

Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

120 Westgate Drive, Watsonville, CA 95076 (831) 722-3580 (831) 662-3100 Fax: (831) 722-1159 May 2, 2002 Project H9042.Q

Mr. Jerry Harbert 46765 Mountain Cove Drive Indian Wells, California 92210

Subject:

Groundwater Monitoring Report - First Quarter 2002

Harbert Transportation

19984 Meekland Avenue, Hayward, California

Dear Mr. Harbert:

This report describes groundwater monitoring activities conducted by Weber, Hayes and Associates at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California, during the first quarter 2002. This report has been prepared pursuant to a directive from the Alameda County Health Care Services Agency/Environmental Health Services (Environmental Health) regarding a release of petroleum hydrocarbons from underground storage tanks at the site.

EXECUTIVE SUMMARY

Interim Remedial Excavation of petroleum hydrocarbon (PHC) -contaminated soil, in accordance with our approved Work Plan (Weber, Hayes and Associates, June 18, 2001) took place at the site on January 7 - 10, 2002. Approximately 594 cubic yards and 3,000-gallons of PHC-contaminated soil and groundwater were removed from the site and properly disposed of (Weber, Hayes and Associates, February 8, 2002).

The groundwater monitoring event for the first quarter 2002 took place on March 21, 2002. Groundwater elevations at the site rose an average of approximately 1.38 feet since the previous quarter (December 2001). The calculated groundwater flow direction on March 21, 2002 was to the west, which appears to be generally consistent with historical data. Groundwater analytical results from the first quarter 2002 indicate that low levels of dissolved PHCs remain in groundwater at concentrations that slightly exceed water quality goals in some monitoring wells downgradient of the removed underground storage tanks (USTs) and dispensers at the site. Overall, PHC concentrations at the site declined this quarter in all impacted groundwater monitoring wells. We believe that the interim remedial action excavation of residual PHCs is the cause of the decline in the PHC concentrations measured this quarter.

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

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At this time we recommend:

- Continuing quarterly groundwater monitoring of dissolved PHC concentrations at the site. We recommend that the frequency of sampling in monitoring wells MW-6 and 7 be reduced to semi-annually (second and fourth quarters) and that the frequency of sampling in monitoring wells MW-4, 8, 11 and 12 be reduced to annually (fourth quarter only).
- 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 residual concentrations of PHCs.
- If groundwater concentrations remain at similar concentrations over the next three quarters, showing significant reduction since the completion of the Large Diameter Excavation, we would recommend site closure after the 4th quarter 2002.

INTRODUCTION

This report documents groundwater monitoring activities at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California (the site), during the first quarter 2002. 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

Site Description And Background

The site is located at the corner of Meekland Avenue and Blossom Way in Alameda County California, at an elevation of approximately 55 feet above sea level (Figure 1). The site is relatively flat and is currently vacant.

The site was operated as a motor vehicle fueling station since the 1940's. Harbert Transportation used the site as a vehicle and fueling yard before selling the site to Durham Transportation in 1986.



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

Letter of Transmittal

to:

Mr. Jerry Harbert

46765 Mountain Cove Drive Indian Wells, California 92210

from:

Craig Drizin

re:

Harbert Transportation, 19984 Meekland Avenue, Hayward, California

date:

January 9, 2001

Number of Copies	Date of Documents	Description
1	May 2, 2002	Groundwater Monitoring Report - First Quarter 2002

c: Mr. Amir K. Gholami Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502 - 6577

> Mr. Jeff Lawson Silicon Valley Law Group 152 N. Third Street, Suite 900 San Jose, California 95112

Ms. Laurie Berger 905 Emerald Hill Road Redwood City, California 94061

Mr. Gregg Petersen Durham Transportation 9011 Mountain Ridge Drive, Travis Building, Suite 200 Austin, Texas 78759 - 7275

Mr. Chuck Headlee San Francisco Bay Regional Water Quality Control Board 1515 Clay Street, Suite 1400 Oakland, California 94612

In August 1989, four underground storage tanks (USTs) were removed from the site and properly disposed of. Soil and groundwater investigations at the site, conducted by Applied Geosystems, CTTS, and AGI Technologies, indicated that PHCs were present in soil and groundwater at the site. A list of reports documenting the soil and groundwater investigations is included in the Reference section. Ten groundwater monitoring wells currently exist at the site (Figure 2). Groundwater samples were not collected from these wells between September 1996 and September 2000. Documentation indicates that excavated soil from the UST removals was returned to the (reportedly plastic-lined) excavations (CTTS, November 1, 1992).

Documentation also indicates that two USTs were removed from the site in the early 1950's (CTTS, November 27, 1990). These USTs were located near the dispensers for the USTs removed in 1989.

On February 14, 2001, we collected soil samples from the site to determine the extent of PHCs remaining in the unsaturated zone in accordance with our September 7, 2000 Work Plan. Analysis of the data collected confirmed that significant concentrations of PHCs remained in soils beneath the former dispensers and in the 1989 UST excavation which was backfilled with the excavated material. We recommended excavation of these residual PHCs as an Interim Remedial Action (Weber, Hayes and Associates, June 18, 2001). Environmental Health concurred with this recommendation in a letter dated June 26, 2001.

On January 7 - 10, 2002 we conducted an interim remedial action excavation using six foot diameter augers to remove contaminated soils from the subsurface. Approximately 594 yds³ of PHC-impacted soil was removed from the subsurface and transported to an appropriate landfill facility for disposal. A pump was installed in one of the large diameter boreholes and 3,000-gallons of PHC impacted water was removed from the subsurface. Oxygen Release Compound® (ORC) was added to the saturated zone in each borehole to promote microbial growth and enhance the ability of aerobic microbes to degrade contaminants. Each borehole was backfilled with control density fill and clean fill soil to ground surface. This work was described in our February 8, 2002 report, Large Diameter Excavation and 4th Quarter 2001 Quarterly Groundwater Monitoring.

SUMMARY OF QUARTERLY ACTIVITIES

Groundwater Monitoring

The groundwater monitoring event for the first quarter 2002 took place on March 21, 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 1.38 feet since the previous quarter (December 2001). Calculated groundwater elevations from the gauging data collected on March 21, 2002 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 March 21, 2002 was to the west at approximately 0.002 feet per foot. Previous reports indicate that the groundwater flow direction in the vicinity of the site has generally been in a westerly direction. Groundwater elevations in monitoring wells MW-5 and MW-6 were inconsistent with groundwater elevations in the other site monitoring wells this quarter, and are considered anomalous. Monitoring wells MW-5 and MW-6 were not used for groundwater flow direction calculation or groundwater contour construction for this reason. 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, March 21, 2002 (µg/L, ppb)

Well ID	трн-д	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-3	240	0.94	2.5	12	11.7	ND
MW-4	ND	ND	ND	ND	ND	ND
MW-5	360	11	9.4	28	62	ND
MW-6	750	0.77	1.2	39	3.2	ND*
MW-7	ND	ND	ND	ND	ND	ND*
MW-8	ND	ND	ND	ND	ND	ND
MW-9	510	26	4.6	50	52	ND

MW-10	1,500	ND	11	3.1	ND	ND*
MW-11	ND	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	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-5 exceeds the groundwater quality goal/Maximum Contaminant Level (MCL) of 1 microgram per liter (µg/L, parts per billion, ppb).

The concentration of benzene in well MW-9 exceeds the groundwater quality goal/MCL of 1 ppb.

The concentration of TPH-g in well MW-10 exceeds the groundwater quality goal/AL.

No other PHCs exceed water quality goals/ALs/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

Current and 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

Summary of Quarterly Monitoring Results

- Concentrations of dissolved PHCs declined markedly compared to last quarter. This is likely
 the result of the interim remedial action conducted in January 2002, which included
 excavation and proper disposal of approximately 594 cubic yards of PHC-impacted soil and
 pumping and proper disposal of approximately 3,000-gallons of PHC-impacted groundwater
- Free product was not observed in any of the monitoring wells at the site.
- Groundwater elevations at the site rose an average of approximately 1.38 feet since the previous quarter (December 2001).
- The groundwater flow direction on March 21, 2002 was to the west at a gradient of approximately 0.002 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 AL in off-site well MW-10 which is located downgradient of the removed USTs.
- Benzene was detected at a concentration above the MCL in wells MW-5 and MW-9.
- Current and historic measurements of dissolved oxygen collected at the site indicate aerobic bioremediation is occurring in the PHC-impacted wells.

SITE CONCEPTUAL MODEL

The Site Conceptual Model (SCM) provides a compilation of our understanding of the existing site conditions:

- Soils encountered at the site generally consisted of fat Clays and sandy Clays. The predominance of these fine grained materials indicate that cleanup of PHCs at the site would **NOT** be amenable to soil vapor extraction or related technologies.
- A review and comparison of historical groundwater analytical data with the current and recent data suggests there has been a reduction in PHC concentrations at the site of at least an order of magnitude since September 1996 (see Table 1, Figure 3, and Appendix D). However, dissolved PHC concentrations remain above ALs/MCLs twelve years after the removal of the USTs.

- PHCs are present in three on-site wells downgradient of the removed USTs at concentrations above groundwater quality goals.
- The interim Remedial Action (IRA) which we completed early in the first quarter 2002 appears to have led to a decrease (up to an order of magnitude) in PHC concentrations in the on-site PHC-impacted wells.
- Low levels of PHCs remain in groundwater. Concentrations of PHCs slightly exceed the Action Level for TPH-g or the MCL for benzene in wells MW-5 and 9. Benzene is currently less than 1 ppb in all other wells at the site.
- We believe that natural attenuation/bioremediation has and will continue to remove PHCs from groundwater at the site.
- MTBE has not been detected in any of the soil or groundwater samples collected at the site.

MTBE is **NOT** present at the site. There are low levels of residual non-mobile PHCs in soil and groundwater that will likely degrade via natural processes over time. Excavation of source zone soil near the removed USTs and dispensers and removal of contaminated groundwater appears to have removed the driving force behind migration of PHCs in groundwater and should allow natural attenuation of PHCs to complete the cleanup at the site.

RECOMMENDATIONS

At this time we recommend:

- Continuing quarterly groundwater monitoring of dissolved PHC concentrations at the site. We recommend that the frequency of sampling in monitoring wells MW-6 and 7 be reduced to semi-annually (second and fourth quarters) and that the frequency of sampling in monitoring wells MW-4, 8, 11 and 12 be reduced to annually (fourth quarter only). Wells MW-3, 5, 9, and 10 would remain on a quarterly schedule.
- 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.
- If groundwater concentrations remain at similar concentrations over the next three quarters, showing significant reduction since the completion of the Large Diameter Excavation, we would recommend site closure after the 4th quarter 2002.

SCHEDULE OF ACTIVITIES FOR THE FOLLOWING QUARTER

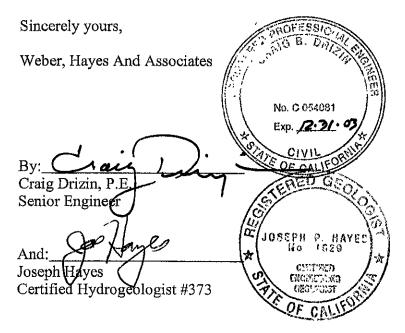
The following activities are scheduled for the next quarter:

- Quarterly groundwater monitoring according to the schedule recommended above, pending agreement by Environmental Health. Groundwater monitoring will include measuring the depth-to-groundwater, dissolved oxygen concentration, and physical parameters, and collecting samples from the appropriate monitoring 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.

LIMITATIONS

Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic and engineering principles and practices. This warranty is in lieu of all others, either expressed or implied. The analysis and proposals 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 the opportunity to aid in the assessment and cleanup of this site. If you have any questions or comments regarding this project please call us at (831) 722 - 3580.



Attachments:

Table 1: Summary of Groundwater Elevation and PHC Analytical Data

Figure 1: Location Map

Figure 2: Site Plan with Groundwater Elevations

Figure 3: Site Plan with PHC Concentrations in Groundwater

Figure 4: Site Plan with Extent of TPH-g and Benzene in Groundwater

Appendix A Field Methodology for Groundwater Monitoring and Field Data Forms

Appendix B Summary of Historical Depth to Groundwater Measurements, Groundwater

Elevations, and Groundwater Flow Direction - AGI Technologies, Inc.

Appendix C Certified Analytical Report - Groundwater Samples

Appendix D Summary of Historical Groundwater Analytical Results - AGI Technologies, Inc.

c: Mr. Amir Gholami, Alameda County Environmental Health

Mr. Jeff Lawson

Ms. Laurie Berger

Mr. Gregg Petersen, Durham Transportation

Mr. Chuck Headlee, San Francisco Bay Regional Water Quality Control Board

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Table 1: 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	* 11:		
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	<u> </u>							 		
	21-Mar-2002			21.96	33.48	240	0 94	2.5	12	11.7	ND		0.1
	18-Dec-2001			23.59	31.85	270	1.6	1.7	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	2.4	62	23	ND*		
	29-Маг-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									· * · · · · · · · · · · · · · · · · · ·	<u> </u>
	21-Mat-2002			22.15	33.56	ND	ND	ND	ND	ИD	ND		0.2
	18-Dec-2001			23.80	31.91	ND	ND	0.9	ND	ND	ND		
	20-Sep-2001	-		24.32	31 39	ND	ND	ND	ND	ND	ND		0.4
	20-Jun-2001			23.74	31.97	ND	ND	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	ИD	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	-									
	21-Mar-2002			24.69	31 34	360	11	9.4	28	62	ND		0.1
	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	1		24.15	31 88	6,500	120	130	740	940	ND*	T	
	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										
	21-Mar-2002]		23,11	32 90	750	0.77	1.2	39	3.2	ND*	T	0 1
	18-Dec-2001	1		24.16	31 85	3,700	33	8.7	320	110	<15*		-
	20-Sep-2001	_		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

Table 1: 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. (ing/L)
MW-7		25 - 45	56.66									***************************************	-
	21-Mar-2002			23.05	33.61	ND	ND	ND	ND	ND	ND		0.0
	18-Dec-2001			24.70	31.96	290	ND	ND	119	46	ND	_	
	20-Sep-2001			25 27	31.39	290	0.98	ND	12	4.5	ND*		0.4
	20-Jun-2001			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			24 18	32.48	270	13	6.6	11	ND	ND	ND	0.5
MW-8		20 - 40	56.16										
	21-Mar-2002			22.51	33.65	ND	ND	ND	ND	ND	ND		2.4
	18-Dec-2001			24.16	32.00	ND	ND	ND_	ND	ND	ND		
	20-Sep-2001	[24.68	31 48	ND	ND	ND	ND	ДИ	ND		1.6
	20-Jun-2001	<u> </u>		24,09	32 07	ND	ND	ND	ND	ND	ND		
	29-Mai-2001	Į.		22.56	33.60	ND	ND	0.8	ND	ND	ND		1.9
	12-Jan-2001			23.93	32 23	ДИ	ND	ND	ND	ND	ND	`	2.1
	27-Sep-2000			23.59	32 57	МD	ND	ND	ND	ND	ND	ND	19
MW-9		20 - 40	55.21										
	21-Mar-2002			21.76	33.45	510	26	46	50	52	ND		0.1
	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*		03
	20-Jun-2001			23 36	31.85	8,300	330	88.0	850	1,700	< 0.6*		
	29-Mar-2001			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	ND*		0.5
	27-Sep-2000			22.90	32.31	1,000	40	6.7	110	55	ND	ND	0.5
MW-10		25 - 40	54.74		.,=								
!	21-Mar-2002]		21.53	33 21	1,500	ND	11	3.1	ND	ND*		0.1
	18-Dec-2001	<u> </u>		21.11	33.63	1,500	7.9	2.9	ND	ND	< 0.6*		
	20-Sep-2001	1		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*		
	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

Table 1: 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.		(fect below ground surface)	Elevation (feet)	(feet below ground surface)	Elevation (fect)	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-11		25 - 40	55 20			<u> </u>			·		. 1		
	21-Мат-2002	ļ	!	21.76	32 98	ND	ND	ND	ND	ND	ND ,		0.1
	18-Dec-2001			23.39	31 35	ND	מא	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		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	ИD	0.6
MW-12		25 - 40	56.49		·, ·								
	21-Mar-2002			22.86	33.63	ND	ND	ND	ND	ND	ND		0.7
	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		10
	12-Jan-2001			24 28	32.21	ND	ND	1.1	ND	ND	ND		1.0
	27-Sep-2000			23,98	32.51	ND	ND	ND	ND	ND	ND	ND	12
	Laborato	ry's Practical	Quantitatio	n Limit (PQL):		50	0.5	0.5	0.5	1.3/	ź	5	∘ Field
	State N	Iaximum Cor	itaminant L	eyel (MCL);		1,000**	1	150	700	1,750	5***	0,5	Instrument

 $\underline{\underline{Notes:}}$ $\underline{\underline{TOC.}} = \underline{Top of Casing Elevation Calculated groundwater elevation} = \underline{TOC} - \underline{Depth to Groundwater Referenced to NGVD}$

TPH-g = Total Petroleum Hydrocarbons as gasofine MTBE = Methy - tert - Butyl Ether

FO's = Fuel Oxygenates = Di-isopropyl ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl tertiary Butyl Ether (ETBE), tertiary amyl Methyl Ether (TAME)

YO'S = Poll Oxygenates — Di-tsopropyt enter (Dire), certain busyt Accord (16A), Entry ternary busyt Enter (Dire), certainy anyt methyt Enter 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

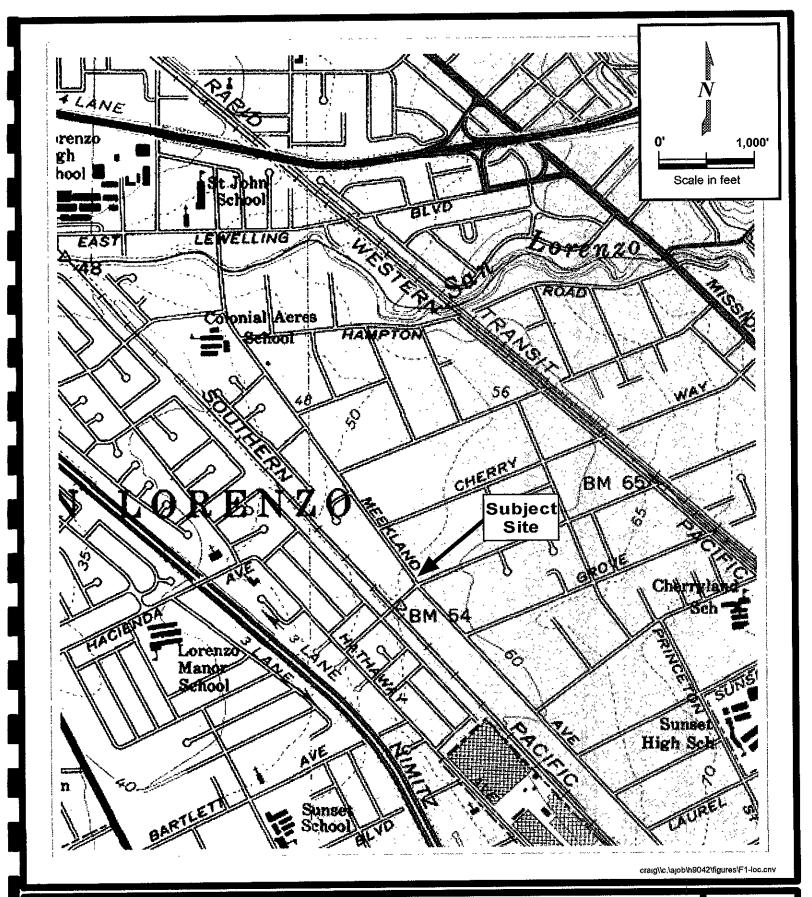
-- = Data not collected or measured, or analysis not conducted

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

* Confirmed by GC/MS method 8260

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

*** = Laboratory Report indicates results within quantitation range; chromatographic pattern not typical of fuel



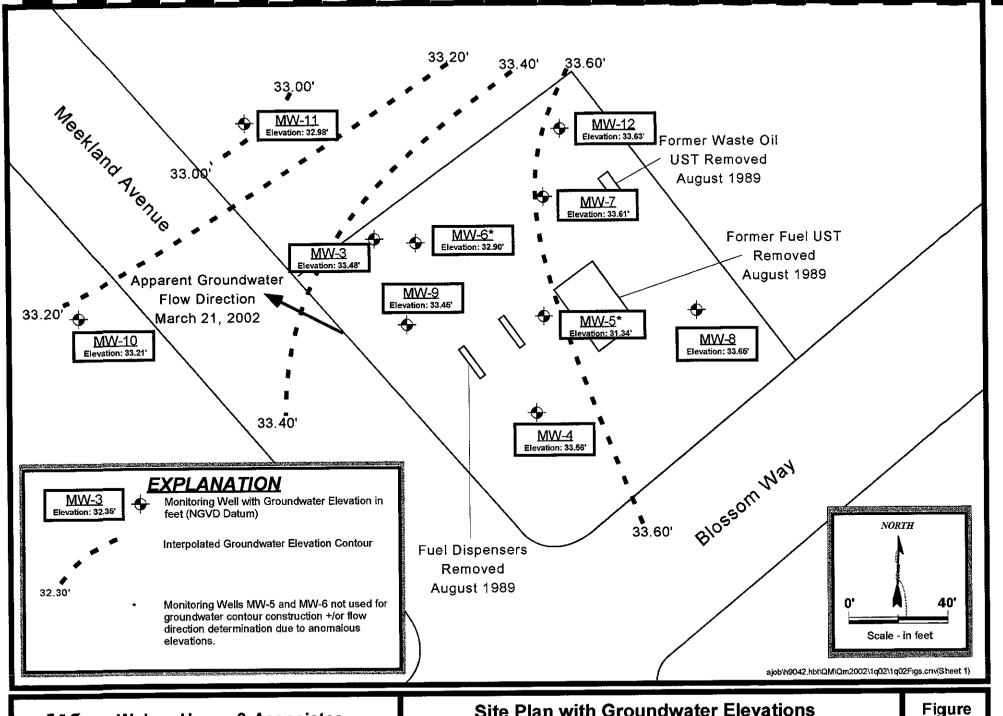


Weber, Hayes & Associates
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, Ca. 95076
(831) 722 - 3580 (831) 662 - 3100

Location Map

Former Harbert Transportation Facility 19984 Meekland Avenue Hayward, California

Figure Job# H9042



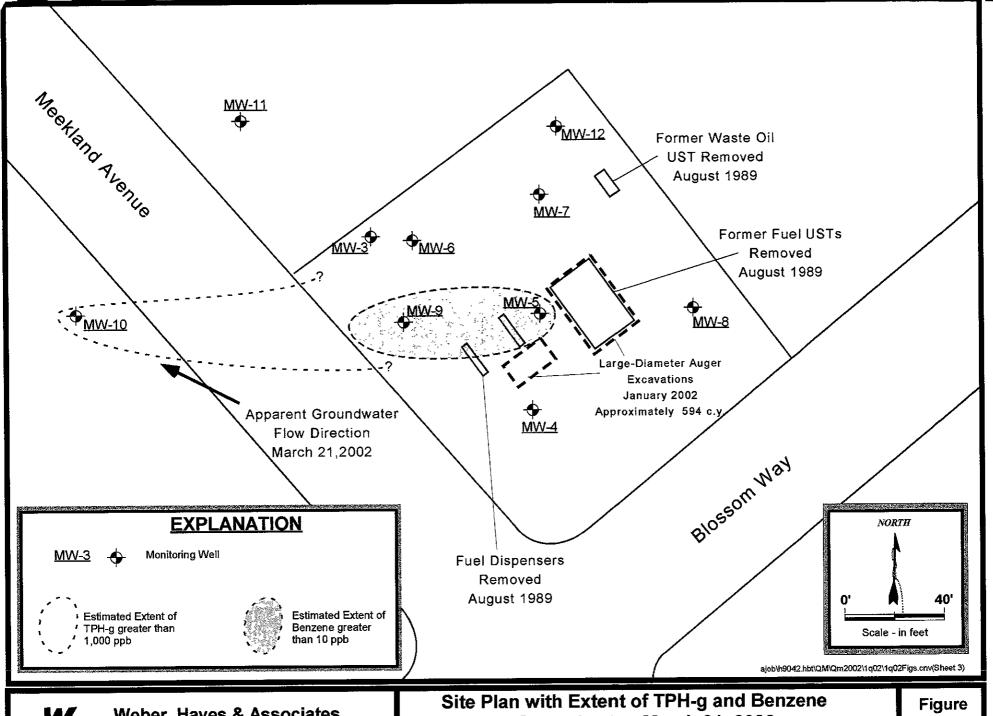


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Hydrogeology and Environmental Engineering 120 Westgate Drive, Watsonville, Ca. 95076 (831) 722 - 3580 (831) 662 - 3100

Site Plan with Groundwater Elevations March 21, 2002

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California Figure 2 Project H9042





Weber, Hayes & Associates

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

in Groundwater, March 21, 2002

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California **Project** H9042

Appendix A

Field Methodologies for Groundwater Monitoring and Field Data Forms

Appendix A

Field Methodologies for Groundwater Monitoring

Weber, Hayes and Associates' groundwater monitoring field methodology is based on procedures specified in the LUFT Field Manual. The first step in groundwater well sampling is for Weber, Hayes and Associates field personnel to measure the depth-to-groundwater to the nearest hundredth (0.01) of a foot with an electric sounder. If the well appears to be pressurized, or the groundwater level is fluctuating, measurements are made until the groundwater levels stabilizes, and a final depth-to groundwater measurement is taken and recorded. After the depth-to-groundwater is measured, the well is then checked for the presence of free product with a clear, disposable polyethylene bailer. If free product is present, the thickness of the layer is recorded, and the product is bailed to a sheen. All field data (depth-to-groundwater, well purge volume, physical parameters, and sampling method) is recorded on field data sheets (see attached). Because removing free product may skew the data, wells that contain free product are not used in groundwater elevation and gradient calculations.

After measuring the depth-to-groundwater, each well, starting with the cleanest well (based on analytical results from the last sampling event), is purged of approximately three to five well volumes of water. Purging is accomplished either by hand bailing or with a low flow submersible electric pump. During purging the physical parameters of temperature, conductivity, pH, and Oxidation-Reduction Potential (ORP) of the purge water are monitored with field instruments to insure that these parameters have stabilized (are within 15 percent of the previous measurement). The dissolved oxygen content of the groundwater from each well is measured with a YSI Model 57 field meter (equipped with a membrane covered Clark-type polarographic sensor probe, with built-in thermistors for temperature compensation). Dissolved oxygen and ORP measurements are used as an indicator of intrinsic bioremediation within the contaminant plume. All field instruments are calibrated before use.

All purge water is stored on site in DOT-approved, 55-gallon drums for disposal by a state-licensed contractor pending laboratory analysis for fuel hydrocarbons.

After purging, the water level in the well is allowed to recover to 80 percent of its original depth before a sample is collected. After water level recovery, a groundwater sample is collected from each well with a new, disposable bailer, and decanted into the appropriate laboratory-supplied sample container(s). The sample containers at this site were 40-ml. vials. Each vial was filled until a convex meniscus formed above the vial rim, then sealed with a Teflon®-septum cap, and inverted to insure that there were no air bubbles or head space in the vial. All samples are labeled in the field and transported in insulated containers cooled with blue ice to state-certified laboratories under proper chain of custody procedures.

All field and sampling equipment is decontaminated before, between, and after measurements or sampling by washing in an Liqui-Nox and tap water solution, rinsing with tap water, and rinsing with distilled water.



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 JIX COC's

Site Map Photo Sheet

Chargeable Materials

Job Name: Harbert Transportation	Date: 3/21/02	
Field Location: 19984 Meekland Avenue, Hayward	Study #: H9042.Q	
Field Tasks: Drilling TSampling TOther 1st Quarter 2002 Well Sampling	Weather Conditions: 7.1.1 Clouds	
Personnel/Company onsite: (Weber, Hayes and Associates	s) Chad Taylor	

FIELD WORK PLANNING: Performed on: 3/20/02

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.

Proposed sampling date: 3/21/02

TIME: 0610

Arrive onsite to perform 13+ Ouarter Monitoring Well Sampling.

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:

pH, EC, Temp Meter # 5: Temp = 11.06 pH = 7.4 &144, EC = 14/3 45

Dissolved Oxygen Meter: Red-line , Zero , Temp = 10.C

Therefore, 12.19 mg/L = Solubility of Oxygen in fresh water.

BEGIN SAMPLING ALL WELLS:

MW.8 MW.4 AUM SIUM FIUM FIUM IIIM SIUM -See information below for general monitoring well information this sampling round.

<u>COMMENTS:</u>
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.

G:\AJOB\H9042.hbt\QM\QM2002\1q02\1QFL.wpd



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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).
Kw.3	21.96	40.	0.1	No F7, No Odo~
MW.Y	22.18'	40°	0.2	NoFP, No Odor
MW·S	24.69.*	45'	0.1	NoFP, Very Slylt Olor
Mw.6	23.11. *	45'	<u>0.1</u>	No FP, No Olor
MW-7_	23.05	40'	0	Nof?, No Olor
Wn.8	22.51	40.	2.4	NoFP, No Odor
P. WM	21.76	40.	0.1	NoFP, Very Slyht alor
W17-10	21.53	чо.	0.1	NoFP, Slight Olor
WM-/I	21.71	40.	6.)	NoFR NoOlor
MU-12	22.86'	40.	6.7	Noff, No Odo
ूदर ३/१	Surface woter level			no. Bailer was below Grandwater noval of the boiler would cause
CALL BA	YSIDE OIL ON <u>4</u> VILL BE PURGEI	TO HAVE	NSITE <u>7</u> . DRUMS PURG	APPROXIMATE GAL. 350. GED.
	042.hbt\QM\QM2002\.	lq02\1QFL.wpd	1.1	Signature of Field Personnel & Date

Recorded by: CT Sample Equipment: Baller: Disposable or Acrylic Sample Equipment: A	Sample N						Location: /				
Baller: Disposable or Acrylic X Whaler # 2 Bladder Pump Submersible Pump Submersible Pump Submersible Pump Submersible Pump Submersible Pump Submersible Pump Manalyses Requested (cricle all that apply): Number and Types of Bottle Used: 5 **Y 0 **LUOA3** Well Dameter: 2 with Casing Volume of Section Oxygenates S **Y 0 **LUOA3** Well Dameter: 2 with Casing Volume of 2** = (0.16 Gallon/Feel 4** = (0.68 Gallon/Feel 4** = (0.	•		-1700 1 CY 14					.,			
Waler # 2 Whaler # 2 Bladder Pump Bladder Pump Submersible P	Purge Eq	•	manahla ar Aa	ndia							
Bladder Pump Submersible Pump's Full Casing Volume of Casing Volume of Submersible Pump is Puble Submers Set (Sallons) Submersible Pump is Puble Submers Set (Sallons) Submersible Pump is Puble Submers Set (Sallons) Set	v		•	yiic ,							
Submersible Pump Analyses Requested (cricle all that apply): Number and Types of Bottle Used:		_									
Ph-gas		-						•			
Phi-gas Phi-	Analyses	- Requested	l (cricle all tha	t apply):		Number	and Types o	f Bottle Used:			
Well Number: Mww.s Well Diameter: 2" with Casing Volume of Depth to Water: 21.96 TOC 2" = (0.16 Gallon/Fee 4" = (0.65 Gallon/Fee 4"			•		15						
Well Number: Depth to Water: Well Depth: Ho Well Depth: Ho BGS or TOC Holght W-Column: 18.04 feet (well depth - depth to water) 7 10.08 Gallon/Feet Holght W-Column: 18.04 feet (well depth - depth to water) 8" = (1.47 Gallon/Feet Gallons to purge: 11.5\$ gallons (casing volume X height) 8" = (1.47 Gallon/Feet Gallons to purge: 11.5\$ gallons (volume X 4) 8" = (2.61 Gallon/Feet 1.5\$ gallons (volume X 4) 8" = (2.61 Gallon/Feet 1.5\$ gallons (volume X 4) 8" = (2.61 Gallon/Feet 1.5\$ gallons (volume X 4) 1.5\$ 1.											
Depth to Water: Well Depth: 40 BGS or TOC 41 = (0.65 Gallon/Feel Height W-Column: Volume in Well: 21.3841 gallons (casing volume X height) Gallons to purge: 11.55 gallons (volume X 4) Transportation: Time Volume (Gallons) Volume (Gallons) Time (Gallons) Time (Gallons) Time (Gallons) Time (Gallons) Time (Gallons) Too q 2 6 41 18.4 5.78 Louis Cleans Mount Tracked O.1 10.11	Intrinsic B	io. Parame t	ers –								
Well Depth: Hoght W-Column: 19.04 feet (well depth to water) 5" = (1.02 Gallon/Feet (well depth to water) 5" = (1.02 Gallon/Feet (volume in Well: 2.3864) gallons (casing volume X height) 6" = (1.47 Gallon/Feet Gallons to purge: 11.58 gallons (volume X 4) 8" = (2.61 Gallon/Feet Casing volume Y 5" = (2.61 Gallon/Feet Casing volume Y 6" = (2.61 Gall	Well Num	ber:	E-WM	_		Well Dia	meter: 2				
Height W-Column: 18.04: feet (well depth - depth to water) 5" = (1.02 Gallon/Feet Volume in Well: 7.3844 gallons (casing volume X height) 6" = (1.47 Gallon/Feet Billon) 6" = (1.47 Gallon/Feet Gallon to purge: 11.545 gallons (volume X 4) 8" = (2.61 Gallon/Feet Billon) 6" = (2.61 Gallon/Feet Gallon) 7"				-							
Volume in Well: Gallons to purge: Lab: Lab: E-f-c-h Time Purged (Gallons) Time (Gallons) Tourned (Gallon	•			_		o water)					
Time Purged (Gallons) Conductivity Temperature PH Turbidity. Color, Fines D.O. (ppm) LOD T D 608 18.3 5.73 Notante. Brown, Minifinity D.O. (ppm) LOD T D 608 18.4 5.78 Low: Clear Brown, Minifinity D.O. (ppm) LOD T D 608 18.4 5.78 Low: Clear Brown, Minifinity D.O. (ppm) LOD T D 608 18.4 5.78 Low: Clear Brown, Minifinity D.O. (ppm) LOD T D 609 2 644 18.9 5.80 Low: Clear Brown, Minifinity D.O. (ppm) LOD T C Clear Brown, Minifinity D.O. (ppm) LOD T Clear Brown, Minifinity D.O. (ppm) LO				gallons (casi	ng volume			6" = (1.4	47 Gallon/Feet		
Time (24 hr) (Allow) (Lus/em) (Lus/em) (Conductivity (Lus/em) (Color, Fines) (D.O. (ppm) (Gallons t	o purge:		_gallons (volu	me X 4)	- /		8" = (2.6	61 Gallon/Feet		
Purged (Gallons) Conductivity (us/cm) Turbidity. Color, Fines D.O. (ppm)	Lab:	Entech	, , , , , , , , , , , , , , , , , , , ,			Transpo	rtation:	Course			
1007 0 608 18.3 5.73 Moderate: Brown Ministries 0.5 1009 2 641 18.9 5.80 Low: Clear Trace Fines 0.1 1011 4 641 18.9 5.80 Low: Clear Trace Fines 0.1 1014 8 641 18.9 5.82 0.1 1016 10 645 11.0 5.73 0.1 1018 12 643 19.0 5.75 V V O.1 STDP - Purge Complete: Calculate Bo% of orginal well volume recovery: Calculate Bo% of orginal well casing volume: Yes No Time: D10 1st measured depth to water, 12.01 feet below TOC Is well within 80% of original well casing volume: Yes No Sample Well Sample Well		Purged			рН		Turbidity. Col	or, Fines	D.O. (ppm)		
1011 4 64 18.4 5.81 O.1	1007		608	18.3	3.73	Noden	te: Brown	Ministers	0.5		
1011 4 64 18.4 5.81 O.1	1 ८७० ९	2_	64	18.9	5.78	Low.	Cle-4Bmn	of Trucking	0.2		
1014 8 641 18.9 5.81 0.1	1011	4		18.4	5.80	Lou:	Clear,	Trace Finis	0.1		
1014 10 645 11.0 5.73 0.1 1018 12 643 14.0 5.75 V 0.1 STDP - Punce Complete: Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of original well volume. 15.04' x 0.8 = 14.432 (Well Depth) 40 = Depth to water 25.57 Time: 1020 1st measured depth to water, 22.02 feet below TOC. Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well well Is well within 80% of original well Is well within 80% of original well Is well within 80% of original Is well within 80%	1013	6	641	J 8.4	5. 81				0.\		
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of original well volume. Original Height of Water Column = 15.04' x 0.8 = 14.432 (Well Depth) 40 = Depth to water 25.57' Time: 1020 1st measured depth to water, 21.02' feet below TOC. Is well within 80% of original well casing volume: Yes No 1st measured depth to water, 21.02' feet below TOC Is well within 80% of original well casing volume: Yes No 1st measured depth to water, 25.57' Sample Well	1014	8	641	18.9	5.82		^		0.1		
Wait for 80% well volume recovery prior to sampling. Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of original well volume. Original Height of Water Column = 15.24′ x 0.8 = 19.432 - (Well Depth) 40 = Depth to water 25.57′ Time: 1010 1st measured depth to water, 21.02′ feet below TOC. Is well within 80% of original well casing volume: Yes No Time: 15t measured depth to water, 1	1016	10	643	11.0	5.73				0.1		
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 = 1	1018	12	642	19.0	5,75	1	₩	· ·	0.1		
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 = 1	STOP -	Pune (omplete.								
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 = 15.24′ x 0.8 = 19.432 - (Well Depth) 40 = Depth to water 2.5.57′ Time: 1010 1st measured depth to water, 21.01′ feet below TOC. Is well within 80% of original well casing volume: Yes No_Time. 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_Time: Sample Well	\	1, 0									
Calculate depth to water (from TOC), for 80% well volume recovery: Calculate 80% of original well volume. Original Height of Water Column = 15.21 x 0.8 = 19.432 - (Well Depth) 40 = Depth to water 25.57 Time: 1010 1st measured depth to water, 21.01 feet below TOC. Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Is well within 80% of original well casing volume: Yes No Sample Well		·	Wait for	80% well v	olume red	overy p	orior to san	npling.			
Original Height of Water Column = 15.04' x 0.8 = 19.452 - (Well Depth) 40 = Depth to water 25.57' Time: 1010 1st measured depth to water, 21.01' feet below TOC. Is well within 80% of original well casing volume: Yes No_ Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Sample Well			Calculate de	pth to water	(from TOC)	for 80% v	well volume re	ecovery:			
Time: 1010 1st measured depth to water, 21.01 feet below TOC. Is well within 80% of original well casing volume: Yes No_ Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Sample Well					-						
Time. 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Sample Well		Original He	ight of Water Colu	mn = 18.04'	$\times 0.8 = 14.1$	1 75 - (Me	ell Depth) 40	= Depth to water 2.5.	<u>,5</u> 7		
Time. 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Time: 1st measured depth to water, feet below TOC Is well within 80% of original well casing volume: Yes No_ Sample Well	Time: Let	O fat management	معامية ما مامماء ام	11 /01' for	t halaw TOO	المبيدوا	within OOP/ of original	rinal wall cooling unlump	o: Van I		
Sample Well		-	,			is well	within 80% of orig	ginal well casing volume	e: Yes No		
						ls well	within 80% of orig	jinal well casing volume	e: YesNo		
Time: 1020 Sample ID: Mu-3 Depth: 27.01 feet below TOO					Sample	Well		***			
Time: 1020 Sample ID: MW-3 Depth: 22.01 feet below TOO											
	Time:	1020		Sample ID:	W	14-5		Depth: 22.01 f	eet below TO		

Sample N	lo.: M	W·4			Sample Location: MUY					
Samplers	Name: C	hatTaylor			Recorded	by: C	7			
Purge Eq		7			Sample E	quipment	:			
	,	sposable or Ac	rylic		χ		osable B	ailer		
Χ.	_ Whaler#					Wha	er#			
	Bladder P	ump				Blade	der Pump	 o		
	_ Submersil	ole Pump				Subn	nersible l	Pump		
		d (cricle all tha			Number a		of Bottl			
	ار Stoddard	2-DCA, EDD, 0260	- ruer Oxygenate	3-		0,70	~ = 007	ــــــــــــــــــــــــــــــــــــــ		
	o Paramet									
Well Num		MW.4			Well Diam	eter-	2 " u	vith <u>Casi</u> ng	Volume of:	
Depth to \		22.15	тос		TTCII DIAIII				16 Gallon/Fee	
Well Dept		40.	BGS or TOC						65 Gallon/Fee	
Height W-		17.86	feet (well de						02 Gallon/Fee	
Volume in Gallons to		71.42	_gallons (casi _gallons (volu		x neight)				47 Gallon/Fee	
	Entech	11.42	_gallons (voic	ime A 4)	Transporta	ation:	Ca	م = (۷.) ما جاد الاسماد	61 Gallon/Fee	
	· · · · · · · · · · · · · · · · · · ·		T	·				W4.4-C-		
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рΗ		Turbidity: 0	Color, Fines		D.O. (ppm)	
0728	0	576	15.4	5.44	H-> L E	hown,	Man	y Finis	0.9	
0130	7	586	18.7	6.11	γ_{α}	4			0.4	
0731	7	600	18.9	6.13	Mode.	ate: B	www.	Modfins	0.2	
0733	Ь	606	19.0	6.13	- 1		↓	↓	0. Z	
0735	8	611	19.0	6.14	Lows C	21eur,	Truce	e Fine	0.2	
0736	10	613	19.1	6.14		<u> </u>			0.2	
6738	12	615	19.1	6.16	<u> </u>	\downarrow			0.2	
STOP-	Purge	Complete.						•		
CTS	, ,									
	· ! - =	Wait for 8	30% well v	olume rec	overy pri	or to sa	mpling			
			pth to water					•		
			Calculat	e 80% of orgin	al well volume:					
	Original He	ight of Water Colur	nn = <u>17.85</u>	x 0.8 = 14.	- (Well D	epth) <mark>Կ</mark> ၀	_= Depth	to water 2.5. î	12'	
	1st measure	d depth to water, _	22.29 feet						YesNo	
Time: \\\ Time: \\	1st measure	ed depth to water, _ ed depth to water, _ ed depth to water, _	Teet	below TOC. below TOC.	is well with	iii) 00 % 01 0 sin 80% of o	ngmai well nginal well	casing volume	e: YesNo	
i iilie	ist measure	iu deptii to watei, _	ieei	Delow TOC.	19 Mell MIG	m 1 0 0 70 0 1 0	ngmai weli	casing volume	5. 155 140	
				Sample 1	V eⅡ					
							····			
Time:	0739	Floating Prod	Sample ID:	Mw	<u>.</u>		Depth:	22.29 ° f	eet below TO	
		. 1		,						

Sample N	o.: Mu	<u>>- \$ </u>			Sam	ple Locat	ion: M	۵٠٥	
Samplers	Name:	hed Tyl-	·-··		Rec	orded by:	<u>a</u>		
Purge Equ	uipment:	1			Sam	ple Equip	ment:		
	-	sposable or Acı	ylic			×	Disposable	e Bailer	
X	Whaler#	3_					Whaler#_		
	Bladder P	ump					Bladder Pu	ımp	
	Submersit	ole Pump					Submersib	le Pump	
Analyses	Requested	ł (cricle all tha	t apply):		Num	ber and T	ypes of B	ottle Used:	
		2 DCA, EDB, 826) Fuel Oxygenate	s		<u>5 24</u>	tonluz	ra's	
TPH-diese			 -						
Intrinsic Bi	o. Paramet								
Well Num		Mu.5	-		Well	Diameter	::	with Casing	
Depth to V		24.69°*	_TOC	,					16 Gallon/Fe
Well Dept Height W-		20.51	_BGS or TOC feet (well de		o wate	er)			65 Gallon/Fe 02 Gallon/Fe
Volume in			_ gallons (cas					,	47 Gallon/Fe
Gallons to	purge:	52.80	_gallons (volu		J	,		8" = (2.	61 Gallon/Fe
Lab: E.	tech			-	Tran	sportation	1: Cu	ur	
Time Volume Conductivity Temperature pH (24 hr.) (Gallons) (ps/cm) (°C)						Turb	idity: Color, F	ines	D.O. (ppm
1213/17	0/5	734 697	18.3	6.05.99	HZ	hID.KI	1.3 0.1		
12226	10 15	103 725	18.8 18.1	5.96 5.97	Wos	emte: Bu	Law Clean	· Buss, Minis Fra	0.1
1231 R31	2025	714 133	18.9 18.9	5.17.01	Lo.	J: Clearing	aw Clar	Bung Minorters Bung Minorters	0.3 0.4
1241	30	731	18.9	6.02	L	يس: <u>C ا</u>	ear. 7	Trece Finns	. O.4
1246	35	741	18.8	6.04					0.3
1251	40	146	18.8	6.03					0.3
1251	45	749	18.7	6.05		_			0.1
1301	50	750	18.7	6.05					0.1
1306	55	744	18.7	6.06	Į	/	\downarrow	↓	0.1
· · · · · · · · · · · · · · · · · · ·		Wait for	80% well v	olume rec	ove	y prior t	o sampl	ing.	
		Calculate de	pth to water	(from TOC),	for 80	% well vo	lume recov	ery:	
				e 80% of orgin					m n 1
	Original He	ight of Water Colu	mn = Zo.31 .	x 0.8 = 16.7	<u> 48 </u>	(Well Depth) Y5 = De	pth to water <u>28.</u>	<u>†</u> 5
Time: 14 54	1.04	d donth toto	4 & Oak 2	halaw TOO	1.	و مستن المنا	10/ of oil-! *	well essine where	nt Van Nie
Time: <u>1305</u> Time:		ed depth to water, _ ad depth to water, _		t below TOC.			-	well casing volum well casing volum	
Time:		ed depth to water, _	\	t below TOC.				well casing volum	
v		·					•	-	
· ···				Sample '	Vell	 			
Time	12.08		Sample ID:		.w	3	Do	pth: 30.84	feet helow TC
inne.	1308		oampie ibi;	•			De	թա. <u>գ<i>ջ</i>. զ 1</u>	IRET DEIOM I
Comments		-1 1 (ut Very ?						

Sample N					Sample Location			
Samplers	Name: (2hed Taylo	~		Recorded by: (كــُـ	 	
Purge Equ	-	1			Sample Equipm			
		sposable or Acr	ylic			isposable Ba		
<u> </u>	Whaler#					Vhaler#		
	Bladder P	•				ladder Pump		
	Submersit	ole Pump			s	ubmersible F	'ump	
Analyses	Requested	d (cricle all that	t apply):		Number and Ty	-	: Used:	
TPH-gas BT	EX MTBE +	2-DCA, EDD, 0260) Fuel Oxygenate	<u> </u>	5 14	o-rna?		
	l, Stoddard		·	<u> </u>		· · · · · · · · · · · · · · · · · · ·		
Intrinsio Di	o. Paramel	<u> </u>					· · · · · · · · · · · · · · · · · · ·	
Well Num	ber:	MU.6	-		Well Diameter:	<u>ฯ</u> พ		
Depth to V		23.11 *	TOC				2" = (0.1)	6 Gallon/Feet
Well Dept Height W-		21.89	BGS or TOC feet (well de		n water)			5 Gallon/Feet
Volume in		14.2285	gailons (cas					7 Gallon/Feet)
Gallons to	purge:	56.91	gallons (volu					1 Gallon/Feet)
Lab: E	intech				Transportation:	Conr	144	
Time (24 hr)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН	Turbio	lity: Color, Fines		D.O. (ppm)
132,7334	05	443 484	18.5	7.05	Hyli-Gry-Brow	1. 1 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10-4/5-17	1.00.7
1359 1243	10 13	433 486	19.3	6.99	Low Clear - 1	10-10 Clear - Di	m, Minor	0.7
1341 (393	20 25	522 561	19.79.5	1.18 6.15	Los Clear - Du		~, M~	0.8 0.5
1357,402	3035	519 590	19.5	7.14	Low: Clear-	Liwicler.	. Busy Trace	0.30.2
1467	40	599	19.5	7.08	Low: Clear	- Trace F	ines	0.2
1411	45	605	19.5	7.17				0.2
3/14	50	609	19.5	6.92				0.2
1421	5.5	614	19.5	7.29				0.1
1426	60	615	19.5	7.13	• •	↓	,	0.1
		Wait for 8	30% well v	olume rec	overy prior to	sampling]•	
		Calculate de	pth to water	(from TOC),	for 80% well volu	ıme recovery	<u>:</u>	
				te 80% of orgin				
	Original He	eight of Water Colur	nn = 21.89.	$\times 0.8 = 17.5$	512 - (Well Depth)	<u>닉 5</u> = Depth t	o water <u>27.4</u>	<u>1</u>
Time: 1427	4-4	ed depth to water, _	12.61	4 h = l= TOC	ls well within 80%	/ of omerical well	anaina valuma	: Yes No
Time: \					Is well within 80%	_	-	
Time:	1st measure	ed depth to water, _ ed depth to water, _	LUT fee	t below TOC	ls well within 80%			\ C9T
		· · · ·				-	-	
				Sample \	Well			
Time:	1427		Sample ID:	Mu)· l	Depth:	22.61 fe	eet below TOC
	: N		i 1		6.W S			

Samplers	Name:	hadTaylor			Recorded by: CT					
Purge Equ		1-0112/107			Sample Equipment:					
	•	sposable or Aci	vlic		Sampi		isposable B	ailer		
	Whaler#_	•	,				/haler#			
	Bladder Ρι					В	ladder Pum	p		
	Submersib	le Pump			s	ubmersible	Pump			
Analyses	Requested	(cricle all tha	t apply):	Numbe	er and Ty	pes of Bott	le Used:			
		2-DOA; EDB; 828	7 Fuel Oxygenate		5,	FYOWLUTA	ــــــــــــــــــــــــــــــــــــــ			
	l , Stoddard									
	o. Paramet									
Well Numi		Mw·7	тос	Well D	iameter: _	<u> </u>	\ with Casing بياني بياني الم	/olume of: 6 Gallon/F		
Depth to Water: 25.65 TOC Well Depth: 90 BGS or TOC									5 Gallon/F	
Height W-	Column:	16.95	feet (well de						2 Gallon/F	
Volume in Gallons to	-	44.07	gallons (casi gallons (volu		(neight)			7 Gallon/F 1 Gallon/F	
Lab:	, p	, , , ,	_9(,,,,,		Transp	ortation:				
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН		D.O. (pp				
0908	0 5	582 581	18.5	5.53	Low Clear Binson Mass.				0.60.	
0415	10	586	18.5	5.13	10	w: Cle	ear, Tru	ac Fines	0.2	
0414	15	686	18.5	5. 56					0.1	
0924	20	586	18.6	5.64					0.1	
0928	7.5	586	18.6	5.61					0.1	
0432	50	586	18.6	5.72					0.1	
0937	35	586	18.6	5.73			····		0.0	
0 9 41	чо	5 86	18.6	5.73					0.1	
0946	45	586	18.6	5.75	\checkmark		/		0.0	
			80% well vo							
		Calculate de	pth to water				me recover	<i>y</i> :		
	Original Ha	lght of Water Colu		te 80% of orgin x 0.8 ≃ 15			40' = Denth	to water 2.6.4	14)·	
	ong.nar no	grit or trator dolar		, v.o. <u>14, .</u>	(,	7011 B 0 p 11.7_	<u>,, </u>	to mater		
		d depth to water,						il casing volume		
Time:	ist measure 1st measure	d depth to water, ₋ d depth to water, ₋	T feet	t below TOC.				I casing volume		
	modele		- 1 100	, 55.577 100.	13 110	wanii du A	, 3, 5, 19m of 46			
				Sample !	<i>N</i> ell					
Time:	<u> </u>		Sample ID:	ML	J-7		Depth	: 23.61 * fe	et below T	
		Jo Flootvag I								

		Harbert Tm.	18 7 0 1 1 0 ×	111 15 161				9			
	<u>ه.: ۸۲۰</u>					e Location:		8			
Samplers	Name: C	had Tayla			Recorded by: CT						
urge Eq	uipment:	1			Sample Equipment:						
	-	sposable or Acr	ylic				osable B				
X	Whaler#_						aler#				
	Bladder Pt	•					ider Pum _l mersible				
	Submersib					<u> </u>		-			
		f (cricle all that		Numb	er and Type		e Used:				
	EX MTBE) 1. I. Stoddard	2-DCA, EDB, 8260	Fuel Oxy genate	9-		5 140ml	.00/4 3	 			
	o. Paramet							······································	····		
/ell Num					Moll D	iamotor	، • به	with Casing \	/olume of:		
epth to V		22,51'	TOC		YYCH D	idilietei.	`		6 Gallon/Feet)		
ell Dept	h:	40'	BGS or TOC				1		5 Gallon/Feet)		
	Column:	17.49'	feet (well de						2 Gallon/Feet)		
olume in allons to		11. 3685 43.47	gallons (casi gallons (volu		√ neignt)			7 Gallon/Feet) 1 Gallon/Feet)		
	Entech	13.11	94110110 (4010		Tueses	ortations	Courn	•			
ab: £	ntech				transp	ortation:	L-Sex P	ev			
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН		D.O. (ppm)					
639	0 5	450 466	17.6	6.01	Halos	1.0 0.8					
0646	10	447	18.3	6.11	ساميا	1 Clear	Truce	Fines	1.7		
0644	15	513	18.3	6.12					2.0		
0655	20	518	18.3	6.11					2.1		
0657	25	521	18.4	6.12					2.2		
701	3 ∆	522	18.3	6.12					2.3		
0704	35	525	18.4	6.14					2.3		
ኃ ፕሪሄ	40	525	18.4	6-14					2.3		
712	46	526	18.4	6.15	t	V		,	2.4		
714			10% well vo		overv	prior to s	ampling	1.	1		
			pth to water		-	•	-				
				e 80% of orgin							
	Original He	ight of Water Colun	nn = 17.49°	x 0.8 = 13.9	92 (V	Vell Depth <u>) ฯ0</u>	= Depth	to water <u>26.0</u>	<u>51</u> '		
			0 11 00 11					.	: Yes No		
ne: <u>O (14</u> ne. \		d depth to water, _ d depth to water, _		below TOC.							
		d depth to water, _	ar feet	below TOC.	ls we	ll within 80% of	original wel	casing volume	: Yes No		
110	• Iotineasure		1000		.5	,, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, same in g			
				Sample ¹	Vell						
Time:	0714	a Floating Pm	Sample ID:				Depth	: 23-42 fe	eet below TOC		
		 1 -		, , , , , , , , , , , , , , , , , , ,							
mments	4 1	- I I									

Samplers Name: ChadTaylor						Recorded by: CT					
Purge Equ	ulpment:				Sample Equipment:						
		sposable or Acı	ylic		-		sposable	Bailer			
Х	Whaler#	3				W	naler#_				
	Bladder P	ump		_	Bla	idder Pu	mp				
	Submersit	ole Pump			Su	bmersibl	e Pump				
Analyses	Requested	d (cricle all tha	t apply):		Number	r and Typ	es of Bo	ttle Used:			
TPH-gas BT	EX,MTBE,	-2-DGA; EDB; 826	Fuel Oxygenate	90		140-11	ZVA'S	·	··· ··· · · · · · · · · · · · · · · ·		
TPH-diese	l, Stoddard	Solvent									
Intrinsic Bi	c. Paramet	ers-									
Well Num		MW.9			Well Dia	ameter: _	4"	_ with Casing V			
Depth to V Well Depti		21.76'	_TOC BGS or TOC	,					6 Gallon/Feet 5 Gallon/Feet		
	n. Column:	18.24	_6et (well de		o water)				2 Gallon/Feet		
Volume in	Well:	11.856	gallons (cas	ing volume >				6" = (1.4	7 Gallon/Feet		
Gallons to	purge:	<u>५</u> १. ४१	_galions (volu	ıme X 4)				8" = (2.6	1 Gallon/Feet		
Lab:	Entech			-	Transpo	ortation:	<u></u>	LP 16.4			
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН			: Color, Fi		D.O. (ppm)		
1445	0/5	633 609	19.19.6	6.51	Moden	te: Cla-	- Buuss	mer. Tructions	0.90.4		
1454	10 15	590 601	11.7	1.13	اردوسا	Clergite	<u></u>	Jear, Traction	0.2		
। ५०५	20	391	19,7	6.70				mecFines	0.1		
1508	25	593	19.7	6.73					0.1		
1513	30	599	19.6	6.76					0.1		
1518	35	598	11.6	6.15			L		0.1		
1 523	40	548	11.5	6.61					0.1		
1528	45	600	19.5	6.58					0.1		
1533	50	601	19.5	6.57			/	1	0.1		
			80% well v				-	•			
	··	Calculate de	epth to water				ne recov	ery:	· · · · · · · · · · · · · · · · · · ·		
	0.3.3411	eight of Water Colu		te 80% of orgin			Λ' 5.		uı'		
	Original He	eight of water Colu	mn = 18 € 1	x 0.8 = 14.2	- (VV	eli Depth <u>) 🤻</u>	<u>U</u> ≂ Del	oth to water <u>2 3.</u>	<u> </u>		
Time: <u>1554</u>	1st measure	ed depth to water, _	21.88 fee	t below TOC.	is well	within 80%	of original v	well casing volume:	: Yes No_		
		ed depth to water, _ ed depth to water, _			ls well	within 80%	of original v	well casinα volume:	: Yes No		
Time: 19	1st measure	ed depth to water, _	fee	t below TOC.	is well	within 80%	of original v	well casing volume	: Yes No		
				Sample \	اام/۸						
			· , ·	oaiiipie '	11011						
Time:	1534	lostry Produc	Sample ID:	MN	. q		Dep	oth: 21.88 ' fe	eet below TOC		

Sample No.: MW-10						Sample Location: MW-1D					
	Name: C				Rec	orded by:	CT				
Purge Equ					Sample Equipment:						
i digo =q	-	sposable or Acr	ylic				Disposable Ba	iler			
X	· Whaler#_	•				V	Vhaler#	_			
	Bladder Pu	ımp			Bladder Pump						
	Submersib	le Pump			Submersible Pump						
Analyses	Requested	l (cricle all that	apply):	Num		pes of Bottle	Used:				
	The second second	2-DOA, EDB, 8280	Fuel Oxygenate		5240	m L WH'S					
	l, Stoddard										
ntrinsic Bi	o. Paramet	ere		<u></u>							
Well Number: №3.\0						Diameter:	<u></u>	_			
Depth to V Well Dept		21.53	TOC BGS or TOC)			,		6 Gallon/Fee 5 Gallon/Fee		
Height W-	Column:	18.47	feet (well de	pth - depth t				5" = (1.0	2 Gallon/Fee		
Volume in	-	12.00	gallons (casi	-	< heig	ht)			7 Gallon/Feet 1 Gallon/Feet		
Gallons to	· -	48	gallons (volu	IIIIe X 4)	_		_	•	or Gallon/i-ee		
_ab:	Entech				Tran	sportation	Cour	*-	<u>-</u>		
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН		Turbi	D.O (ppm)				
1053	0 5	852 819	18.1	5.81	N.	2.1 0.5					
1101 1105	10 15	817 P15	19.0 19.1	5.85.91	Los	0.30.3					
1110	20	816	14.1	5.96	Low: Clear Trace Fines C						
1114	2.5	816	19.1	5.98					0.1		
111 9	30	819	14.2	6.12					0.1		
1122	35	816	19.2	6.21					0.0		
1126	40	8/8	19.2	6.15					0.1		
1151	45	४ ४४	11.2	6.10					0.1		
1135	80	818	19.2	6.13	\		Ţ,	V	0.1		
,,,,,,	1				ove	ry prior to	sampling	4			
		Calculate de	pth to water	(from TOC),	for 8	0% well vol	ume recovery:				
				te 80% of orgin							
	Original He	eight of Water Colu	nn = <u>78.47.</u>	x 0.8 = 14.3	76	- (Well Depth)	40' = Depth t	o water 2 5.2	24		
Time: 1133	1st massure	ed depth to water, _	21.64' fee	t helow TOC	ls	well within 80	% of original well	casing volume	: Yes No		
Time: _\	1st measure	ed depth to water, _	fee	t below TOC.			% of original well		±		
Гіте: / /	1st measure	ed depth to water, _ ed depth to water, _ ed depth to water, _	fee	t below TOC.	ls	well within 80	% of original well	casing volume	: Yes No		
			···	Sample '	well		***				
Time:	1135		Sample ID:	Mu	do_		Depth:	21.14 fe	eet below TO		
		Floating Pro		11							

	Name: C		·· ·· ································		Sample Location: MW·\\					
		had T.yl-		··········	Recorded by: CT					
Purge Eq	•	1			Sample Equipm					
 -	-	sposable or Acr	ylic			isposable Ba				
	Whaler#					Vhaler#				
	Bladder P	•			Bladder Pump					
	_Submersit	•			Submersible F	•				
	_	d (cricle all that		Number and Ty	=					
		2 DOA, EDB, 8260) Fuel Oxygenate	5	s,	low Luon's				
	i , Steddard o. Paramet				<u>-</u>					
				•	INC. B D'		.40- 011	/-l		
Well Num Depth to \		MU·11	TOC		Well Diameter:		7" = (0.1	/olume of: 6 Gallon/Fee		
Well Dept		40	BGS or TOC	;		•		35 Gallon/Feet		
	Column:		feet (well de					2 Gallon/Feel		
		11842.7584			(height)			7 Gallon/Feet		
	-	11.63	gallons (volu နှစ်ပြေသျှပါ		_	-	,	31 Gallon/Feet		
Lab:	Entech		200 012 PM		Transportation	<u> </u>	<u> </u>	<u></u>		
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН	Turbio	lity: Color, Fines		D.O. (ppm)		
1610	O	875	17.1	5.52	Hyh: Brown Moderte:	n, Man,	/ Finis	2.0		
0840	2	872	17.6	5.54	Modestei	Brown M	emortery	0.6		
0841	ય	833	17.7	5. 5.5				0.4		
0843	6	853	17.8	<i>5</i> , \$ <i>5</i>	Low Clear	<u>'</u>	<u> </u>	0.2		
<u> ७६५५</u>	8	8 33	17.8	5.57	Low: Ch	ear, Trac	cFms	0.2		
0845	10	832	17.8	S.58				0.1		
0847	12	875	17. 8	5.60	· ·	<u> </u>		0.1		
STOP-	Pura	Complete.								
\	اسامد	, , , , , , , , , , , , , , , , , , ,								
101 8	INIOC	Wait for 8	30% well vo	olume rec	overy prior to	sampling	 I.	l		
					for 80% well volu		•			
			. R. Zu Calculat	e 80% of orgin	al well volume:		C.4	ı'		
		ight of Water Colur	nn = 44:24	× 0.8 = 17	al well volume: - (Well Depth)	40' = Depth	to water 2.5	<u>rı,</u>		
	9 031.11.				CASILIA			., .,,,,,,		
Time: 2.4-16 Time:		ed depth to water, _ ed depth to water, _		below TOC.	Is well within 80° Is well within 80°	_	-	: Yes No_		
		ed depth to water,	\	below TOC.	is well within 80%	=		_		
		, , , , , , , , , , , , , , , , , , ,				·	-			
				Sample \	Well			·····		
Time:	0844		Sample ID:	Mu	5-1)	Depth:	21.84 fe	eet below TOO		
		· Flooting ?	•							

Samplers	Name: (ChalTayl-	•		Recorded by: Cズ					
Purge Eq		T			Sample Equipment:					
	Bailer: Di	sposable or Ac	rylic		χ	Dispo	sable Baile	er		
Χ	Whaler#					Whal	er#			
	Bladder P	·					er Pump			
	Submersit	ole Pump			Subm	ersible Pu	mp			
Analyses	Requested	d (cricle all tha	t apply):	Number an			Jsed:			
		2-DCA, EDB, 826	D Fuel Oxygenate	86		5 y 4 0	-rwy?			
	l, Steddard		···							
	e. Paramet		<u> </u>							
Well Numb Depth to V		MW-12 22.86	Well Diame	eter:			Volume of: 16 Gallon/Fee			
Well Depti		A Q.	_TOC BGS or TOC				<i>C.</i>		55 Gallon/Feel	
Height W-	Column:	17.14'	pth - depth				5" = (1.0	02 Gallon/Feet		
Volume in		2.7424			X height)				17 Gallon/Feet	
Gallons to		10.97	_gallons (volu	ime X 4)	_			•	31 Gallon/Feet	
Lab:	Enteil	1		•	Transporta	tion:	Cour	**		
Time (24 hr.)	Volume Purged (Gallons)	Conductivity (µs/cm)	Temperature (°C)	рН		Turbidity: C	olar, Fines		D.O. (ppm)	
0765	O	469	16.7	6.00	Modente	· Bms	Mod	Fours	1.0	
0757	2	557	17.9	5.84	Low. C	lear-Bu	own Mir	mc Fr- 1	0.6	
0758	ધ	561	18.0	5.92	1			1	0.6	
0800	ь	565	18.1	5.97					0.6	
0802	8	567	ነየ.ጊ	6.00	J.	$\sqrt{}$		$\sqrt{}$	D. 6	
0804	10	568	18.2	6.02	Lowic	lear,	TruceF.	·- 3	0.6	
0806	n	569	18.2	6.03	1	1	1		0-7	
STOP	- Pune	Complete			₹					
\u3	1				7					
7-, 4		Wait for 8	30% well vo	olume rec	overv pric	or to sa	mplina.		L	
			pth to water							
					al well volume:					
	Original He	ight of Water Colu	nn = <u>17.14°</u>	x 0.8 = 1.0 x	<u>712 ^ -</u> (Well De	epth) <u>40°</u>	_ = Depth to v	vater <u>2.6. 7</u>	.9	
Time: <u>080 f</u> Time:		ed depth to water, _ ed depth to water, _		t below TOC. t below TOC.					: Yes No : Yes No	
Time: T		ed depth to water, _	`	below TOC.			iginal well ca		_	
				Sample	Well					
Time:	0807		Sample ID:	MW	12		Depth:_2	. 2.90° fe	eet below TOC	
		· Floating P		•						

Appendix B

Summary of Historical Depth to Groundwater Measurements, Groundwater Elevations, and Groundwater Flow Direction - AGI Technologies, Inc.

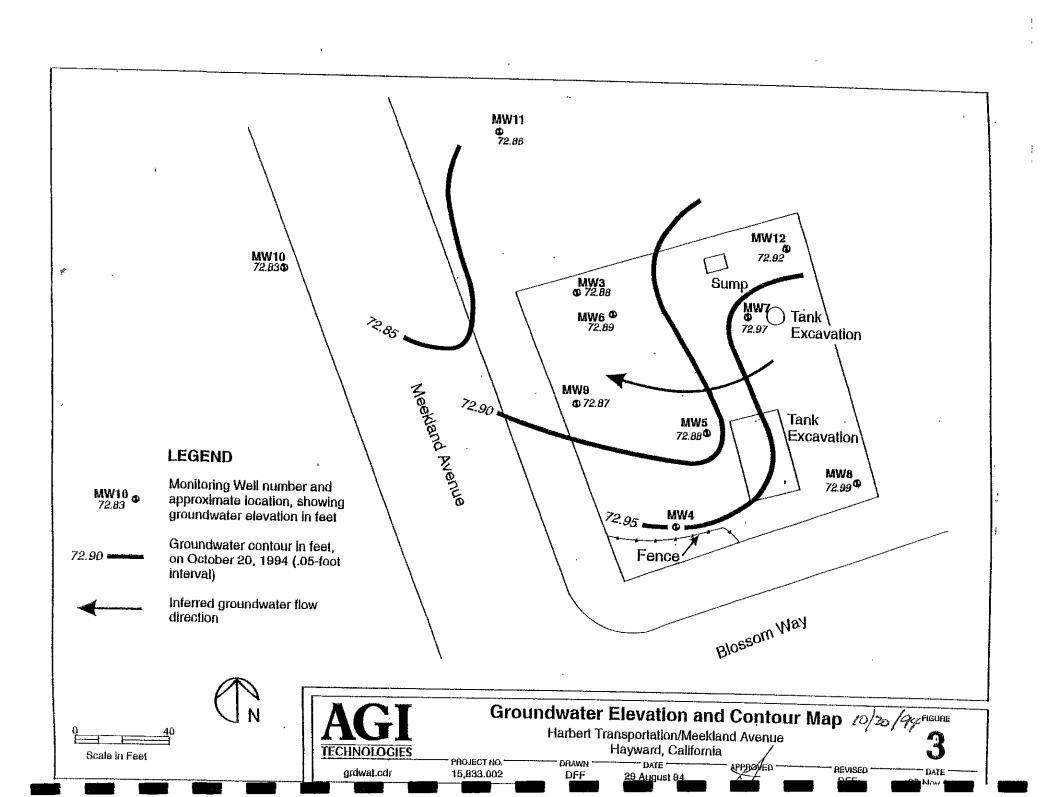


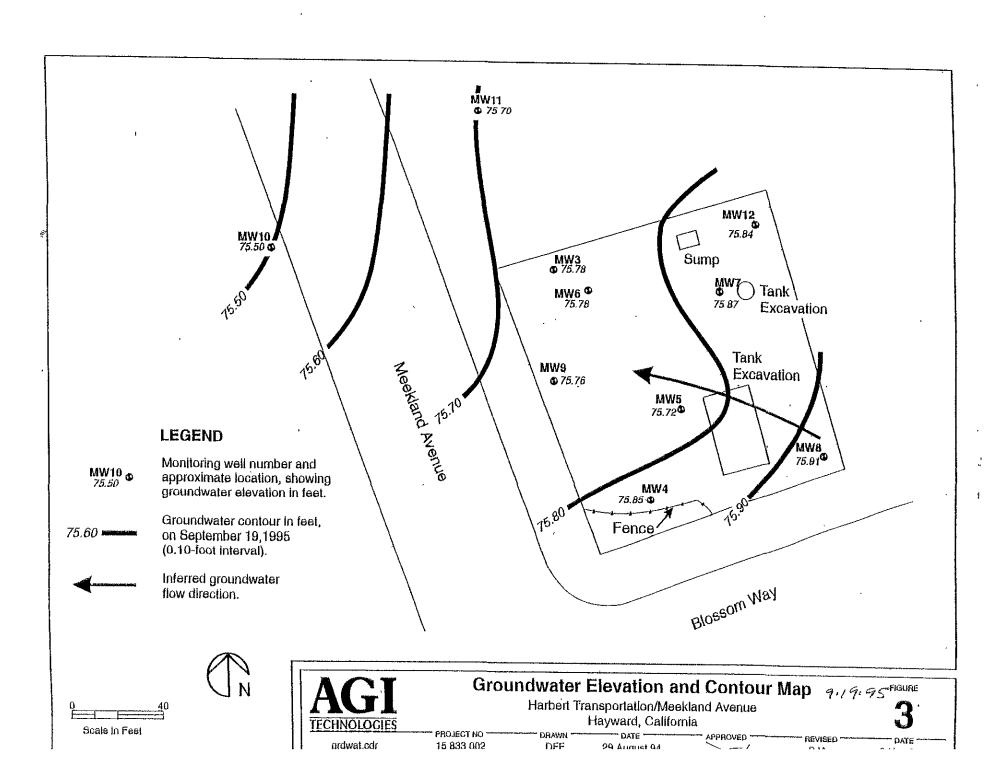
Table 1
Groundwater Elevation Data
Harbert Transportation/Meekland Avenue
Hayward, California

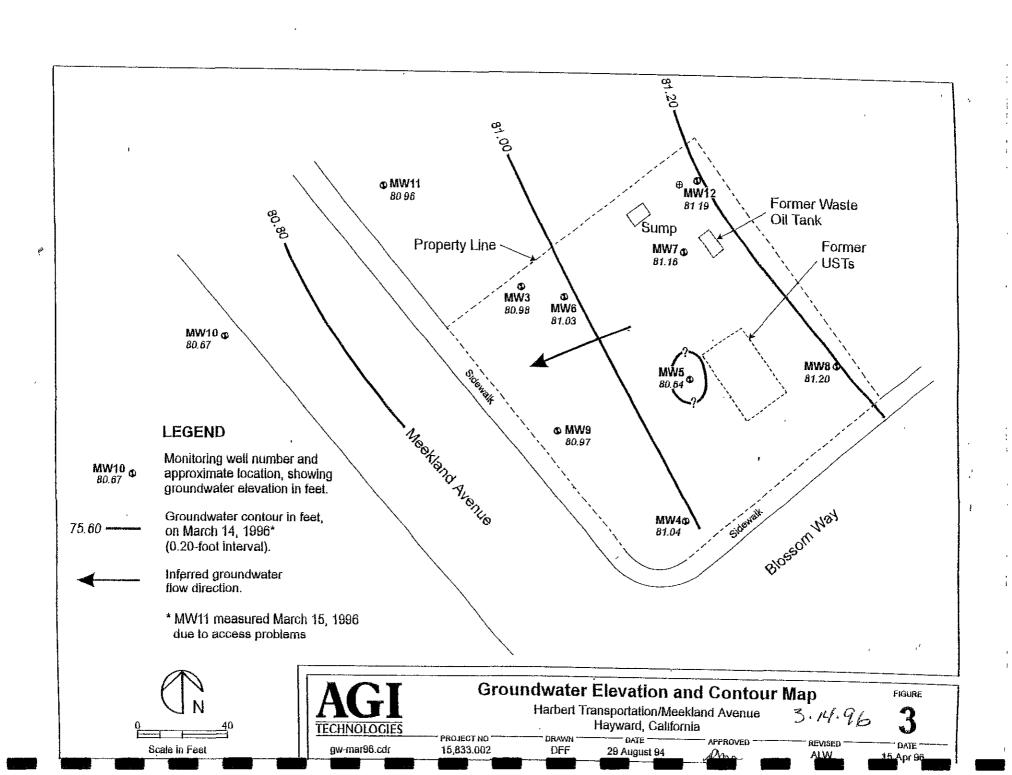
			1	
		Top of Casing	Depth to	Groundwater
Well	Date	Elevation	Groundwater	Elevation
Number	Sampled	(feet)	(ft bgs)	(feet)
MW3	10/20/94	100,00	27.12	72.88
,	09/15/95		24.22	75.78
	03/14/96		19.02	80,98
	09/26/96		23.61	76.39
MW4	10/20/94	100.27	27.32	72.95
1	09/15/95		24.42	75.85
	03/14/96		19.23	81.04
1	09/26/96		23.85	76.42
MW5	10/20/94	100.59	27.71	72.88
	09/15/95		24.87	75.72
	03/14/96		19.95	80.64
	09/26/96		24.38	76:21
MW6	10/20/94	100,57	27.68	72.89
1	09/15/95		24.79	· 75.78
f	03/14/96		19.54	81.03
-	09/26/96		24.20	76.37
MW7	10/20/94	101.22	28.25	72.97
}	09/15/95	ļ	25.35	75.87
j	03/14/96		20.06	81.16
	09/26/96		24.75	76,47
MW8	10/20/94	100.72	27.73	72.99
}	09/15/95		24.81	75.91
	03/14/96		19.52	81.20
	09/26/96		24.13	76,59
MW9	10/20/94	99.77	26.90	72.87
	09/15/95		24.01	75.76
ĺ	03/14/96	}	18.80	80.97
	09/26/96		23.50	76.27
MW10	10/20/94	99.29	26,46	72.83
	09/15/95		23.79	75.50
	03/14/96	j	18.62	80.67
Í	09/26/96		23.30	75.99
MW11	10/20/94	99.75	26.89	72.86
ļ	09/15/95		24.05	75.70
	03/15/96	į	18.79	80.96
	09/26/96		23.53	76.22
MW12	10/20/94	101.03	28.11	72,92
	09/15/95		25.19	75.84
	03/14/96		19.84	81.19
	09/26/96		24.57	76.46

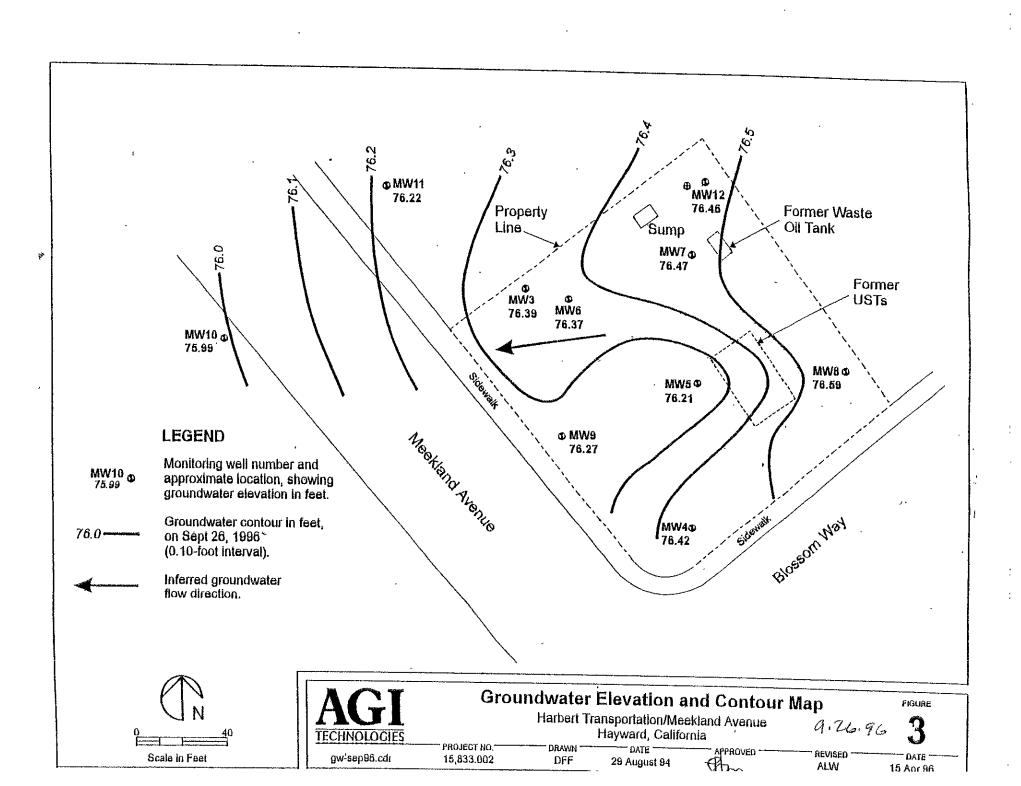
Note:

ft bgs - Feet below ground surface.









Groundwater Monitoring Report - First Quarter 2002 19984 Meekland Avenue, Hayward, California May 2, 2002

Appendix C

Certified Analytical Report - Groundwater Samples

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

April 08, 2002

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

Order: 29434

Date Collected: 3/21/2002

Project Name: Harbert Transportation

Date Received: 3/25/2002

Project Number: H9042.Q

P.O. Number: H9042.Q

Project Notes:

On March 25, 2002, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix

Test

<u>Method</u>

Liquid

EPA 8015 MOD. (Purgeable)

EPA 8020

MTBE by EPA 8260B

Dambero Dec

Gas/BTEX/MTBE

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 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: Chad Taylor

Date: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID:	29434	Lab Sa	ımple II	D: 2943	4-001		Client San	iple ID: MW	7-3	
Sample Time:		Sam	ple Dat	e: 3/21/	2002]	Matrix: Liqi	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	0.94		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Toluene	2.5		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Ethyl Benzene	12		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, o	4.8		l	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, m+p	6.9		1	1	1	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga	te	Surr	ogate Recovery	Contr	rol Limits (%)
				4-B	romofluore	benzene		122.8	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/L	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga	te	Surre	ogate Recovery	Conti	rol Limits (%)
				4-B	romofluore	benzene		122.8	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	240		1	50	50	μg/L	N/A	3/29/2002	WGC62380	EPA 8015 MOD (Purgeable)
					Surroga	te	Surr	ogate Recovery	Cont	rol Limits (%)
				4-B	romofluoro	benzene		154.1	6:	5 - 135
Comment:	Surrogate recovery ou	of control	limite dua	to metriv	interferenc	۵				

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

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: 04/08/02

Date Received: 3/25/2002

Project Name: Harbert Transportation

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

Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	ımple I	D: 2943	4-002		Client San	iple ID : MV	7-4	
Sample Time:		Sam	ple Dat	e: 3/21/	2002]	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	3/29/2002	WGC62380	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, o	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, m+p	ND		1	1	1	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
•					Surroga	ite	Surr	ogate Recovery	Cont	rol Limits (%)
				4-B	romofluoro	obenzene		115.7	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/L	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga	, _	Surre	ogate Recovery	Conti	rol Limits (%)
				4-B	romofluoro			115.7	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	3/29/2002	WGC62380	EPA 8015 MOD (Purgeable)
					Surroga	ite	Surre	ogate Recovery	Contr	ol Limits (%)
				4-B:	romofluoro	benzene		110.6	65	5 - 135

DE = 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

^cEnvironmental 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: Chad Taylor

Date: 04/08/02

Date Received: 3/25/2002

Project Name: Harbert Transportation

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

Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	ample I	D: 2943	4-003		Client San	nple ID: MV	V-5	
Sample Time:		Sam	ple Dat	te: 3/21/	2002]	Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	11		1	0.5	0.5	μ g /L	N/A	3/29/2002	WGC62380	EPA 8020
Toluene	9.4		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Ethyl Benzene	28		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, o	29		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, m+p	33		1	1	1	$\mu g/L$	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Cont	rol Limits (%)
				4-B	romofluoro	benzene		123.0	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/L	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Cont	rol Limits (%)
				4-B:	romofluoro	benzene		123.0	6.	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	360		1	50	50	μ g /L	N/A	3/29/2002	WGC62380	EPA 8015 MOD (Purgeable)
					Surroga	ite	Surre	ogate Recovery	Conti	rol Limits (%)
				4-B	romofluoro	benzene		127.3	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

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: 04/08/02

Date Received: 3/25/2002

Project Name: Harbert Transportation

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

Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	mple I	D: 2943	4-010		Client San	iple ID: MW	7-6	
Sample Time:		Sam	ple Dat	e: 3/25/	5/2002 Matrix: Liquid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	0.77		1	0.5	0.5	μg/L	N/A	3/30/2002	WGC62380B	EPA 8020
Toluene	1.2		1	0.5	0.5	μg/L	N/A	3/30/2002	WGC62380B	EPA 8020
Ethyl Benzene	39		1	0.5	0.5	μg/L	N/A	3/30/2002	WGC62380B	EPA 8020
Xylene, o	0.60		1	0.5	0.5	μg/L	N/A	3/30/2002	WGC62380B	EPA 8020
Xylene, m+p	2.6		1	1	1	μg/L	N/A	3/30/2002	WGC62380B	EPA 8020
					Surroga	ite	Surre	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluoro	benzene		102.8	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	8.0		1	5	5	μg/L	N/A	3/30/2002	WGC62380B	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
	4-Bromofluoroben				benzene		102.8	65	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	750		1	50	50	μg/L	N/A	3/30/2002	WGC62380B	EPA 8015 MOD (Purgeable)
					Surroga	ite	Surre	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluoro	benzene		334.7	65	5 - 135
				999	a-Trifluoro	toluene		93.8	65	5 - 135

DF = Dilution Factor

Comment:

ND = Not Detected

High surrogate recovery due to sample matrix.

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti 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: Chad Taylor Date: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	ımple I	D: 2943	4-004		Client San	nple ID: MV	V7	
Sample Time:		Sam	ple Dat	te: 3/21/	2002		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	3/29/2002	WGC62380	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, o	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, m+p	ND		1	1	1	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Conti	ol Limits (%)
				4-B	romofluor	benzene		124.0	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	3/29/2002	WGC62380	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				4-Bi	omofluoro			124.0	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μ g /L	N/A	3/29/2002	WGC62380	EPA 8015 MOD (Purgeable)
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				4-B	omofluoro	benzene		115.6	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)

Patti 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: Chad Taylor

Date: 04/08/02

Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q

P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	mple I	D: 2943	4-005		Client San	iple ID: MV	V-8	
Sample Time:		Sam	ple Dat	e: 3/21/	2002]	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	3/29/2002	WGC62380	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Ethyl Benzenc	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, o	ND		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
Xylene, m+p	ND		1	1	1	μg/L	N/A	3/29/2002	WGC62380	EPA 8020
•					Surroga		Surr	ogate Recovery	Cont	rol Limits (%)
				4-B	romofluoro	benzene		117.0	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/L	N/A	3/29/2002	WGC62380	EPA 8020
					Surroga		Surre	gate Recovery	Conti	rol Limits (%)
				4-Bi	romofluoro			117.0	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	3/29/2002	WGC62380	EPA 8015 MOD. (Purgeable)
					Surroga	ite	Surre	gate Recovery	Conti	ol Limits (%)
				4-Bi	omofluoro	benzene		1117	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)

Patti 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: Chad Taylor Date: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 2	9434	Lab Sa	ımple I	D: 2943	4-006		Client San	ıple ID: MW	7-9		
Sample Time:		Sam	ıple Dat	te: 3/21/	2002		Matrix: Liquid				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	26		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020	
Toluene	4.6		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020	
Ethyl Benzene	50		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020	
Xylene, o	11		1	0.5	0.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020	
Xylene, m+p	41		1	1	1	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020	
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)	
				4-B	romofluoro	benzene		132.7	65	3 - 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	3/29/2002	WGC62380B	EPA 8020	
•					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)	
				4-B	romofluore	benzene		132.7	65	5 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	510		1	50	50	μg/L	N/A	3/29/2002	WGC62380B	EPA 8015 MOD (Purgeable)	
					Surroga	te	Surr	ogate Recovery	Contr	ol Limits (%)	
				4-B	romofluoro	benzene		173.6	65	5 - 135	
				aaa	a-Trifluoro	toluene		70.9	65	5 - 135	
Comment: H	ligh surrogate recover	y due to sa	mple mat	rix.							

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: Chad Taylor Date: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	mple I	D: 2943	4-007	-	Client San	aple ID: MV	V-10	
Sample Time:			•	te: 3/21/			Matrix: Liquid			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		5	0.5	2.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020
Toluene	11		5	0.5	2.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020
Ethyl Benzene	3.1		5	0.5	2.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020
Xylene, o	ND		5	0.5	2.5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020
Xylene, m+p	ND		5	1	5	μg/L	N/A	3/29/2002	WGC62380B	EPA 8020
• • •					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluoro	benzene		154.6	65	5 - 135
				aa	a-Trifluoro	toluene		81.3	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	3/29/2002	WGC62380B	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluor	benzene		154.6	65	5 - 135
				aaa	a-Trifluoro	toluene		81.3	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1500		5	50	250	μ g /L	N/A	3/29/2002	WGC62380B	EPA 8015 MOD (Purgeable)
					Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluoro	benzene		153.7	65	5 - 135
					a-Trifluoro			69.6	65	5 - 135

DF = Dilution Factor

Comment:

ND = Not Detected

High surrogate recovery due to sample matrix.

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti 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: Chad Taylor Date: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434		Lab Sa	ample I	D: 2943	4-008		Client San	ple ID: MV	V-11	
Sample Time:		San	ple Dat	te: 3/21/	2002		Matrix: Liquid			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	$\mu g/L$	N/A	4/1/2002	WGC62383	EPA 8020
Toluene	ND		1	0.5	0.5	$\mu g/L$	N/A	4/1/2002	WGC62383	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L	N/A	4/1/2002	WGC62383	EPA 8020
Xylene, o	ND		1	0.5	0.5	μg/L	N/A	4/1/2002	WGC62383	EPA 8020
Xylene, m+p	ND		1	1	1	μg/L	N/A	4/1/2002	WGC62383	EPA 8020
					Surroga	ıte	Surre	ogate Recovery	Cont	rol Limits (%)
				4-B	romofluoro	benzene		110.2	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/L	N/A	4/1/2002	WGC62383	EPA 8020
					Surroga		Surre	ogate Recovery	Contr	rol Limits (%)
				4-B:	romofluoro			110.2	65	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	4/1/2002	WGC62383	EPA 8015 MOE (Purgeable)
					Surroga	ite	Surre	ogate Recovery	Contr	rol Limits (%)
				4-B	romofluoro	benzene		108.3	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)

Patti Sandrock, OA/OC 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: Chad Taylor

Date: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

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

Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 2	9434	Lab Sa	mple I	D: 2943	4-009		Client Sam	ple ID: MV	V-12	
Sample Time:		Sam	ple Dat	te: 3/21/2002			I	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	4/2/2002	WGC62380B	EPA 8020
Toluene	ND		1	0.5	0.5	$\mu g/L$	N/A	4/2/2002	WGC62380B	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	$\mu g/L$	N/A	4/2/2002	WGC62380B	EPA 8020
Xylene, o	ND		1	0.5	0.5	μg/L	N/A	4/2/2002	WGC62380B	EPA 8020
Xylene, m+p	ND		1	1	1	μg/L	N/A	4/2/2002	WGC62380B	EPA 8020
					Surroga	ite	Surre	gate Recovery	Contr	ol Limits (%)
				4-B	romofluoro	benzene		137.7	65	- 135
				aaa	a-Trifluoro	toluene		84.8	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	4/2/2002	WGC62380B	EPA 8020
					Surroga		Surre	ogate Recovery	Contr	ol Limits (%)
				4-B	romofluoro			137.7	65	- 135
				aaa	a-Trifluoro	toluene		84.8	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	4/2/2002	WGC62380B	EPA 8015 MOD (Purgeable)
					Surroga	ite	Surre	gate Recovery	Contr	ol Limits (%)
				4-B	romofluoro	benzene		128.0	65	- 135
				aaa	a-Trifluoro	toluene		80.0	65	- 135
Comment: H	igh surrogate recover	y due to sa	mple mat	rix.						

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

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: 04/08/02 Date Received: 3/25/2002

Project Name: Harbert Transportation

Project Number: H9042.Q P.O. Number: H9042.Q Sampled By: Chad Taylor

Certified Analytical Report

Order ID: 29434	Lab Sample ID: 29434-007						Client San	V-10		
Sample Time:		Sam	ple Dat	e: 3/21/	2002]			
'arameter' 1ethyl-t-butyl Ether	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	4/1/2002	WMS11497	EPA 8260B
•					Surroga	ite	Surr	ogate Recovery	Contro	ol Limits (%)
				4-Bı	omofluoro	benzene		90.0	65	- 135
				Dib	omofluoro	methane		96.0	57	- 156
					Toluene-	d8		102.0	77	- 150

Order ID: 29434		Lab Sa	ımple 🛭	D: 2943	4-010		Client San	iple ID: MW	7-6	
Sample Time:		Sam	ple Dat	e: 3/25/	2002		Ţ	Matrix: Liq	uid	
Parameter Parame	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	4/1/2002	WMS11497	EPA 8260B
,					Surroga	ate	Surr	ogate Recovery	Contro	ol Limits (%)
				4-B	romofluor	obenzene		90.0	65	- 135
				Dib	romofluoro	omethane		94.0	57	- 156
					Toluene-	-d8		105.0	77	- 150

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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Quality Control Results Summary

QC Batch #:

WGC62380

Matrix: Li

Liquid

Units:

μg/L

Date Analyzed:

3/28/2002

Paramet	er	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	TPH a	is Gasoline										
TPH as C	Gasoline	EPA 8015	ND		121		127.54	LCS	105.4			65.0 - 135.0
		Surrogate		Surrog	ate Recove	ry		Limits (%)				ļ
Į		4-Bromofluorob	enzene		84.1		65 -	135				
Test:	BTEX	<u> </u>										
Benzene		EPA 8020	ND		8		8.38	LCS	104.8			65.0 - 135.0
Ethyl Ber	nzene	EPA 8020	ND		8		8.68	LCS	108.5			65.0 - 135.0
Toluene		EPA 8020	ND		8		8.18	LCS	102.3			65.0 - 135.0
Xylenes,	total	EPA 8020	ND		24		25.96	LCS	108.2			65.0 - 135.0
[Surrogate		Surrog	ate Recover	гу	Control 1	Limits (%)				
		4-Bromofluorob	enzene		91.0		65 -	135				
Test:	MTBI	E by EPA 802	0									
	butyl Ethe	•	ND		8		9.16	LCS	1145			65.0 - 135.0
ſ		Surrogate		Surrog	ate Recover	ту	Control l	Limits (%)				
		4-Bromofluorob	enzene		91.0	<u>_</u>	65 -	135				
Test:	TPH a	s Gasoline						·				
TPH as G		EPA 8015	ND		121		125.61	LCSD	103.8	1.52	25.00	65.0 - 135.0
ſ		Surrogate		Surrog	ate Recover	r y	Control l	Limits (%)				
		4-Bromofluorob	enzene		84.i		65 -	135				
Test:	BTEX					· ·- ·						
Benzene		EPA 8020	ND		8		8.32	LCSD	104.0	0.72	25.00	65.0 - 135.0
Ethyl Ber	nzene	EPA 8020	ND		8		8.63	LCSD	107.9	0.58	25.00	65.0 - 135.0
Toluene		EPA 8020	ND		8		8.01	LCSD	100.1	2.10	25.00	65.0 - 135.0
Xylenes,	total	EPA 8020	ND		24		25.66	LCSD	106.9	1.16	25.00	65.0 - 135.0
1		Surrogate		Surrog	ate Recover	у	Control I	Limits (%)				
		4-Bromofluorobo	enzene	_	91.0		65 -	135				
Test:	MTRI	E by EPA 8020	<u> </u>									
	butyl Ethe		ND		8		9.18	LCSD	114.8	0.22	25.00	65.0 - 135.0
]		Surrogate		Surrog	ate Recover	·y	Control I	Limits (%)				
		4-Bromofluorobe	enzene	0	91.0	•	65 -	• ,				

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Quality Control Results Summary

QC Batch #:

WMS11497

Matrix: Liquid

Units:

μg/L

Date Analyzed:

4/1/2002

Parameter		Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test:	EPA 826	60B			•							
1,1-Dichlore	oethene	EPA 8260B	ND		20		20.2	LCS	101.0			57.3 - 132.4
Benzene		EPA 8260B	ND		20		21.8	LCS	109.0			65.0 - 135.0
Chlorobenze	ene	EPA 8260B	ND		20		22.1	LCS	110.5			65.0 - 135.0
Methyl-t-bu	tyl Ether	EPA 8260B	ND		20		20.7	LCS	103.5			56.0 - 135.0
Toluene	•	EPA 8260B	ND		20		21.3	LCS	106.5			65.0 - 135.0
Trichloroeth	nene	EPA 8260B	ND		20		21.7	LCS	108.5			69.7 - 143.5
	Su	rrogate		Surrog	ate Recover	ry	Control I	imits (%)				
	4-	Bromofluorobe	nzene		91.0		65 -	135				
	Di	bromofluorom	ethane		102.0		57 -	156				
	To	luene-d8			107.0		77 -	150				
Test:	EPA 826	60B										
1,1-Dichlore	oethene	EPA 8260B	ND		20		18.7	LCSD	93.5	7.71	25.00	57.3 - 132.4
Benzene		EPA 8260B	ND		20		20.6	LCSD	103.0	5.66	25.00	65.0 - 135.0
Chlorobenze	ene	EPA 8260B	ND		20		21.2	LCSD	106.0	4.16	25.00	65.0 - 135.0
Methyl-t-bu	tyl Ether	EPA 8260B	ND		20		19.9	LCSD	99.5	3.94	25.00	56.0 - 135.0
Toluene		EPA 8260B	ND		20		20 3	LCSD	101.5	4.81	25.00	65.0 - 135.0
Trichloroeth	iene	EPA 8260B	ND		20		20.6	LCSD	103.0	5.20	25.00	69.7 - 143.5
	Su	rrogate		Surrog	ate Recover	ry	Control I	Limits (%)				
	4-	Bromofluorobe	nzene		91.0		65 -	135				
	Dı	bromofluorom	ethane		100.0		57 -	156				
	То	luene-d8			108.0		77 -	150				



Weber, Hayes & Associates

CHAIN -OF-CUSTODY RECORD

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

PAGE OF (

				(00.,										•		
PROJECT N	NAME AND JOB #.	Harbert Trans	porta	tion /	H9042.Q				** *****		L	ABORATORY.	Entech			
SEND CERTIFI	ED RESULTS TO:	Chad Taylor				···········					TURNA	ROUND TIME:	Normal	24hr Rush	48hr Rush	72hr Rush
ELECTRONIC DELIVE	ERABLE FORMAT.	X	YES		МО							GLOBAL I D.:	T0600100	475	•	
		,			SAM	IDI E CO	NTAINE	De .			REC	QUESTED A	NALYSIS			
					المر المراد	11 LL 00	MIME		Total Pet	roleum Hydr	ocarbons	Volatile 0	rganics	Add	itional Anal	/sis
Field Point Name (GeoTracker)	Sample Identification	Sample Depth		ate ipled	40 mL VOAs (preserved)	1 Liter Amber Jars	mL Poly Bottle	Liner Acetate or Brass	Extractables as Diesel	Purgeable Fuel-Scan	Gasoline & BTEX-MTBE by EPA Method# 8015M-&-8020	1,2-DCA by by EPA Method# 8010	Solvents by by EPA Method# 8010	Fuel Oxygenates by EPA Method 8260	Title 22. General, Physical and Inorganic Minerals	
MU-3	44. 3 2	23.02	321	I_	S			<u> </u>	<u> </u>		X		i	 _3	7434-	2006
MO-7	MW.3	22.29	261	100	5					<u></u>	<u>^</u>		1		7424	02
	MU-5	30.84			5	 	 	 			<u> </u>			 -	E	
MW.6	MU-6	22.61			<u> </u>		 				X			 -	LA.	73 V
	MU-I	23,61		-	5						×					
MU.8 MU.8	WM-8	23.42	 		S								-			04
MU-9	MW.9	SI.88,	1 1		s		<u>.</u>		<u> </u>		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \					25
MW-10	MW-10	21.64	1		6	_		-			^			 	OC	×2
	MU-II	21.84'	1		5		<u> </u>		-		<u> </u>	-			<u>el</u>	/
MU-12 MU-13	MM·15	22.90	1		5		 	 	 		<i>X</i>				00	
MUNL	Mm.15	PE-10	 '	<u> </u>	3		 	 		<u>-</u>	K				_004	7
	 		 													
			<u> </u>		1	 		<u> </u>				<u> </u>	L			
RECEIVE	ED BY:	!	Date &	<u>Time</u>			. 1 1	REL	EASED BY:		<u> Date 8</u>	<u>Time</u>	SAI	MPLE CONDITION (circle 1)	ON.	
Sampler		<u>-3</u>	21/62	170	> —		11+				3/25/	or@ 9:000	Ambient /	Refrigerated	> Frozen	
1		3/2	5/02	P 8	?00a	-		1-	Dienn		Z/ze/es	Q 8:11am	· Ambient	Refrigerated	`	
Tay 3			175	1.	SID		1	gra 5	menu		72/76	11 00			Frozen	
Charle	my	. 9	14	زكم		•	<u>U7</u>	71	resur		_ = 2/20	16-	Ambient	Refrigerated	Frozen	
Undyka		<u></u>	[Z5]	102-1	400-	>							Ambient	Refrigerated	Frozen	
		<u>-</u>				-					<u> </u>		Ambient	Refrigerated	Frozen	
NOTES:									ADDIT	IONAL COM	MENTS			<u>_</u>		 j
If MTBE is detected by EPA confirmed 8260 detections	A Method 8020, please o	onfirm detections by E	PA Meth	od 8260 i	with a minimum di	etection limit	of 5 ug/L, and	report only			nd e-mail an	EDF of thes	e results 1	to tina@we	eber-haye:	s.com.
For MTBE-analyzed sample	es with non-detectable re	sults (ND) but having	ı elevated	detection	n limits, please co	nfirm by EPA	Method #826		1							
Biassa usa MDI (Marayan									1							1

Groundwater Monitoring Report - First Quarter 2002 19984 Meekland Avenue, Hayward, California May 2, 2002

Appendix D

Summary of Historical Groundwater Analytical Results - AGI Technologies, Inc.

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California



						EPA Test Met	nod s					
		1	015 Modified			8020				8010		
	Date	TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PGE	1,2-DCA	Other
Well	Sampled		μ g/L			μg/L				HØ/L		μg/L
MW1	07/86	42,000	NA	NA	5,500	NA	4,900	6,100	NA			
	03/90	. 27,000	NA	NA	2,700	491	840	800	ND	NA	NA	
	07/90	27,000	11,000	ND	4,000	ND	1,500	4,400		ND	ND	
	10/90	43,000	8,500	. ND	3,400	1,200	2,700	5,360	ND 0.4	ИD	62	
	01/91	22,000	2,700	ND	3,000	990	1,800	2,800	9.4 ND	ND	26	
	04/91	42,000	3,100	NA	5,100	1,200	3,700	3,200	ND ND	ND	27	
	07/91	46,000	4,300	NA	6,500	830	2,900	3,700	ND	ND	120	
	10/91	27,000	4,300	NA	4,400	1,100	1,400	3,200		ND	64	
	01/92	27,000	14,000	NA	3,300	1,200	1,600	3,800	ND	ND	. 25	
	04/92	33,000	11,000	NA	8,900	1,200	3,500	3,700	ND	ND	24	
	07/92	41,000	19,000	NA	5,600		2,600	4,800	ND	ND	120	
	10/92	33,000	3,500 ^a	NA	4,400	1,200	2,100	4,000	ND	ND	49	
EWM	11/89	29,000	NA	NA	4,600	680	1,100	1,100	ND ND	, ND	61	
	11/89	NA NA	NA	NA	NA.	NA.	AM.	I, 100 NA		ND	36	Lead 40
	03/90	12,000	NA	NA	2,300	59	300	490	ND	ND	36	Lead 40
	07/90	7,300	990	ND	5,200	ND	440	480	DA DA	ND	ND	ů.
	10/90	6,200	970	ND	75	7.5	150	250		ND	67	
	10/90	NA	NA	NA	NA.	NA.	NA.	NA NA	ND	ND	48	
	01/91	4,600	680	ND	2,200	220	110		ND	ND	22	Lead 3
	04/91	8,300	640	NA	2,800	370	490	760	ND	ND	40	
	07/91	6,600	890 =	NA	2,000	250	230	380	ND ND	ND	43	
	10/91	6,300	1,700 ^a	NA	2,000	410	330			ND	20	
	01/92	4,000	790 ^a	NA	1,200	250	50 60	550	ND	ND	27	
	04/92	7,400	1,800 *	NA	730	370	180	200 640	ND	ND	22	
	07/92	3,000	2,400	NA	190	ND	2.8	410	MD MD	ND	19	
	10/92	5,000	970 ^a	NA	1,300	320	·45	340	ND	DM OM	30	
	01/93	2,300	680 ^a	NA (2)	630	180	31	330	ND	DN DN	26	
	06/93	5,000	1,100 ^a	ND	730	240	43	380	ND	ND MD	13 13	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California



						EPA Test Meth	ods				4	
			8015 Modified	t		8020				8010		
Well	Date Sampled	TPH-G	TPH-D µg/L	TPH:MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	Other
*******	20000	200000000000000000000000000000000000000				μg/L				Hg/L		μ <mark>ថ</mark> /L
MW4	11/89	ND	NA	NA	33	1.3	1	5.2	NA	NA		
	03/90	ND	NA	NA	7.4	2	2	1.1	ND	ND	NA	Lead 12
	07/90	ND	ND	ND	ND	ЙD	ИD	ND	ND		ND	
	10/90	ND	ND	ND	ДИ	ND	ND	. ND	0.7	ND	0.9	
	01/91	80	ND	ND	9.2	2.4	1.7	0.7	ND D	ND	0.5	
	04/91	1,400	130 *	NA	2,200	72	ND	17	ND	ND	ND	
	07/91	130	ND	NA	14	3.3	9.7	ND	ND	ND	ND	
	10/91	ND	ИD	NA	5.3	1	ND	8.0	ND ND	ND	0.81	
	01/92	ND	ND	NA	6.8	1.3	ND	ND	ND .	ND	NO	
	04/92	780	130 ª	NA	ND	51	ND	4.8	ND	ND	ND	
	07/92	ND	ND	NA	ND	ND	ND	ND	ND	ND	1.6	
	10/92	100	ИD	NA	9.5	ND	ND	2.6		ND	1.3	
	01/93	960	240 ^a	NA	200	41	4.6	9.4	ND	• ND	ND	
	06/93	650	140 🖺	ND	150	21	ND	ND	ND	ИD	1	
MW5	10/90	9,600	1,900	ND	1,200	70	160	520	ND ND	ND ND	3.7	
	01/91	10,000	1,200	ND	1,600	720	200	- 4	ND ND	UN.	22	Lead 3
	04/91	18,000	860 #	NA	2,500	550	580	510	ND	ND	33	
	07/91	15,000	2,200	NA	4,800	610	1,100	500	ND	ИD	61	
	10/91	14,000	3,300 *	NA	5,000	530	820	760	ND	ND	62	
	01/92	12,000	1,900 🖺	NA	4,300	, 390	380	800	ND	ND	49	
	04/92	23,000	6,400	NA	8,600	ND	2,600	590	ND	ND	56	
	07/92	27,000	5,900	NA	6,000	ND	-	1,900	ND	ND	125	
	10/92	13,000	2,100 ^a	NA	4,600		1,500	1,600	ND	ND	93	
	01/93	18,000	1,900	NA NA	5,800	140	470	550	ND	ND	59	
	01/93	19,000	2,100	NA	4,600	560 370	1,900	1,600	ND	ND	110	
	06/93	22,000	2,900	ND	8,300		1,600	1,400	ИD	ND	120	
	06/93	23,000	2,300 ^a	ND	9,600	740	2,500	1,900	ND	ND	110	
		1	-1004	1111	T 9,000	730	3,000	1,000	ND	ND	110	





						EPA Test Meth	ad s				T.	
			801\$ Modiffe	į		8020				8010		
Well	Date Sampled	TPH-G	TRH-D Ju/L	TPH-MO	Benzene	Ethylbenzene µg/L	Toluene	Total Xylenes	TOE	PGE µg/L	1;2:DCA	Other
MW6	10/90	27,000	4,700	ND	2,700	450	2,900	3 300	NO			µ g/L
	01/91	7,200	1,600	ИD	1,400	ND	2,800	3,300	ND	ND	40	Lead 9
	04/91	17,000	800	NA	2,800	610	1,200	830	ИD	ND	23	
	07/91	11,000	1,400 ⁸	NA	1,200	ND	380	1,800	ND	ND	53	
	10/91	4,800	1,600 *	NA ·	380	69	340	750 730	ND	ND	29	
	01/92	6,100	1,200	NA	460	180	200	590	ND at	∫ ND	22	
	04/92	7,200	1,800	NA	340	350	460	920	МD	ND	26	
	07/92	8,600	1,700	NA	1,300	380	280	1,100	ND	ND	30	
	10/92	1,600	110 *	NA	230	70	20	88	ND .	ND	35	
	01/93	13,000	2,100 a	NA	2,500	370	540	2,400	ND ND	ДИ	24	
	06/93	7,400	1,900	ND	1,500	480	120	1,400	ND ND	NĎ	36	
MW7	10/90	14,000	2,700	ND	390	ND	18	1,200	ND ND	, 1.3	29	
	01/91	4,500	1,400	ND	320	42	48	350	ND	, 1.3 ND	14	Lead 11
	04/91	2,400	NA	NA	320	77	62	130	ИD	0.6	10	
	07/91	2,000	910 *	NA	470	ND	24	88	ND	ND	11 9.7	
	10/91	ND	370 ª	NA	ND	ND	ND	ND	ND	0.68	4.5	
	01/92	1,100	290 *	NA	230	45	7	88	ND	3.5	6.4	
	04/92	1,700	520 ^a	NA	310	78	28	170	ND	0.5	1	
	07/92	1,900	590 ^A	NA	410	78	21	170	ND	2.1	3.2 8.7	
	07/92 (dup)	1,200	700 *	NA	21	1	2.6	90	ND	2.1	8.2	
	10/92	1,800	320 *	NA	410	31	11	75	ND	1	7.4	
	01/93	2,100	660 ^a	NA	390	100	21	270	ND	0.6	3.7	
	06/93	4,400	1,100 ^a	ND	830	330	49	620	ND	ND	8.6	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California



						EPA Test Meti	ods					
			8016 Modifie	d		8020				8010		
Man	Date	TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TGE	PCE	1,2:DCA	Other
Well	Sampled		hā/L			HâjF				µg/L		
MW8	02/91	, ND	ИD	NA	ND	ND	ND					ji g /L
	04/91	ND	ND	NA	ND	ND	ND ND	ND	ND	ND	ND	
	07/91	ND	ND	NA	ND	ND	ND 2	ND	ND	0.5	ND	
	10/91	ND	ND	NA	ND	ND	2 0.6	ND	ND	1.2	ИD	
	01/92	ND	ND	NA	ND	ND	ND	, ND	ND	0.4	ND	
	04/92	ND	ND	NA	ND	ND	ND	ND	ND	0.68	ND	
	07/92	ND	ND	NA	ND	ND	3.3	ND	ND	0.8	ND	
	10/92	ND	ND	NA	ND	ND	ND	ND ND	, ND	1.6	ND	
	01/93	ND	ND	NA	ND	ND	ND	ND	ND ND	1.4	. ND	
	06/93	ND	מא	ND	ND	ND	ИD	ND	ND ND	0.8 1.4	ND	
WW9	02/91	6,000	1,600	NA	180	19	170	200	ND ND		ND	
	04/91	4,200	410 *	NA	520	130	410	580	ND	ND	-13	
	07/91	1,900	180 *	NA	190	12	52	77	ND	→ ND 6.5	26	
	10/ 9 1	880	300	NA	160	31	44	83	ND	ND	12	
	01/92	380	120 *	NA	14	7.6	2.2	14	ИD	ND	10	
	04/92	2,900	700 *	NA	· 510	80	266	260	ND	ND	9.6	
	07/92	4,400	1,300 *	NA	860	210	340	640	ND	ND	11	
	10/92	200	296	NA	6.8	1.4	2.1	7.8	ND	ND	22	
	01/93	8,500	740 *	NA	2,400	390	620	1,500	ND	ND	12 29	
MW10	06/93	8,200	1,300	ND	2,400	360	480	1,500	ND	ND ND	29	
IMAA 10	01/92	13,000	3,700 ⁸	NA	130	580	110	3,000	ND	ND	33	
	05/92	15,000	0,000	NA	180	NĎ	18	2,700	ND	ND	20	
	05/92 (dup)	13,000	7,500	NA	240	490	65	2,500	ND	ND	22	
	07/92	8,100	4,400 ^a	NA	74	360	ND	1,106	ND	ND	29	
	10/92	3,200	1,500	NA	ND	NĎ	ND	320	ND	ND	25	
	01/93	7,500	2,200 8	NA	130	170	.50	710	ND	ND	18	
L	06/93	8,000	2,100 ^R	ND	69	7.9	ND	490	ND	ND	16	

Table 2
Summary of Historical Groundwater Analytical Data
Harbert Transportation/Meekland Avenue
Hayward, California



6833 00417-W-01-1 000

						EPA Test Metr	lods					
			1015 Modifie	i		8020		Total		8919		
Well	Date Sampled	TPH-G	TPH-D µg/L	TPH-MO	Benzene	Ethylbenzene	Toluene	Xylenes	TOE	PGE	1,2-DCA	<u> O</u> ther
379 N.S. N.						h a /c				µg/L		HØ/L
MW11	01/92	8,200	3,200 *	NA	23	250	ND	1,100	ND	AUD		
•	04/92	180	1,200	NA	ND	ND	ИĐ	ND	ND DN	ND	ND	
	07/92	2,100	710 *	NA	39	100	2.3	53	ND	ND	ND	
	10/92	660	220 *	NA	2.9	19	ND	3.8	ND	ND	ND	
	10/92	770	230 🖁	NA	3.2	26	ND	5.7	ИD	ND	ND	
	01/93	780	370	NA	10	2.1	ND	39	ND	DN DN	ND	
	06/93	2,500	160	ND	27	99	ND	34	ND	ND	ND	
MW12	12/92	2,800	1,700 a	NA	14	ND	ND	ND	ND	GN	ND ND	<u> </u>
	06/93	1,100	750 *	ND	19	21	ND	57	ND '	. DN	ND	
B1	01/93	ND	ND	NA	ND	ND	ND	ND	ND	~	ND	
	06/93	ND	ND	ND	ΝD	ND	ND	ND	ND	ND	ND	
F3	02/93	NA	NA .	NA	NA	NA	NA NA	NA	NA NA	ND NA	ND	
Well	12/89	1,800	NA	NA	200	24	18	34	ND ND	, <u>NA</u>	NA NA	
Abandoned							10	J-1	MD	ND	0.15	Lead 2,100
Average b		8,865	1,883	250	4 500		·····					
Laboratory C)etection	 		250		235	517	871	0.21	0.41	24.8	
Limit		50	50	500	0.5	0.5	0.5	0.5	0.4	0.4	0.4	

Notes.

- a) The detection for petroleum hydrocarbons as diesel appears to be due to the presence of lighter hydrocarbons rather than diesel.
- b) Average of sampled data, ND equals 1/2 detection limit.
- μg/L. Micrograms per liter is approximately equivalent to parts per billion, depending on density of water.

NA - Not analyzed.

ND - Not detected.

TPH-G - Total petroleum hydrocarbons quantified as gasoline.

TPH-D - Total petroleum hydrocarbons quantified as diesel.

TPH-MO - Total petroleum hydrocarbons quantified as motor oil.

TCE - Trichloroethylene.

PCE - Tetrachloroethylene.

1,2-DCA - 1,2-Dichloroethane.



Table 2
Summary of Groundwater Chemical Analyses
Harbert Transportation/Meekland Avenue
Hayward, California

					EPA	est Metho	ds			
		8015	М		BETX 5030	/8020			8010	
	Date	TPH Gasoline	TPH Diesel	Benzene	Ethylbenzene	Toluene	Xylenes	1,2-DGA	PCE	TCE
Well	Sampled	µg/L	μg/L		pg/L			µg/L	Hg/L	Hg/L
MW3	07/28/94	7,700	970 *	1,800	810	ND	600			
	10/21/94	7,400	810	1,800	9 00	иD 37	600	22	ND	ND
	09/15/95	1, 100 NS	NS	300,1 8N	NS NS	87 NS	780	25	ND	ND
	03/14/96	NS	NS	NS	NS NS	NS	NS NS	N8	N8	NS
	09/26/96	NS	NS	NS	NS NS	NS NS	NS NS	NS	NS	. NS
MW4	07/28/94	120	ND	7.9				NS	NS	หร
1019 1 -1	10/21/94	69	ND	7.9 3.4	0.7 ND	1.1	ND	ND	. ND	ND
	09/15/95	110	ND	2.5	ND ND	ND	ND	ND	ND	ND
	03/14/98	300	69 b	3.3		0.85	ND	2.3	ND	ND
	09/26/96	ND	1 :		0.74	ND	ND	1.6	ND	ND
	08/20/80	MD	ND	ND	ND	ND	ND	1.2	'ND	ND
MW5	07/29/94	30,000	2,200	9,300	1,100	1,800	2,300	110	ND	ND
	10/21/94	23,000	1,500	7,900	780	1,500	2,900	85	ND	ND ON
	09/15/95	NS	NS	พร	NS	้ทธ	N8	NS	NS	NS.
	03/14/96	NS	NS	NS	NS	NS	NS	NS	NS	NS .
	09/26/96	NS	NS	NS	NS	NS	NS	NS	NS NS	NS NS
MW6	07/29/94	15,000	2,100 b	3,100	1,100	71	2,000	37		<u> </u>
	10/21/94	18,000	1,500	3,900		170	3,200	37 35	ND	ИD
	09/15/95	พร	NS	NS	NS	NS	0,200 NS	NS	ND	ND
	03/14/96	NS	NS	เมือ	NS	NS	NS NS	NS NS	NS No	NS .
	09/26/96	NS	NS	NS	NS	NS	NS NS	NS NS	NS NS	NS
MW7	07/29/94	2,600	530 ^c	470						NS
INIA K 1	10/21/94	1,700	280	290	220 140	ND 4.5	310	2.7	6	ND
	09/15/95	NS	NS	NS	NS	4.5 NS	240	1.8	0.74	ND
	03/14/96	NS	NS	NS	NS NS	ио 8И	NS NS	NS	NS	NS
	09/26/96	NS	NS	NS	NS NS	145 NS	NS NS	NS	NS	NS
	70,20,00	1,10	1	110	140	149	140	NS	NS	NS



Table 2
Summary of Groundwater Chemical Analyses
Harbert Transportation/Meekland Avenue
Hayward, California

					EPA T	est Metho	d s			
		8015	М		BETX 5030/	8020			8010	
	Date	TPH Gaspline	TPH Dieset	Benzene	Ethylbenzene	Tal				
Well	Sampled	ug/L	HB/F			Toluene	Aylenes	1/2-DGA	PCE	TGE
***************************************		718-1-	1.0.		halr			µg/L	µg/L	µg/L
8WM	07/28/94	ND	78 ^a	ND	ND	ND	ND	ND	MD	A.I.S.
	10/21/94	ND '	ИD	ND	ND ·	ND	ND	ND	ND 0.72	ND
	09/15/95	ND	ND	ND	ND	ND	ND	ND	0.72	ND
	03/14/96	ND	ND	ND	ND	ИD	ND	ДN	0.63	ND
	09/26/96	ND	ND	ND	ND	ND	ND	ND	ND	ND : ND
MW9	07/28/94	6,000	1,300 ⁶	90	170	27	370	26	ND	
	10/21/94	6,900	600	1,800	280	220	1,500	31	ND	· ND
	09/15/95	NS	NS	้หร	NS	. NS	NS	NS	NS ,	ND
	03/14/96	N\$	NS	NS	· NS	NS	NS NS	NS	NS NS	NS .
	09/26/96	NS	NS	NS	NS	NB	NS	NS	146 . 148	N8 N8
MW10	07/28/94	6,700	2,000 6	99	180	57	430	13		
i	10/21/94	8,600	2,000	93	200	ND	680	12	ND	ND
	09/15/95	2,100	1,900	9.9	49	ND	4.9	ND	ND	ND
	03/14/96	6,800	2,000 b	64	. 98	ND	4.8 33		ND	ND .
	09/26/96	7,100	420	140	210	ND	33 32	6.5	ND	ND
MW11	 		150	 .				9.1	ND	5.9
IVIVVII	07/28/94 10/21/94	450		6.2	20	1.1	6.6	ND	ND	ND
	1	460	190	4.9	14	ND	12	ND	ИD	ND
	09/15/95	9,600	550	130	180	ND	130	8.8	ND	5.6
	03/15/96	780	310 b	0.74	25	ИD	1.8	ИD	ND	ND
	09/26/96	480	710	ND	50	ND	ND	ИD	ND	ND



Table 2
Summary of Groundwater Chemical Analyses
Harbert Transportation/Meekland Avenue
Hayward, California

		8015	M		EPA 1 BETX:5030)	est Method 8020	is		8010	
Well	Bate Sampled	TPH Gasoling µg/L	TPH Diesei µg/L	Benzene I	Ethylbanzene µg/L	Toluena	Xylenes	1;2:DGA Hg/L	PGE Hg/L	TGE.
MW12	07/28/94 10/21/94 09/15/95 03/14/96 09/26/96	240 260 NS NS NS	160 190 NS NS NS	1.9 1.9 NS NS NS	12 4.5 NS NS NS	ND ND NS NS NS	5.8 6.8 NS NS NS	ND ND NS NS	ND ND NS NS NS	ND ND NS NS NS
Method Det	ection Limit	50	`50	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Notes:

- a) Hydrocarbons quantified as diesel are primarily due to discrete peaks not indicative of diesel fuel.
- b) Hydrocarbons quantified as diesel are primarily due to the presence of a lighter petroleum product (C₈-C₁₂), possibly gasoline.
- c) Hydrocarbons quantified as diesel are due to the presence of a lighter petroleum product (C₆-C₁₂) and discrete peaks not indicative of diesel fuel. 1,2-DCE 1,2-dichloroethane.

PCE - Tetrachloroethene.

TCE - Trichloroethene.

ND - Not detected at or above method detection limit.

NS - Not sampled.

TPH-Gasoline - Total petroleum hydrocarbons quantified as gasoline.

TPH-Diesel - Total petroleum hydrocarbons quantified as diesel.

μg/L - Micrograms per liter, equivalent to parts per billion.

