addition to soil and groundwater source removal operations, 400 pounds of Oxygen Release Compound® (ORC), was released into the saturated zone, prior to backfilling the shafts to encourage biodegradation of any residual contamination below the water table.

QUARTERLY GROUNDWATER MONITORING RESULTS

This report documents groundwater monitoring activities at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California (the site), during the fourth quarter 2001. This report has been prepared pursuant to a directive from the Alameda County Health Care Services Agency/Environmental Health Services (Environmental Health, August 8, 2000) regarding a release

of petroleum hydrocarbons (PHCs) from underground storage tanks (USTs) at the site.

Groundwater monitoring activities conducted during this quarter included:

- 1. Measuring groundwater levels and checking for the presence of free product in all of the monitoring wells associated with the site
- 2. Measuring the physical parameters of pH, temperature, electrical conductivity, and dissolved oxygen concentration in each well
- 3. Collecting groundwater samples from each of the monitoring wells
- 4. Submitting 10 groundwater samples to a state-certified analytical laboratory for analysis of dissolved PHC concentrations following proper chain-of-custody procedures
- 5. Determining groundwater elevations, flow direction, and gradient in the vicinity of the site
- 6. Mapping the extent of the dissolved PHC plume in groundwater beneath the site
- 7. Preparing this report

Groundwater Monitoring

The groundwater monitoring event for the fourth quarter 2001 took place on December 18, 2001. Field methods followed Weber, Hayes and Associates' standard field methodology for groundwater monitoring, which is described in Appendix A. Groundwater samples were collected from all monitoring wells at the site in accordance with directives from Environmental Health, and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) by EPA Method 8015M, and benzene, toluene, ethylbenzene, and xylenes (BTEX), and Methyl tert Butyl Ether (MTBE) by EPA Method 8020. Samples with elevated detection limits or detections of MTBE were analyzed by EPA Method 8260 to confirm the presence of MTBE and provide the proper detection limit. Field data forms are also presented in Appendix A.

Free Product

Free product was not observed in any of the monitoring wells at the site.

Groundwater Elevation and Flow Direction

Groundwater elevations were calculated by subtracting the measured depth-to-groundwater from the top-of-casing elevations, which were surveyed by a state-licensed Land Surveyor. Field measurements and the calculated groundwater elevations for the site are summarized in Table 1. Groundwater elevations at the site rose an average of approximately 0.84 feet since the previous quarter (September 2001). Calculated groundwater elevations from the gauging data collected on December 18, 2001 are shown on Figure 2. Data from this quarter indicate that groundwater flow is to the west (see Figure 2). The calculated groundwater gradient on December 18, 2001 was to the west at approximately 0.003 feet per foot. Groundwater elevations in monitoring wells MW-5 and MW-10 were inconsistent with groundwater elevations in the other site monitoring wells this quarter, and are considered anomalous. Monitoring wells MW-5 and MW-10 were not used for groundwater flow direction calculation or groundwater contour construction for this reason. This is the first time that anomalous

groundwater elevations have been reported from these site wells. Previous reports indicate that the groundwater flow direction in the vicinity of the site has generally been in a westerly direction. A table and figures summarizing previous depth to groundwater data is presented as Appendix B.

Groundwater Analytical Results

Groundwater samples were collected from all of the monitoring wells associated with the site this quarter, in accordance with directives from Environmental Health. The groundwater analytical results for this quarter are summarized below.

Summary of Groundwater Sample Analytical Results, December 18, 2001 (µg/L, ppb)

Well ID	ТРН-д	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-3	270	1.6	1.7	13	5.4	ND
MW-4	ND	ND	0.9	ND	ND	ND
MW-5	780	21	12	86	94	ND*
MW-6	3,700	33	8.7	320	110	< 1.5*
MW-7	290	ND	ND	119	4.6	ND*
MW-8	ND	ND	ND	ND	ND	ND
MW-9	6,400	640	120	630	1,300	< 1.5*
MW-10	1,500	7.9	2.9	ND	ND	< 0.6*
MW-11	ND	ND	0.56	ND	ND	ND
MW-12	ND	ND	0.86	ND	ND	ND
AL/MCL	1,000	1	150	700	1,750	5

^{* =} Confirmed by GC/MS method 8260

The concentration of benzene in well MW-3 exceeds the groundwater quality goal/ Maximum Contaminant Level (MCL).

The concentration of benzene in well MW-5 exceeds the groundwater quality goals/Maximum Contaminant Level (MCLs).

The concentrations of TPH-g and benzene in well MW-6 exceed the respective groundwater quality goals/AL/MCLs.

The concentrations of TPH-g and benzene in well MW-9 exceed the respective groundwater quality goals/AL/MCLs.

The concentrations of TPH-g and benzene in well MW-10 exceed the respective groundwater quality goals/AL/MCLs.

MTBE was not detected in any of the wells associated with the site.

Please see the Site Conceptual Model section for a discussion of the groundwater analytical results.

Analytical results for the groundwater samples collected by Weber, Hayes and Associates are summarized in Table 1. PHC concentrations detected in groundwater during the current monitoring event are shown on Figure 3. The extent of dissolved PHCs greater than 1,000 ppb TPH-g and 10 ppb benzene in groundwater are shown on Figure 4.

The Certified Analytical Report for the groundwater samples is presented as Appendix C. All laboratory quality control and quality assurance data were within acceptable limits. A table and figures summarizing analytical results of groundwater samples collected by previous consultants is presented as Appendix D.

Dissolved Oxygen Measurements

Historic Dissolved oxygen measurements collected at the site indicate generally lower levels of dissolved oxygen in PHC impacted wells compared to levels in non-impacted, upgradient wells. We believe this, combined with the observed decrease in dissolved PHC concentrations over time, indicates that natural attenuation of PHCs via bioremediation is occurring in groundwater, with microbes using dissolved PHCs as a food source during aerobic respiration (see Bushek and O'Reilly, 1995, Table 1, Figure 3, and Appendix D).

Summary of Quarterly Monitoring Results

- Free product was not observed in any of the monitoring wells at the site.
- Groundwater elevations at the site rose an average of approximately 0.84 feet since the previous quarter (September 2001).
- The groundwater flow direction on December 18, 2001 was to the west at a gradient of approximately 0.003 feet per foot. This direction is in general agreement with data collected by us in the past three quarters and previous data collected by others at the site.

- MTBE was not detected in any of the groundwater samples collected this quarter.
- TPH-g was detected at a concentration above the MCL in on-site wells MW-6, MW-9, and MW-10 which are located downgradient of the removed USTs.
- Benzene was detected at a concentration above the MCL in wells MW-3, 5, 6, 9 and 10.
- Historic measurements of dissolved oxygen collected at the site indicate aerobic bioremediation is occurring in the PHC-impacted wells.

At this time we recommend:

- Continuing quarterly groundwater monitoring of dissolved PHC concentrations at the site.
- Calculating additional cleanup levels for those PHCs which have not yet had cleanup levels set (ethylbenzene, xylenes, and TPH-g, see Weber, Hayes and Associates, June 18, 2001), for comparison with concentrations after the interim remedial excavation.

SCHEDULE OF ACTIVITIES FOR THE FOLLOWING QUARTER

The following activities are scheduled for the next quarter:

- Quarterly groundwater monitoring of all monitoring wells as directed by Environmental Health, including measuring the depth-to-groundwater, dissolved oxygen concentration, and physical parameters, and collecting samples from all wells and analyzing them for TPH-g, BTEX and MTBE by EPA Methods 8015M and 8020. All detections of MTBE will be confirmed by EPA Method 8260.
- Calculating cleanup levels for PHCs in soil and groundwater at the site for comparison with concentrations after the interim remedial excavation, after cost pre-approval by the UST Cleanup Fund.

LIMITATIONS

Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic principles and practices. This warranty is in lieu of all others, either expressed or implied. The analysis and conclusions in this report are based on sampling and testing which are necessarily limited. Additional data from future work may lead to modification of the opinions expressed herein.

Thank you for this opportunity to be of service. Should you have any questions or comments regarding this project, please contact us at our offices.

JOSEPH P. HAYES No. 1629

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Respectfully submitted,

WEBER, HAYES AND ASSOCIATES

Aaron Bierman Staff Geologist Joseph/Hayes

Certified Engineering Geologist #16F9CAL

Certified Hydrogeologist #373

Table 1 Current and Previous Investigations Soil Sample Analytical Results Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, CA

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Investigation & Date	Sample ID	Sample Depth (feet,bgs)	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
Interim Remedial Action	Soil Reuse #1a,b,c,d	4-point composite (0 - 10')	МD	ND	ND	ND	ND	ND
Large Diameter Auger Drilling & Source Removal (January 7, 8, 9, 10, 2002)	Soil Reuse #2a,b,c,d	4-point composite (0 - 20')	ND	ND	ND	ND	ND	ND
	Soil Reuse #3a,b,c,d	4-point composite (0 - 20')	NĐ	ND	ND	ND	ND	ND
	LD#1 SW-E	35'	ND	ND	ND	0,005	0.011	ND
	LD#2 SW-W	35'	ND	ND	ND	ND	ND	ND
	LD#3 BC-N	40'	ND	ND	ND	ND	ND	ND
	LD#4 SW-N	40'	1.2	ND	0.912	0.005	0,006	ND
	LD#5 SW-N	40°	ND	ND	ND	ND	ND	ND
	LD#8 SW-S LD#9 SW-E	40'	ND ND	ND ND	ND ND	ND ND	ND ND	ND
	LD#10 SW-E	40'	ND	ND	ND	ND	ND	ND ND
	LD#11 SW-W	40'	ND	ND	0 014	0 013	0,062	ND
	LD#12 SW-E	18'	ND	ND	ND	ND.	ND	ND
	LD#12 SW-E	18'	ND	ND	ND	ND	ND	ND
	LD#13 SW-E	40'	ND	ND	0.006	ND	0.022	ND
	LD#14 SW-W	40'	ND	ND	ND	ND	ND	ND
	LD#15 BC-S	40'	ND	ND	ND	ND	ND	ND
	LD#16 SW-W	18'	ND	ND	ND	ND	ND	ND
	LD#16 SW-W	40'	34	0.041	ND	0.12	0,62	ND
Landfill Acceptance Borings	DP-1c,d,e,f	4-point composite (15-30')	ND	ND	ND	ΝD	ND	ND
(October 18, 2001)	DP-2c,d,e,f	4-point composite (15-30')	130	ND	0.13	0.37	1.2	ND
Soil Sampling	DP-1a	2	ND	ND	0.010	ND	0.025	ND
Additional Site Assessment	f	23	ND	ND	ND	ND	ND	ND
(February 14, 2001)	g @ 24'	24	ND	ND	ND	ND	0,007	ND
	g@27'	27	ND	ND	ND	0,007	0.015	ND
	DP-2a	2	ND	ND	0.019	0.020	0.13	ND
	d d	13.5	1,800	< 0.5	4.5	19	270	ND*
	e	18.5	8,700	18	720	230	1,600	< 0.5*
	g	24	1,800	3,5	52	39,0	250	ND*
	DP-3a	2	ND	ND	0.017	0.006	0,054	ND
	b	7,5	ND	ND	0.063	0.020	0 12	ND
	e	18.5	ND	ND	ND	ND	ND	ND
	g	27.5	18	0,036	0,067	0,070	0.060	ND*
	DP-4a	2	ND	ND	0.014	0,008	0.058	ND
	e a Garasi	195	ND	ND	ND	ND	ND ND	ND
	g@ 25'	25 27	ND ND	ND	ND ND	ND ND	ND ND	ND ND
	g @ 27 DP-5a	27	ND	ND	ND	ND	ND	ND
	d d	12	ND	ND	ND	ND	ND	ND
	f	20	ND	ND	ND	ND	ND	ND
	g	24	ND	ND	ND	ND	ND	ND
	DP-6a	2	ND	ND	ND	ND	ND ND	ND
	d	14	ND	ND	ND	ND	ND ND	ND
ł	ě	18	ND	ND	ND	ND	ND	ND
ı	g	24	ND	ND	ND	0,009	ND	ND
NA COLOR	DP-7a	2	ND	ND	ND	ND	ND	ND
4	d	14	ND	ND	ND	ND	ND	ND
	e	18	ND	ND	ND	ND	ND	ND
	g	24	ND	ND	ND	ND	ND	ND
	DP-8a	2	ND	ND	ND	ND	ND	ND
		13	ND	ND	ND	ND	ND	ND
	d		3/03	ND	ND	ND	ND	ND
	e e	18	ND					
		18 24	ND	ND	ND	ND	ND	ND
	e	9			ND ND	ND ND	ND ND	ND
	e g	24	ND	ND				
	e g DP-9a	24 2	ND ND	ND ND	ND ND ND	ND	ND	ND
	e g DP-9a d	24 2 13	ND ND ND	ND ND ND	ND ND	ND ND	ND ND	ND ND

NOTES:

S:

TPH-g: Total Petroleum Hydrocarbons as gascime

BTEX: B: Benzese, T: Tohuene, E: Ethylbenzene; and X: Total Xylenes.

MTBE: Methyl-text-Butyl Ether.

bgu below ground surface

ND: Not detected at or above the lab's practical quantitation limit.

-X: Not detected at the elevated PQL, X. PQL elevated due to laboratory dilution.

*: MTBE Analysis confirmed by EPA Method 8260.

Table 2
Current Investigation Groundwater Grab Sample Analytical Results
Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, CA

Investigation & Date	Sample ID	Sample Depth (feet,bgs)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
Interim Remedial Action	Pit Water #1	30'	22,000	450	320	1,500	3,800	<5
Large Diameter Auger Drilling & Source Removal (January 7, 8, 9, 10, 2002)	Pit Water #2	30'	18,000	320	140	1,300	2,900	<15
Laboratory's Practical Quantitation	on Limits:		50	0.5	0.5	0,5	0.5	0.3

NOTES:

TPH-g: Total Petroleum Hydrocarbons as gasoline

BTEX: B: Benzene, T: Toluene, E: Ethylbenzene; and X: Total Xylenes.

MTBE: Methyl-tert-Butyl Ether.

bgs: below ground surface

ND: Not detected at or above the lab's practical quantitation limit.

<X: Not detected at the elevated PQL, X. PQL elevated due to laboratory dilution.

*: MTBE Analysis confirmed by EPA Method 8260.

Pit Water #1: Sample obtained directly prior to extensive dewatering.

Pit Water #2: Sample obtained after extensive dewatering 3,000 gallons of contaminated water.

Table 3: Summary of Groundwater Elevation and PHC Analytical Data Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca. Weber, Hayes and Associates Project H9042

Well	Date	Screened Interval	Surveyed T.O.C.	Depth to Groundwater	Calculated Groundwater			Labor	atory Analytical	Results			
I.D.		(feet below ground surface)	Elevation (feet)	(feet below ground surface)	Elevation (feet)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	F.O.'s (ug/L)	D.O. (mg/L)
MW-3		20 - 40?	55.44										
	18-Dec-2001			23.59	31.85	270	1.6	17	13	5.4	ND		
	20-Sep-2001			24.16	31.28	380	1.7	2.6	32	8.9	ND	-	0.4
	20-Jun-2001			23.55	31.89	760	4.4	24	62	23	ND*		
	29-Mar-2001			22.02	33 42	170	1.1	ND	10	1.6	ND		0.6
	12-Jan-2001			23.41	32.03	310	2.4	2.2	4.4	10	ND		0.7
	27-Sep-2000			23.09	32.35	430	ND	ND	44	ND	ND	ND	1.0
MW-4		20 - 40?	55.71										
	18-Dec-2001			23.80	31.91	ND	ND	0.9	ND	ND	ND	T	
	20-Sep-2001			24.32	31 39	ND	ND	ND	ND	ND	ND		0,4
	20-Jun-2001			23.74	31.97	ND	ДЙ	ND	ND	ND	ND		
	29-Mar-2001			22,22	33.49	ND	ND	4.2	ND	ND	ND		0.5
	12-Jan-2001]		23.60	32.11	ND	ND	ND	ND	ND	ND		0.7
	27-Sep-2000	-		23.25	32.46	ND	ND	ND	ND	ND	ND	ND	2.5
MW-5		25 - 45	56 03										1
	18-Dec-2001	}		23 15	32.88	780	21	12	86	94	ND*		
	20-Sep-2001	}		24.75	31 28	2,300	46	41	280	330	ND*		0.3
	20-Jun-2001			24 15	31.88	6,500	120	130	740	940	ND*		
	29-Mar-2001			22.69	33.34	13,000	220	510	1,000	2,700	ND*		0.4
	12-Jan-2001			23.97	32.06	1,100	62	40	150	290	ND*		0.3
	27-Sep-2000			23.69	32.34	18,000	840	2.9	1,200	3,500	< 30	ND	0.4
MW-6		25 - 45	56.01									1	<u> </u>
	18-Dec-2001]		24.16	31 85	3,700	33	8 7	320	110	< 1.5*	T	
	20-Sep-2001	1		24.72	31 29	2,500	11	8.6	240	94	ND*		0.3
	20-Jun-2001			24.13	31.88	1,800	14	4.6	160	79	ND*		
	29-Mar-2001			22,56	33 45	610	2.2	ND	37	4.6	ND*		0.5
	12-Jan-2001			23.97	32.04	2,300	16	3.5	290	83	ND*		0.5
	27-Sep-2000		_	23.56	32 45	1,300	ND	4.3	200	17	ND	ND	0.5
MW-7		25 - 45	56.66										<u> </u>
	18-Dec-2001]		24.70	31.96	290	ND	ND	119	4.6	ND		
	20-Sep-2001			25.27	31.39	290	0.98	ND	12	4.5	ND*		0.4
	20-Jun-2001	ļ		24 68	31.98	430	2.4	0 96	30	9.7	ND*		
	29-Mar-2001	 		23.10	33.56	ND	ND	ND	ND	ND	ND		0.5
	12-Jan-2001			24.49	32.17	1,600	13	0.86	150	35	ND*		0.5
	27-Sep-2000	<u></u>		24.18	32.48	270	13	6.6	11	ND	ND	ND	0.5

Table 3: Summary of Groundwater Elevation and PHC Analytical Data Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca. Weber, Hayes and Associates Project H9042

Well	Date	Screened Interval	Surveyed T.O.C.	Depth to Groundwater	Calculated Groundwater			Labor	atory Analytical	Results	MANAGE STATE OF THE STATE OF TH		
I.D.		(feet below ground surface)	Elevation (feet)	(feet below ground surface)	Elevation (feet)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	F.O.'s (ug/L)	D.O. (mg/L)
MW-8		20 - 40	56.16										
	18-Dec-2001			24.16	32.00	ND	ND	ND	ND	ND	ND	-	
	20-Sep-2001			24.68	31.48	ND	ND	ND	ND	ND	ND		1.6
	20-Jun-2001			24.09	32.07	ND	ND	ND	ND	ND	ND		
	29-Mar-2001			22.56	33 60	ND	ND	0.8	ND	ND	ND		1.9
	12-Jan-2001			23.93	32 23	ND	ND	ND	ND	ND	ND		2.1
	27-Sep-2000			23,59	32 57	ND	ИĎ	ND	ND	ND	ND	ND	1.9
MW-9		20 - 40	55.21										
j	18-Dec-2001			23.38	31 83	6,400	640	120	630	1,300	< 1.5*		
:	20-Sep-2001]		23.94	31.27	3,400	270	38.0	390	430	ND*		0.3
	20-Jun-2001	1		23.36	31.85	8,300	330	88.0	850	1,700	< 0.6*		
	29-Mar-2001	ļ		21.61	33.60	1,600	110	14.0	240	150	ND*		0.4
	12-Jan-2001			23.17	32.04	10,000	550	110.0	1,200	2,200	ир*		0.5
	27-Sep-2000			22.90	32 31	1,000	40	67	110	55	ND	ND	0.5
MW-10		25 - 40	54.74										***************************************
	18-Dec-2001			21.11	33 63	1,500	7.9	2.9	ND	ND	< 0.6*	L	
	20-Sep-2001			23.70	31.04	1,200	6	9.9	1,2	3.9	ND*		0.4
	20-Jun-2001			23.17	31 57	810****	3	1.6	5.1	13	ND*		<u></u>
	29-Mar-2001			21.63	33.11	600****	2	0.65	ND	0 72	ND		0.5
	12-Jan-2001			22.99	31.75	530	3.7	1.9	2 1	4.5	ND		0.6
	27-Sep-2000			22,72	32.02	880	ND	ND	ND	ND	ND	ND	0.4
MW-1i		25 - 40	55 20										
	18-Dec-2001			23.39	31.35	ND	DN	0.56	ND	ND	ND		
	20-Sep-2001		,	23.87	30.87	ND	ND	ND	ND	ND	ND		0.4
	20-Jun-2001	-		23.39	31.35	ND	ND	ND	ND	ND	ND		
	29-Mar-2001	-		21.84	32.90	ND	ND	4.5	ND	ND ND	ND		0.6
	12-Jan-2001			23.21	31.53	ND	ND	2.1	ND	ND	ND		0.6
	27-Sep-2000			22 43	32.31	63	ND	ND	ND	ND	ND	ND	0.6
MW-12		25 - 40	56 49						T-7				
	18-Dec-2001			24.49	32.00	ND_	ND	0.86	ND	ND	ND		
	20-Sep-2001			24.95	31.54	ND	ND	ND	ND	ND	ND		0.7
	20-Jun-2001			24.47	32.02	ND	ND	ND	ND	ND	ND		
	29-Mar-2001			22.91	33.58	ND	ND	5.0	ND	ND	ND		1.0
	12-Jan-2001			24.28	32.21	NĐ	ND	1.1	ND	ND	ND	~~	1.0
	27-Sep-2000			23.98	32.51	ND	ND	ND	ND	ND	ND	ND	1.2
	Laborato	ry's Practical	Quantitatio	n Limit (PQL):	/	50	0.5	0.5	0.5	0,5	. 5	5	Field
	State N	Iaximum Cor	itaminant L	evel (MCL):	* ** * * * * * * * * * * * * * * * * *	1,000**	1.	150	700	1,750	5***	0.5	Instrument

Notes:

TOC = Top of Casing Elevation Calculated groundwater elevation = TOC - Depth to Groundwater Referenced to NGVD TPH-g = Total Petroleum Hydrocarbons as gasoline MTBE = Methy - tert - Butyl Ether

F.O.'s = Fuel Oxygenates = Di-isopropyl ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl tertiary Butyl Ether (ETBE), tertiary amyl Methyl Ether (TAME) VOC's = Volatile Organic Compounds D.O = Dissolved Oxygen

ug/L = micrograms per liter, parts per billion; mg/L = milligrams per liter, parts per million

ND = Not Detected at the Practical Quantitation Limit (PQL), <X = Not Detected at the elevated PQL, X PQL elevated because of sample dilutio

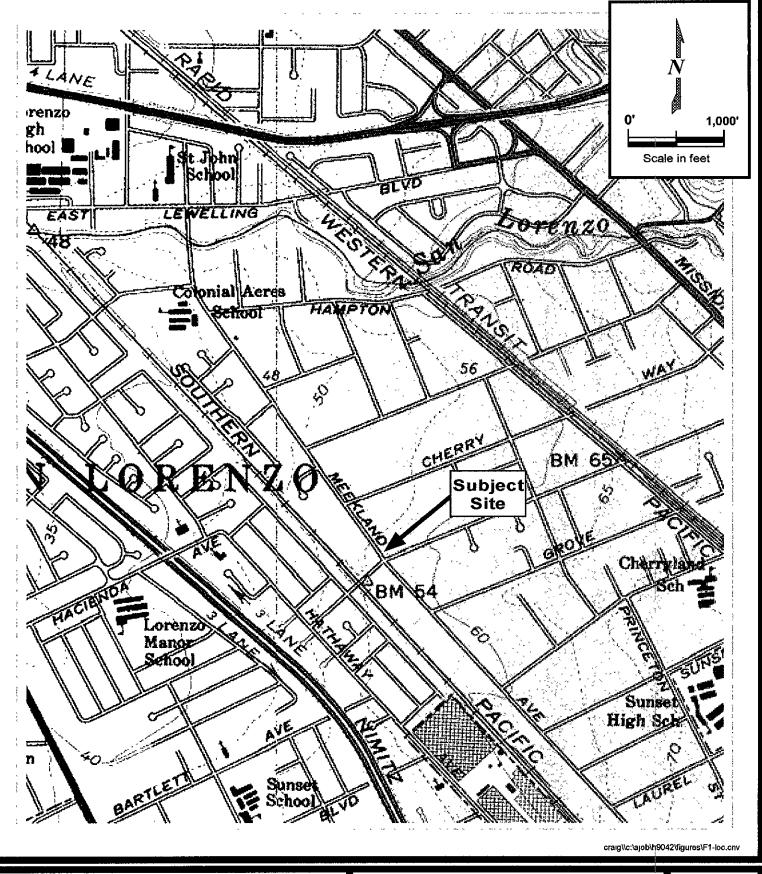
-- = Data not collected or measured, or analysis not conducted

MCL = Maximum Contaminant Level for drinking water in California (Department of Health Services)

* Confirmed by GC/MS method 8260

** = Action Level *** = Secondary MCL / water quality goal

^{**** =} Laboratory Report indicates results within quantitation range, chromatographic pattern not typical of fuel



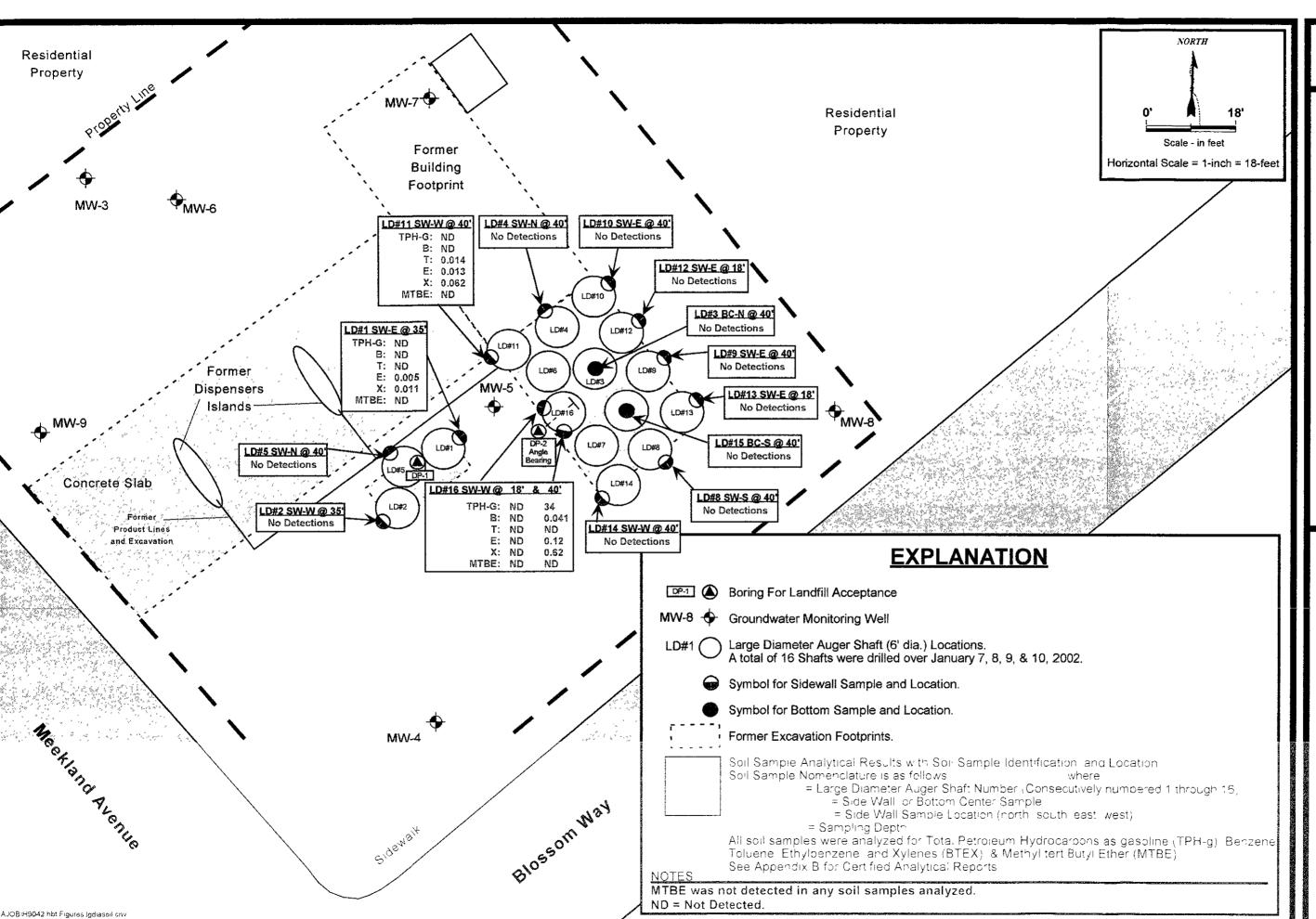


Weber, Hayes & Associates
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, Ca. 95076
(831) 722 - 3580 (831) 662 - 3100

Location Map

Former Harbert Transportation Facility 19984 Meekland Avenue Hayward, California

Figure Job# H9042



Large Diameter Auger Source Removal Footprint Map and Soil Sampling Certified Analytical Results Harbert Transportation 19984 Meekland Avenue Hayward, California

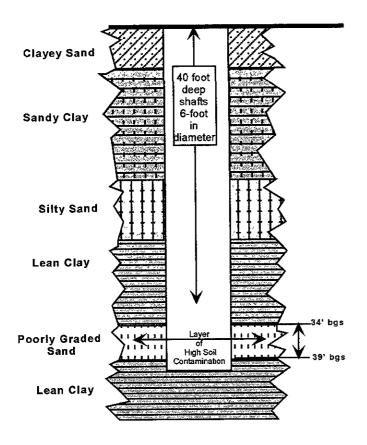
FIGURE 2 Job# H9042

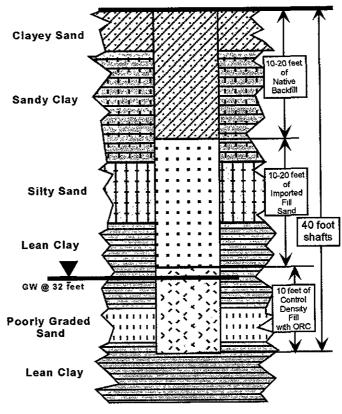
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Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, Ca. 95076
(831) 722 - 3580 (831) 662 - 3100



Large Diameter Auger Shafts Source Removal

Large Diameter Auger Shafts Backfilling Details





H9042\figures\backfill cnv



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Large Diameter Auger Shafts and Backfilling Details

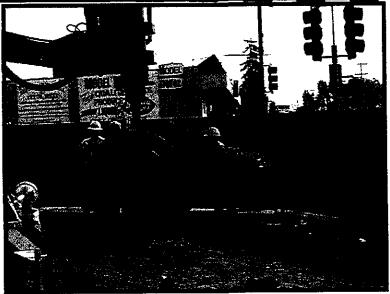
Former Harbert Transportation Facility
19984 Meekland Avenue, Hayward, California

Figure 3 Job # H9042



Large Diameter Auger Excavation Footprint.

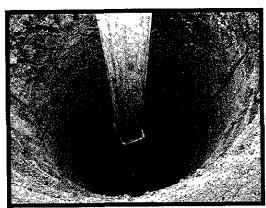
Circles indicate proposed location of large diameter shaft



Note the size of the large diameter auger - 6' diameter by 6' long.

While drilling, the diameter of the shaft is actually about

1 to 1.5 feet wider than the diameter of the auger
due to wobble of the auger, vertical alignment, and lithology.



Looking down into a large diameter shaft. Each shaft was drilled to 40 feet bgs.



Looking down into a large diameter shaft with groundwater at 30 feet bgs.

A trash pump was used for dewatering.



Photo shows dewatering operations from one of the shafts.

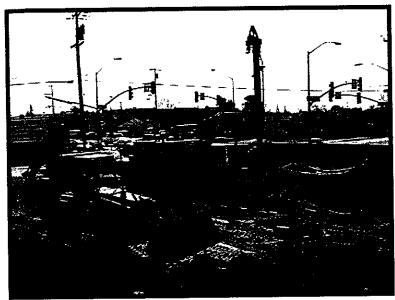
The Baker Tank in the back drop contained the groundwater.

3,000 gallons of groundwater was pumped from the site.

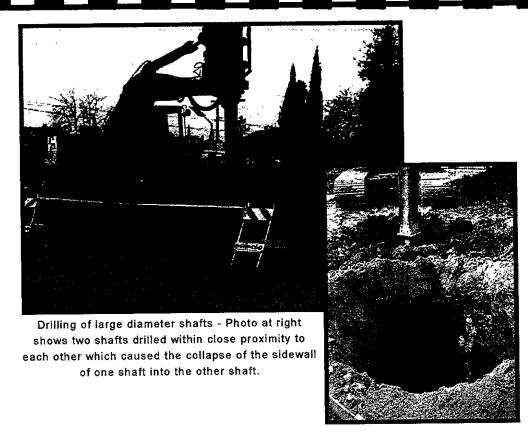
H9042\figures\photo#1.cnv

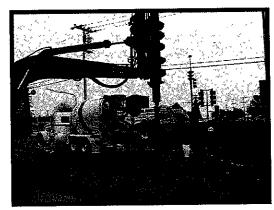


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Looking southwest - photo shows large diameter excavation operations.

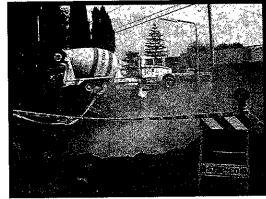




Cement truck on standby waiting for the shaft to be completely drilled. Once drilled, backfilling operations commenced.



Adding Oxygen Release Compound into the saturated zone along with cement slurry - control density fill.



Oxygen Release Compound emanating from shaft, while cement truck waits for next shaft to be completed.

H9042\figures\photo#2.cnv



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Photo Sheet #2

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California

Figure 5 Job # H9042



Large Diameter Auger spinning of soil cuttings while backhoe immediately loads soils into trucks for transport to landfill.



Photo shows WHA Geologist obtaining a confirmation soil grab sample from partially in-situ soils to show contamination has been successfully removed.

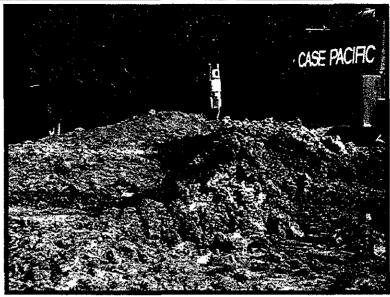


Photo shows the segregation of contaminated soils (foreground) from uncontaminated soils (background)

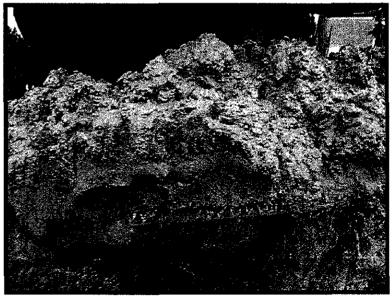


Photo shows a close up of the contact at 40 feet below ground surface of the contaminated soils atop uncontaminated soils

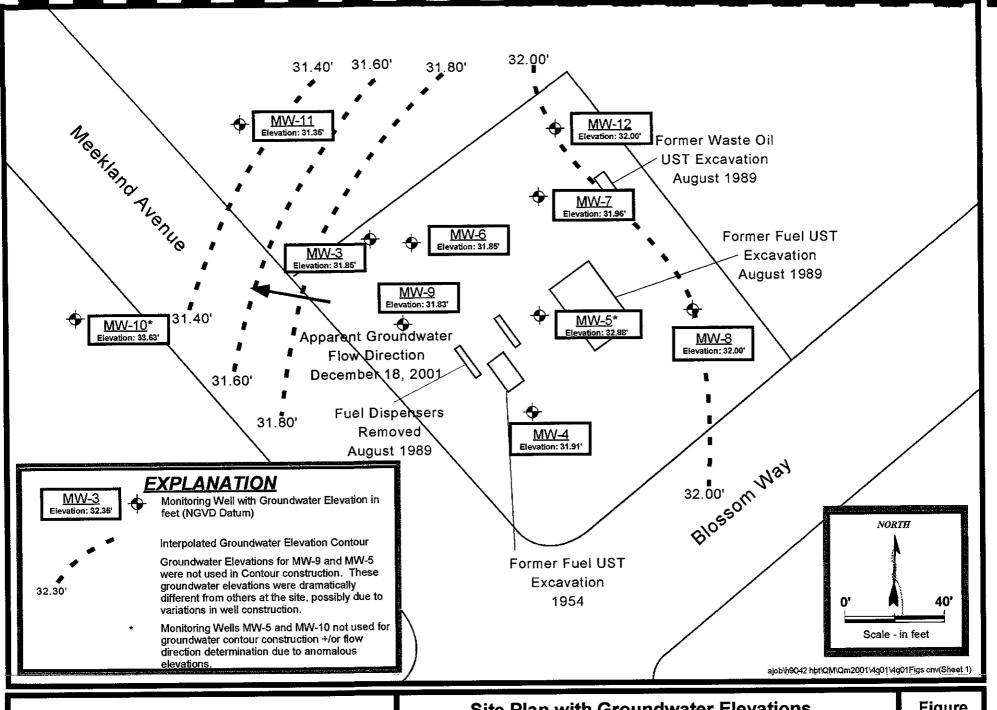
H9042\figures\photo#3.cnv



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Photo Sheet #3

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California Figure 6 Job# H9042





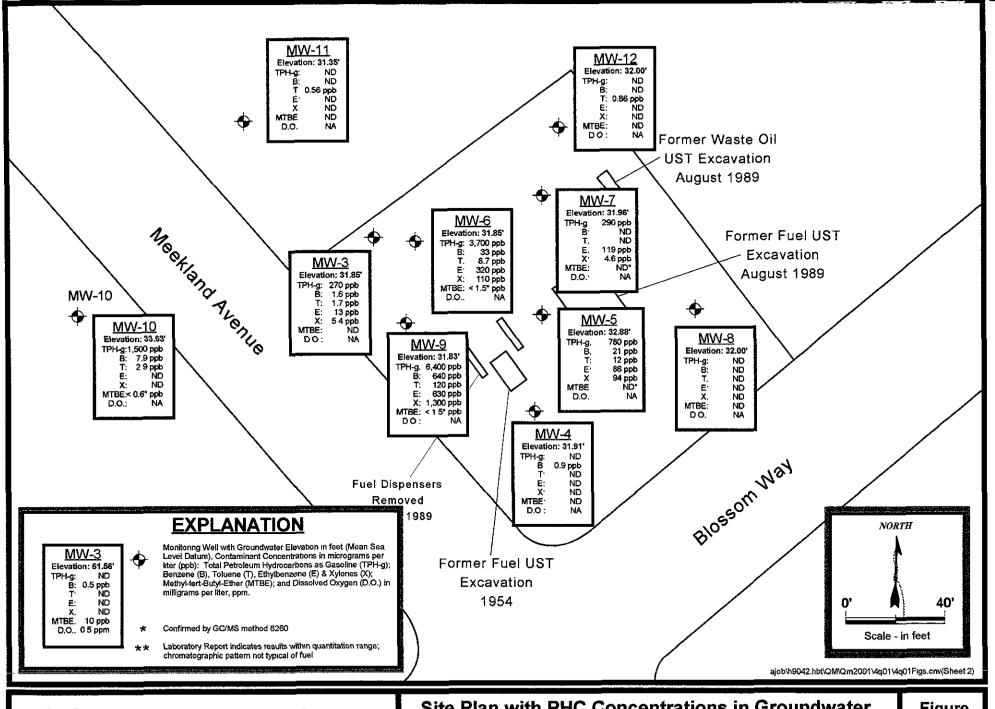
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Site Plan with Groundwater Elevations December 18, 2001

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California

Figure 7 Project H9042





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Site Plan with PHC Concentrations in Groundwater December 18, 2001

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California

Figure 8 Project H9042 Large-Diameter Auger Excavation of Impacted Soil 19984 Meekland Avenue, Hayward, CA February 8,2002

APPENDIX A

Geologic Logs of Landfill Acceptance Borings



Geologic Symbols and Terms

	Major Divisions	Sy	mbols	Descriptions
		GW		Well Graded Gravels, little or no fines
	Gravels (More than 1/2 of	GP		Poorly Graded Gravels, little or no fines
soils	coarse fraction > no. 4 sieve size)	GM		Silty Gravels, gravel-silt mixtures
Coarse Grained Soils		GC		Clayey Gravels, gravel-clay mixtures
e Grai		sw		Well Graded Sand, little to no fines
Coarse	Sands (More than 1/2 of	SP		Poorly Graded Sand
	coarse fraction < no. 4 sieve size)	SM		Silty Sand, sand-silt mixtures
		sc		Clayey Sand, sand-clay mixtures
Sils	Silts and Clays	ML		Silt or Very Fine Sands, rock flour, with slight plasticity
ed Sc	Liquid Limit < 50%	CL		Inorganic Clay with high plasticity, lean clay
Fine Grained Soils	Silts and Clays	МН		Inorganic Sandy Clay or Silt, elastic silts
Fine	Liquid Limit > 50%	СН		Inorganic Sandy Clay or Silt, with high plasticity, fat clays

Symbols and Terms

First encountered groundwater Trace = < 5% Few = 5 - 10%

Stabilized groundwater Little = 15 - 20%

Some = 30 - 45% Sample interval Dominantly = > 50%

- Soil sample sent to laboratory for targeted analysis

Water sample sent to laboratory for targeted analysis

Well Construction Details:



- Filter Pack



- Cement Seal



- Screened Interval

SOIL	SOIL DENSITY/CONSISTENCY										
SANDS & GRAVELS	BLOWS/FT.	SILTS & CLAYS	BLOWS/FT.								
VERY LOOSE	0 - 4	VERY SOFT	0-2								
LOOSE	4 - 10	SOFT	2 - 4								
MED, DENSE	10 - 30	FIRM	4 - 8								
DENSE	30 - 50	STIFF	8 - 16								
VERY DENSE	> 50	VERY STIFF	16 - 32								
		HARD	> 32								

Blow count is the number of blows required to drive a 2-inch diameter California Modified Split-Spoon Sampler the last 12 inches of an 18 inch sample interval by a 140-pound hammer free-falling 30 inches.

ags = above ground surface

bgs = below ground surface

PID = Photo-Ionization Detector

ppmv = parts per million by volume

USCS = Unified Soil Classification System



GEOLOGIC LOG

Driven Probe Boring

JOB NO.: H9042.C DATE: October 18, 2001

CLIENT: Harbert Transportation

LOCATION: 19984 Meekland Avenue, Hayward, California LOGGED BY: A. Bierman SAMPLED BY: A. Bierman

DRILLER: EnProbe (Dennis Ott)

DRILL METHOD: Hydraulic Driven Large Bore and Macro-Core Probes

BORING #

DP-1

Sheet 1 of 2

(Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)	N
CH Former Excavation Footprint: Clayey SAND, very brown (10YR 3/2), damp to dry, medium stiff to stiff, friable, 30% fines 60% fine sands, 10% trace fine ar gravels, low plasticity, no odor, no discoloration.	slightly
SM/SC -Gradational contact	
DP-1a SC SANDY CLAY, brown (10YR 5/3) with dark gray (10' mottling, damp, moderate plasticity, 70% fines, 30% no odor, no discoloration.	(R 3/1) fine sands,
DP-1b OP-1b OP-1b OP-1b OP-1b	s, moist trong odor.
-13 - -14 - -15 - -16 - DP-1c	5Y 4/2).
- 17 - SC-SM -clay fines diminish, gradational contact.	
18 — — — — — — — — — — — — — — — — — — —	ft to very
composite	
DP-1e CL Lean CLAY, olive gray (5Y 4/2), with yellowish brow (10YR 5/4), stiff to very stiff, moderate to low odor.	n mottling
-Groundwater stablizes at 27.55 feet bgs, rising from bgs.	n 32 feet
DP-1f CL -Geologic log continued next page.	



GEOLOGIC LOG

Driven Probe Boring

JOB NO.: H9042.C DATE: October 18, 2001

CLIENT: Harbert Transportation

LOCATION: 19984 Meekland Avenue, Hayward, California

LOGGED BY: A. Bierman SAMPLED BY: A. Bierman

DRILLER: EnProbe (Dennis Ott)

DRILL METHOD: Hydraulic Driven Large Bore and Macro-Core Probes

BORING #

DP-1

Sheet 2 of 2

Depth (feet)	Sampling Interval	Sample Analyzed	Sample Identification & OVA Data (ppmv)	Groundwater Depth	Lithologic Pattern	uscs	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
- 30 - - 31 -	/		DP-1f			CL.	Lean CLAY, olive gray (5Y 4/2) with yellowish brown mottling (10YR 5/4), damp, stiff to very stiff, moderate to low odor.
32 -	4						-Color changes to yellowish brown (10YR 5/4), with olive gray mottling (5Y 4/2), very stiff, low to no odor.
34 -	$\ \ $			•		CL-SM	-Gradational contact. First encountered groundwater at 35' bgs, rising to 27.5 feet bgs.
35 — 36 — 37 — 38 —			DP-1g			SM	SILTY SAND to Poorly Graded SAND, greenish gray (5GY 5/1), wet, soft, 70% fine sands, 30% silts, moderate odor, coarsening downward to 90% medium to fine sands, 5% fines, moderate odor.
 - 39 -						SM	-Abrupt contact.
40			DP-1h		> =====	CL	Lean CLAY, brown (10YR 4/3), dry, stiff to very stiff, no odor, no discoloration.
	•						-Boring terminated at 40 feet bas

-Boring terminated at 40 feet bgs.

⁻Seal boring with portland cement to groundsurface.



GEOLOGIC LOG

Driven Probe Angle Boring JOB NO.: H9042.C DATE: October 18, 2001

CLIENT: Harbert Transportation

LOCATION: 19984 Meekland Avenue, Hayward, California

LOGGED BY: A. Bierman SAMPLED BY: A. Bierman

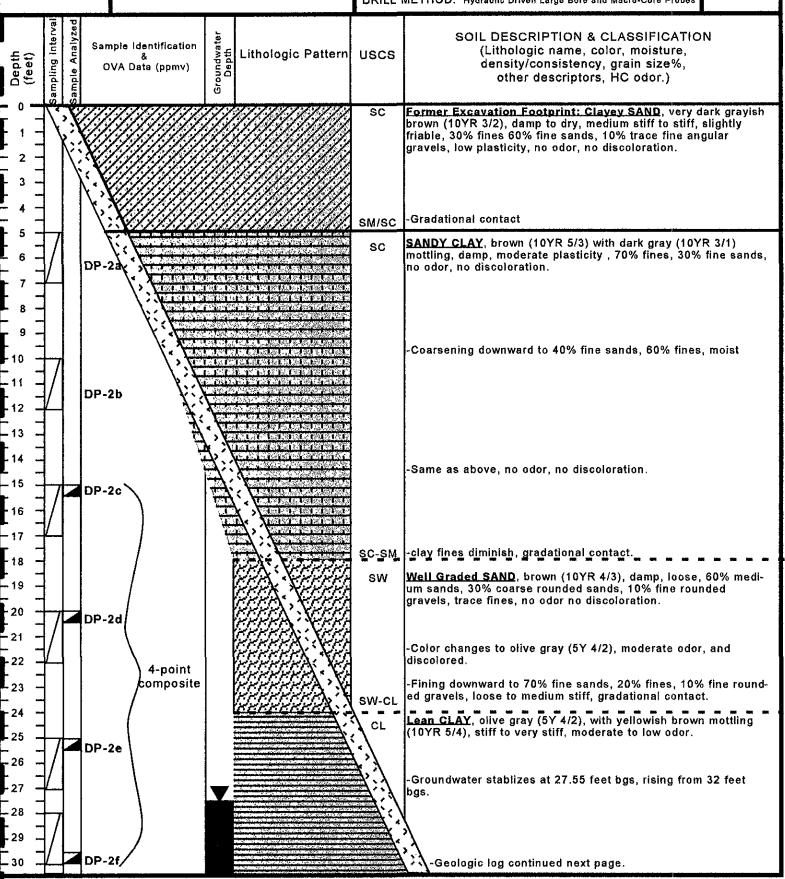
DRILLER: EnProbe (Dennis Ott)

DRILL METHOD: Hydraulic Driven Large Bore and Macro-Core Probes

BORING #

DP-2

Sheet 1 of 2





60

GEOLOGIC LOG

Driven Probe Angle Boring JOB NO.: H9042.C

DATE: October 18, 2001

CLIENT: Harbert Transportation

LOCATION: 19984 Meekland Avenue, Hayward, California

LOGGED BY: A. Bierman SAMPLED BY: A. Bierman

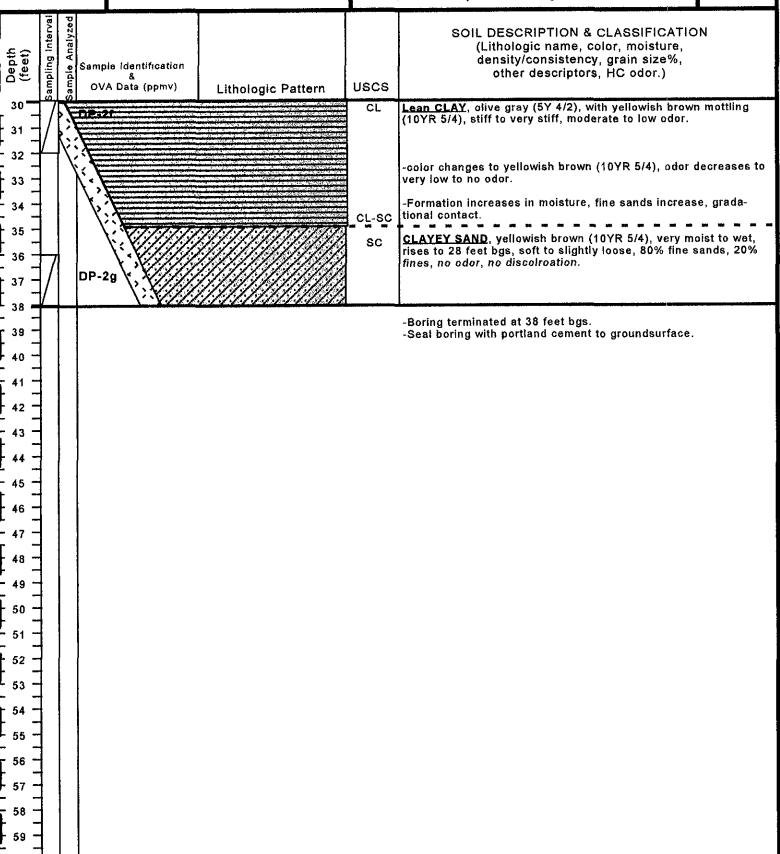
DRILLER: EnProbe (Dennis Ott)

DRILL METHOD: Hydraulic Driven Large Bore and Macro-Core Probes

BORING #

DP-2

Sheet 1 of 2



Large-Diameter Auger Excavation of Impacted Soil 19984 Meekland Avenue, Hayward, CA February 8,2002

APPENDIX B

Certified Analytical Reports from Excavation

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

October 26, 2001

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 27319

Project Name: Harbert Transportation

Project Number: H9042.C

Date Collected: 10/18/01

Date Received: 10/18/01

P.O. Number: H9042.C

Project Notes:

On October 18, 2001, samples were received under documentented chain of custody. Results for the following analyses are attached:

MatrixTestMethodSolidCompositeComposite

Gas/BTEX/MTBE EPA 8015 MOD. (Purgeable)

EPA 8020 Lead EPA 6010B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 10/26/01 Date Received: 10/18/01

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C Sampled By: Client

Certified Analytical Report

Order ID: 27319		Lab Sa	mple II): 2731	9-005		Client Sam	ple ID: DP	-1(c-f) COMP	•
Sample Time:		Sam	ple Dat	e: 10/1	8/01]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	10/23/01	SGC22201B	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	10/23/01	SGC22201B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	10/23/01	SGC22201B	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	10/23/01	SGC22201B	BPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		106	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0 05	0.05	mg/Kg	N/A	10/23/01	SGC22201B	EPA 8020
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	10/23/01	SGC22201B	EPA 8015 MOD. (Purgeable)
				aaa	Surrog -Trifluore		Surr	ogate Recovery 104		rol Limits (%) 5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 10/26/01

Date Received: 10/18/01

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 27319		Lab Sa	mple I	D: 2731	9-010		Client Sam	ple ID: DP-	2(c-f) COMP		
Sample Time:		Sam	ple Dat	te: 10/18	3/01		Matrix: Solid				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	ND		200	0.0005	0.1	mg/Kg	N/A	10/19/01	SGC42199B	EPA 8020	
Toluene	0.13		200	0.0005	0.1	mg/Kg	N/A	10/19/01	SGC42199B	EPA 8020	
Ethyl Benzene	0.37		200	0.0005	0.1	mg/Kg	N/A	10/19/01	SGC42199B	EPA 8020	
Xylenes, Total	1.2		200	0.001	0.2	mg/K.g	N/A	10/19/01	SGC42199B	EPA 8020	
					Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)	
				aaa	-Trifluoro	otoluene		93	6:	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		200	0.005	1	mg/Kg	N/A	10/19/01	SGC42199B	EPA 8020	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	130		200	0.050	10	mg/Kg	N/A	10/19/01	SGC42199B	EPA 8015 MOI (Purgeable)	
					Surroga	ate	Surre	gate Recovery	Contr	ol Limits (%)	
				aaa	-Trifluoro	toluene		83	65	- 135	

Comment:

Sample required methanol extraction due to high concentrations of target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 10/26/01

Date Received: 10/18/01

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 273	Lab Sample ID: 27319-005				Client	\ \ \			
Sample Time:	Sample Date: 10/18/01								
Parameter Lead	Result 8.6	DF 5	PQL 1	DLR 5	Units mg/Kg	PrepDate 10/19/01	Analysis Date 10/25/01	QC Batch ID SM8106	Method EPA 6010B
Order ID: 273	Lab Sample ID: 27319-010				Client				
Sample Time:	Sample Date: 10/18/01				Matrix: Solid				
Parameter Lead	Result 13	DF 5	PQL 1	DLR 5	Units mg/Kg	PrepDate 10/19/01	Analysis Date 10/25/01	QC Batch ID SM8106	Method EPA 6010B

DF = Dilution Factor

ND = Not Detected

 $DLR = Detection\ Limit\ Reported$

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Quality Control Results Summary

QC Batch #:

SM8106

Matrix: Solid

Units:

mg/Kg

Date Analyzed:

10/22/01

arameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Lead	EPA 6010B	ND		50		41.83	LCS	83.7			75.0 - 111.0
ead	EPA 6010B	ND		50		42.78	LCSD	85.6	2.25	30.00	75.0 - 111.0
ead	EPA 6010B	ND	27316-001	50	8.9	46.3	MS	74.8			53.0 - 136 6
Lead	EPA 6010B	ND	27316-001	50	8.9	53.5	MSD	89.2	14.43	30.00	53.0 - 136 6

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Quality Control Results Summary

QC Batch #:

SGC22201B

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

10/23/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH as Gasoline										
TPH as Gas	Gasoline EPA 8015 M ND			0.561		0.484	LCS	86.3			65.0 - 135.0
	Surrogate	Surrogate Recovery		Control Limits (%)							
	aaa-Trifluorotol	uene		104		65 -	135				
Test:	BTEX								-		
Benzene	EPA 8020	ND		0.0062		0.007	LCS	112.9			55.0 - 153.0
Ethyl Benze	ene EPA 8020	ND		0.0078		0.007	LCS	89.7			58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.034	LCS	95.0			56.1 - 127.0
Xylenes, tot	tal EPA 8020	ND		0.043		0.039	LCS	90.7			64.9 - 105.0
	Surrogate	Surrog	ate Recover	ry	Control 1	Limits (%)					
	aaa-Trifluorotolu	iene		101		65 -	135				
Test: Methyl-t-bu	MTBE by EPA 802	0 ND		0.062		0.061	LCS	98.4			45.0 - 119.0
	Surrogate Surrogate		Surron	Surrogate Recovery		Control Limits (%)					
	aaa-Trifluorotoli	iene	Sittog	101		65 -					
Test:	TPH as Gasoline										,
TPH as Gas		M ND		0.561		0.481	LCSD	85.7	0.62	30.00	65.0 - 135.0
	Surrogate	Surrog	ate Recover	r y	Control I	Limits (%)					
	aaa-Trifluorotoluene		105		65 - 135						
Test:	BTEX										
Benzene	EPA 8020	ND		0.0062		0.007	LCSD	112.9	0.00	30.00	55.0 - 153 0
Ethyl Benze	ene EPA 8020	ND		0.0078		0.007	LCSD	89.7	0.00	30.00	58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.033	LCSD	92.2	2.99	30.00	56.1 - 127.0
Xylenes, tota	al EPA 8020	ND		0.043		0.038	LCSD	88.4	2.60	30.00	64.9 - 105.0
	Surrogate		Surrogate Recovery		Control Limits (%)						
	aaa-Trifluorotoluene			105		65 -	135				
Test:	MTBE by EPA 802	0									
Methyl-t-bu		ND		0.062		0.059	LCSD	95.2	3.33	30.00	45.0 - 119.0
	Surrogate		Surrogate Recovery		у	Control Limits (%)					
	aaa-Trifluorotolu	iene		105		65 -	135				

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Date: 10/26/01

Certified Analytical Report

		Lab Sam	ple ID: M	ethod	lΒ	lank	}	Matrix	k: Solid		
Test TPH as G	asoline	Parameter TPH as Gasoline		esuit ND	DF	PQL 1	DLR 1	Units mg/Kg	Analysis Date 10/23/01	QC Batch ID SGC22201B	Method EPA 8015 MOD (Purgeable)
	Surrogate		Surrogate Reco	very		Control L	imits (%)			, ,
	aaa-Trifluoro	toluene	110	•		65 -	135				
BTEX		Benzene]	ND OF	1	0.005	0.005	mg/Kg	10/23/01	SGC22201B	EPA 8020
		Ethyl Benzene	í	4D	1	0.005	0.005	mg/Kg	10/23/01	SGC22201B	EPA 8020
		Toluene	1	ND CIV	1	0.005	0.005	mg/Kg	10/23/01	SGC22201B	EPA 8020
		Xylenes, Total	3	ďD	1	0.005	0.005	mg/Kg	10/23/01	SGC22201B	EPA 8020
	Surrogate		Surrogate Reco	very		Control L	imits (%)			
	aaa-Trifluoro	toluene	106			65 -	135				
MTBE by	EPA 8020	Methyl-t-butyl Et	her 1	4D	1	0.05	0.05	mg/Kg	10/23/01	SGC22201B	EPA 8020
	Surrogate		Surrogate Reco	very		Control L	imits (%))			
	aaa-Trifluoro	toluene	106			65 -	135				

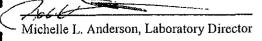
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



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Quality Control Results Summary

QC Batch #:

SGC42199B

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

10/19/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH	as Gasoline										
TPH as Gasoline	EPA 8015 I	M ND		0.561		0.512	LCS	91.3			65.0 - 135.0
	Surrogate		Surrog	ate Recover	y	Control I	Limits (%)				
	aaa-Trifluorotolt	uene		100		65 -	135				
Test: BTE	ζ.				<u>-</u> -						
Benzene	EPA 8020	ND		0.0062		0.006	LCS	96.8			55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.0078		0.007	LCS	89.7			58.4 - 116.0
Toluene	EPA 8020	ND	,	0.0358		0.031	LCS	86.6			56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043		0.034	LCS	79.1			64.9 - 105.0
	Surrogate		Surrog	ate Recover	y	Control I	Limits (%)				
	aaa-Trifluorotoli	iene		104		65 -	135				
Test: MTB	E by EPA 802	0	· · · · · · · · · · · · · · · · · · ·								
Methyl-t-butyl Eth	-	ND		0.062		0.05	LCS	80.6			45.0 - 119.0
	Surrogate		Surrog	ate Recover	y	Control I	Limits (%)				
	aaa-Trifluorotoli	iene		104		65 -	135				
Test: TPH	as Gasoline	<u>-</u>		· · · · · · · · · · · · · · · · · · ·							
TPH as Gasoline	EPA 8015 N	M ND		0.561		0.518	LCSD	92.3	1.17	30.00	65.0 - 135.0
	Surrogate		Surreg	nte Recover	y	Control I	Limits (%)				
	aaa-Trifluorotolu	iene		99		65 -	135				
Test: BTE	ζ										
Benzene	EPA 8020	ND		0.0062		0.006	LCSD	96.8	0.00	30.00	55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.0078		0.007	LCSD	89.7	0.00	30.00	58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.031	LCSD	86.6	0.00	30.00	56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043		0.034	LCSD	79.1	0.00	30.00	64.9 - 105 0
	Surrogate		Surrog	nte Recover	y	Control I	Limits (%)				
<u></u>	aaa-Trifluorotolt	iene		105		65 -	135				
Test: MTB	E by EPA 802	0		<u></u>			*	*	********		
Methyl-t-butyl Ethe		ND		0.062		0.051	LCSD	82.3	1.98	30.00	45.0 - 119.0
	Surrogate		Surrog	ate Recover	y	Control I	lmits (%)				
	aaa-Trifluorotolu	iene	_	105		65 -	135				

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Date: 10/26/01

Certified Analytical Report

	Lab Sam	ple ID: Meth	od E	Blank		Matrix	x: Solid		
Test TPH as Gasoline	Parameter TPH as Gasoline	Result ND	DF 1	PQL 1	DLR 1	Units mg/Kg	Analysis Date 10/19/01	QC Batch ID SGC42199B	Method EPA 8015 MOD (Purgeable)
Surrogate	:	Surrogate Recovery		Control I	imits (%)			` • • •
aaa-Trifluc		105		65 -	135	•			
BTEX	Benzene	ND	1	0.005	0.005	mg/Kg	10/19/01	SGC42199B	EPA 8020
	Ethyl Benzene	ND	1	0.005	0.005	mg/Kg	10/19/01	SGC42199B	EPA 8020
	Toluene	ND	1	0.005	0 005	mg/Kg	10/19/01	SGC42199B	EPA 8020
	Xylenes, Total	ND	1	0.005	0.005	mg/Kg	10/19/01	SGC42199B	EPA 8020
Surrogate		Surrogate Recovery		Control L	imits (%)			
aaa-Triffuc	protoluene	102		65 -	135				
MTBE by EPA 8020	Methyl-t-butyl Eth	ner ND	1	0.05	0.05	mg/Kg	10/19/01	SGC42199B	EPA 8020
Surrogate		Surrogate Recovery		Control I	imits (%)			
aaa-Trifluo	rotoluene	102		65 -	135				

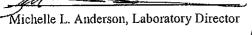
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)





Weber, Hayes & Associates

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PAGE / OF /

Sample	Sample	Date	SAN	IPLE CO	NTAINE	RS	Total Pen	oleum Hydi		QUESTED		ditional Anah	ysis	
(sampler)	Depth (ft, bqs)	Sampled	40 mL VOAs (preserved)	1 Liter Amber Jars	Poly Bottle	Liner Acetate or Brass	Euraciable Fuel-Scan	Purgeable Fuel-Scan	Gasoline & BTEX-MTBE by EPA Method# 8015M-8-8020	MITBE by Dy.EPA Method#8260	TAC	Lead STLC		
DP-1c	15'	10/13/01				×			\ /	M-111	\ /		A	
DP-1d	Z0'	u		25		×					1/			
DP-le	25'	•		- حر		×					X			
DP-1F	39,	•	/			*				##				
DP-2c	15'	19.3/0				×					7			
DP-29	20'	•		010		*			/					
DP - Ze	- 25'					×			X		X			
DP-2F	30.	•				Ж								
						<u> </u>				<u> </u>				
RECEIVED	BY:	Date 8	& Time		/	RELE	ASED BY:		Date/&	Time	SA	MPLE CONDITIO	N:	
ampler form Br	Clum	(elegloi)	2) 1:00pm		Har.	. Brc.			1-0/13/51	@ 1:31pm	Ambient	Refrigerated	Frozen	
4	32/_	[ने कि	11325				- i		- <i>' '</i>		Ambient <	Refrigerated	Frozen	
()//	11	<u>-</u>	<u>-</u>		 -				<u></u>	_	Ambient	Refrigerated	Frozen	
\sim		<u>-</u>			 -				-		Ambient	Refrigerated	Frozen	
		-									Ambient	Refrigerated	Frozen	
		-						**	-	_	Wineir	rengested	FIUZEII	
OTES:						ADD	ITIONAL COMI	<u>MENTS</u>						

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January 09, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28428

Date Collected: 01/07/02

Project Name: Harbert Transportation

Date Received: 01/07/02

Project Number: H9042.C

P.O. Number: H9042.C

Project Notes:

On January 07, 2002, sample was received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

Test

Method

Liquid

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020 EPA 8260B

MTBE by EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 1/9/02

Date Received: 1/7/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 28428		Lab Sa	mple ID	: 2842	8-001		Client Sam	ple ID: PIT	Water#1	
Sample Time:		Sam	ple Date	: 1/7/0)2]	Matrix: Liq	aid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	450		50	0.5	25	μg/I	N/A	1/8/02	WGC42278B	EPA 8020
Toluene	320		50	0.5	25	μg/L	N/A	1/8/02	WGC42278B	EPA 8020
Ethyl Benzene	1500		50	0.5	25	μg/L	N/A	1/8/02	WGC42278B	EPA 8020
Xylenes, Total	3800		50	0.5	25	μ g/L	N/A	1/8/02	WGC42278B	EPA 8020
					Surroga	ate	Surr	ogate Recovery	Conti	ol Limits (%)
				aa	a-Trifluo10	toluene		98.37	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	1/8/02	WM831356	EPA 8260B
					Surrogs	ite	Surr	ogate Recovery	Conti	ol Limits (%)
				4-B	romofluoro			110	65	5 - 135
				Dib	romofluoro	methane		103	51	7 - 156
•					Toluene-	-d8		104	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	22000		50	50	2500	μg/L	N/A	1/8/02	WGC42278B	EPA 8015 MOD (Purgeable)
					Surroga	ıte	Surr	ogate Recovery	Contr	ol Limits (%)
				aas	a-Trifluoro	toluene		88	65	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Quality Control Results Summary

QC Batch #:

WGC42278B

Matrix: Liquid

Units:

μg/L

Date Analyzed:

01/08/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH	as Gasoline					<u> </u>					
TPH as Gasoline	EPA 8015 M	ND		561		479.8	LCS	85.5			59.2 - 111.9
	Surrogate		Surrog	ate Recover	у	Control I	Limits (%)				
	aaa-Trifluorotoli	uene		102		65 -	135				
Test: BTE	X		· · · · · · · · · · · · · · · · · · ·					· ········			
Benzene	EPA 8020	ND		6.2		6.59	LCS	106.3			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		6.93	LCS	88.8			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		32.2	LCS	89.9			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		37.4	LCS	87.0			65.0 - 135.0
[Surrogate		Surrog	ate Recover	y	Control I	Limits (%)				
	aaa-Trifluorotolu	iene		107		65 -	135				
Test: TPH	as Gasoline										
TPH as Gasoline	EPA 8015 M	ND		561		488.8	LCSD	87.1	1.86	25.00	59.2 - 111.9
	Surrogate	···	Surroga	ate Recover	у	Control I	imits (%)				
	aaa-Trifluorotolu	iene		100		65 -	135				
rest: BTE	X										
Benzene	EPA 8020	ND		6.2		6.47	LCSD	104.4	1.84	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.26	LCSD	93.1	4.65	25 00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		33 4	LCSD	93.3	3.66	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		39.1	LCSD	90.9	4.44	25.00	65.0 - 135.0
[Surrogate		Surroga	ate Recover	у	Control I	imits (%)				
	aaa-Trifluorotolt	iene		104		65 -	135				

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Quality Control Results Summary

QC Batch #:

WMS31356

Matrix:

Liquid

Units:

μg/L

Date Analyzed:

01/08/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 82	60B	,	 								
1,1-Dichloroethene	EPA 8260B	ND		20		14.8	LCS	74.0			65.0 - 135.0
Benzene	EPA 8260B	ND		20		17.5	LCS	87.5			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		17.4	LCS	87.0			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		18	LCS	90.0			56.0 - 135.0
Toluene	EPA 8260B	ND		20		16.5	LCS	82.5			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		18.1	LCS	90.5	_		65.0 - 135.0
S	urrogate	•	Surrog	ate Recove	ry	Control l	Limits (%)				
4-	Bromofluorobe	nzene		102		65 -	135				
D	ibromofluorom	ethane		101		57 -	139				
T	oluene-d8			100	. .	65 -	135				
Test: EPA 82	60B										
1,1-Dichloroethene	EPA 8260B	ND		20		17.1	LCSD	85.5	14.42	25.00	65.0 - 135.0
Benzene	EPA 8260B	ND		20		19.1	LCSD	95.5	8.74	25.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		18.9	LCSD	94.5	8.26	25.00	65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		19.3	LCSD	96.5	6.97	25.00	56.0 - 135.0
Toluene	EPA 8260B	ND		20		18.1	LCSD	90.5	9.25	25.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		19.7	LCSD	98.5	8.47	25.00	65.0 - 135.0
Si	ırrogate		Surrog	nte Recover	·y	Control I	Jimits (%)				
4-	Bromofluorobe	nzene		103		65 -	135				
D	ibromofluorom	ethane		102		57 -	139				
To	oluene-d8			103		65 -	135				1



Weber, Hayes & Associates

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Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159

PAGE 1 OF 1

SEND CERTIFIED F	ESULTS TO:	Aaron Bi	erman					•	TURNAR	DUND TIME:	Normai	24hr Rush	48hr Rush	72hr Rus
			SAM	PLE CO	NTAINE	₹S		<u></u>	REC	QUESTED	ANALYSIS	3		-
Sample	Sample	Date				-	Total Pe	troleum Hydro	ocarbons	75 T.	Ad	ditional Ana	lysis	14
Identification	Depth	Sampled	40 mL VOAs (preserved)	1 Liter Amber Jars	Poly Bottle	Liner Acetate or Brass	Extractable Fuel-Scan	Purgeable Exel-Scan	Gasoline & STEX-MTBE by EPA Methoda 8015M-& 8020	MTBE by by EPA Method# 8266	Load TEEC	Lead		
IT WATER#1	301	1702	×۶						X			87 ST 13 1-49	2842	8-00
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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

January 10, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28440

Project Name: Harbert Transportation

Date Collected: 1/8/02

Date Received: 1/8/02

Project Number: H9042.C

P.O. Number: H9042.C

Project Notes: Report amended 1/10/02 to correct sample results and include correct dilution factor. Please

disregard any previously submitted reports for work order 28440.

On January 08, 2002, sample was received under documentented chain of custody. Results for the following analyses are attached:

MatrixTestMethodLiquidGas/BTEX/MTBEEPA 8015 MOD. (Purgeable)

EPA 8020 MTBE by EPA 8260B EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson

Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076 Attn: Aaron Bierman Date: 1/10/02 Date Received: 1/8/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 2844	0	Lab Sa	ımple ID:	2844	0-001		Client Sam	ple ID: PIT	Water #2	
Sample Time:		Sam	ple Date:	1/8/0)2		I	Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	320		50	0.5	25	μ g /L	N/A	1/9/02	WGC42281	EPA 8020
Toluene	140		50	0.5	25	μg/L	N/A	1/9/02	WGC42281	EPA 8020
Ethyl Benzene	1300		50	0.5	25	μg/L	N/A	1/9/02	WGC42281	EPA 8020
Xylenes, Total	2900		50	0.5	25	μg/L	N/A	1/9/02	WGC42281	EPA 8020
					Surroga	ite	Surr	ngate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		104	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Anaiysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		50	0.3	15	μg/L	N/A	1/9/02	WMS31356	EPA 8260B
••••••••••••••••••••••••••••••••••••••					Surroga		Surro	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluore			105	65	5 - 135
				Dib	romofluoro	methane		99	57	7 - 156
					Toluene-	d8		108	65	5 - 135
Comment: Sample	e diluted due to h	igh conce	ntrations of	ion-targ	et hydrocai	rbons (gas	oline).			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	18000		50	50	2500	μg/L	N/A	1/9/02	WGC42281	EPA 8015 MOD (Purgeable)
					Surroga	te	Surro	gate Recovery	Contr	ol Limits (%)
				aas	a-Trifluoro	toluene		99	65	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #:

WGC42281

Matrix:

Liquid

Units:

μg/L

Date Analyzed:

01/09/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
2 25 44	H as Gasoline										
TPH as Gasoline	EPA 8015 M	ND		561		493.3	LCS	87.9			59.2 - 111.9
	Surrogate		Surrog	ate Recover	r y		Limits (%)				
	aaa-Trifluo10tol	uene		99		65 -	135	· · · · · · · · · · · · · · · · · · ·			
Test: BT	EX										
Benzene	EPA 8020	ND		6.2		7.19	LCS	116.0			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.45	LCS	95.5			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		33.7	LCS	94.1			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		39.6	LCS	92.1			65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
	aaa-Trifluorotol	lene		107		65 -	135				
Test: M7	BE by EPA 802	0									
Methyl-t-butyl E	•	ND		52 8		55.7	LCS	105.5			65 0 - 135.0
	Surrogate		Surrog	ate Recover	г у	Control l	Limits (%)				
{	asa-Trifluorotole	iene	,	107		65 -	135				
Test: TPI	I as Gasoline										
TPH as Gasoline	EPA 8015 M	ND		561		467.9	LCSD	83.4	5.29	25.00	59.2 - 111.9
	Surrogate		Surrog	ate Recover	.у	Control I	imits (%)				
	aaa-Trifluorotolu	iene		101		65 -	135				
Test: BT	EX										
Benzene	EPA 8020	ND		6.2		6.44	LCSD	103.9	11.01	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.03	LCSD	90.1	5.80	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		32.5	LCSD	90.8	3.63	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		37.9	LCSD	88.1	4.39	25.00	65.0 - 135.0
	Surrogate		Surrog	ate Recover	у	Control I	imits (%)				
	aaa-Trifluorotolt	iene		107		65 -	135				
Test: MT	BE by EPA 802	0									
Methyl-t-butyl E		ND		52.8		47.7	LCSD	90,3	15.47	25.00	65.0 - 135.0
	Surrogate		Surrog	ate Recover	у	Control I	imits (%)				
}	aaa-Trifluorotolu	iene	J	107	-	65 -					



Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax (831) 722-1159

PAGE 1 OF 1

SEND CERTIFIED F	ESULTS TO:	Aaron Bi	erman						TURNAR	OUND TIME:	Normal /	24br Rush	48hr Rush	72hr Ru
	T					w -	<u> </u>	·		QUESTED			y Tork Fadan	72111 103
			SAM	PLE CO	NTAINEF	RS	Total Pe	roleum Hydr				ditional Ana	lue io	
Sample Identification	Sample Depth	Date Sampled	40 mL	1 Liter	mL	Liner	Extraciable	Purgeable	Gasoline & BTEX-MTBL	MIRE by	Lead			
			VOAs (preserved)	Amber Jars	Poly Bottle	Acetate or Brass	Fuel-Scan	Euel Scan	by EPA Methodif 8015M-8-8020	by EPA Method#8260	FILE	SILC		
IT WATER #2	30'	1/2/02	X5						X				2844	0-00
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OTES:														

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January 10, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28441 Date Collected: 01/08/02
Project Name: Harbert Transportation Date Received: 01/08/02
Project Number: H9042.C P.O. Number: H9042.C

Project Notes:

On January 08, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

 Matrix
 Test
 Method

 Solid
 Composite
 Composite

 Gas/BTEX/MTBE
 EPA 8015 MOD. (Purgeable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/10/02

Date Received: 01/08/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 28441		Lab Sa	ımple I	D: 2844	1-005		Client Sam	ple ID: Soil	Reuse #1A,b	,c,d(Comp.)
Sample Time:		Sam	ple Dat	te: 01/08	8/02		1	Matrix: Soli	d	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC42282	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC42282	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/K.g	N/A	01/10/02	SGC42282	EPA 8020
Xylenes, Total	ND		ŧ	0.005	0.005	mg/Kg	N/A	01/10/02	SGC42282	EPA 8020
,					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluor	otoluene		111	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/10/02	SGC42282	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluor	otoluene		111	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/10/02	SGC42282	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	ogate Recovery	Contr	ol Limits (%)
				aaı	a-Trifluoro	otoluene		114	65	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #:

SGC42282

Matrix: Solid

Units:

mg/Kg

Date Analyzed:

1/9/02

Paramet	er	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:		as Gasoline						1.00	00.7			650 404
TPH as C	iasoline	EPA 8015	ND		0.561		0.503	LCS	89.7			65.0 - 135.0
		Surrogate		Surrog	ate Recove	ry		Limits (%)				
		aaa-Trifluorotoh	iene		99		65 -	135				
Test:	ВТЕХ	ζ										
Benzene		EPA 8020	ИD		0.0062		0.007	LCS	1129			55.0 - 153.0
Ethyl Ber	izene	EPA 8020	ND		0 0078		0.008	LCS	102.6			584-1160
Toluene		EPA 8020	ND		0 0358		0.035	LCS	97 8			56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0 041	LCS	95.3			64.9 - 105.0
		Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
		aaa-Trifluorotoli	uene		106		65 -	135				
Test:	TPH:	as Gasoline										
TPH as C	asoline	EPA 8015	ND		0.561		0.486	LCSD	86.6	3.44	30.00	65.0 - 135.0
ł		Surrogate		Surrog	ate Recove	ry	Control I	Limits (%)				
		aaa-Trifluorotol	nene		99		65 -	135	·········			
Test:	BTEX	ζ										
Benzene		EPA 8020	ND		0 0062		0.007	LCSD	112.9	0.00	30 00	55.0 - 153.0
Ethyl Be	nzene	EPA 8020	ND		0.0078		0.007	LCSD	89.7	13.33	30.00	58.4 - 116.0
Toluene	•	EPA 8020	ИD		0.0358		0.033	LCSD	92.2	5.88	30.00	56 1 - 127.0
Xylenes,	total	EPA 8020	ND		0,043		0.039	LCSD	90.7	5.00	30.00	64.9 - 105.0
		Surrogate		Surrog	ate Recove	ry	Control I	Limits (%)				7
		aaa-Trifluorotoli	uene		106	•	65 -	135				



Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159

PAGE / OF /

PROJECT NAM SEND CERTIFIED						*:-		-		BORATORY: OUND TIME:			8hr Rush	72hr Rush
								•		QUESTED			HOTE (NOSI)	7211 (USI)
			SAM	PLE CO	NTAINEF	S	* *********	erasi manan		MOESIED			and the company	Color
Sample	Sample	Date	40 mL	1 Liter	mĹ	Liner	total Pe	troleum Hydr	Provincessor Services	agen kilder i 1950 Taken kilder i 1950	in the state of th	ditional Ana 1	lysis .	
Identification	Depth	Sampled	VOAs (preserved)	Amber Jars	Poly Bottle	Acetate or Brass	Extractable Firel-Scan	Purgeable Fuel Scan	Gasoline & BTEX.MITE. by EPA Methods 8015M-8-8020	MITBE by by EPA Method# 9260	Lend FFEC	Lead STLG		
Sou Reusa-#14	Surface	1/2/02	2844	1-001		اع		2 1-X-5- V 11 V	Ŋ	**************************************	and regardering	\$ 207_\$\$\$ \$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Section Section Section 1	Section for related Lines
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ease confirm all MTBE detec	tions by EPA Meti	rod 8260 with a m	imimum detection	limit o f 5	ug/L_				Soil Peu	se#lA.	b, c, d	" 1 35 4-i	DINT COM	MOSITE.
r MTBE-analyzed samples v nium by EPA Method #8260	vith non-detectable	resuits (ND) but	having elevated de	etection limits	, please				c. 70 WH					
ase use MDL (Minimum De		me dilutari mamata				3 LEHS	e take co	py of co.	C. 10 MM	a unice	UFURI F-E	(F) OF	vrwe5	ع ما ما ما

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

January 21, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28449

Date Collected: 1/9/02

Project Name: Harbert Transportation

Date Received: 1/9/02

Project Number: H9042.C

P.O. Number: H9042.C

Project Notes: Report re-issued to correct client ID to Soil Reuse 2a-2d.

On January 09, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix

Test

Method

Solid

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson

Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 1/21/02 Date Received: 1/9/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28449		Lab Sa	ımple I	D: 2844	9-005		Client Sam	i ple ID: Soil	l Reuse-2a-2d	
Sample Time:		Sam	ple Dat	t e: 1/9/0	2]	Matrix: Soli	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC42282	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC42282	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC42282	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC42282	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cent	rol Limits (%)
				aa	a-Trifluor	otoluene		110	6	5 - 135
Parameter	Result	Flag	ÐF	PQL	DLR	Units	Extraction Date	Anaiysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	1/10/02	SGC42282	EPA 8020
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		I	1	1	mg/Kg	N/A	1/10/02	SGC42282	EPA 8015 MOD. (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Contr	rol Limits (%)
				aa	a-Trifluor	otoluene		112	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

 $\mathbf{DLR} = \mathbf{Detection} \ \mathbf{Limit} \ \mathbf{Reported}$

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #:

SGC42282

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

01/09/02

Paramet	er	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	ТРН	as Gasoline										
TPH as C	Gasoline	EPA 8015 M	ND		0.561		0.503	LCS	89.7			65.0 - 135.0
		Surrogate		Surrog	ate Recover	У	Control 1	Limits (%)				
		aaa-Trifluorotoli	uene		99		65 -	135				
Test:	BTE	X										
Benzene		EPA 8020	ND		0.0062		0.007	LCS	112.9			55.0 - 153.0
Ethyl Be	nzene	EPA 8020	ND		0.0078		0.008	LCS	102.6			58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.035	LCS	97.8			56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.041	LCS	95.3			64.9 - 105.0
		Surrogate		Surrog	ate Recover	y	Control I	Limits (%)				
		aaa-Trifluorotolt	iene		106		65 -	135				
Test:	TPH	as Gasoline			· · · · · · · · · · · · · · · · · · ·							
TPH as C	asoline	EPA 8015 M	ND		0.561		0.486	LCSD	86.6	3.44	30.00	65.0 - 135.0
		Surrogate		Surrog	ate Recover	у	Control I	imits (%)				
		aaa-Trifluorotolu	iene		99		65 -	135				
Test:	BTE	X										
Benzene		EPA 8020	ND		0.0062		0.007	LCSD	112.9	0.00	30.00	55.0 - 153.0
Ethyl Bei	rzene	EPA 8020	ND		0.0078		0.007	LCSD	89.7	13.33	30.00	58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.033	LCSD	92.2	5.88	30.00	56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.039	LCSD	90.7	5.00	30.00	64.9 - 105.0
· .		Surrogate		Surrog	ate Recover	y	Control I	lmits (%)				
		aaa-Trifluorotolu	iene	_	106		65 -	135				1



Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159

				SAM	PLE CO	NTAINE	RS			REC	QUESTED	ANALYSIS	3		
Sample	Sample	Dat	-					. Totál Pe	troleum Hydr	ocarbons		Ad	ditional Ana	ysis	
Identification	Depth	Samp		40 miL VOAs (preserved)	1 Liter Amber Jars	mL Poly Bottle	Liner Acetate or Brass	Extractable Fixel Scan	Purgeable Euol Scan	Gasoline & BIEX MIBE by EPA Method 8015M-8-8020	MIBE by by EPA Mellicul 8260	Lead	STIC		
Soil Reuse #2e	SULFACE	1 9	oz				ΧI	Mark Parine		ስ	By of Holoridae.	\$5 15 <u>. 80</u> , 10	\$ 7.4K \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		مسواد المدرا
Soil Reuse #26	11	14					۲.			4-POINT					
Soil REVSE#20	`	49					*/			COMPONTE					
Soil REUSE #2d	١٠.	11					*(1					
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Sampler Farm &	BY: Dem	1/9	Date &	Time @ 7:36an		An	امر	EASED BY: Dera 5020	<u>~ ~ </u>	Dafe & 1	Time 9:15	Ambient Ambient	(circle 1) Refrigerated Refrigerated	Frozen Frozen	
. 1 1		<u>-</u>						.		-	=	Ambient	Refrigerated	Frozen	
				<u> </u>							=	Ambient	Refrigerated	Frozen	
				=						-		Ambient	Refrigerated	Frozen	
,															

V Please use MDL (Minimum Detection Limit) for any diluted samples.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

January 21, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28470

Date Collected: 1/9/02

Project Name: Harbert Transportation

Date Received: 1/10/02

Project Number: H9042.C

P.O. Number: H9042.C

Project Notes: Report re-issued to correct client ID to read "Soil Reuse 3a-3d"

On January 10, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix

Test

Method

Solid

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson

Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 1/21/02 Date Received: 1/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28470		Lab Sa	ımple I	D: 2847	0-005		Client San	i ple ID: Soil	Reuse-3a-3d	
Sample Time:		Sam	ple Dat	e: 1/9/0	12]	Matrix: Soli	d	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		I	0.005	0.005	mg/Kg	N/A	1/10/02	SGC22280	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC22280	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC22280	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	1/10/02	SGC22280	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluor	otoluene		105	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	1/10/02	SGC22280	EPA 8020
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	1/10/02	SGC22280	EPA 8015 MOD. (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Conta	rol Limits (%)
				aa	a-Trifluor	otoluene		78	65	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



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Quality Control Results Summary

QC Batch #:

Matrix:

SGC22280

Solid

Units:

mg/Kg

Date Analyzed:

01/10/02

Paramet	ter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH	as Gasoline	·									Y
TPH as (Gasoline	EPA 8015 M	ND		0.561		.473	LCS	84.3			65.0 - 135.0
	[Surrogate		Surrog	ate Recove	ry	Control	Limits (%)				
		aaa-Trifluorotol	iene		76	·····	65 -	135				
Test:	BTE	X										
Benzene		EPA 8020	ND		0.0062		0.005	LCS	80.6			55.0 - 153.0
Ethyl Be	nzene	EPA 8020	ND		0.0078		.006	LCS	76.9			58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.033	LCS	92.2			56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		.036	LCS	83.7			64.9 - 105.0
		Surrogate		Surrog	ate Recovei	.у	Control l	Limits (%)				
		aaa-Trifluorotoli	iene		107		65 -	135				
Test:		E by EPA 802								····		
Methyl-t-	butyl Eth	ier EPA 8020	ND		0.062		.057	LCS	91.9			45.0 - 119.0
		Surrogate		Surrog	ate Recover	У		Limits (%)				i
		aaa-Trifluorotolu	iene		107		65 -	135				
Test:		as Gasoline										
TPH as C	lasolme	EPA 8015 M	ND		0.561		0.438	LCSD	78.1	7.68	30.00	65.0 - 135.0
		Surrogate		Surrog	ate Recover	у		Limits (%)				
Į	·	aaa-Trifluorotolu	iene		74		65 -	135				
Test:	BTE	X										
Benzene		EPA 8020	ND	(0.0062		0.005	LCSD	80.6	0.00	30.00	55.0 - 153.0
Ethyl Bei	ızene	EPA 8020	ND	•	0.0078		0.006	LCSD	76.9	0.00	30.00	58.4 - 116.0
Toluene		EPA 8020	ND	•	0.0358		0.032	LCSD	89.4	3.08	30.00	56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.034	LCSD	79.1	5.71	30.00	64.9 - 105.0
		Surrogate		Surroga	ate Recover	y	Control I	imits (%)				
		aaa-Trifluorotolu	ene		106		65 -	135				
Test:	MTB	E by EPA 8020)			····		•				
		ет EPA 8020	ND		0.062		0.054	LCSD	87.1	5.41	30.00	45.0 - 119 0
ſ		Surrogate		Surroga	ite Recover	у	Control I	imits (%)				
		aaa-Trifluorotolu	ene		106		65 -	135				



Weber, Hayes & Associates

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PAGE / OF /

	RESULIS TO:	Aaron B	ierman	******				TURNAR	OUND TIME:	Normal	24hr Rush	48hr Rush	72hr Rush
			SAM	IPLE CO	NTAINE	RS	Total Petroleum Hy		QUESTED	ANALYSIS	dihonal Analys		
Sample Identification	Sample Depth	Date Sampled	40 mL VOAs	1 Liter	mL	Liner	Extractable Purgeab Fuel-Scan suel-Sca	Me "Gasoline & . an BTEX-MIBE	Volatile Organics	SemiVolatile Organics		is Pen Metaks	LUFT 5
			(preserved)	Amber Jars	Poly Bottle	Acetate or Brass	(Standard) (w/MTBE silica-get-oleanop) BTEX)		by EPA Method# 6260	By EPA Metrox #8270	by EPA Method #8260	by EPA Method # 20.7 xtr 600 MECH	by EPA Methodar 2017/2000/0010
Soil REUSE#3	Sueface	1/2/02				×I							
2. Soil Reuse #36	, t	it				×I		4-401-21			 		<u> </u>
3 Soil REUSE # 3c	e\	*1				×1		COMPOSITE			 		-
4 Sou REUSE #3d	*	•				χI							
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<u>~-</u>	2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Contraction of	and the second										
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1.) Sampled an De		Date;	S. Time 3:00v 2 @ ***********************************	*		n É	EASED BY:	1 7		Ambient	(circle 1) Refrigerated	Frozen	
1.) Samples a Die 2.) August 3.) SMALL 4.)		Date:	* Time 3 500 7 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	** • • • • • • • • • • • • • • • • • •		n É	EASED BY:	1 7		Ambient Ambient Ambient	(circle 1) Refrigerated Refrigerated Refrigerated	Frozen Frozen Frozen	
1.) Samples a Die 2.) August 3.) SMALL 4.)		Date.	3 Time 3 200/2 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	*		in E	57.00	1 7		Ambient Ambient Ambient	(circle 1) Refrigerated Refrigerated Refrigerated	Frozen Frozen Frozen Frozen	
1.) Samples a Die 2.) And R 3.) SMULL 4.)	Yan X	1 7 M	263	*	A	ADI	DITIONAL COMMENTS		02 063	Ambient Ambient Ambient Ambient	Refrigerated Refrigerated Refrigerated Refrigerated Refrigerated	Frazen Frazen Frazen Frazen Frazen	

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

January 24, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28429

Project Name: Harbert Transportation

Project Number: H9042.C

Date Collected: 01/07/02

Date Received: 01/07/02

P.O. Number: H9042.C

Project Notes: Report re-issued for sample 28429-003 (BC-N) to report MTBE confirmation by EPA 8260B.

On January 07, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix Test Method
Solid Gas/RTEY/MTRE FPA 80

Solid Gas/BTEX/MTBE EPA 8015 MOD. (Purgeable)
EPA 8020

MTBE by EPA 8260B EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Patti L. Sandrock QA/QC Manager

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02 Date Received: 01/07/02

Drainet Manney Harbort Tran

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 28429		Lab Sa	ımple I	D: 2842	9-001		Client San	aple ID : LD	#1 SW-E	
Sample Time:		Sam	ple Da	t e: 01/0′	7/02]	Matrix: Soli	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		I	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
Ethyl Benzene	0.005		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
Xylenes, Total	0.011		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		104	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Tuifluoro	otoluene		104	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/10/02	SGC22280	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	ogate Recovery	Cont	rol Limits (%)
				ลละ	a-Trifluoro	nfoluene		67	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076 Attn: Aaron Bierman Date: 01/18/02 Date Received: 01/07/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 28429		Lab Sa	ample II): 2842	9-002		Client San	iple ID: LD	#2 SW-W	
Sample Time:		San	ple Dat	e: 01/0	7/02			Matrix: Sol	id	
Parameter	Result	Flag	DF '	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/K.g	N/A	01/10/02	SGC22280	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		108	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/10/02	SGC22280	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		108	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ИD		1	1	l	mg/Kg	N/A	01/10/02	SGC22280	EPA 8015 MOD. (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aaa	a-Trifluoro	otoluene		82	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 1/24/02

Date Received: 01/07/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 2	28429	Lab Sa	ımple I	D: 2842	9-003		Client San	ple ID: BC	-N	
Sample Time:		Sam	ple Dat	t e: 01/01	7/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		5	0.005	0.025	mg/Kg	N/A	01/12/02	SGC22287	EPA 8020
Toluene	ND		5	0.005	0.025	mg/Kg	N/A	01/12/02	SGC22287	EPA 8020
Ethyl Benzene	ND		5	0.005	0.025	mg/Kg	N/A	01/12/02	SGC22287	EPA 8020
Xylenes, Total	ND		5	0.005	0.025	mg/Kg	N/A	01/12/02	SGC22287	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluoro	otoluene		104	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/Kg	N/A	01/18/02	SMS21375	EPA 8260B
					Surrog		Surre	ogate Recovery	Conti	ol Limits (%)
				4-B	romofluor	obenzene		125	65	5 - 135
				Dib	romofluor	omethane		117	57	7 - 156
					Toluene	-d8		144	75	7 - 150
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		5	1	5	mg/Kg	N/A	01/12/02	SGC22287	EPA 8015 MOD (Purgeable)
					Surroga	ıte	Surre	gate Recovery	Contr	ol Limits (%)
				ลลล	ı-Trifluoro	toluene		66	65	- 135
Comment: Sa	ample diluted due to m	atrix of the	sample.							

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/07/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Aaron Bierman

Certified Analytical Report

Order ID: 28429		Lab Sa	ample I	D: 2842	9-004		Client San	ple ID: LD	#4 SW-N	···
Sample Time:		Sam	ple Da	te: 01/0	7/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/17/02	SGC22287	EPA 8020
Tolucne	0.012		1	0.005	0.005	mg/Kg	N/A	01/17/02	SGC22287	EPA 8020
Ethyl Benzene	0.005		1	0.005	0.005	mg/Kg	N/A	01/17/02	SGC22287	EPA 8020
Xylenes, Total	0.006		1	0.005	0.005	mg/Kĝ	N/A	01/17/02	SGC22287	EPA 8020
					Surrog	ate	Surre	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluoro	otoluene		107	6	5 - 135
Parameter	Resuit	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/17/02	SGC22287	EPA 8020
					Surrog	ate	Surro	gate Recovery	Conti	ol Limits (%)
				aaa	a-Trifluoro	toluene		107	65	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1.2		1	1	1	mg/Kg	N/A	01/17/02	SGC22287	EPA 8015 MOD. (Purgeable)
					Surroga	ate	Surro	gate Recovery	Contr	ol Limits (%)
				aaa	a-Trifluoro	toluene		64	65	5 - 135

Comment:

Surrogate recovery out of control limits due to matrix interference.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Quality Control Results Summary

QC Batch #:

SMS21375

Matrix:

Solid

Units:

μg/Kg

Date Analyzed:

1/18/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 82	60B										
1,1-Dichloroethene EPA 8260B ND			40		33.5	LCS	83.8			65.0 - 135 0	
Benzene	EPA 8260B	ND		40		40.1	LCS	100.3			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		40		39 5	LCS	98.8			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		40		28.0	LCS	70.0			55 0 - 131.0
Toluene EPA 8260B ND		40			41.4	LCS	103.5			65 0 - 135.0	
Trichloroethene	EPA 8260B	ND		40		39.8	LCS	99.5			70 8 - 121.0
S	urrogate		Surrog	ate Recove	у.	Control Limits (%)					
4	4-Bromofluorobenzene			123		65 -	135				
Į E	Dibromofluoromethane			116		57 -	156				
Toluene-d8			142			77 -	150				
Test: EPA 82	.60B							THE PARTY OF THE P			
1,1-Dichloroethene	EPA 8260B	ND		40		33.3	LCSD	83.3	0 60	30.00	65.0 - 135.0
Benzene	EPA 8260B	ND	40			40.3	LCSD	100.8	0.50	30.00	65.0 - 135 0
Chlorobenzene	EPA 8260B	ND	40			40.0	LCSD	100.0	1.26	30.00	65.0 - 135 0
Methyl-t-butyl Ether	EPA 8260B	ND		40		27.7	LCSD	69.3	1.08	30.00	55.0 - 131.0
Toluene	EPA 8260B	ND	40			42.0	LCSD	105 0	1.44	30.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		40		39.7	LCSD	99.3	0.25	30.00	70 8 - 121.0
S	urrogate		Surrog	nte Recovei	у	Control I	lmits (%)				
4	4-Bromofluorobenzene Dibromofluoromethane			124		65 -	135				
r				117		57 -	156				
т	'oluene-d8			143		77 -	150				

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Quality Control Results Summary

QC Batch #:

SGC22280

Matrix: Solid

Units:

mg/Kg

Date Analyzed:

01/10/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TF	H as Gasoline									······································	
TPH as Gasolin	Gasoline EPA 8015 M ND 0.56					.473	LCS	84.3			65.0 - 135.0
	Surrogate		Surrog	Surrogate Recovery			Limits (%)			<u></u>	
L	aaa-Trifluorotol	uene		76		65 -	135				
Test: B7	EX			· - · - · - · - · · - · · · · · · · · ·				,			······································
Benzene	EPA 8020	ND		0.0062			LCS	80.6			55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.0078		.006	LCS	76.9			58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.033	LCS	92.2			56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043		.036	LCS	83.7			64.9 - 105.0
	Surrogate	Surrogate Recovery			Control 1	Limits (%)					
	aaa-Trifluorotol	107			65 -	135					
Test: M'	TBE by EPA 802	0						* , , ,			
Methyl-t-butyl Ether EPA 802		ND		0.062		.057	LCS	91.9			45.0 - 119.0
[Surrogate		Surrog	ate Recover	·у	Control I	Limits (%)				
	aaa-Trifluorotol	uene		107		65 -	135				
Test: TP	H as Gasoline										
TPH as Gasolin	e EPA 8015 M	ND		0.561		0.438	LCSD	78.1	7.68	30.00	65 0 - 135.0
[Surrogate	Surroga	у	Control I	Imits (%)						
	aaa-Trifluorotola	74			65 -		135				
Test: BT	EX										
Benzene	EPA 8020	ND	(0.0062		0.005	LCSD	80.6	0.00	30.00	55.0 - 153.0
Ethyl Benzene	EPA 8020	ND	(0.0078		0.006	LCSD	76.9	0.00	30.00	58.4 - 116.0
Toluene	EPA 8020	ND	(0.0358		0.032	LCSD	89.4	3.08	30.00	56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043		0.034	LCSD	79.1	5.71	30.00	64.9 - 105.0
	Surrogate	Surroga	ate Recover	у	Control I	imits (%)	· · · · · · · · · · · · · · · · · · ·		· ,		
	aaa-Trifluorotolu		106		65 -	135					
Test: M7	BE by EPA 802	0					, , , , , , , , , , , , , , , , , , , 				
	Ether EPA 8020	ND		0.062		0.054	LCSD	87.1	5.41	30.00	45.0 - 119.0
[Surrogate		Surroge	ate Recover	у	Control I	imits (%)				
	aaa-Trifluorotolu	iene	_	106		65 -	135				

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Quality Control Results Summary

QC Batch #:

SGC22287

Matrix: Solid

Units:

mg/Kg

Date Analyzed:

01/11/02

Paramet	er	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH	as Gasoline			······································							
TPH as C	Basoline	EPA 8015 M	ND			.463	LCS	82.5			65.0 - 135.0	
		Surrogate		Surrog	gate Recover	· y	Control	Limits (%)				
		aaa-Trifluorotol	iene		112		65 -	135				
Test:	BTE	X		,								
Benzene		EPA 8020	ND		0.0062		.0049	LCS	79.0			55.0 - 153.0
Ethyl Ber	ızene	EPA 8020	ND		0.0078		.006412	LCS	82.2			58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		.032	LCS	89.4			56.1 - 127.0
Xylenes, total EPA 8020		EPA 8020	ND		0.043		.03477	LCS	80.9			64.9 - 105.0
ſ		Surrogate	Surrog	Surrogate Recovery			Control Limits (%)					
		aaa-Trifluorotolu	76			65 -	135					
Test:	MTB	E by EPA 802	 D									
Methyl-t-butyl Ether EPA 8020 ND			0.062		.05487	LCS	88.5			45.0 - 119.0		
- [Surrogate		Surrog	ate Recover	У	Control 1	Limits (%)				
Ĺ		aaa-Trifluorotolu	iene		76		65 -	135				
Test:	TPH	as Gasoline									•	
TPH as G	asoline	EPA 8015 M	ND		0.561		.444	LCSD	79.1	4.19	30.00	65.0 - 135.0
		Surrogate	Surrog	y	Control l							
Ì		aaa-Trifluorotoluene			113		65 -	135				
Test:	BTE	X										
Benzene		EPA 8020	ND		0.0062		.00497	LCSD	80.2	1.42	30.00	55.0 - 153.0
Ethyl Ben	zene	EPA 8020	ND		0.0078		.00631	LCSD	80.9	1.60	30.00	58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		.03187	LCSD	89.0	0.41	30.00	56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		.034	LCSD	79.1	2.24	30.00	64.9 - 105.0
		Surrogate			Surrogate Recovery			Limits (%)				
L		aaa-Trifluorotolu	78			65 - 135		<u></u>				
Test:	MTB	E by EPA 8020)		****							
Methyl-t-		er EPA 8020	ND		0.062		.05489	LCSD	88.5	0.04	30.00	45.0 - 119.0
		Surrogate		Surrog	ate Recover	у .	Control I	Limits (%)				
		aaa-Trifluorotolu	ene		78		65 -	135				



Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076 (831) 722-9580 (831) 662-9100 Fax: (831) 722-1159

PAGE OF /

			SAMPLE CONTAINERS						REC	JUESTED	ANALYSIS	}		
		_	SAM	PLE CU	NIAINEF	S	Total Petroleum Hydrocarbons			Additional Analysis				सर्वे संद्र ्णान्य द्रम्याः
Sample Identification	Sample Depth	Date Sampled	40 mL VOAs (preserved)	1 Liter Amber Jars	mL Poly Bottle	Liner Acetate o Brass	Extractable Euel Scan	Purgeable Fuel Scan	Gasoline & BIEX MITBE by EPA Methods 8015M-\$-8020	MTBE by by EPA Methods 8266	Leat	SHC		
141 SW-E	35'	1702				×	Security Sec	747-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	X	29.90%-Shower	12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	at sparities	2842	B-00/
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			<u> </u>		-				<u></u>	=	Ambient	Refrigerated	Frozen	

SW = SIDE WALL

BC = BOTTOM CENTER

Please use MDL (Minimum Detection Limit) for any diluted samples.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

January 29, 2002

Aaron Bierman Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28475 Date Collected: 1/8/2002
Project Name: Harbert Transportation Date Received: 1/10/2002
Project Number: H9042.C P.O. Number: H9042.C

Project Notes:

On January 10, 2002, sample was received under documentented chain of custody. Results for the following analyses are attached:

MatrixTestMethodSolidGas/BTEX/MTBEEPA 8015 MOD. (Purgeable)EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson Laboratory Director

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

FEB 0 7 2002

BWISSS

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Date: 1/29/02

Date Received: 1/10/2002

Project Name: Harbert Transportation

Project Number: H9042,C P.O. Number: H9042,C Sampled By: Client

66.6

Certified Analytical Report

			Cerm	ieu An	atytica	n Keho	1 t				
Order ID: 284	475	Lab Sa	ımple I	D: 2847	5-009		Client San	iple ID: LD	#16 SW-W		
Sample Time:		Sam	ple Da	te: 1/9/2	002						
Parameter	Result	Fiag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	0.041		50	0.025	1.25	mg/Kg	N/A	1/21/2002	SGC22293	EPA 8020	
Toluene	ND		50	0.025	1.25	mg/Kg	N/A	1/21/2002	SGC22293	EPA 8020	
Ethyl Benzene	0.12		50	0.025	1.25	mg/Kg	N/A	1/21/2002	SGC22293	EPA 8020	
Xylenes, Total	0.62		50	0.075	3.75	mg/Kg	N/A	1/21/2002	SGC22293	EPA 8020	
					Surrog	ate	Surr	ogate Recovery	y Control Limits (%)		
				aaa	a-Trifluor	otoluene		106	6	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		50	0.002	0.1	mg/Kg	N/A	1/21/2002	SGC22293	EPA 8020	
				Surrogate			Surr	ogate Recovery	Control Limits (%)		
				aaa-Trifluorotoluene				106	65 - 135		
Comment: MT	BE reported to the N	MDL pea c	lient requ	est. No con	nfirmation	ı by EPA 82	260B required f	or soils.			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	34		50	1	50	mg/Kg	N/A	1/21/2002	SGC22293	EPA 8015 MOD (Purgeable)	
					Surroga	ate	Surr	ogate Recovery	Cont	rol Limits (%)	

aaa-Trifluorotoluene

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

65 - 135

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-001		Client San	iple ID: LD	#5 SW-N	
Sample Time:		Sam	ıple Da	te: 01/0	8/02		I	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/14/02	SGC22286	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/14/02	SGC22286	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/14/02	SGC22286	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/14/02	SGC22286	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluoro	otoluene		115	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/14/02	SGC22286	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aaı	a-Trifluoro	otoluene		115	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/14/02	SGC22286	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	ogate Recovery	Contr	rol Limits (%)
				aas	a-Trifluoro	otoluene		78	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042,C P.O. Number: H9042,C Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ımple I	D: 2847	5-002		Client San	ple ID : LD	#8 SW-S	
Sample Time:		Sam	ple Da	te: 01/0	8/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
Ethyl Benzenc	ND		1	0.005	0.005	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/K.g	N/A	01/16/01	SGC22290	EPA 8020
					Surrog	ate	Surre	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluore	otoluene		109	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
					Surrog		Surr	gate Recovery	Cont	ol Limits (%)
				aaa	a-Trifluoro	otoluene		109	6	, ,
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
IPH as Gasoline	ИD		1	l	1	mg/Kg	N/A	01/16/01	SGC22290	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surro	gate Recovery	Conti	ol Limits (%)
				aaa	ı-Trifluoro	toluene		77	6.	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ımple I	D: 2847	5-003		Client San	iple ID: LD	#9 SW-E	
Sample Time:		Sam	ple Da	te: 01/0	8/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		ı	0.005	0.005	mg/Kg	N/A	01/15/02	SGC22290	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/15/02	SGC22290	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/15/02	8GC22290	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/15/02	SGC22290	EPA 8020
•					Surrog	nte	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		106	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/15/02	SGC22290	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		106	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Unlts	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/15/02	\$GC22290	EPA 8015 MOJ (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Conti	ol Limits (%)
				aa	a-Trifluoro	otoluene		75	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02 Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D : 2847	5-004		Client San	ple ID: LD	#10 SW-E	:
Sample Time:		San	ple Da	te: 01/0	8/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
Toluenc	ND		1	0.005	0.005	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/Ą	01/16/01	SGC22290	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluore	otoluene		110	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/01	SGC22290	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aaa	a-Trifluoro	otoluene		110	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/16/01	SGC22290	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	ogate Recovery	Contr	rol Limits (%)
				aaa	a-Trifluoro	toluene		81	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076 Attn: Aaron Bierman Date: 01/18/02 Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-005		Client San	iple ID: LD:	#11 SW-W	
Sample Time:		Sam	ple Dat	e: 01/0	9/02		I	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	· N/A	01/16/02	SGC22290B	EPA 8020
Toluene	0.014		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Ethyl Benzene	0.013		t	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Xylenes, Total	0.062		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		113	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		113	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	ogate Recovery	Conti	rol Limits (%)
				aaa	a-Trifluoro	otoluene		79	6.5	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-006		Client San	ple ID: LD	#13 SW-E	
Sample Time:		San	ple Da	te: 01/09	9/02		1	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0 005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Toluene	0.006		1	0 005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Xylenes, Total	0.022		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	y Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		111	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluoro	otoluene		111	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasotine	ND		1	1	1	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	gate Recovery	Cont	rol Limits (%)
				aaa	a-Trifluoro	otoluene		71	6	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-007		Client San	iple ID: LD	#14 SW-W	
Sample Time:		Sam	ple Da	t e: 01/0	9/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		111	6	5 - 135
Parameter	Result	Fiag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		111	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8015 MOD. (Purgeable)
					Surrog	nte	Surre	ogate Recovery	Conti	rol Limits (%)
				aaa	a-Trifluoro	toluene		79	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-008		Client San	iple ID: LD:	#15 BC-S	
Sample Time:		Sam	iple Da	te: 01/09	9/02			Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		110	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
·					Surrog	ate	Surre	ogate Recovery	Contr	ol Limits (%)
				aaı	a-Triffuoro	otoluene		110	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ИD		1	1	1	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8015 MOD (Purgeable)
					Surrog	ate	Sarre	ogate Recovery	Conti	ol Limits (%)
				aaa	a-Trifluoro	otoluene		81	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Weber, Hayes and Associates

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Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/25/02

Date Received: 1/10/2002

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-010		Client San	aple ID: LD	#12 SW-E	
Sample Time:		Sam	iple Dat	te: 1/9/2	002]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	1/17/2002	SGC22290B	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	1/17/2002	SGC22290B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	1/17/2002	SGC22290B	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	1/17/2002	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		120	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	1/17/2002	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aaı	a-Trifluore	otoluene		120	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	1/17/2002	SGC22290B	EPA 8015 MOD. (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)
				aas	a-Trifluoro	otoluene		87	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Patti Sandrock, QA/QC Manager

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-011		Client San	ple ID : LD	#13 SW-E	•
Sample Time:		San	ple Da	te: 01/0	9/02]	Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor	otoluene		109	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		ì	0.05	0.05	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
•					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aaa	a-Trifluore	otoluene		109	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8015 MOD. (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Contr	rol:Limits (%)
				aaa	a-Trifluoro	otoluene		77	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Watsonville, CA 95076

Attn: Aaron Bierman

Date: 01/18/02

Date Received: 01/10/02

Project Name: Harbert Transportation

Project Number: H9042.C P.O. Number: H9042.C

Sampled By: Client

Certified Analytical Report

Order ID: 28475		Lab Sa	ample I	D: 2847	5-012		Client San	ple ID: LD#	#16 SW-W	
Sample Time:		Sam	ple Dat	te: 01/09	9/02]	Matrix: Soli	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aas	a-Trifluor	otoluene		110	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	0.05	0.05	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8020
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aaa	a-Trifluor	otoluene		110	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	01/16/02	SGC22290B	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aaa	a-Trifluor	otoluene		80	65	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Quality Control Results Summary

QC Batch #:

SMS21383

Matrix:

Solid

Units:

μg/Kg

Date Analyzed:

1/23/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8	3260B										· · · · · · · · · · · · · · · · · · ·
1,1-Dichloroethene	EPA 8260B	ND		40		38.4	LCS	96.0			65.0 - 135.0
Benzene	EPA 8260B	ND		40		42.9	LCS	107.3			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		40		42.2	LCS	105.5			-65.0 - 135.0
Methyl-t-butyl Ethe	r EPA 8260B	ND		40		28.4	LCS	71.0			55.0 - 131.0
Toluene	EPA 8260B	ND		40		44 7	LCS	111.8			65.0 - 135.0
Trichloroethene	EPA 8260B	D		40		41.9	LCS	104.8			70.8 - 121.0
	Surrogate		Surrog	ate Recover	·y	Control I	imits (%)		·	······	
	4-Bromofluorobe	nzene		124		65 -	135				
	Dibromofluorom	ethane		115		57 -	156				
	Tolucne-d8			148		77 -	150				
Test: EPA 8	260B										
1,1-Dichloroethene	EPA 8260B	ND		40		31.9	LCSD	79.8	18.49	30.00	65.0 - 135.0
Benzene	EPA 8260B	ND		40		35.2	LCSD	88.0	19.72	30.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		40		34.7	LCSD	86.8	19.51	30.00	65.0 - 135.0
Methyl-t-butyl Ethe	r EPA 8260B	ND		40		23.6	LCSD	59.0	18.46	30.00	55.0 - 131.0
Toluene	EPA 8260B	ND		40		36.7	LCSD	91.8	19.66	30.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		40		34.3	LCSD	85.8	19.95	30.00	70.8 - 121.0
	Surrogate		Surroga	ate Recover	у	Control I	imits (%)				
	4-Bromofluorobe	nzene		122		65 -	135				
	Dibromofluorom	ethane		116		57 -	156				
	Toluene-d8			147		77 -	150				1

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Quality Control Results Summary

QC Batch #:

SGC22286

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

1/14/2002

Paramet	ter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH	as Gasoline						· · · · · ·				
TPH as C	Jasoline	EPA 8015	ND		0.561		0.452	LCS	80.6			65.0 - 135.0
		Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
		aaa-Trifluorotol	tene		73		65 -	135			···	
Test:	BTE	X										
Benzene		EPA 8020	ND		0.0062		0.005	LCS	80.6			55.0 - 153.0
Ethyl Ber	nzene	EPA 8020	ND		0.0078		0.006	LCS	76.9			58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.031	LCS	86.6			56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.034	LCS	79.1			64.9 - 105.0
		Surrogate		Surrog	ate Recove	ry	Control I	limits (%)				
		aaa-Trifluorotoli	iene		104	·	65 -	135				
Test:	TPH	as Gasoline						·				
TPH as C	Jasolíne	EPA 8015	ND		0.561		0.430	LCSD	76.6	4.99	30.00	65.0 - 135.0
1		Surrogate		Surrog	ate Recove	ry	Control I	lmits (%)				
		aaa-Trifluorotolt	iene		73		65 -	135				
Test:	BTE	X			··		-					
Benzene		EPA 8020	ND		0.0062		0.005	LCSD	80.6	0.00	30.00	55.0 - 153.0
Ethyl Ber	nzene	EPA 8020	ND		0.0078		0.006	LCSD	76.9	0.00	30.00	58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.030	LCSD	83.8	3.28	30.00	56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.034	LCSD	79.1	0.00	30.00	64.9 - 105.0
, i		Surrogate		Surrog	ate Recover	r y	Control I	lmits (%)				
		aaa-Trifluorotoli	iene		106		65 -	135				

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Quality Control Results Summary

QC Batch #:

SGC22290

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

1/15/2002

Parameter	Meti	hod	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH as Gaso	line				_						
TPH as Gas	oline BPA (B015 M	ИД		0 561		0.448	LCS	79.9			65.0 - 135.0
	Surrog	ate		Surrog	ate Recover	ry	Control 1	Limits (%)				
	aaa-Trii	fluorotoli	ene		79		65 -	135				
Test:	BTEX										· · · · · · · · · · · · · · · · · · ·	
Benzene	EPA 8	3020	ND		0.0062		0.0049	LCS	79 0			55.0 - 153.0
Ethyl Benze	ne EPA 8	3020	ИD		0.0078		0.0063	LCS	80.8			58.4 - 116.0
Toluene	EPA 8	3020	ND		0.0358		0.0317	LCS	88.5			56.1 - 127.0
Xylenes, tota	al EPA 8	3020	ND		0.043		0.0345	LCS	80.2			64.9 - 105.0
[Surroge	ate		Surrog	ate Recover	.у	Control I	Jimits (%)				
	aaa-Trií	luorotolu	ene		114		65 -	135				
Test:	MTBE by EF	A 8020)				•					
	tyl Ether EPA 8		ND		0.062		0.0498	LCS	80.3			45.0 - 119.0
	Surroge			Surrog	ate Recover		Control I	Limits (%)				
ĺ	aaa-Trif	luorotolu	ene		114		65 -	135				
Test:	TPH as Gaso	line										
TPH as Gaso	oline EPA 8	015 M	ИD		0.561		0.437	LCSD	77.9	2.49	30.00	65.0 - 135.0
	Surrege	ate		Surrog	ate Recover	у	Control I	imits (%)				
ļ	aaa-Trif	Iuorotolu	ene		77		65 -	135				
Test:	BTEX											
Benzene	EPA 8	020	ND	+	0.0062		0.0048	LCSD	77.4	2.06	30.00	55.0 - 153.0
Ethyl Benzei	ne EPA 8	020	ИD	(0.0078		0.0063	LCSD	80.8	0.00	30.00	58.4 - 116.0
Toluene	EPA 8	020	ND	(0.0358		0.031	LCSD	86.6	2.23	30.00	56.1 - 127.0
Xylenes, tota	al EPA 8	020	ND		0.043		0.0345	LCSD	80.2	0.00	30.00	64.9 - 105.0
	Surrogs	ite		Surroga	ate Recover	y	Control I	imits (%)				
	aaa-Trif	luorotolu	ene		112		65 -	135				
Test:	MTBE by EP	A 8020										
	yl Ether EPA 8		ND		0.062		0.0534	LCSD	86.1	6.98	30.00	45.0 - 119.0
	Surroge			Surroga	ate Recover	y	Control I	imits (%)				
	aaa-Trif	luorotolu	ene	· ·	112	-	65 -					

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Quality Control Results Summary

QC Batch #:

SGC22290B

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

1/16/2002

Paramet	ter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Splke Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH	as Gasoline		·		· · · · · · · · · · · · · · · · · · ·						
TPH as C	Jasoline	EPA 8015 M	ND		0.561		0.427	LCS	76.1			65.0 - 135.0
[Surrogate		Surrog	nte Recover	у	Control	Limits (%)				
		aaa-Trifluorotolu	iene		70.1		65 -	135				
Test:	BTE	X										
Benzene	-	EPA 8020	ND		0.0062		0.0046	LCS	74.2			55.0 - 153.0
Ethyl Ber	nzene	EPA 8020	ND		0.0078		0.0061	LCS	78.2			58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.031	LCS	86.6			56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.035	LCS	81.4			64.9 - 105.0
		Surrogate		Surrog	ate Recover	у	Control	Limits (%)				
		ลลล-Trifluorotolเ	lene		106.0		65 -	135				
Test:	MTB	E by EPA 8020	0									
Methyl-t-	-butyl Eth	er EPA 8020	ND		0.062		0.066	LCS	106.5			45.0 - 119.0
		Surrogate		Surrog	ate Recover	y	Control l	Limits (%)		-		
	_	aaa-Trifluorotolu	iene		106.0		65 -	135			··-·	
Test:	TPH	as Gasoline										MARKET 1
TPH as C	Jasoline	EPA 8015 M	ND		0.561		0.429	LCSD	76.5	0.47	30.00	65.0 - 135.0
		Surrogate		Surrog	ate Recover	y	Control l	Limits (%)				
Į		aaa-Trifluorotolu	iene		74.4		65 -	135				
Test:	BTE	XC .										
Benzene		EPA 8020	ND		0.0062		0.0046	LCSD	74,2	0.00	30,00	55.0 - 153.0
Ethyl Ber	nzene	EPA 8020	ND		0.0078		0.0060	LCSD	76.9	1.65	30.00	58.4 - 116.0
Toluene		EPA 8020	ND		0.0358		0.030	LCSD	83.8	3.28	30,00	56.1 - 127.0
Xylenes,	total	EPA 8020	ND		0.043		0.0335	LCSD	77.9	4.38	30,00	64.9 - 105.0
[Surrogate		Surrog	ate Recover	y	Control l	Limits (%)				,
		aaa-Trifluorotolu	ene		106.0		65 -	135				
Test:	MTB	E by EPA 8020)									
Methyl-t-	butyl Eth	er EPA 8020	ND		0.062		0.066	LCSD	106.5	0.00	30.00	45.0 - 119.0
ſ		Surrogate		Surrog	ate Recover	у	Control 1	lmlts (%)				
		aaa-Trifluorotolu	ene	_	106.0	-	65 -	135				

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #:

SGC22293

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

1/17/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Туре	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPF	as Gasoline	····				***				****	
TPH as Gasoline	EPA 8015 I	M ND		0.561		2.267	LCS	404.1			65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
ļ	aaa-Triffuorotol	uene		75.9		65 -	135				
Test: BTE	X										
Benzene	EPA 8020	ND		0.0062		0.005	LCS	80.6			55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.0078		0.0065	LCS	83.3			58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.032	LCS	89.4			56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043		0.035	LCS	81.4			64.9 - 105.0
	Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
	aan-Trifluorotol	uene		111.0		65 -	135				
	BE by EPA 802 her EPA 8020	0 ND		0.062		0.174	LCS	280.6			45.0 110.0
Methyl-t-butyl Et		·····	P	ate Recover			Limits (%)	280.0			45.0 - 119.0
	Surrogate aaa-Trifluorotol		Surrog	ate Recover	r y	65 -					
		riciic		111.0	·	- 05 -	133			·····	
	as Gasoline										
TPH as Gasoline	EPA 8015 I	M ND		0.561		2.249	LCSD	400.9	0.80	30.00	65.0 - 135.0
1	Surrogate		Surrog	ate Recover	'y		Limits (%)				
ļ. <u></u> .	aan-Triffuorotob	nene		76.3		65 -	135				
Test: BTE	X										
Benzene	EPA 8020	ИD		0.0062		0.030	LCSD	483.9	9.52	30.00	55.0 - 153.0
Ethyl Benzene	EPA 8020	ИD		0.0078		0.037	LCSD	474.4	0.00	30.00	58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.167	LCSD	466.5	2.42	30.00	56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043	•	0.194	LCSD	451.2	0.52	30.00	64.9 - 105.0
	Surrogate		Surrog	ate Recover	у	Control l	imits (%)				
	aaa-Trifluorotoli	iene		112.0		65 -	135				
Test: MTI	BE by EPA 802	0									······································
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	Surrogate		Surrog	ate Recover	y	Control I	imits (%)				
-	aaa-Trifluorotoli	iene		112.0		65 -	135				



Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159

PAGE OF

	PROJECT N	NAME AND JOB#	Harbert	Transport	ation /	H9042.	<u>c</u>		LAI	BORATORY:	Entech A	nalvtical		-	
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	Sample Identification	Sample Depth	Date Sampled	40 mL VOAs (preserved)	1 Liter Amber Jars	mL Poly Bottle	Liner Acetate	Extractable Purgeable Fuel Scan fstandart (w/MFBE & Slica yel-deanlip) ByEY()	Gasoline & ETEX MTBE by EEA Methody 8015M & 8028	Votable Organics by EVA Metrics# 8260	SemPolatile Organics	Euel Oxygenates	13 PPM Metals	PUFT 5 Metals	
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5.)			<u>-</u>		>				-	 :	Ambient	Refrigerated	Frozen		
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Please split water portion from received AMBERS to provide required sample volume w/minimal sediment

Large-Diameter Auger Excavation of Impacted Soil 19984 Meekland Avenue, Hayward, CA February 8,2002

APPENDIX C

Certificate of Disposal for Contaminated Groundwater &
Non Hazardous Soil Waste Manifests

IWM, Inc.

ORIGINAL

Facility Name:

Harbert Transportation

INTEGRATED WASTESTREAM MANAGEMENT, INC. 950 AMES AVENUE, MILPITAS, CA 95035 PHONE: 408.942.8955 FAX: 408.942.1499

Jerry Harbert

Generator Name:

CERTIFICATE OF DISPOSAL

Indian V 760-772	Vells, CA 92210 -4545	Facility Cor	-44-	Hayward, CA
760-772	4545	Facility Cor		
760-772	-4545		itact:	Aaron Bierman, Webber, Hayes
		Phone:	-	831-722-3580
	IWM Job #:	91887-1 3,000 Gal		
	<u> </u>	Non-Haza	rdou	S
		Wate	er	- THE Grand
	Removal Date:	January 10	, 200	2
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Inform	ation	Dianaga	1 Eo	aility Information
111101111		Disposa	ига	omity information
A, Inc.		Name:	Seape	ort Environmental
		Address:		Seaport Blvd
	·	<u>-</u>		vood City, CA 94063
) 942-895:	5	Phone:	650-3	364-6158
AND DIS	POSED AT THE DESI	IGNATED FAC	CILIT	Y IN ACCORDANCE WITH
	A, Inc. Ames Aveoitas, CA 9 942-895	Ames Avenue bitas, CA 95035) 942-8955 CERTIFIES THAT THE ABOVE AND DISPOSED AT THE DESI	Ames Avenue Address: oitas, CA 95035) 942-8955 CERTIFIES THAT THE ABOVE LISTED NOT AND DISPOSED AT THE DESIGNATED FAC	Ames Avenue Seaper Address: 675 States, CA 95035 Redw

William 2.

Authorized Representative (Print Name and Signature)

William T. DeLon

1-10-02

Date

· ☐ Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZA	RDOUS WA	STE MANIFES	ST				
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(760) 772-4345		DTY-VEK O	OTHER				
CONTACT PERSON		ODECIAL HAND	DLING PROCEDURI	=0.			
Jerry Harbory		SPECIAL HANL	JUNG PHOCEDURI	= 5:			
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE						
*							
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation and regulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261. WASTE TYPE:	ording to applicable azardous waste en treated in	RECEIVING FA	CILITY				
□ DISPOSAL □ SLUDGE □ CONSTRUCTION □ WOOD □ DEBRIS □ OTHER □ SPECIAL WASTE GENERATING FACILITY		HARPIER	> 7				
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I hereby certify that the above named material		21.08	3				
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Keller Ca	nyon
Sanitary	Landfil
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Pittsburg .565 58-9800 Phone (9, Fax (925) 45d-9891

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12310 San Mateo Road Half Moon F. J. CA 94019 Phone J. J. 726-1819 Fax (650) 726-9183

□ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

	Forward
- 15	Landfill
	9999 S. Austin Road Manteca, CA 95336
	Manteca, CA 95336

Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZA	RDOUS WA	SIEWA	VILE2 I		
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PHONE					
CONTACT PERSON		O TY-VE			
terry Harbert		SPECIAL	HANDLIN	IG PROCEDURES	:
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE	1			
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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation attack regulations; AND, if the waste is a treatment residue of a previously restricted h subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the regularments of 40 CFR Part 288 and is no longer a hazardous	not a hazardous has been properly ording to applicable azardous waste en treated in waste as defined by	RECEIVI	NG FACILI	TY	· !
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I hereby certify that the above named material accepted and to the best of my knowledge the				21.21)
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL - ANY UNSCHEDULED LOADS ARE SUBJECT

· ☐ Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9600 Fax (925) 458-9891

Ox	Woun	itain
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12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-3319 Fax (650) 726-9183

Newby IslandSanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

		1					· · · · · · · · · · · · · · · · · · ·
GENERATOR		-	WA	STE ACC	EPTANC	E NO.	
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(760) 772-4343		☐ TY-VEK	OTH	HER .			
CONTACT PERSON		SPECIAL	HANDLIN	IG PROCE	DURES:		
Jerry Perhert	IDATE.	-					
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE	-{					
*							-
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is a waste as defined by 40 CFR Part 281 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation and regulations; AND, if the waste is a treatment residue of a previously restricted subject to the Land Disposal Restrictions, I certify and warrant that the waste has been accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 281.	has been properly ording to applicable azardous waste en treated in	RECEIVII	NG FACILI	TY		· · · · · · · · · · · · · · · · · · ·	
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

☐ Keller Canyon Sanitary Landfill 901 Bailey Road

Pittsburg, CA 92565 Phone (925) 458-9800 Fax (925) 458-9891

Ox	Moun	itaii	n
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12310 San Mateo Road Half Moon Bay CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

□ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☑ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is reaste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation accoregulations; AND, if the weste is a treatment residue of a previously restricted he subject to the Land Disposal Restrictions, I certify and warrant that the waste has bee accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous to	rding to applicable	RECEIVING	S FACILIT	V		
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT

☐ Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

☐ Ox MountainSanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby IslandSanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

☐ Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891 Ox Mountain Sanitary Land 12310 San Mateo F Half Moon Bay, CA Phone (650) 726-9183	Road 94019 819 3	Sanita 1601 Dix Milpitas, Phone (4 Fax (408	y Island ary Landf on Landing CA 95035 408) 945-280 3) 262-2871	Road	999 Mai Pho	rward ndfill 19 S. Austin Road nteca, CA 95336 one (209) 982-4298 ((209) 982-1009
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SIGNATURE OF AUTHORIZED AGENT

□ Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800

Fax (925) 458-9891

Ox Mountain
Sanitary Landfil
12310 San Mateo Road
Half Moon Bay, CA 940

d 019 Phone (650) 726-1819 Fax (650) 726-9183

Newby Island
Sanitary Landfill
1601 Dixon Landing Roa

ad Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill 9999 S. Austin Road Manteca, CA 95336

Phone (209) 982-4298

Fax (209) 982-1009

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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT Sanitary Landfill 901 Bailey Road

Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

□ Ox ¹ untain Ç. ary Landfill

San Mateo Road oon Bay, CA 94019 ÷ (650) 726-1819 150) 726-9183

Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

 □ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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MANIFEST # 3 3 2 4

Keller Canyon
Sanitary Landfill
901 Balley Road

901 Balley Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR	WASTE ACCEPTANCE NO.					
Jerry Harbert						
MAILING ADDRESS	1539					
46763 Mountain Come Ex. CITY, STATE, ZIP	REQUIRED PERSONAL PROTECTIVE EQUIPMENT					
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	Keller Canyon
	Sanitary Landfill
	901 Bailey Road
r.	Pittsburg, CA 94565
; ;	Phone (925) 458-9800

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12	Forward
	Landfill
	9999 S. Austin Road
	Manteca, CA 95336
	Phone (209) 982-4298
	Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

### WASTE ACCEPTANCE MAILING ADDRESS	EQUIPMENT
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL - ANY UNSCHEDULED LOADS ARE SUBJECT

☐ Keller Canyon Sanitary Landfill

901 Balley Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

Ox	Mour	itain
Sar	nitary	Landfil

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby IslandSanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation a code regulations; AND, if the waste is a treatment residue of a previously restricted he subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and Is no longer a hazardous	en treated in	RECEIVING	FACILITY			
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SCHEDULING MUST BE MADE PRIORTO 3:00 P.M. THE DAY PRIORTO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

☐ Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

☐ Ox MountainSanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby IslandSanitary Landfill

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Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 281 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation after regulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Disposal Restrictions, I certify and warrant that the waste has been accordance with the requirements of 40 CFR Part 288 and is no longer a hazardous 40 CFR Part 281.	has been properly arding to applicable exardous waste en treated in	RECEIVIN			1	
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

☐ Keller Canyon Sanitary Landfill 901 Balley Boad

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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	Sanitary	Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby IslandSanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

	MDOUS WA	O 1 E 1017-51	·		
GENERATOR			WA	STE ACCEPTA	NCE NO.
Mary Recoert					
MAILING ADDRESS 46765 Mountain Cove Dr.			4	1539	
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Indian Wells CA 9223d		QGLOVE		GGLES GRESP	
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Anger (American)		SPECIAL	. HANDLIN	IG PROCEDURES	3:
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE				
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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation a coording to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste aubject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			NG FACILI	TY	
WASTE TYPE:					
☐ DISPOSAL ☐ SLUDGE ☐ WOOD ☐ DEBRIS ☐ OTHER ☐ SPECIAL WASTE					
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

NON LIATADDONIC WASTE MANIETET

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations described, classified and packaged, and is in proper condition for transportation and regulations; AND, if the waste is a treatment residue of a previously restricted in subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261. WASTE TYPE:	, has been properly ording to applicable rezardous waste sen treated in	RECEIVIN	G FACILI	ΤΥ		
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT

Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800

Fax (925) 458-9891

Ox Mountain
Sanitary Landfill
12310 San Mateo Road
Half Moon Ray, CA 94019
Phone (650) 726-1819

Fax (650) 726-9183

Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

Lanomi
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

Forward

NIALI 118 WEINS ALIA 1814 ATE BELLETOT

NON-HAZA	HDOUS WA	SIE MANIFESI					
GENERATOR		WASTE ACCEPTANCE NO.					
Jerry Harbert							
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4760) 772-4545		ן יי דא-∧פע יי סו	THER				
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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as delined by 40 CFR Part 281 or title 22 of the California code of regulations described, classified and packaged, and is in proper condition for transportation are regulations; AND, if the waste is a treatment residue of a previously restricted h subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261. WASTE TYPE:	ording to applicable nazardous waste sen treated in	RECEIVING FACI					
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Sanitary Landfill 901 Bailey Road

Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

☐ Ox Mountain

Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650), 726-9183

□ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward ■ Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

NIAN DIAMANANANA MARAAMEERAT

NON-HAZAI	HDOUS WA	SIE WA	MILES					
GENERATOR		WASTE ACCEPTANCE NO.						
Jerry Hustern		ļ <u></u>						
MAILING ADDRESS 46.76.5 Administrative Dr.		-						
CITY, STATE, ZIP		REQUIRED PERSONAL PROTECTIVE EQUIPMENT						
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(760) 772-48a)		D TY-VE	C OTH	IER				
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL - ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

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Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation a cording to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			NG FACILI	TY			
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Sanitary Landfill 901 Bailey Road

Pittsburg, CA 94565 Phone (925) 458-9800 -Fax (925) 458-9891

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	Sanitary	Landfil

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

4	F	orward
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9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is r waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation areo regulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Olsposal Restrictions, I certify and warrant that the waste has bee accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous of 40 CFR Part 261.	ording to applicable exardous waste	RECEIVIN	G FACILI	ΤΥ	<u> </u>				
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Keller Canyon
Sanitary 1 andfill 901 Baild 458 ad Bittebur 458 - 1565
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Phone (9 9800 Fax (925). *3*891

Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

■ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation a cording to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 266 and is no longer a hazardous waste as defined by 40 CFR Part 261.		RECEIVIN	IG FACILI	TY		,		
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☐ Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

Ox Mour	ntain
Sanitary	Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 F:hone (408) 945-2800 Fax (408) 262-2871 Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST								
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☐ Keller Canyon Sanitary Landfill 901 Balley Road

90† Balley Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

_]	Ox Mour	itain
	Sanitary	Landfill

12310 San Mateo Road Half Moon Bay .4019 Phone (650)* . .319 Fax (650) 726-9183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill 9999 S. Austin Road Manteca, CA 95336

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT:
TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Keller Canyon
Sanitary Landfill
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901 Bailey Road Pittsburg, CA 94535 Phone (925) 458-9800 Fax (925) 458-9891

Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward ■ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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MANIFEST # 333

☐ Keller Canyon Sanitary Landfill 901 Balley Road Bitteburg CA 94565

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

☐ Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

□ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR				WASTE ACCEPTANCE NO.						
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT O REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

l	Ox Moun	itain
	Sanitary	Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

☐ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation and regulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261 WASTE TYPE: DISPOSAL CONSTRUCTION WOOD DEBRIS DOTHER	has been properly ording to applicable azardous waste on treated in	RECEIVIN	G FACILI	TY 2460 248		(
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST # 1 3 3 4 0

Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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Sar	nitary	Landfil

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby IslandSanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation a corregulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261.	, has been properly ording to applicable azardous waste en treated in	RECEIVING FACILI	TY	
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Keller Canyon
Senitary Landfill
901 Bailey Road

Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

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■ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is a waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation a corregulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Disposal Restrictions, I certify and warrant that the waste has bee accordance with the reguliements of 40 CFR Part 268 and is no longer a hazardous.	rding to applicable szardous waste en treated in	RECEIVIN	G FACILIT	Y		
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Sanitary Landfill

901 Bailey Road Plttsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

Ox Mountain Sanitary Landfill

12310 San Mateo Road Haif Moon Bay, CA 94019 Phone (650, 726-1819 Fax (650) 726-9183

□ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

□ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOLIC WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is n waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, I described, classified and packaged, and is in proper condition for transportation a corregulations; AND, if the waste is a treatment residue of a previously restricted ha subject to the Land Disposal Restrictions, I certify and warrant that the waste has bee accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous w	RECEIVING	FACILIT	Ŷ				
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT

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Jy Road Jurg, CA 94565 .ione (925) 458-9800 Fax (925) 458-9891

☐ Ox Mountain Sanitary Landfill

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

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□ Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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NON-HAZA	RDOUS WA	SIC MANIFES!		
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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations described, classified and packaged, and is in proper condition for transportation are regulations; AND, if the waste is a treatment residue of a previously restricted he subject to the Land Disposal Restrictions, I certify and warrant that the waste has be accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous	, has been properly ording to applicable exardous waste en treated in	PECEIVING FACIL) TY	
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☐ Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800

Fax (925) 458-9891

Ox Mountain
Sanitary Landfill
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Phone (650) 726-1819 ;
Fax (650) 726-9183

Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

	Forward
* 19,	Landfill
	9999 S. Austin Road
	Manteca, CA 95336
	Phone (209) 982-4298
	Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

							
GENERATOR		4	WAS	TE AC	CEPTAN	ice no	•
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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is rewaste as defined by 40 CFR Part 281 or tille 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation a roo regulations; AND, if the waste is a treatment residue of a previously restricted he subject to the Land Disposal Restrictions, I certify and warrant that the waste has bee accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous of 40 CFR Part 261. WASTE TYPE:	rding to applicable	RECEIVING	FACILIT	Υ			
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SALES COPY

MANIFEST # 1 3 5 9 4 5

Keller Canyon
Sanitary Landfill

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L	Ox	Moun	itain
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Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298

Fax (209) 982-1009

						
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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 1 3 3 4 5

LI Keller Canyon Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

니 Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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GENERATOR'S CERTIFICATION: I hereby certify that the above named material is a waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, described, classified and packaged, and is in proper condition for transportation after regulations; AND, if the waste is a treatment residue of a previously restricted his subject to the Land Disposal Restrictions, I certify and warrant that the waste has been accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous 40 CFR Part 261.	has been properly ording to applicable	RECEIVING	FACILIT	Υ			
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Sanitary Landfill

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

Ox	Moun	ntain
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12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009

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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

Sanitary Landfill 901 Bailey Road Bitteburg CA 94565

901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891

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12310 San Mateo | ad Half Moon Bav CA 24019 Phone (650) 3-1819 Fax (650) 726- 183

☐ Newby Island Sanitary Landfill

1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871

Forward Landfill

9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax*(209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

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SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.



Large-Diameter Auger Excavation of Impacted Soil 19984 Meekland Avenue, Hayward, CA February 8,2002

APPENDIX D

Field Methodology for Groundwater Monitoring



Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159 INDICATE ATTACHMENTS THAT APPLY

Data Sheets
COC's
Site Map
Photo Sheet

Chargeable Materials

Job Name: Harbert Transportation	Date: 12/18/01
Field Location: 19984 Meekland Avenue, Hayward	Study #: H9042.Q
Field Tasks: Drilling Sampling Tother 4th Quarter 2001 Well Sampling	Weather Conditions: P-t-Cool.

רו דינוניי	WORK PLANNING: Performed on: 12/17/01
a	wheel with project manager. A yes, of no.
(Meet with project manager: X yes, or no. Number of wells to be sampled: Ten Wells, with D.O in all wells Sample wells: MW-3, 4, 5, 6, 7, 8, 9, 10, 11, 12 for TPH-g, BTEX, and MTBE.
V	Proposed sampling date: 12/18/01
IME:	ও প্রত Arrive onsite to perform <u>৭৮</u> Quarter Monitoring Well Sampling.
A	COMMENTS: Send all analytical to Entech Analytical Laboratory.

INITIALS:

-All sampling is conducted according to Standard Operating Procedure (SOP) 10I/

-Water Quality Sampling Information for each well sampled is recorded on following pages.

-Upon sampling, all samples are placed immediately in coolers containing blue ice.

-After sampling each well all equipment is decontaminated according to SOP 10B/.

-All purge water is properly disposed in 55-gallon drums to be purged at a later date.

-All samples are recorded on field Chain-of-Custody Sheets for transport to Laboratory.

BEGIN CALIBRATION:

 $\mathcal{O}(\mathbf{pH}, EC, Temp Meter # 1 : Temp = 514 p, pH = 1.0 & 0.0, EC = 1413 % -$

Dissolved Oxygen Meter: Red-line Therefore, Dissolved Oxygen in fresh water.

BEGIN SAMPLING ALL WELLS:

MU-8 MU-1 MU-11 MU-7 MU-0 MU-6 MU-5 MU-9
-See information below for general monitoring well information this sampling round.

COMMENTS:

All well will be purged of four casing volumes in the column requiring sampling (see Water Quality Sampling Field Forms for details). Wells will be purged from bottom-up and will follow standard operating procedures by WHA. Wells will be sampled using a bladder pump, or disposable bailer.

| Signature of Field Personnel & Date

P:\AJOB\H9042.hbt\QM\Qm2001\4q01\4QFL,wpd



Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

120 Westgate Dr., Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159

Location	GW Depth (TOC)	Total Depth of Well	D.O. (mg/L)	Floating Product (comments).
Mu.3	23.5°	40.	NA_	No FP, Very Slight Octor
Mw.4	23.80.	40'		NoFP, No Odor
Mw.5	25.18.	45'		NOFP, Hyb Odor
MW.6	24.16.	45,		NOFP, Moderte Odo
_ww.t	24·7v·	40'		No FP, No Odor
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MW-10	21.11	Чо.		No FP, Very Slight Oder
WD-//	23.34	40		No FP, No Odor
MW.12	24.191	40.		No FP, No Odor
12/18/	N			
				

HOW MANY PURGE DRUMS WERE LEFT ONSITE 7. APPROXIMATE GAL. 350. CALL BAYSTOE OIL ON 1802 TO HAVE DRUMS PURGED.

DRUMS WILL BE PURGED ON 114-18/02.

COMMENTS:

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০%১১	45	529	18.5	6.67	1	V			V	
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			Calculat	e 80% of orgina	ıl well volum	ie:		1		
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Bladder Pump Submersible Pump Submersible Pump Mulper adverse Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Sylvaling Reduction Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Number adverse Requested (cricle all that apply): Sylvaling Requested Reque				· · ·	rylic_		XDi	sposable Bailer	
Submersible Pump Analyses Requested (cricle all that apply): Number and Types of Bottle Used: SYNOLIDED: PH-space Stockers Stockers Stockers Intrinsic Bio-Peremetere Well Number: Depth to Water: 2		<u> x</u>	_				W	haler#	
Analyses Requested (cricle all that apply): The gas TENTER + 2004 EBS, case Foot Crygenates TPH dissel, Stockard Solvent- Intrinsic Bior Perameters Well Number: Well Diameter: 2" with Casing Volume of. 2" = (0.16 Gallon/Fest) Per (0.6 GS Gallon/Fest) At = (0.6 GS Gallon/Fest) Well Diameter: 2" with Casing Volume of. 2" = (0.16 Gallon/Fest) At = (0.6 GS Gallon/Fest) At = (0.6 GS Gallon/Fest) At = (0.6 GS Gallon/Fest) Bis = (1.2 C Gallon/Fest) S" = (1.2 C Gallon/Fest) F" = (1.47 Gallon/Fest) Bis = (2.61 Gallon/Fest) Bis = (2.61 Gallon/Fest) Transportation: Courter Time Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (24 hr.) Purped Conductivity Temperature (25 hr.) Purped Conductivity Temperature (26 hr.) Purped Conductivity Temperature (27 hr.) Purped Conductivity Temperature (28 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (29 hr.) Purped Conductivity Temperature (20 hr.) Purped Conductivity Temperature (20 hr.) Purped Conductivity Temperature (20 hr.) Purped Conductivity Te			_	•				·	
The disease Succident Solvent Supernates Well Diameter: 2' with Casing Volume of: 2' = (0.16 Sallon/Feet) Well Number: 23.30' TOC			_Submersi	ble Pump			\$ı	ıbmersible Pump	
Time Conductivity Temperature pH Turbidity: Color, Fines D.O. (ppm)		Analyses	Requeste	d (cricle all tha	t apply):		Number and Typ	es of Bottle Used:	
Well Number:			-		Fuel Oxygenate	rs	5xyam LUT	()	
Well Number: Depth to Water: D	7			· · · · · · · · · · · · · · · · · · ·					
Depth to Water: 23.80 TOC TO	-	Intrinsic B	o. Parame	e rs -					
Well Depth: 40. BGS or TOC 44 = (0.35 Gallon/Feet) Helight W-Column: 16.2.0 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet) Gallons to purge: 10.34 gallons (volume X height) 6" = (1.25 Gallon/Feet) Lab: Ent.		• •			- -		Well Diameter:		
Height W-Column: 15.20 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet) Volume in Welt: 2.512 gallons (casing volume X 4) 8" = (2.61 Gallon/Feet) 8" = (2.61 Gallon/		•				:			
Volume in Well: Gallons to purge: Lab: Etail Transportation: Transportation: Courter Transportation: Courter Transportation: Transportation: Transportation: Courter D.O. (ppm) D.							to water)		
Time (24 hr.) (pallons) Conductivity Temperature (pH Turbidity: Color, Fines D.O. (ppm) O117 D 551 17.1 6.74 1h: Brown, Many Fines A.A. O119 Z 623 18.1 6.82 Made: R.Brown, Mary Fines D.O. (ppm) O128 4 600 18.8 6.86 Low: Clear TraceFines O134 6 603 19.0 6.36 Low: Clear TraceFines O137 10 605 19.1 6.36 O137 10 605 19.1 6.36 Low: Clear TraceFines Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 30% of organal well volume: Original Height of Water Column = 16.20 x 0.8 = 12.96 (Well Depth) 40 = Depth to water Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing				2.512			X height)		
Time (24 hr.) Volume Purged (Gallons) O 117 O 551 17.1 6.74 High! Brown Many Fines O 119 Z 683 18.1 6.82 Medical Plans Many Fines O 128 4 660 18.8 6.36 Pour Clear Trace Fines O 138 10 605 19.1 6.36 STDP - Pune Complete. See Below Catalities Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of organal well volume: Original Height of Water Column = 16.20 x 0.8 = 12.96 (Well Depth) 40 = Depth to water 27.04 Time: O 141 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes N		Gallons to	•	10.34	_gallons (volu	ıme X 4)			2.61 Gallon/Feet)
Time: OP4 Sample ID: Mark Turbidity: Color, Fines D.O. (ppm)	_	Lab:	Entech			-	Transportation:	Courser	
O 917 D 55 17.1 6.7 4 11.1 18 Nows, May Fines Make 18.1			Purged		Temperature	рН	Turbidity	/: Color, Fines	D.O. (ppm)
0 919 2 6 83 18.1 6.82 Mature: Basin ModFins		0917	0	551		6.74	Hyl: Brown.	Many Fines	NA:
O 939	-	0 419	2	583	1.8.1	6、滁 之		•	
O 934 b 63 19.0 6.36 cow: Clear Tree Fines O 934 8 604 19.1 6.36 O 937 10 605 19.1 6.36 STOP - Pure Complete. See Below Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of organal well volume: Original Height of Water Column = 16.20 × 0.8 = 12.96 (Well Depth) 40 = Depth to water 27.04 Time: O 941 1st measured depth to water, 23.81 feet below TOC. Is well within 80% of original well casing volume: Yes No Is well within 80% of original wel			7	660					
O936 8 604 19.1 6.36 O939 12 606 19.1 6.36 STOP- Page Complete. See Balone. Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 x 0.8 = 12.96 - (Well Depth) 40 = Depth to water 27.04 Time: O941 1st measured depth to water, 23.86 feet below TOC. Is well within 80% of original well casing volume: Yes No Is well within 80% of or	1	0934	Ь	603	19.0	6 . 36			
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 × 0.8 = 12.96 - (Well Depth) 40 = Depth to water 27.04 Time: O141 1st measured depth to water, 23.86 feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 25 Sample Well Time: O141 Sample ID: MD.4 Depth: 23.86 feet below TOC		0936	8	604	19.1	6.36			
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 × 0.8 = 12.46 - (Well Depth) 40 = Depth to water 27.04 Time: O941		0137	10	605	19.1	6.36			
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 x 0.8 = 12.96 - (Well Depth) 40 = Depth to water 27.04 Time: 0941 1st measured depth to water, 23.86 feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 2st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 2st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 2st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 2st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 2st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 2st measured depth to water, feet below TOC.		0939	12	606	19.1	6.36		<u> </u>	
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 x 0.8 = 12.96 - (Well Depth) 40 = Depth to water 27.04 Time: O941 1st measured depth to water, 23.86 feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No Sample Well Time: O941 Sample ID: MU.4 Depth: 23.86 feet below TOC		-90T2	Pune	malete S	re Below				
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 × 0.8 = 12.96 (Well Depth) 40 = Depth to water 27.04 Time: 0941	l	7	1 () [· · · · · · · · · · · · · · · · · · ·	
Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of orginal well volume: Original Height of Water Column = 16.20' x 0.8 = 12.46' - (Well Depth) 40' = Depth to water 27.04 Time: O941	L	101101		Wait for 8	30% well vo	olume rec	overy prior to s	sampling.	
Calculate 80% of orginal well volume: Original Height of Water Column = 16.20 × 0.8 = 12.96 - (Well Depth) 40 = Depth to water 27.04 Time: O941								• •	
Time: O941 1st measured depth to water, 23, 86 feet below TOC. Is well within 80% of original well casing volume: Yes No seet below TOC. Is well within 80% of original well casing volume: Yes No seet below TOC. Is well within 80% of original well casing volume: Yes No Sample Well Time: O941 Sample ID: MO.4 Depth: 23.86 feet below TOC	_			<u></u>		· 			
Time: 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No			Original He	ight of Water Colun	n = 16.20	× 0.8 = 12.4	16' - (Well Depth) 4	0' = Depth to water <u>2</u> 7	104
Time:1st measured depth to water,									/
Time:									
Time: 094 Sample ID: MO.4 Depth: 73.86 feet below TOC		- T							-
Time: 094) Sample ID: MO.4 Depth: 73.86 feet below TOC	•		70(11100000)		1997	DEIDW 100.	13 4404 444411 30 /0 0	Tonginal Well casing volum	10. 100110
Time: 094) Sample ID: MO.4 Depth: 73.86 feet below TOC						Sample 1	<i>N</i> eli		
									
		Time:	0941		Sample ID:	ML	١. ٩	Depth: 7381	feet below TOC
		-	, , , , , , , , , , , , , , , , , , , ,						

Project I	Name/No.:	Horber FTnn	spurt hun H	90120	Date: [2 9 0]	
Sample !	No.: ML	ا ۱ ۱۰ ۱		, , , , , , , , , , , , , , , , , , , ,	Sample Location: MO・12	· .
Sampler	s Name: (ChatTayl-			Recorded by: CT	
Purge Ed	quipment:	1	,"		Sample Equipment:	
	Bailer: Di	sposable or Ac	rylic		X Disposable Bailer	i
X	_ Whaler #		• •		Whaler #	1
	_ Bladder P	•			Bladder Pump	
	_ Submersil	ble Pump			Submersible Pump	
		d (cricle all tha			Number and Types of Bottle Used:	
		2-DCA, EDB, 8260	Fuel Oxygenate	<u>s '</u>	5x40mluta;	
	el, Stoddard ilo, Paramet		······································			
Well Num		MUIZ			Well Diameter: 2" with Casing V	/oh ma of:
Depth to		24.44	TOC			6 Gallon/Feet)
Well Dep		40.	BGS or TOC		4" = (0.6	5 Gallon/Feet)
Height W Volume i		15.51	feet (well de			2 Gallon/Feet)
Volume II Gallons t		2.4816 9.92 <i>69</i>	_galions (casi _galions (volu			7 Gallon/Feet) 1 Gallon/Feet)
Lab:	Ente. h	1. 1. GO7	_ 9		Transportation: Course	
	l Volume		1	·		
Time (24 hr.)	Purged (Gallons)	Conductivity (µs/cm)	Temperature	рН	Turbidity: Color, Fines	D.O. (ppm)
1008	0	547	17.6	6.43	Hyh! Brown, Mary Fines	NA
1009	2	549	18.0	6.SO	, ,	
1010	4	553	18.2	6.52	Moderate: Bown Moderationes	
1012	6	557	18.2	6.54	J	
1014	8	559	18.2	6.34		
1013	10	.566	18-2	6 55	Low Clear-Boury Minertus	
1017	12	<u> 561</u>	18.2	6.57		V
5DR-	Purae Con	plete. See	Below			
\ct 12	1, 0	1				
		Wait for 8	30% well vo	olume rec	overy prior to sampling.	
		Calculate de	pth to water	(from TOC),	for 80% well volume recovery:	
				e 80% of orgina		;
	Original He	ight of Water Colun	nn = 15 71	<u>ارتا</u> = 8.0 ×	108" - (Well Depth) 40" = Depth to water 27. 51	- !
Time: 1019	1st measure	d depth to water, _	24.58' _{feet}	below TOC.	Is well within 80% of original well casing volume:	Yes No
fime:		d depth to water,		below TOC.	Is well within 80% of original well casing volume:	Yes No
rime: _\\	1st measure	d depth to water, _	T feet	below TOC.	is well within 80% of original well casing volume:	Yes No
						1
		·····		Sample \	Well	,
Time:	1019		Sample ID:	MU	2.12 Depth: 24, 58 fe	et below TOC
^		ELLT	1 1	0.1		
Comments	. <u>N</u>	· Floating Pi	oduct. N	o Udac		
	- APENIDA	· · · · · · · · · · · · · · · · · · ·				WHA

Project N	lame/No.:	Habert Tr	-spurtata	19045.Q	Date: 12 18 01		
Sample !	10.: M	<u>u.ll</u>			Sample Location:	Mw.11	
Sampler	s Name: 🤇	Theol Tayl-	9		Recorded by:		
Purge Ed	quipment:	1			Sample Equipment	:	
		isposable or Ac	rylic_			osable Bailer	
<u>X</u>	_Whaler#		`			er#	
	_ Bladder F	•				der Pump	
		ble Pump				nersible Pump	
		d (cricle all tha			Number and Types		
-	el, Stoddard	_2-DCA, EDB, 8260 1 Solvent) i del Oxyganate	is .	5840	ml UM's	
	io. Parame						
Weil Num		MJ·II	· · · · · · · · · · · · · · · · · · ·		Well Diameter:	2 with Casing	Volume of:
Depth to		25.39.	TOC			2" = (0.	16 Gallon/Feet)
Well Dept		40	BGS or TOC				65 Gallon/Feet)
Height W		16. 61'	_feet (well de				02 Gallon/Feet)
Volume in Gallons to		7.6576	gallons (cas: gallons (volu		k neight)		47 Gallon/Feet) 31 Gallon/Feet)
	Entech	<u> </u>	_galloris (voic	iiiie A +/	Transportation:	Consier	on Callottin eet)
Lau.					Transportation.	CARLER	
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature	pHi	Turbidity: C	otor, Fines	D.O. (ppm)
1053	0	749	15.3	5.65	High! Brown	Many Frances	NA
10 55	2	୫ ୯ ଏ	17.6	5.20	7, 7	7,	
1056	4	814	17.8	578	Modente: Brown	ModFins	
1058	6	820	17.9	5.28	_	own Minortus	
1/00	8	851	17.9	5.35	J V	<u> </u>	
1101	19	857	17.9	5.41	Low: Clear	TraceFines	
1/03	12	825	17.9	5.27	Λ Λ,	J	V
5TDP-	Paras	Complete: S	کو د ا ول یا				
100	11.	l l					
<u> </u>	<u> </u>	Wait for 8	30% well vo	olume rec	overy prior to sa	mpling.	
		Calculate de	pth to water ((from TOC),	for 80% well volume r	ecovery:	,
				e 80% of orgina			
	Original He	eight of Water Colum	ın ≈ <u>16.61'</u> ;	x 0.8 = <u>13.2</u>	88' - (Well Depth) 40'	= Depth to water 2.1.7	<u>(</u>
Time: ∥ ۵≤	1et mescure	ed depth to water,	フ3.49' feet	halow TOC	Is well within 80% of or	iginal well casing volume:	: Yes No
Time:		ed depth to water,	(below TOC.		iginal well casing volume:	· · · · · · · · · · · · · · · · · · ·
Time:	1st measure	d depth to water,	√ feet	below TOC.		iginal well casing volume:	· · · · · · · · · · · · · · · · · · ·
			·			-	1
				Sample V	Vell		
Time:	1105		Sample ID:	M	2.11	Depth: 23,49 fe	eet below TOC
Comments	: N.FI	onting Product	l. N- A	ما م د .			
		9		× U1 1			
CHESTACTOR	1271SL MB2						WHA 6

Samplers	Name: (2hol Tig	اح_		Recorded by: Marian					
Purge Eq	uipment:	1			San	nple Equ	ipment:			
		sposable or Ac	rylic_			X	Disposal	ole Bailer		
<u> </u>	_Whaler#	<u> </u>	- t				Whaler#			
	_Bladder P	•					Bladder i	•	,	
	_Submersit	ole Pump					Submers	ible Pump		
	~~	l (cricle all tha			Nun	nber and	Types of	Bottle Used:		
		2-DCA, EDB, 020	0 Fuel-Oxygenate							
	el, Stoddard			.			 			
	ie. Paramet		······································							
Well Num Depth to \		MW.7	тос		Well	Diamete	er: <u>५</u> "	with Casin	ig Volume	of:
Well Dept		24.70°	BGS or TOC	:				<u>4" = (</u>	0.16 Gall 0.65 Gall	on/Fee
Height W	Column:	<u> مت کا</u>	_ feet (well de	pth - depth t				5" = (1.02 Gall	on/Fee
Volume in		9.445	gallons (cas		X heig	ıht)			1.47 Gall 2.61 Gall	
Gallons to		39.78	gallons (volu	#(IC A 4)	_	,		`	z.o i gall	J111786
Lab:	Entech		·····	•	Tran	sportati	on: C	wher	····	
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature	рΗ		Τι	urbidity: Color,	Fines	D.O	. (ppm)
1134	0	5 <i>5</i> 2	16.5	1.26	11 ~	h: Brow	un, Ma	nyfi-s	M	4
1140	5	568	18.5	6.25	10	ر <u>ان: 0</u>	lear . T	myFi-s macoFines		}
1146	10	574	18.6	6.24			1			
11 52	١Ġ	574	18.6	6.23						
1159	20	574	18.6	6.23			<u> </u>			
1203	7.5	572	18.7	6.22						
1207	3১	573	18.7	6.23						<u> </u>
1211	<u>ک</u>	573	18.6	6.23						
1214	40	573	18.6	6.22		<u>, </u>	<u>↓</u>		_	<u> </u>
			80% well vo					_		
		Calculate de	epth to water	· · · · · · · · · · · · · · · · · · ·			olume reco	very:	· · · · · · · · · · · · · · · · · · ·	
	Original III-	ght of Water Colur		e 80% of orgina			h 40 ' - 5	anth to water 77	76.	
					<u>- 1 </u>	(well Debt	.n) <u>10</u> = D	epin to water <u>_2.1</u>	• 10	
ime: 1217	1st measure	d depth to water, _ d depth to water, _ d depth to water, _	25.36 feet	below TOC.	ls v	weil within a	80% of origina	il well casing volu	me: Yeş 👱	No
īme:	1st measure	d depth to water, _	feet	below TOC.			=	i well casing volu		<u></u>
īme: <u>\</u>	1st measure	d depth to water, _	feet	below TOC.	ls v	well within a	80% of ongina	ł well casıng volu	me: Yes	No
				Sample \	Nell					
		······································							· — · · · · ·	
Time:	1217		Sample ID:	Mu	.7		De	epth: <u>25.36</u>	feet belo	w TO

	No.: Mi		· · · · · · · · · · · · · · · · · · ·			le Loca		- vw .7		
		Charleyl	~			ded by:				
Purge Ed	quipment:	•			Samp	le Equip	oment:			
		isposable or Ac	ryli <u>c.</u>			_X	•	able Ba		
χ	Whaler#				Whaler #					
	_ Bladder F	,					•	r Pump		
	_Submers	ible Pump					Subme	rsible F	ump	
Analyses	Requeste	d (cricle all tha	t apply):		Numb	er and T	Types o	f Bottle	Used:	
TPH-gas(B	TEX,MTBE 4	, 2-DCA, EDB, 8260	Fuel Oxygenate	rs		5 x	40.	JOA'S		
TPH dies	el , Stoddar	d Solvent-								
Intrincie B	io. Parame	ters				· · · · · · · · · · · · · · · · · · ·				
Well Num	ber:	M\cs.'\			Well D	iameter	: 2	· w	ith Casing	Volume of:
Depth to		23.51	TOC						2" = (0,	16 Gallon/F
Well Dept Height W		40.	BGS or TOC		o watar)					65 Gallon/F
Volume it		16.41	_feet (well de galions (cas							02 Gallon/F 47 Gallon/F
Gallons to		10.50	gallons (volu			•				61 Gallon/F
Lab:				_	Transp	ortatio	n:	Cour	125	
	Volume	T	I	- 	1					1
Time (24 hr.)	Purged (Gallons)	Conductivity (µs/cm)	Temperature	рН		Turk	oidity: Col	or, Fines		D.O. (pp
1239	0	586	18.1	6.21	H.>	n1 B.	امرسو	Moole	de Frues	NA
1241	2	619	18.8	6.27	10	J : C	lear,	Tra	cc Frus	
1243	Ч	623	18.9	6.27		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
1245	<u> </u>	628	18.9	6.27						
1247	8	629	19.0	6.27			ļ			<u> </u>
1248	10	.629	19.0	6.27			<u> </u>			
12 50	12	126	19.0	6.27	4		<u>\</u>		<u>'</u>	<u> </u>
510P-	Purge	Complete. S	ec Below.			· 				
िय 12		\								
	<u> </u>	Wait for 8	0% well vo	olume rec	overy	prior t	o sam	pling.		
			pth to water (
			Calculate	e 80% of orgina	al well volu	me:				
	Original He	eight of Water Colum	nn = <u>16.41</u>	x 0.8 = <u>13.</u>	128'- (W	ell Depth)	<u>40'</u> =	Depth to	water <u>21.1</u>	37'
. ~ ~ ~			a = / 4·							
Time: 1230	1st measure	ed depth to water, _	<u>43.61</u> feet	below TOC.					asing volume asing volume	: Yes No
Time:	1st mageur	ed depth to water, _ ed depth to water, _	(K fact	helaw TOC					asing volume asing volume	
	iat illeaduit	acking water,	1201	. Dalow 1 OO,	ID WEI	-41GHH 00	,a or origi	11011 14011 1	WALLS ACTORISE	
				Sample \	Vell					
				Jan Ipio 1						
Time:	N_50	ilenty Product	Sample ID: _	Mw	.3		į	Depth:	23,69 f	eet below T

Project	Name/No.:	Hubert Tran	sport tim	14 9042.1	⊅ Date:	12/18/0	<u>l</u>			
Sample	No.: M	4.10			Sample	Location:	Mw.	10		
Sample	s Name: (Churtrayh	······································		Recorde	ed by: C	<u> </u>			
Purge E	quipment:	f	"		Sample	Equipmen	nt:			
	Bailer: Di	isposable or Acı	ylic_			χDisp	osable Ba	iler	'	
χ	Whaler #		• •			Wha	aler#			
	_ Bladder P						lder Pump		1	
	_ Submersi	ble Pump				Sub	mersible F	'ump	1	
	_	d (cricle all that			Number	and Types		Used:	!	
		2-DCA, EDB, 8260	Fuel Oxygenate	:5-		5740 m	LUOMS			
	el, Stoddard Bio. Parame							<u> </u>		
Well Nur					Well Dia	meter	4- \	ith Casing \	/oiume	of:
Depth to		21.11°	TOC		TTOII DIG			2 <u>"</u> = (0,1		
Well Dep	th:	40.	BGS or TOC					4" = (0.6)	55 Galloi	n/Feet)
	/-Column:	18.89	feet (well de					5" = (1.0		
Volume i Gallons i		12.2785	gallons (cas gallons (volu		(neight)			6" = (1.4 8" = (2.6		
Lab:	Entech	7777	gallorio (voic	IIII (C / A)	Transpo	rtation:	Conra		i Galloi	in detj
				•	7.4.1.5.55		C.BWY3	- Y		
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°F)	pН			Color, Fines			(ppm)
1324	0 5	911 833	18.9	6.88	Hilpis	mun, M	w. Clerr	Bmun, Minn	NV	
1235	10 15	828 826	19.0	6.39	Low: C	2/e-4 Tr	<u> </u>	r, Treefiers		Σ
1341	20	826	15.1	1.34	لياه يا	Cle		•		
1345	25	826	19.1	ે. 3 ન			• •			
1344	30	825	19.1	6.34						
1351	35	. 825	11.1	6.34						
1254	ч٥	92.5	14.1	6.34			····			
13 58	45	825	19.1	6-34						
1401	50	824	11.1	6.34	<u>U</u>	<u> </u>		U	$\frac{1}{\sqrt{1}}$	
			0% well vo				-		1 .	
		Calculate de	oth to water	<u>,</u>			recovery:			
	Original He	ight of Water Colum		e 80% of orgina x 0.8 = <u>15.11</u>			_= Depth to	water <u>24.89</u>	. !	
Time: <u>1503</u>	_ 1st measure	ed depth to water, _	23.28 feet	below TOC.				asıng volume:		_No
Time:	-	d depth to water, _		below TOC.				asing volume:		-W-
Time:	5 1st measure	d depth to water, _	to feet	below TOC.	ls well w	ithin 80% of c	original well c	asing volume:	Yes	_No
				Sample V	Vell				1	
Time:	1503.		Sample ID:				Depth:_	23.21 fe	et belov	v TOC
Comments	z. <u>x</u> _	Floating Prod	1. t. 11 .	51.17 nd	۸.				1	
Comment	· IV8	L 10 × 1 · · · J T WC	rae. Aug.	31471 00	54.1					
FEILDLOG/H2	O-OSI WB2									─WHA~6-3-99

Samplers	s Name: (CharlTZy L	•		Recorded by:					
	ulpment:		η		Sample Equipment:					
, argo Es	• •	sposable or Ac	rvlic		Camp		sposable E	Bailer		
X	- Whaler#	•			-		haler#			
	_ _Bladder P	ump					adder Pum			
	Submersi	ble Pump				Su	ıbmersible	Pump		
Analyses	Requeste	d (cricle all tha	t apply):		Numb	er and Typ	es of Bott	le Used:		
TPH-gas, B	EXMIBE) #	-2-DCA, 5DB, 8260	-Fuel Oxygenate	9 6 -		5x40~1	_UV74 >	·		
	el, Stoddard							······································	<u></u>	
Intrinsic B	io. Paramei	ers						·		
Well Num		Mu.6	~~~		Well D	iameter: _	<u>q, </u>	with Casing		
Depth to V		24.16°	TOC BGS or TOC	•					<u>16 Gallon/I</u> 65 Gallon/I	
Height W		20.84	feet (well de		o water)				02 Gallon/I	
Volume in		12.546	gallons (cas		(height))		6" = (1.4	47 Gallon/f	
Gallons to	: -	54.18	gallons (volu	ume X 4)				•	61 Gallon/F	
Lab: E	ntech			_	Transp	ortation:	Covy	\ (>		
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°F)	рН		Turbidit	/: Color, Fine	s	D.O. (p	
1440	0 5	633/121	17.4	424	4.14	Brown Louis Cherry Thy	Mouyon Jear, Tr	ince Francis	NA	
1447	10 15	627 629	19.1	7.17 730	1-000	Cherry Thy	eting Cle.	- True Fres		
1457	2025	631	19.2	7.32 7.64	Low: (Jery To	Fire	- Thechy		
1500	30	631	19.2	7.42	۷٥,	ای : د	car 7	Truckers		
1505	35	مدا	14.2	7.33			1			
1506	40	630	19.2	7.18						
1509	45	630	\9. L	7.08						
1512	50	629	19.2	7.16						
131.5	55	629	11.2	7.27	V		V	V	1	
		Wait for 8	30% well ve		overy	prior to	sampling	J.	<u> </u>	
		Calculate de	pth to water	(from TOC),	for 80%	well volum	e recovery	/: ,		
				e 80% of orgina						
	Original He	ight of Water Colun	JU = F0.91	x 0.8 =	(W	ell Depth) <u> </u>	5 = Depth	to water	_	
Time: <u>1517</u>	1st measure	d depth to water, _	2.5.71' feet	t below TOC.	ls well	within 80% o	f original well	casing volume:	: Yes	
Time: \		d depth to water, _	feet	below TOC.				casing volume:		
Time: 4	1st measure	d depth to water, _	\chi feet	below TOC.	ls well	within 80% o	f original well	casing volume:	: Yes N	
				Sample \	Veil					
Time: _	1517		Sample IĎ:	MU	٠ 6		Depth	:_ 25 .76 fe	et below 7	

Project N	lame/No.:	Itubert Tu	ebart pr	19042.6	Date: 12	19/01				
Sample N	lo.: M	<u>ی .</u>	·	, 	Sample	Location: Nい	·5	,		
Samplers	Name: (Chattyl			Recorde	d by: CF				
Purge Eq	uipment:	1	w .		Sample Equipment:					
	•	sposable or Ac	ryli <u>c</u>		χ	Disposable	Bailer	i I		
χ	Whaler #	_3	- x			Whaler#_		1		
	_Bladder P	-				Bladder Pu	•	1		
	_Submersii	ble Pump				Submersib	le Pump	1		
Analyses	Requeste	d (cricle all tha	t apply):		Number	and Types of Bo	ttle Used:	İ		
		-2-DCA; EDB, 8280	Fuel Oxygenate	rs.		5 x 40-2 VTA	<u>5</u>			
	I, Stoddare									
ntrinsie B i	e. Paramet	ers-								
Well Num		MU-5	_ TOC		Well Dian	neter: <u>4</u> "	_ with Casing V	/olume of: 6 Gallon/Feet)		
Depth to \ Nell Dept		<u>23.15'</u>	_TOC BGS or TOC					5 Gallon/Feet)		
leight W-	Column:	21.85	feet (well de	pth - depth t	o water)		5" = (1.0	2 Gallon/Feet)		
/olume in		14.2025	gallons (cas	ing volume	X height)			7 Gallon/Feet)		
Sallons to	- i i	56.85	_gallons (volu	ime X 4)			•	1 Gallon/Feet)		
_ab:	Entech			-	Transpor	tation: C.	urier			
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°F)	рН		Turbidity: Color, Fi		D.O. (ppm)		
1541 1552	0 5	616 604	17.5	6.65			Gry Mingefry	NA		
1558	10 15	610 604	19.019.2	6.70.68	Low. Che	Trace From Che	Thutius			
16021105	20 25	617 625	19.2	6.68		e.r. Tr-10 Fr-7	Clark Trans			
1608	30 35	626	19.0	6.65	Low: Cla	· Trucker	The Firs			
1616	40	620	18.8	6.65		: Clear T.				
1619	45	620	18.8	(. . . 5	1	1				
1623	50	623	18.7	6.65						
1626	55	627	18.7	6.68						
16	60	625	18.7	6.70	V	V	V	4		
					overy pr	ior to sampli	ng.			
	 	Calculate de	pth to water	(from TOC),	for 80% we	ell volume recove	ery:			
				e 80% of orgina			47 Pm	, • '		
	Original He	ight of Water Colum	n = 21.83	$\times 0.8 = \frac{14.9}{1}$	- (Well∃	Depth) <u>45°</u> = Dep	th to water <u>L1.3</u>	-		
ime: 1632	1st measure	d depth to water, _	39.65' feet	below TOC.	ls well wit	thin 80% of original w	vell casing volume:	Yes No_		
me: <u>\644</u>	1st measure	d depth to water, _	50 69' feet	below TOC.		thin 80% of original w	-			
me: <u>1653</u>	1st measure	d depth to water, _	27. 48 feet	below TOC.	ls well wit	thin 80% of original w	ell casing volume:	Yes No		
				0	A/!!			!		
				Sample \	AGII	···				
Time: _	1653		Sample ID:	Mw.5	5	Dep	th: <u>27.4%</u> fe	et below TOC		
)		171 7	1 610	121				1		
omments:	Y	UaFluating?	modul.	30 1 Dag	۲.					
DLOGHZO	SOSEWB2	V	· · · · · · · · · · · · · · · · · · ·	<u> </u>				WHA		

Samplers	s Name: (Chaltyl-			Reco	rded by:	CT		
Purge Eq			,			ole Equip			
9		isposable or Ac	rylic_		Curry	χ	Disposable E	3ailer	
χ	_ _Whaler#	<u>5</u>	·				Whaler#		
	_Bladder F	•					Bladder Pum	•	
	_Submersi	ble Pump					Submersible	Pump	
		d (cricle all tha	•		Numb		ypes of Bott		
-		2 DCA, 5DB, 8260 I Solvent	Fuel Oxygenate	28	<u> </u>	<u>5 x</u>	40ml VOM	<u> </u>	
	io: Paramel						· · · · · · · · · · · · · · · · · · ·		
Well Num	······································	MU-9			Wall C	Viamotor	. y	with Casing V	/aluma a of
Depth to \		<u> </u>	тос		AAGII L	Mainetei.	· — — ·		olume or: 6 Gallon/Fe
Well Dept		40'	BGS or TOC					4'' = (0.6)	5 Gallon/Fee
Height W- Volume in		16.62'	feet (well de gallons (cas						2 Gallon/Fee 7 Gallon/Fee
Gallons to		42.81	gallons (volu			,			1 Gallon/Fee
Lab:	Entach			_	Trans	portation	1: Cour	٠ رو پ	
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°F)	рН		Turb	idity: Color, Fine	3	D.O. (ppm)
170712	0 5	585 580	16.2	6.58.78	1474	1: Onk	60, N=-41 03: Cler	Gry Minitry	M
1715	lo	- 582	11,4	6.75	سما	: Cle-	1. Truce	Finis	
1718	15	587	19,4	6.71					
421	20	594	11.4	6.63					
1724	25	599	13.4	6.61					
1727	30	607	19,4	6.57					
1731	35	606	19.4	6.55					
1734	40	608	19.4	6.55					
1737	45	612	19.4	6.53	V	V	\		1
		Wait for 8	0% well vo		overy	prior to	sampling	J.	
			oth to water (from TOC),	for 80%	well vol			
	Opposet the	ght of Water Colum	Calculate	a 80% of orgina	i weil volu G L	ume:	u	26.7)
Time: <u>439</u>	1st measure	d depth to water,	<u> 23.78°</u> feet	below TOC	Is we	ll within 80°	% of original well	casing volume: casing volume:	Yes/No_
Time:	1st measure	d depth to water, d depth to water,	feet /T	below TOC.	ls we	ll within 809	% of original well	casing volume: casing volume:	Yes No
ıme: <u>_</u>	ist measurer	u uepin io water,	teet	pelow 1 OC.	is we	ıı within 80%	% of original well	casing volume:	1 G9 I/IO
				Sample V	Veil				
					<u>-</u>		·· · · · · · · · · · · · · · · · · · ·		
Time:	1739		Sample ID: _	Mu	9.9		Depth	: <u>2).78'</u> fee	et below TO
		FluntagP							

Large-Diameter Auger Excavation of Impacted Soil 19984 Meekland Avenue, Hayward, CA February 8,2002

APPENDIX E

CERTIFIED ANALYTICAL RESULTS FOR QUARTERLY MONITORING

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

January 03, 2002

Chad Taylor Weber, Hayes and Associates 120 Westgate Drive Watsonville, CA 95076

Order: 28266

Project Name: Harbert Transportation

Project Number: H9042.Q

Date Collected: 12/18/01 Date Received: 12/19/01

P.O. Number: H9042.Q

Project Notes:

On December 19, 2001, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u> Liquid

Gas/BTEX/MTBE

Method

EPA 8015 MOD. (Purgeable)

EPA 8020

EPA 8260B

MTBE by EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple I	D: 2826	6-001		Client Sam	ple ID: MV	V-3	1
Sample Time:		Sam	ple Dat	e: 12/18	3/01			Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	1.6		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Toluene	1.7		i	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Ethyl Benzene	13		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Xylenes, Total	5.4		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
••••••••••••••••••••••••••••••••••••••					Surroga	ite	Surre	ogate Recovery	/ Contro	l Limits (%)
	•			aaı	a-Trifluoro	toluene		94	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
[victifyi-t-outyi Editor					Surroga		Surr	ogate Recovery	y Contro	l Limits (%)
				aa	a-Trifluoro	toluene		94	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	270		1	50	50	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD. (Purgeable)
					Surroga	ite	Surr	ogate Recovery	y Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		83	65	- 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076

Attn: Chad Taylor

Date: 01/03/02
Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple ID:	2826	6-002		Client Sam				
Sample Time:		Sam	Sample Date:		12/18/01			uid			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Toluene	0.90		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Xylenes, Total	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Aylones, roun					Surroga		Surr	Surrogate Recovery		Control Limits (%)	
				aa	a-Trifluoro	toluene	98.7		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Memyi-t-buty: Estici					Surroga	ite Surrogate Recovery			Control Limits (%)		
				aa	a-Trifluoro	toluene		98.7	6:	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	ND		1	50	50	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD. (Purgeable)	
					Surroga	ate	e Surrogate Recovery		Control Limits (%)		
				aa	a-Trifluoro				65 - 135		

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple II	D: 2826	6-003		į.					
Sample Time:	Sample Date: 12/18/01						Matrix: Liquid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Benzene	21		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020		
Toluene	12		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020		
Ethyl Benzene	86		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020		
Xylenes, Total	94		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020		
Aylenes, Total					Surroga		Surrogate Recovery		Control Limits (%)			
				aa	a-Trifluoro	toluene		92	65	- 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Methyl-t-butyl Ether	7.8		1	5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020		
Mcdiyi-c-batyi Edioi	,				Surroga		te Surrogate Recovery Contr					
				aa	a-Trifluore	toluene		92	65	- 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	780		1	50	50	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD. (Purgeable)		
					Surrog	te Surrogate Recovery			y Contr	ol Limits (%)		
				aa	a-Trifluoro				63	5 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

POL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076

Attn: Chad Taylor

Date: 01/03/02 Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple II	D: 2826	6-004		Client Sample ID: MW-6				
Sample Time:		Sam	ple Dat	e: 12/18	3/01		Matrix: Liquid				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	33		10	0.5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Toluene	8.7		10	0.5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Ethyl Benzene	320		10	0.5	5	$\mu \mathbf{g}/\mathbf{L}$	N/A	12/22/01	WGC42268	EPA 8020	
Xylenes, Total	110		10	0.5	5	μ g/ L	N/A	12/22/01	WGC42268	EPA 8020	
				Surrogate			Surrogate Recovery		Control Limits (%)		
				aaa	a-Trifluoro	toluene		98	65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		10	5	50	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
monty, rous, zaio				Surrogate			Surrogate Recovery		Control Limits (%)		
				aaa	a-Trifluoro			98	6:	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	3700		10	50	500	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD (Purgeable)	
				Surrogate			Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene			83		65 - 135		

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple I	D: 2826	6-005		Client Sam	i			
Sample Time:	Sample Date: 12/18/01						Matrix: Liquid				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Toluene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Xylenes, Total	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Asyloneo, Total					Surroga	ite	Surrogate Recovery		Control Limits (%)		
				aaa	a-Trifluoro	toluene		99	65	- 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020	
Mensyl-routyl Euler					Surroga		Surr	ogate Recovery	Contr	ol Limits (%)	
				aa	a-Trifluoro			99	6	- 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	ИD		1	50	50	μg/L,	N/A	12/22/01	WGC42268	EPA 8015 MOD. (Purgeable)	
					Surroga	ate Surrogate Recovery			Control Limits (%)		
				aa	a-Trifluoro	toluene	oluene 103			65 - 135	

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: Chad Taylor

Date: 01/03/02 Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple ID	: 2826	6-006		Client Sam	ple ID: MW	7-9	
Sample Time:		Sam	ple Date	: 12/18	3/01			Matrix: Liqu	ıid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	640		10	0.5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Toluene	120		10	0.5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Ethyl Benzene	630		10	0.5	5	µg/L	N/A	12/22/01	WGC42268	EPA 8020
Xylenes, Total	1300		10	0.5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Aylenes, rotal					Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		96	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Mathed + butul Ethan	ND		10	5	50	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Methyl-t-butyl Ether	1415		10	_	Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			96	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	6400		10	50	500	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD (Purgeable)
					Surroga	ate	Surr	ogate Recovery	Conti	ol Limits (%)
				ая	a-Trifluoro			91	6	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: Chad Taylor

Date: 01/03/02 Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple Il	D: 2826	6-007		Client Sam	ple ID: MW	/- 10	
Sample Time:		Sam	ple Dat	e: 12/18	3/01		ľ	Matrix: Liq	uid	· !
Parameter	Result	Flag	DF	PQL	ÐLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	7.9		5	0.5	2.5	μg/L	N/A	12/27/01	WGC42271	EPA 8020
Toluene	2.9		5	0.5	2.5	μg/L	N/A	12/27/01	WGC42271	EPA 8020
Ethyl Benzene	ND		5	0.5	2.5	μg/L	N/A	12/27/01	WGC42271	EPA 8020
Xylenes, Total	ND		5	0.5	2.5	μg/L	N/A	12/27/01	WGC42271	EPA 8020
,2,,0,,0,,					Surroga	ite	Surre	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		92	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		5	5	25	μg/L	N/A	12/27/01	WGC42271	EPA 8020
Mentyl-t-outyl Euler	.,,		·	-	Surroge		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			92	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1500		5	50	250	μg/L	N/A	12/27/01	WGC42271	EPA 8015 MOD. (Purgeable)
					Surroge	ate	Surr	ogate Recovery	Cont	ol Limits (%)
				aa	a-Trifluoro			91	6	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple II	D: 2826	6-008		Client Sam	ple ID: MW	7-11	
Sample Time:		Sam	ple Dat	e: 12/18	3/01			Matrix: Liqu	aid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Toluene	0.56		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μ g/ L	N/A	12/22/01	WGC42268	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
					Surroga	ıte	Surre	ogate Recovery	Contr	ol Limits (%)
				aaa	a-Trifluoro	toluene		97	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Michigi-t-outyl Dawi	.,_				Surroga		Surre	gate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		97	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD (Purgeable)
					Surroga	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluoro	toluene		101	6:	5 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01
Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple Il	D: 2826	6-009		Client Sam	ple ID: MV	V-12	
Sample Time:		Sam	ple Dat	e: 12/18	3/01		1	Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Toluene	0.86		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Contro	ol Limits (%)
				aaa	a-Trifluoro	toluene		96	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	12/22/01	WGC42268	EPA 8020
<u></u>					Surroga		Surr	ogate Recovery	Contro	ol Limits (%)
				aaa	a-Trifluoro	toluene		96	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μg/L	N/A	12/22/01	WGC42268	EPA 8015 MOD. (Purgeable)
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				aas	a-Trifluoro	toluene		100	65	- 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Watsonville, CA 95076 Attn: Chad Taylor Date: 01/03/02 Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple Il	D: 2826	6-010		Client Sam	ple ID: MW	7-7	
Sample Time:		Sam	ple Dat	e: 12/18	3/01			Matrix: Liqu	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L	N/A	12/28/01	WGC42271	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L	N/A	12/28/01	WGC42271	EPA 8020
Ethyl Benzene	19		1	0.5	0.5	μg/L	N/A	12/28/01	WGC42271	EPA 8020
Xylenes, Total	4.6		1	0.5	0.5	μg/L	N/A	12/28/01	WGC42271	EPA 8020
Ayiones, Total	,,,,				Surroga		Surr	ogate Recovery	Centr	ol Limits (%)
				aa	a-Trifluoro	toluene		91	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/L	N/A	12/28/01	WGC42271	EPA 8020
Mettidi-t-parti musi	112		-	_	Surroga		Surr	ogate Recovery	Conta	ol Limits (%)
				aa	a-Trifluoro			91	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	290		1	50	50	μg/L	N/A	12/28/01	WGC42271	EPA 8015 MOD (Purgeable)
					Surroga	ate	Surr	ogate Recovery	Conti	ol Limits (%)
				aa	a-Trifluore			85	6:	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Attn: Chad Taylor

Date: 01/03/02 Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sam	ple ID:	28266-0	03	Clie	ent Sample ID:	MW-5	
Sample Time:		Sampl	e Date:	12/18/0	<u> </u>	<u></u>	Matrix:	Liquid	<u> </u>
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF	PQL 5	DLR 5	Units µg/L	Analysis Date 12/31/01	QC Batch ID WMS31342	Method EPA 8260B
,	Surrogat	e		Surroga	te Recover	у	Control Limits ((%)	0
	4-Bromof	luorobenzene	e		97		65 - 135		•
	Dibromof	luoromethan	e		113		57 - 139		-
	Toluene-d	18			108		65 - 135		T.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q

P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple I	D : 28266	5-004		Client S	ample ID: MV	V-6	
Sample Time:		Samj	ple Da	te: 12/18	/01			Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQLR	MDL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		5	25	0.3	1.5	μg/L	1/2/02	WMS31342	EPA 8260B
	Surrogat	e		Surro	gate Reco	very	C	ontrol Limits (%)		
	4-Bromot	luorobenze	ene		97			65 - 135		
	Dibromof	luorometh	ane		111			57 - 139		
	Toluene-c	i8			107			65 - 135		

Comment:

Sample diluted due to high concentrations of non-target hydrocarbons.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple I	D : 28266	5-006		Client S	ample ID: MV	W-9	1
Sample Time:		Samj	ple Da	te: 12/18	/01			Matrix: Liq	uid	ļ
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF 5	PQLR 25	MDL 0.3	DLR 1.5	Units µg/L	Analysis Date 1/2/02	QC Batch ID WMS31342	Method EPA 8260B
		luorobenze luorometha		Surro	95 112 104	overy	C	ontrol Limits (%) 65 - 135 57 - 139 65 - 135		: !

Comment: Sample diluted due to high concentrations of non-target hydrocarbons.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Attn: Chad Taylor

Date: 01/03/02

Date Received: 12/19/01

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q

Sampled By: Client

Certified Analytical Report

Order ID: 28266		Lab Sa	mple I	D: 28266	5-007		Client S	ample ID: MV	V-10	
Sample Time:		Sam	ple Da	te: 12/18	/01			Matrix: Liq	uid	
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF 2	PQLR 10	MDL 0.3	DLR 0.6	Units μg/L	Analysis Date 1/2/02	QC Batch ID WMS31342	Method EPA 8260B
•	Surrogat	e		Surre	gate Reco	very	C	ontrol Limits (%)		
	4-Bromot	luorobenze	ene		97			65 - 135		
	Dibromot	fluorometh	ane		112			57 - 139		
	Toluene-c	18			106			65 - 135		

Comment:

Sample diluted due to the nature of the sample matrix.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Quality Control Results Summary

QC Batch #:

WMS31342

Matrix:

Liquid

Units:

μg/L

Date Analyzed:

12/31/01

Paramete		Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: Methyl-t-l	Oxygenates by EPA Soutyl Ether EPA 8260B			20		19.3	LCS	96.5			65.0 - 135.0
Ī	Surrogate		Surrog	ate Recover	ry	Control	Limits (%)				
ļ	4-Bromofluorober	ızene		91		65 -	135				'
	Dibromofluorome	thane		111		57 -	139				1
-	Toluene-d8			101		65 -	135				<u> </u>
Test:	Oxygenates by EPA Soutyl Ether EPA 8260B			20		18.4	LCSD	92.0	4.77	25.00	65.0 - 135.0
ľГ	Surrogate		Surrog	ate Recover	ry	Control	Limits (%)				,
	4-Bromofluorober	zene		94		65 -	135				1
ļ	Dibromofluorome	thane		112		57 -	139				
İ	Toluene-d8			103		65 -	135				

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Quality Control Results Summary

QC Batch #:

WGC42268

Matrix: Liquid

Units:

μg/L

Date Analyzed:

12/22/01

Paramet	er	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH	as Gasoline										
TPH as (Jasoline	EPA 8015	ND		561		500.64	LCS	89.2			59.2 - 111.9
		Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
		aaa-Trifluorotoli	iene		98		65 -	135				
Test:	BTE	X		· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·	
Benzene		EPA 8020	ND		6.2		6.791	LCS	109.5			65.0 - 135.0
Ethyl Be	nzene	EPA 8020	ND		7.8		8.061	LCS	103.3			65.0 - 135.0
Toluene		EPA 8020	ND		35.8		34.232	LCS	95.6			65.0 - 135.0
Xylenes,	total	EPA 8020	ND		43		40.047	LCS	93.1			65.0 - 135.0
		Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
		aaa-Trifluorotoli	iene		103		65 -	135				
Test:	TPH	as Gasoline										
TPH as (Jasoline	EPA 8015	ND		561		506.95	LCSD	90.4	1.25	25.00	59.2 - 111.9
		Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
		aaa-Trifluorotolu	iene		100		65 -	135				
Test:	BTE	X				/						
Benzene		EPA 8020	ND		6.2		7.179	LCSD	115.8	5.55	25.00	65.0 - 135.0
Ethyl Be	nzene	EPA 8020	ND		7.8		7.631	LCSD	97.8	5.48	25.00	65.0 - 135.0
Toluene		EPA 8020	ND		35.8		36.198	LCSD	101.1	5.58	25.00	65.0 - 135.0
Xylenes,	total	EPA 8020	ND		43		38.952	LCSD	90.6	2.77	25.00	65.0 - 135.0
• '		Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
		aaa-Trifluorotoli	iene	_	106	-	65 -	135				

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Quality Control Results Summary

QC Batch #:

WGC42271

Matrix: Liquid

Units:

μg/L

Date Analyzed:

12/27/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH a	s Gasoline										
TPH as Gasoline	EPA 8015	ND		561		480	LCS	85.6			59.2 - 111.9
	Surrogate		Surrog	ate Recover	гу		Limits (%)				!
	aaa-Trifluorotolu	iene		97		65 -	135				
Test: BTEX											!
Benzene	EPA 8020	ND		6.2		6.6	LCS	106.5			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.6	LCS	97.4			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		35	LCS	97.8			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		39	LCS	90.7			65.0 - 135.0
	Surrogate		Surrog	ate Recover	ry	Control 1	Limits (%)				
	aaa-Trifluorotolu	iene		99		65 -	135		<u> </u>		
Test: MTBE	E by EPA 802	0									
Methyl-t-butyl Ether	•	ND		52,8		62	LCS	117.4			65.0 - 135.0
	Surrogate		Surrog	ate Recover	ry	Control 1	Limits (%)				1
	aaa-Trifluorotoh	uene		99		65 -	135				
Test: TPH a	s Gasoline										
TPH as Gasoline	EPA 8015	ND		561		490	LCSD	87.3	2.06	25.00	59.2 - 111.9
	Surrogate		Surrog	ate Recove	ry		Limits (%)				
	aaa-Trifluorotoli	uene		97		65 -	135				<u> </u>
Test: BTEX								•			1
Benzene	EPA 8020	ND		6.2		7.7	LCSD	124.2	15.38	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		8.1	LCSD	103.8	6.37	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		36	LCSD	100.6	2.82	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		41	LCSD	95.3	5.00	25.00	65.0 - 135.0
,	Surrogate		Surrog	ate Recove	ry	Control	Limits (%)				
	aaa-Trifluorotole	uene		109		65 -	135				<u> </u>
Test: MTBI	E by EPA 802	0									
Methyl-t-butyl Ethe		ND		52.8		55	LCSD	104.2	11.97	25.00	65.0 - 135.0
·	Surrogate		Surrog	ate Recove	ry	Control	Limits (%)				
	aaa-Trifluorotol	uene		109		65 -	135				



Please use MDL (Minimum Detection Limit) for any diluted samples.

Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076

SEND CERTIFIED RESULTS TO: Chad Taylor										TURNA	ROUND TIME:	Norma	24hr Rush	48hr Rush	_7
ELECTRONIC DELIVERABLE FORMAT: XES NO									GLOBAL I.D.: T0600100475						
Sample Identification	Tracker)	Sample Depth		SAMPLE CONTAINERS					REQUESTED ANALYSIS						
			Date Sampled	40 mL VOAs	1 Liter Amber Jars	Poly Bottle	Liner Acetate or Brass	Total Pe	troleum Hydn Purgeables as Dieset	Gasoline-& BTEX-MTBE by EPA Method#	Volatile Organics MTBE Solvents by by EPA Method# by EPA		Fuel Oxygenates by EPA	Itional Anal Title 22: General, Physical and	1
				(preserved)						8015M-8-8020	8260	Method# 8010	Method 8260	Inorganic Minerals	
MW.3	MU3	23.691	12/18/01	5			<u></u>			X					1
MOH	MO-A	23.86	+ /	5						χ				 	+
WM.2	MU.S	27,48	+ / -	5						X				 	+
	MD-7	25.36	++	5				-		<u> </u>					+
<u> </u>	4-CW	76.79		<u>5</u>						×					+
MW-9	MU.9	52.78.		<u>.</u>								<u> </u>			\dagger
MW.10	MO-10	23.28	+	<u> </u>						<u> </u>					\dagger
mu-li	MUIL	23.49		5						א					†
MUIZ	MW-12	24.58	V	5						X					1
															Ţ
RECEIVE	in BV.		Date & Time	<u> </u>	<u> </u>	1	DELI	EASED BY:		5-4- 9	T	<u>S</u> AI	MPLE CONDITION	<u> </u>	1
Sampler:		- 12/10/1836 12/10/10/10						N 81013	- 12/9/01 1/5 Ambi						
12/25/2000 1013		-12/19/01/1340				140	TIEFIL	का क्षिर	•	- 	<u>-</u>	Ambient	Refrigerated	Frozen	
<u> waay s</u>		<u>-</u>			_					<u>-</u>	_	Ambient	Refrigerated	Frozen	
		-			→					-		Ambient	Refngerated	Frozen	
NOTES:									TIONAL COMI						