



Weber, Hayes & Associates
Hydrogeology and Environmental Engineering
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: Joe Hayes

re: Harbert Transportation, 19984 Meekland Avenue, Hayward, California

date: October 14, 2004

Number of Copies	Date of Documents	Description
1	October 14, 2004	<i>Semi - Annual Groundwater Monitoring Report Third Quarter 2004</i>

c: ~~Ms. Donna Drogos~~ Mr. Bob Schulze
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. Roger Brewer
California Environmental Protection Agency
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612



Weber, Hayes & Associates
Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, CA 95076
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Fax: (831) 722-1159

October 14, 2004
Project H9042.Q

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

Subject: Semi - Annual Groundwater Monitoring Report - Third Quarter 2004
Harbert Transportation
19984 Meekland Avenue, Hayward, California

Dear Mr. Harbert:

This report describes groundwater monitoring activities conducted by Weber, Hayes and Associates (WHA) at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California, during the third quarter 2004.

This former tank site was recommended for regulatory closure by WHA in August 2003, due to completed remediation action and low residual concentrations of hydrocarbons. Alameda County requested additional information and a restart of semi-annual groundwater monitoring in a letter dated May 13, 2004. WHA submitted a revised Site Conceptual Model, and a Workplan for additional investigation dated July 30, 2004, including:

- Task 1: Pre-field Activities
- Task 2: Department of Water Resources (DWR) ½ Mile Well Radius Search
- Task 3: Field Verification of Wells: Permitted and Un-permitted
- Task 4: Site Survey
- Task 5: Identification and Confirmation Sampling of Deeper Groundwater Bearing Zone
- Task 6: Confirmation Groundwater Grab Sampling at Downgradient Property Line
- Task 7: Additional Round of Groundwater Monitoring & Sampling, 3rd quarter, 2004
- Task 8: Reporting of Tasks 1 through 7

We are awaiting Alameda County review and response to this workplan, so we can proceed. Meanwhile, we have restarted the semi-annual groundwater monitoring and reporting, as requested in Alameda County letter dated May 13, 2004.

EXECUTIVE SUMMARY

The groundwater monitoring event for the third quarter 2004 took place on September 23, 2004. Groundwater elevations at the site fell an average of approximately 1.72 feet since the last time groundwater monitoring activities were performed at the site (June, 2003). The calculated groundwater flow direction on September 23, 2004 was to the southwest, which is generally consistent with historical data. Groundwater analytical results from the third quarter 2004 indicate that dissolved PHC concentrations fluctuated somewhat; they increased in on-site wells MW-5 and MW-6, and decreased in off-site well MW-10. **Dissolved PHC concentrations in all off-site wells**

remained non-detect or well below Alameda County's recommended cleanup goals for off-site plume migration.

Methyl - tert - Butyl Ether (MTBE) was not detected in any of the groundwater samples collected this quarter. MTBE has not been detected in soil or groundwater at the site. Groundwater samples were analyzed for the fuel oxygenates Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, and tertiary Amyl Methyl Ether this quarter. No fuel oxygenates were detected in these groundwater samples.

As per the revised sampling schedule issued by Environmental Health in their letter dated May 13, 2004, all groundwater samples were analyzed for the lead scavengers 1,2 Dichloroethane, and 1,2 Dibromoethane. **Neither of these constituents were detected in any of the groundwater samples collected from the site this quarter. No further sampling for these compounds is planned.**

At this time, we recommend continuing semi-annual groundwater monitoring at the site according to the revised schedule issued by AC Environmental Health in their letter dated May 13, 2004, while waiting for approval of our Workplan of July 30, 2004, on site closure.

INTRODUCTION

This report documents groundwater monitoring activities at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California (the site), during the third quarter 2004. This report has been prepared pursuant to a directive from the Alameda County Health Care Services Agency/Environmental Health Services (Environmental Health, May 13, 2004) regarding a release of petroleum hydrocarbons (PHCs) from underground storage tanks (USTs) at the site.

The current sampling schedule is:

Semi-Annually All Monitoring Wells, MW-3 - 12 (First & Third Quarter's)

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 the appropriate monitoring wells
4. Submitting the 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 technical report

SITE DESCRIPTION AND BACKGROUND

The site is located at the corner of Meekland Avenue and Blossom Way, a highly urbanized area in Alameda County California (Figure 1). The site is located at an elevation of approximately 55 feet above sea level. The site is relatively flat. The area of the site is approximately 21,000 square feet. The site is located approximately 2,500 feet south of San Lorenzo Creek, and approximately 15,000

feet east of the San Francisco Bay (see Figure 1). There are no ecologically sensitive areas (such as surface water or wetlands) or homes to endangered species within 1,000 feet of the site. Domestic water at the site and in the vicinity is provided by the East Bay Municipal Utilities District.

Past, Current and Anticipated Future Site Activities and Uses

The site was used primarily for commercial activities in the past. It has 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. Durham used the site for similar activities.

The site is currently vacant. Anticipated future site uses are residential, so all Risk-Based Screening for contaminants at the site were based on residential land use. Residual concentrations of PHCs are below the residential Risk-Based Screening Levels, so no formal land use restrictions are necessary to protect human health (see below).

Summary of Site Investigations

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. Twelve groundwater monitoring wells were installed by the former consultants. Ten of the monitoring wells still exist at the site (see Figure 2). Documentation indicates the other two monitoring wells were properly destroyed. Groundwater samples were not collected from the site 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.

Weber, Hayes and Associates initiated a groundwater monitoring program at the site in the third quarter 2000. The groundwater monitoring program continued on a quarterly basis until the third quarter of 2003. Groundwater sampling at the site has remained inactive post second quarter 2003 sampling. This quarter represents the first round of sampling since June 23, 2003. **Analytical data from the previous and current groundwater monitoring program indicate that shallow groundwater at the site has been impacted by PHCs. However, neither Methyl tert Butyl Ether (MTBE), other fuel oxygenates (Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, and tertiary Amyl Methyl Ether), nor lead scavengers (1,2 Dichloroethane, and 1,2 Dibromoethane) have ever been detected in groundwater at the site.**

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. The Work Plan was approved by Environmental Health on November 1, 2000. **Analysis of the data collected**

indicated that the soils at the site were predominately fine grained, and 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 670 cubic yards (yds³) of soil was removed from the subsurface. Approximately 594 yds³ of PHC-impacted soil was transported to an appropriate landfill for disposal. The remaining soil was verified not to contain any detectable PHCs, and was reused on-site as backfill material. A pump was installed in one of the large diameter boreholes and 3,000-gallons of PHC impacted water was removed from the subsurface and properly disposed of. 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*. The highest residual PHC concentrations in soil at the site after the source zone excavation are summarized in the table below.

Summary of Maximum Residual PHC Concentrations in Soil After Source Zone Excavation
 (mg/kg, ppm)

Chemical	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
Highest Site Soil Concentrations	34	0.041	0.014	0.12	0.62

The highest residual PHC concentrations at the site are from a single confirmation soil sample collected after the source excavation in January 2002 (sample LD#16 SW-W). The majority of the confirmation samples collected after the source excavation did not contain any detectable PHCs.

In the first quarter 2002 we recommend that the frequency of sampling in monitoring well MW-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). Alameda County Environmental Health concurred with our recommendations in a telephone conversation on July 29, 2002.

In the fourth quarter 2002 (Weber, Hayes, and Associates, March 27, 2003) we presented site-specific soil and groundwater cleanup goals based on the California Regional Water Quality Control Board, San Francisco Bay Region's publication: *Application of Risk-Base Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater*. The site specific cleanup goals are summarized below.

Comparison of Site Specific Cleanup Goals/Tier 1 RBSLs to Site Data

Chemical	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
Highest Site Soil Concentrations	34 mg/kg	0.041 mg/kg	0.014 mg/kg	0.12 mg/kg	0.62 mg/kg
Soil Cleanup Goal	100 mg/kg	0.045 mg/kg	2.6 mg/kg	2.5 mg/kg	1.0 mg/kg
Groundwater Cleanup Goal	5,000 - 50,000 µg/L	5,800 µg/L	530,000 µg/L	170,000 µg/L	150,000 µg/L

Comparison of the site-specific cleanup goals for PHCs in soil with the highest residual concentrations of PHCs in soil indicate that residual concentrations of PHCs in soil were below site-specific cleanup goals and did not pose a threat to human health. There are no sensitive ecological habitats, such as surface water or wetlands, within three miles of the site, so the residual PHCs in soil do not pose a threat to the environment, either. PHC concentrations in groundwater were also below site-specific cleanup goals and did not pose a threat to human health.

In the fourth quarter 2002 we also presented a Work Plan for the Well/Conduit Search to confirm our assumption that shallow groundwater near the site is not a drinking water source and that there are no nearby abandoned wells that could serve as conduits to deeper groundwater. Environmental Health concurred with our Work Plan on April 15, 2003, and requested that the search be expanded to identify the presence of all wells within 1/2 mile radius of the site (i.e., monitoring and production wells; active, inactive, standby, destroyed, abandoned), provide details of their construction (where available), and an interpretation of their possible contribution to plume dispersal, should there be any. Environmental Health also requested that the Conduit Search include an evaluation of all potential preferential pathways (e.g., utilities, storm drains, etc.). In the second quarter 2003, we completed a Well/Conduit Study that indicated shallow groundwater near the site is not a drinking water source and that there are no nearby horizontal or vertical conduits that could serve as paths for petroleum hydrocarbons to reach deeper groundwater.

In the second quarter 2003, we recommended closing the fuel leak case at this site in our report dated August 22, 2003, *Fuel Leak Case Closure Request - Groundwater Monitoring Report - Second Quarter 2003*. Our request was ultimately denied by the Alameda County Environmental Health Department in their letter dated May 13, 2004. At their request, a semi-annual groundwater monitoring schedule was re-instated for this site.

GROUNDWATER MONITORING - THIRD QUARTER 2004

The groundwater monitoring event for the third quarter 2004 took place on September 23, 2004. Field methods followed Weber, Hayes and Associates' standard field methodology for groundwater monitoring, which is described in Appendix A. Field data forms are also presented in Appendix A. Groundwater samples were collected from all site monitoring wells in accordance with directives from Environmental Health dated May 13, 2004, and analyzed for Total Petroleum Hydrocarbons as

gasoline (TPH-g) by EPA Method GC/MS, and benzene, toluene, ethylbenzene, and xylenes (BTEX), Methyl tert Butyl Ether (MTBE), Fuel Oxygenates (Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, tertiary Amyl Methyl Ether, and Ethanol) and Lead Scavengers (1,2 Dichloroethane, and 1,2 Dibromoethane) by EPA Method 8260.

Free Product

Free product was not observed in any of the monitoring wells at the site. Free product has never been observed 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 fell an average of approximately 1.72 feet since the previous sampling event (June 2003). Calculated groundwater elevations from the gauging data collected on September 23, 2004 are shown on Figure 2. Data from this quarter indicate that groundwater flow is to the southwest (see Figure 2). The calculated groundwater gradient on September 23, 2004 was 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. See Table 1 for a summary of previous depth to groundwater data.

Groundwater Analytical Results

Groundwater samples were collected from all of the ten monitoring wells associated with the site this quarter, in accordance with the directive from Environmental Health dated May 13, 2004. The groundwater analytical results for this quarter are summarized below.

Summary of Petroleum Hydrocarbon Groundwater Sample Analytical Results, September 23, 2004 (µg/L, ppb)

Well ID	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-3	160	ND	ND	2.9	ND	ND
MW-4	ND	ND	ND	ND	ND	ND
MW-5	7,000	470	86	1,000	2,200	<6
MW-6	4,400	< 2.5	< 2.5	350	79	< 1.5
MW-7	ND	ND	ND	0.73	ND	ND
MW-8	ND	ND	ND	ND	ND	ND
MW-9	1,900	< 2.5	< 2.5	230	180	< 1.5
MW-10	600	ND	ND	ND	ND	ND
MW-11	ND	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND	ND
PQLs	25	0.5	0.5	0.5	1	1
AL/MCL	1,000	1	150	700	1,750	5
* ACEH Proposed Cleanup Goals	10,000	10	1,500	7,000	17,500	50

* = As per the Alameda County Environmental Health letter dated May 13, 2004, the proposed cleanup goals reflect a maximum contaminant concentration that may migrate off-site. A goal of 10x the AL/MCL is considered a reasonable goal by Environmental Health.

The concentration of benzene in well MW-5 exceeded the groundwater quality goal/drinking water MCL of 1 part per billion (ppb). Well MW-5 was the only well to be impacted with benzene this quarter.

The concentrations of TPH-g in wells MW-5, 6, and 9 exceed the respective groundwater quality goal/drinking water Action Level (AL)/ Maximum Contaminant Level (MCL) of 1000 ppb, but were all below the Environmental Health proposed cleanup goal (10X AL).

No other PHCs exceed their respective groundwater quality goals/ALs or MCLs.

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

Environmental Health considered reasonable proposed cleanup goals for contaminants that may migrate off-site to be no greater than 10 times that of the contaminants respective MCL (ACEH letter dated May 13, 2004). **No offsite wells exhibited contaminant concentrations that exceeded their respective MCLs, nor did any of the down-gradient on-site monitoring wells exceed Alameda County's "proposed cleanup goals".**

Analytical results for the groundwater samples collected by Weber, Hayes and Associates since the third quarter 2000 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. A dissolved oxygen concentration contour map is presented as Figure 5. The decreasing trend in TPH-g and benzene concentrations in wells MW-5 and 9, along with groundwater elevations over time, are shown on Figures 6 and 7.

The laboratory's Certified Analytical Reports for the groundwater samples is presented as Appendix B. 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 C (review of analytical data collected by previous consultants further illustrates the decreasing trend in dissolved PHC concentrations).

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. The decrease in dissolved oxygen in the impacted wells is shown on the dissolved oxygen concentration contour map, Figure 5. We believe the depletion of dissolved oxygen in PHC-impacted wells, combined with the observed decrease in dissolved PHC concentrations over time (see Figures 6 and 7), indicates that natural attenuation of PHCs via biologic activity (bioremediation) is occurring in groundwater, with microbes using dissolved PHCs as a food source during aerobic respiration (Bushek and O'Reilly, 1995).

Summary of Quarterly Groundwater Monitoring Results

- Free product was not observed in any of the monitoring wells at the site.
- Groundwater elevations at the site fell an average of approximately 1.72 feet since the previous sampling event (June 2003).
- The groundwater flow direction on September 23 was to the southwest at a gradient of approximately 0.002 feet per foot. This direction is in general agreement with data collected by us and previous data collected by others at the site.
- Concentrations of dissolved PHCs in on-site monitoring wells MW-5, and 6 increased slightly compared to when they were last sampled on June 23, 2003.
- Concentrations of on-site wells MW-3, and 9 decreased slightly compared to when they were last sampled on June 23, 2003.

- Concentrations of dissolved PHCs in off-site monitoring well MW-10 decreased compared to when it was last sampled on June 23, 2003, while all other off-site wells remained non-detect for PHCs.
- **MTBE was not detected in any of the groundwater samples collected this quarter.**
- TPH-g was detected at a concentration above 1000 ppb in on-site wells MW-5, 6, and 9, yet remain below the ACEH proposed cleanup goals.
- Benzene was detected at a concentration above the drinking water MCL in well MW-5 only. No other detections of were present in groundwater collected this quarter.
- Fuel Oxygenates (Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, tertiary Amyl Methyl Ether, and Ethanol), and Lead Scavengers (1,2 Dichloroethane, and 1,2 Dibromoethane) were not detected in any groundwater samples collected this quarter.
- No other PHCs were detected above their respective water quality goals/drinking water Action Levels/Maximum Contaminant Levels.
- Current and historic measurements of dissolved oxygen collected at the site indicate aerobic bioremediation is occurring in the PHC-impacted groundwater.

RECOMMENDATIONS

At this time we recommend:

- Continuing semi-annual groundwater monitoring as per the revised monitoring and reporting schedule directed by Alameda County Environmental Health Services letter dated May 13, 2004,
- Upon approval by AC Environmental Health, complete our workplan dated July 30, 2004.
- Obtain regulatory closure.

SCHEDULE OF ACTIVITIES FOR THE FOLLOWING QUARTER

The following activities are scheduled for the first quarter 2005:

- Semi-annual groundwater monitoring according to the schedule directed 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 the for Total Petroleum Hydrocarbons as gasoline (TPH-g) by EPA Method GC/MS, and benzene, toluene, ethylbenzene, and xylenes (BTEX), Methyl

tert Butyl Ether (MTBE), and Fuel Oxygenates (Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, tertiary Amyl Methyl Ether, and Ethanol) by EPA Method 8260

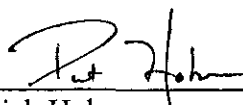
LIMITATIONS

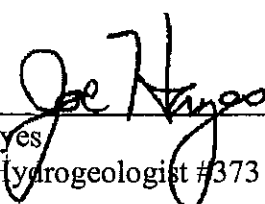
Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic and engineering principles and practices. This warranty is in lieu of all others, either expressed or implied. The analysis and proposals in this report are based on sampling and testing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

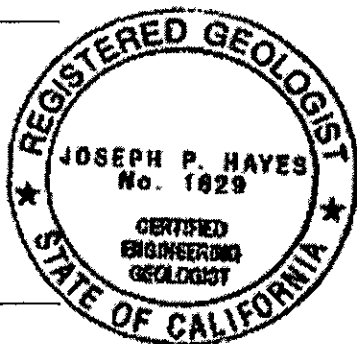
Thank you for the opportunity to aid in the assessment and cleanup of this site. If you have any questions or comments regarding this project please call us at (831) 722 - 3580.

Sincerely yours,

Weber, Hayes And Associates

By: 
Patrick Hoban
Senior Geologist

And: 
Joseph Hayes
Certified Hydrogeologist #373



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
Figure 5	Site Plan with Dissolved Oxygen Contours
Figure 6	TPH-g and Groundwater Elevation MW-5 and MW-9
Figure 7	Benzene and Groundwater Elevation MW-5 and MW-9

Appendix A Field Methodology for Groundwater Monitoring and Field Data Forms
Appendix B Certified Analytical Report - Groundwater Samples
Appendix C Summary of Historical Groundwater Analytical Results - AGI Technologies, Inc.

c: Ms. Bob Schulze, Alameda County Environmental Health
Mr. Jeff Lawson
Ms. Laurie Berger
Mr. Gregg Petersen, Durham Transportation
Mr. Roger Brewer, CRWQCB-San Francisco Bay Region

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Alameda County Health Care Services Agency, Environmental Health Services, December 4, 2000.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Approval of Work Plan for Soil and Groundwater Sampling

Alameda County Health Care Services Agency, Environmental Health Services, February 21, 2001.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Concur with work proposed in Fourth Quarter 2000 Groundwater Monitoring Report

Alameda County Health Care Services Agency, Environmental Health Services, June 26, 2001.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Concur with work proposed in First Quarter 2001 Groundwater Monitoring Report

Alameda County Health Care Services Agency, Environmental Health Services, November 29, 2001.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Receipt of "Status Report-UST Assessment and Cleanup" dated November 6, 2001, Concur with work proposed in Second Quarter 2001 Groundwater Monitoring Report

Alameda County Health Care Services Agency, Environmental Health Services, December 13, 2001.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Concur with work proposed in Addendum to Interim Remedial Action and Modified Feasibility Study

Alameda County Health Care Services Agency, Environmental Health Services, January 14, 2002.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - 10% Increase in Interim Remedial Action Costs Acceptable

Alameda County Health Care Services Agency, Environmental Health Services, January 28, 2002.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Time Extension for Submitting Excavation / Interim Remedial Action Report

Alameda County Health Care Services Agency, Environmental Health Services, October 23, 2002.
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Concur with Recommendations to Continue Groundwater Monitoring and Calculate Active Cleanup Goals

Alameda County Health Care Services Agency, Environmental Health Services, April 15, 2003 (e-mail).
Property at 19984 Meekland Avenue, Hayward, Ca 94541 - Concur with Recommendations for Well/Conduit Study, and increase search Radius to ½ Mile

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Re: SWI, SCM and Case Closure Request for Durham Transportation, 19984 Meekland Avenue, Alameda County

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Table 1: Summary of Groundwater Elevation and PHC Analytical Data
 Former Harbert Transportation Facility, 1984 Meekland Avenue, Hayward, Ca.
 Weber, Hayes and Associates Project H9042

Monitoring Point Information			Date Sampled	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, NGVD)	Laboratory Analytical Results											Field Measurements	
Well I.D.	TOC Elevation (feet, NGVD)	Screen Interval (feet, bgs)				Total Petroleum Hydrocarbons	Volatile Organic Compounds							Lead Scavengers			Dissolved Oxygen (mg/L)	Redox Potential (ORP) (mV)
						Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	Ethanol (ug/L)	Fuel Oxygenates (ug/L)	1,2-DCA (ug/L)	EDS (ug/L)		
MW-3	55.44	20 - 40' ▲	09/23/04	24.26	31.18	160	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	0.39	112
			06/24/03	22.53	32.91	260	ND	ND	5.6	2.8	ND*	--	--	--	--	--	0.18	-2
			03/21/03	22.41	33.03	490	3.3	1.4	5.6	< 2.5	ND*	--	--	--	--	--	0.15	-34
			12/30/02	21.32	34.12	70	ND	ND	2.1	< 1	ND*	--	--	--	--	--	0.14	536
			08/27/02	23.87	31.57	350	0.56	1.1	14	3.4	ND*	--	--	--	--	--	0.13	216
			06/13/02	22.92	32.52	300	1.1	1.4	4	1.8	ND*	--	--	--	--	--	0.14	194
			03/21/02	21.96	33.48	240	0.94	2.5	12	11.7	ND*	--	--	--	--	--	0.1	--
			12/18/01	23.59	31.85	270	1.6	1.7	13	5.4	ND*	--	--	--	--	--	--	--
			09/20/01	24.16	31.28	380	1.7	2.6	32	8.9	ND*	--	--	--	--	--	0.4	--
			06/20/01	23.55	31.89	780	4.4	2.4	62	23	ND*	--	--	--	--	--	--	--
			03/29/01	22.02	33.42	170	1.1	ND	10	1.6	ND*	--	--	--	--	--	0.6	--
			01/12/01	23.41	32.03	310	2.4	2.2	4.4	10	ND*	--	--	--	--	--	0.7	--
			09/27/00	23.09	32.35	430	ND	ND	44	ND	ND*	--	--	--	ND	--	1	--
			MW-4	55.71	20 - 40' ▲	09/23/04	24.47	31.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/24/03	22.74	32.97				--	--	--	--	--	--	--	--	--	--	--	1.01	22
03/21/03	22.49	33.22				--	--	--	--	--	--	--	--	--	--	--	1.03	18
12/30/02	21.50	34.21				ND	ND	ND	ND	< 1	ND	--	--	--	--	0.41	368	
08/27/02	24.07	31.84				--	--	--	--	--	--	--	--	--	--	--	0.21	187
06/13/02	23.15	32.56				ND	ND	ND	ND	ND	ND	--	--	--	--	0.20	392	
03/21/02	22.15	33.56				ND	ND	ND	ND	ND	ND	--	--	--	--	0.2	--	
12/18/01	23.80	31.91				ND	ND	0.9	ND	ND	ND	--	--	--	--	--	--	
09/20/01	24.32	31.39				ND	ND	ND	ND	ND	ND	--	--	--	--	0.4	--	
06/20/01	23.74	31.97				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	
03/29/01	22.22	33.49				ND	ND	4.2	ND	ND	ND	--	--	--	--	0.5	--	
01/12/01	23.60	32.11				ND	ND	ND	ND	ND	ND	--	--	--	--	0.7	--	
09/27/00	23.25	32.46				ND	ND	ND	ND	ND	ND	--	--	ND	--	2.5	--	
MW-5	56.03	25 - 45' ▲				09/23/04	24.79	31.24	7,000	470	86	1,000	2,200	< 6	< 200	< 2,000	< 100	< 10
			06/24/03	23.08	32.95	3,800	100	58	310	870	< 1.5*	--	--	--	--	--	0.05	-87
			03/21/03	22.99	33.04	4,800	190	82	370	700	< 5*	--	--	--	--	--	0.07	-72
			12/30/02	21.88	34.15	130	5.8	1.0	9.9	5.9	ND*	--	--	--	--	--	0.14	251
			08/27/02	24.42	31.61	1,900	170	14	210	93	ND*	--	--	--	--	--	0.43	207
			06/13/02	23.57	32.46	1,500	24	16	120	110	ND*	--	--	--	--	--	0.06	144
			03/21/02	24.69	31.34	360	11	9.4	28	62	ND*	--	--	--	--	--	0.1	--
			12/18/01	23.15	32.88	780	21	12	85	34	ND*	--	--	--	--	--	--	
			09/20/01	24.75	31.28	2,300	46	41	380	330	ND*	--	--	--	--	--	0.3	--
			06/20/01	24.15	31.88	6,500	120	130	740	940	ND*	--	--	--	--	--	--	
			03/29/01	22.68	33.34	19,000	220	510	1000	2700	ND*	--	--	--	--	--	0.4	--
			01/12/01	23.97	32.06	1,100	62	40	180	280	ND*	--	--	--	--	--	0.3	--
			09/27/00	23.69	32.34	18,000	840	2.9	1200	3500	< 30	--	--	ND	--	--	0.4	--
			MW-6	56.01	25 - 45' ▲	09/23/04	24.81	31.20	4,400	< 2.5	< 2.5	350	79	< 1.5	< 50	< 500	< 25	< 2.5
06/24/03	23.06	32.95				1,500	< 5	< 5	35	15	< 0.6*	--	--	--	--	--	0.09	-23
03/21/03	22.96	33.05				1,200	6.3	< 5	54	< 10	ND*	--	--	--	--	--	0.09	-45
12/30/02	21.91	34.10				670	2.5	< 1.25	29	2.7	ND*	--	--	--	--	--	0.15	321
08/27/02	24.44	31.57				1,300	< 2.5	7.2	210	95	ND*	--	--	--	--	--	0.14	231
06/13/02	23.53	32.48				1,600	< 1.25	4.7	87	6.3	< 1.5*	--	--	--	--	--	0.53	233
03/21/02	23.11	32.90				750	0.77	1.2	39	3.2	ND*	--	--	--	--	--	0.1	--
12/18/01	24.16	31.86				3,700	33	8.7	320	110	< 1.6*	--	--	--	--	--	--	
09/20/01	24.72	31.29				2,500	11	8.6	240	94	ND*	--	--	--	--	--	0.3	--
06/20/01	24.13	31.88				1,800	14	4.6	160	79	ND*	--	--	--	--	--	--	
03/29/01	22.56	33.45				610	2.2	ND	37	4.6	ND*	--	--	--	--	--	0.5	--
01/12/01	23.97	32.04				2,300	16	3.5	290	83	ND*	--	--	--	--	--	0.5	--
09/27/00	23.56	32.45				1,300	ND	4.3	200	17	ND	--	--	ND	--	--	0.5	--

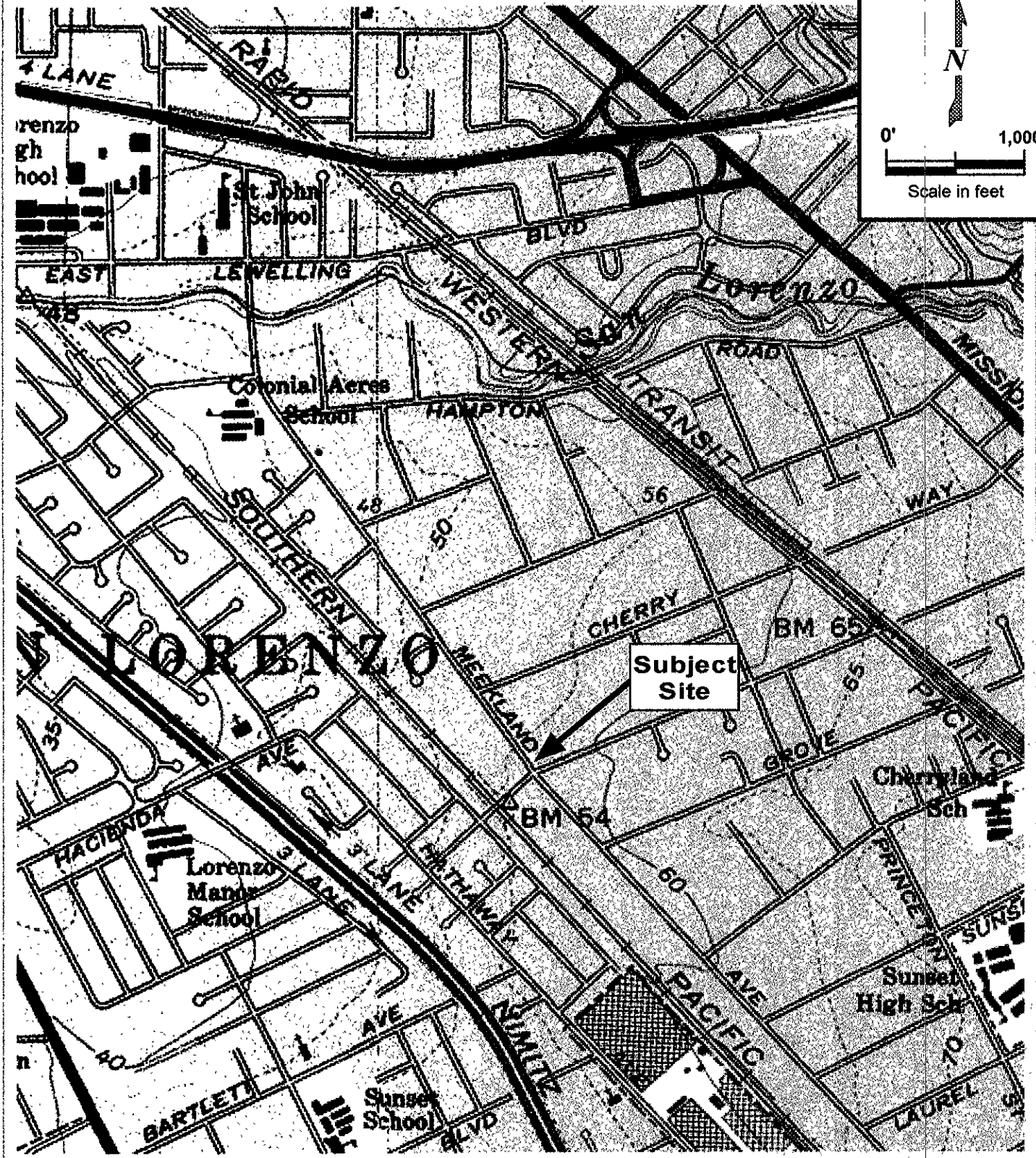
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 Weber, Hayes and Associates Project H9042

Monitoring Point Information			Date Sampled	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, NGVD)	Laboratory Analytical Results										Field Measurements			
Well I.D.	TOC Elevation (feet, NGVD)	Screen Interval (feet, bgs)				Total Petroleum Hydrocarbons		Volatile Organic Compounds							Lead Scavengers		Dissolved Oxygen (mg/L)	Redox Potential (ORP) (mv)	
						Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	Ethanol (ug/L)	Fuel Oxygenates (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)			
MW-7	56.66	25 - 45 ▲	09/23/04	25.38	31.28	ND	ND	ND	0.73	ND	ND	ND	ND	ND	ND	ND	0.90	301	
			06/24/03	23.62	33.04	--	--	--	--	--	--	--	--	--	--	--	--	0.58	32
			03/21/03	23.50	33.16	--	--	--	--	--	--	--	--	--	--	--	--	0.51	20
			12/30/02	22.34	34.32	ND	ND	ND	ND	< 1	ND*	--	--	--	--	--	--	0.17	370
			08/27/02	24.98	31.68	--	--	--	--	--	--	--	--	--	--	--	--	0.22	369
			06/13/02	24.07	32.59	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	0.20	370
			03/21/02	23.05	33.61	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	0	--
			12/18/01	24.70	31.96	280	ND	ND	119	4.6	ND*	--	--	--	--	--	--	--	--
			09/20/01	26.27	31.39	290	0.98	ND	12	4.5	ND*	--	--	--	--	--	--	0.4	--
			06/20/01	24.68	31.98	430	2.4	0.96	30	9.7	ND*	--	--	--	--	--	--	--	--
			03/29/01	23.10	33.56	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	0.5	--
			01/12/01	24.49	32.17	1,600	13	0.86	150	35	ND*	--	--	--	--	--	--	0.5	--
			09/27/00	24.18	32.48	270	13	6.6	11	ND	ND	--	--	--	ND	--	--	0.5	--
			MW-8	55.16	20 - 40 ▲	09/23/04	24.81	31.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/24/03	23.03	33.13				--	--	--	--	--	--	--	--	--	--	--	--	1.71	12
03/21/03	22.91	33.25				--	--	--	--	--	--	--	--	--	--	--	--	1.62	15
12/30/02	21.79	34.37				ND	ND	ND	ND	< 1	ND*	--	--	--	--	--	--	1.36	365
08/27/02	24.43	31.73				--	--	--	--	--	--	--	--	--	--	--	--	1.98	402
06/13/02	25.54	32.62				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	1.96	394
03/21/02	22.51	33.65				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	2.4	--
12/18/01	24.16	32.00				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
09/20/01	24.65	31.49				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	1.6	--
06/20/01	24.09	32.07				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
03/29/01	22.56	33.60				ND	ND	0.6	ND	ND	ND	--	--	--	--	--	--	1.9	--
01/12/01	23.93	32.23				ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	2.1	--
09/27/00	23.59	32.57				ND	ND	ND	ND	ND	ND	--	--	--	ND	--	--	1.9	--
MW-9	55.21	20 - 40 ▲				09/23/04	24.00	31.21	1,900	< 2.5	< 2.5	230	180	< 1.5	< 50	< 500	< 25	< 2.5	< 2.5
			06/24/03	22.30	32.91	2,900	25	9.1	230	270	< 1.5*	--	--	--	--	--	--	0.08	-66
			03/21/03	22.17	33.04	5,900	190	24	470	630	< 1.5*	--	--	--	--	--	--	0.10	-84
			12/30/02	21.09	34.12	2,800	140	25	200	370	ND*	--	--	--	--	--	--	0.15	276
			08/27/02	23.69	31.62	310	27	2.5	20	20	ND*	--	--	--	--	--	--	0.18	154
			06/13/02	22.76	32.45	5,100	140	21	490	300	< 1.5*	--	--	--	--	--	--	0.14	135
			03/21/02	21.76	33.45	510	25	4.6	50	52	ND	--	--	--	--	--	--	0.7	--
			12/18/01	23.38	31.83	6,400	640	120	630	1360	< 1.5*	--	--	--	--	--	--	--	--
			09/20/01	23.94	31.27	3,400	270	38	390	430	ND*	--	--	--	--	--	--	0.3	--
			06/20/01	23.36	31.86	6,300	330	98	660	1700	< 0.6*	--	--	--	--	--	--	--	--
			03/29/01	21.61	33.60	1,600	110	14	240	150	ND*	--	--	--	--	--	--	0.4	--
			01/12/01	23.17	32.04	10,000	550	110	1200	2200	ND*	--	--	--	--	--	--	0.6	--
			09/27/00	22.90	32.31	1,000	40	6.7	110	55	ND	--	--	--	ND	--	--	0.5	--
			MW-10	54.74	25 - 40 ▲	09/23/04	23.81	30.93	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/24/03	22.21	32.53				750	< 2.5	< 2.5	< 2.5	< 5	< 1.5*	--	--	--	--	--	--	0.09	-22
03/21/03	22.00	32.74				700	3.4	1.4	0.71	1	ND*	--	--	--	--	--	--	0.06	-62
12/30/02	20.75	33.96				1,200	5.6	< 5	< 5	< 10	ND*	--	--	--	--	--	--	0.18	267
08/27/02	23.46	31.28				1,800	< 2.5	15	3.9	6	ND*	--	--	--	--	--	--	0.14	183
06/13/02	22.56	32.18				1,700	0.77	6.2	3.3	2.9	< 0.3*	--	--	--	--	--	--	0.28	201
03/21/02	21.53	33.21				ND	ND	11	3.1	ND	ND*	--	--	--	--	--	--	0.1	--
12/18/01	21.11	33.63				1,500	7.9	2.9	ND	ND	< 0.6*	--	--	--	--	--	--	--	--
09/20/01	23.70	31.04				1,200	6	9.9	1.2	3.9	ND*	--	--	--	--	--	--	0.4	--
06/20/01	23.17	31.57				810****	3	1.6	5.1	13	ND*	--	--	--	--	--	--	--	--
03/29/01	21.63	33.11				600****	2	0.65	ND	0.72	ND	--	--	--	--	--	--	0.5	--
01/12/01	22.99	31.75				530	3.7	1.9	2.1	4.5	ND	--	--	--	--	--	--	0.6	--
09/27/00	22.72	32.02				880	ND	ND	ND	ND	ND	--	--	--	ND	--	--	0.4	--

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 Weber, Hayes and Associates Project H9042

Monitoring Point Information			Date Sampled	Depth to Groundwater (feet, TOC)	Groundwater Elevation (feet, NGVD)	Laboratory Analytical Results										Field Measurements		
Well I.D.	TOC Elevation (feet, NGVD)	Screen Interval (feet, bgs)				Total Petroleum Hydrocarbons		Volatile Organic Compounds						Lead Scavengers		Dissolved Oxygen (mg/L)	Redox Potential (ORP) (mV)	
						Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	Ethanol (ug/L)	Fuel Oxygenates (ug/L)	1,2-DCA (ug/L)			EDB (ug/L)
MW-11	55.20	25 - 40 ▲	09/23/04	24.04	31.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.50	301	
			06/24/03	22.37	32.83	--	--	--	--	--	--	--	--	--	--	--	0.43	21
			03/21/03	22.24	32.96	--	--	--	--	--	--	--	--	--	--	--	0.32	26
			12/30/02	21.11	34.09	ND	ND	ND	ND	< 1	ND	--	--	--	--	--	0.16	374
			08/27/02	23.68	31.52	--	--	--	--	--	--	--	--	--	--	--	0.13	369
			06/13/02	22.78	32.42	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	0.15	380
			03/21/02	21.76	33.44	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	0.1	--
			12/18/01	23.39	31.81	ND	ND	0.56	ND	ND	ND	ND	--	--	--	--	--	--
			09/20/01	23.87	31.33	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	0.4	--
			06/20/01	23.39	31.81	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
			03/29/01	21.84	33.36	ND	ND	4.5	ND	ND	ND	ND	--	--	--	--	0.6	--
			01/12/01	23.21	31.99	ND	ND	2.1	ND	ND	ND	ND	--	--	--	--	0.6	--
			09/27/00	22.43	32.77	83	ND	ND	ND	ND	ND	ND	--	--	--	--	0.6	--
			MW-12	56.49	25 - 40 ▲	09/23/04	25.18	31.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/24/03	23.41	33.08				--	--	--	--	--	--	--	--	--	--	--	1.25	29
03/21/03	23.28	33.21				--	--	--	--	--	--	--	--	--	--	--	1.28	22
12/30/02	22.16	34.33				ND	ND	ND	ND	< 1	ND	--	--	--	--	--	0.77	372
08/27/02	24.88	31.81				--	--	--	--	--	--	--	--	--	--	--	0.60	410
06/13/02	23.86	32.63				ND	ND	ND	ND	ND	ND	ND	--	--	--	--	0.51	400
03/21/02	22.86	33.63				ND	ND	ND	ND	ND	ND	ND	--	--	--	--	0.7	--
12/18/01	24.49	32.00				ND	ND	0.86	ND	ND	ND	ND	--	--	--	--	--	--
09/20/01	24.95	31.54				ND	ND	ND	ND	ND	ND	ND	--	--	--	--	0.7	--
06/20/01	24.47	32.02				ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
03/29/01	22.81	33.58				ND	ND	5	ND	ND	ND	ND	--	--	--	--	1	--
01/12/01	24.28	32.21				ND	ND	1.1	ND	ND	ND	ND	--	--	--	--	1	--
09/27/00	23.98	32.51				ND	ND	ND	ND	ND	ND	ND	--	--	--	--	1.2	--
Practical Quantitation Limit:						25 / 50	0.5	0.5	0.5	1	1	10	100	5	0.5	0.5		
Maximum Contaminant Levels (MCLs) / Action Levels (ALs)						1,000	1	150	700	1,750	50	120	NA	NA	5	5		
ACEH Proposed Cleanup Goals						10,000	10	1,500	7,000	17,500	50	120	NA	NA	5	5		

NOTES:
 TOC = Top of Casing Elevation Calculated groundwater elevation = TOC - Depth to Groundwater Referenced to NGVD
 TPH-g = Total Petroleum Hydrocarbons as gasoline MTBE = Methyl tert - Butyl Ether
 FO's = Fuel Oxygenates = Diisopropyl ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl tertiary Butyl Ether (ETBE), tertiary amyl Methyl Ether (TAME)
 1,2-DCA = 1,2-Dichloroethane
 EDB = 1,2-Dibromoethane
 VOC's = Volatile Organic Compounds. DO = 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 dilution
 -- = Data not collected or measured, or analysis not conducted
 MCL = Maximum Contaminant Level for drinking water in California (Department of Health Services)
 * Confirmed by GC/MS method 8260
 ** = Action Level
 *** = Secondary MCL / water quality goal
 **** = Laboratory Report indicates results within quantitation range, chromatographic pattern not typical of fuel.
 ▲ = Groundwater samples collected on September 23, 2004 have all been analyzed by EPA Method GC - MS / 8260B. This analytical method is more accurate and as a result the laboratory's Practical Quantitation Limit for TPH-g is 25 ppb
 ◆ = As per the Alameda County Environmental Health letter dated May 13, 2004 the proposed cleanup goals reflect a maximum contaminant concentration that may migrate beyond the boundaries of the subject site
 A goal of 10 X the MCL is considered a reasonable goal by the Alameda County Environmental Health Department.



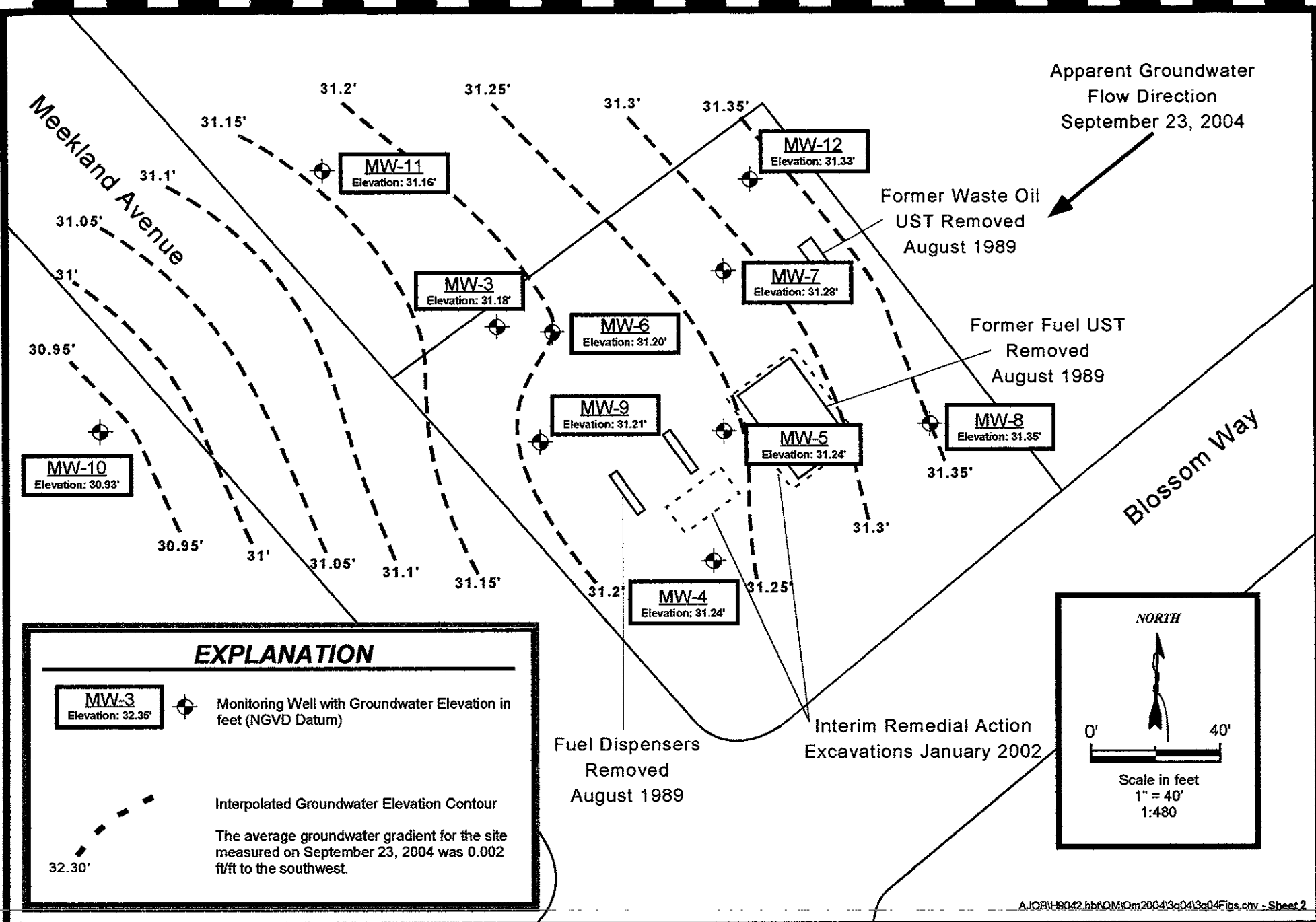
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 Hydrogeology and Environmental Engineering
 120 Westgate Drive, Watsonville, Ca. 95076
 (831) 722 - 3580 (831) 662 - 3100

Location Map
 Former Harbert Transportation Facility
 19984 Meekland Avenue
 Hayward, California

Figure 1
Job # H9042



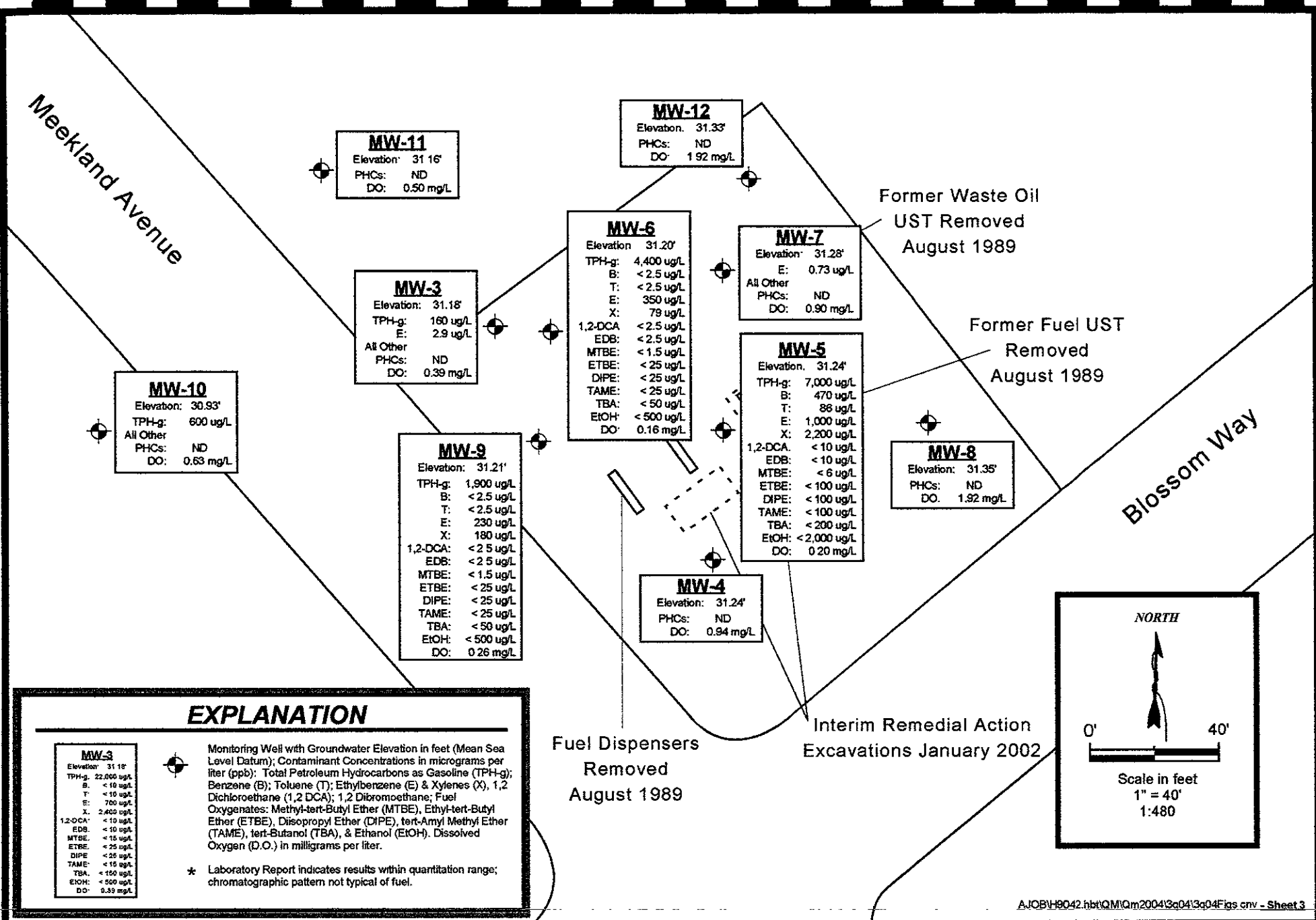
A:\JOB\H9042\hbr\QMI\Om2004\3q04\3q04\Figs.cmv - Sheet 2

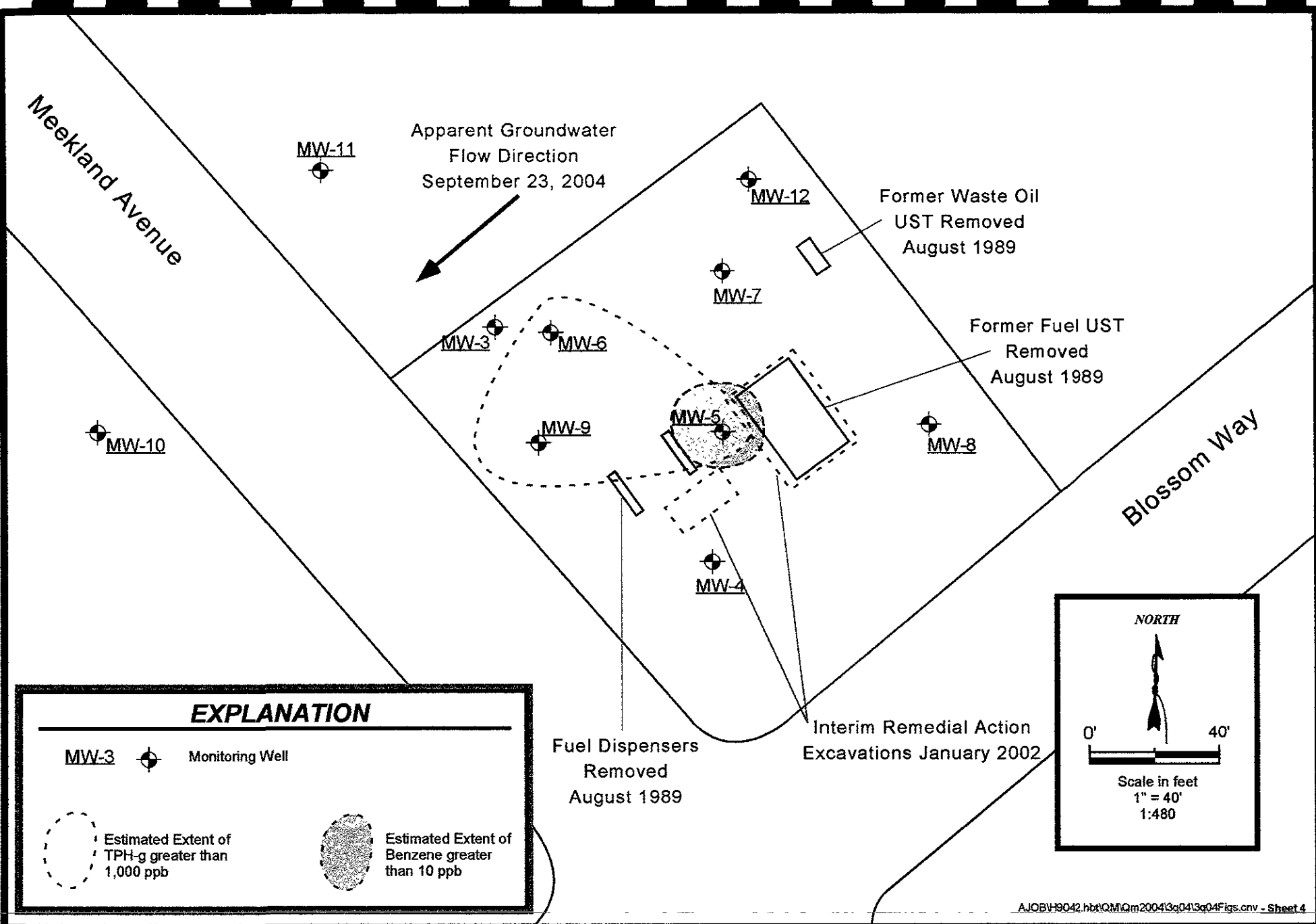


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Site Plan with Groundwater Elevations
September 23, 2004
 Former Harbert Transportation Facility
 19984 Meekland Avenue, Hayward, California

Figure
2
Project
H9042

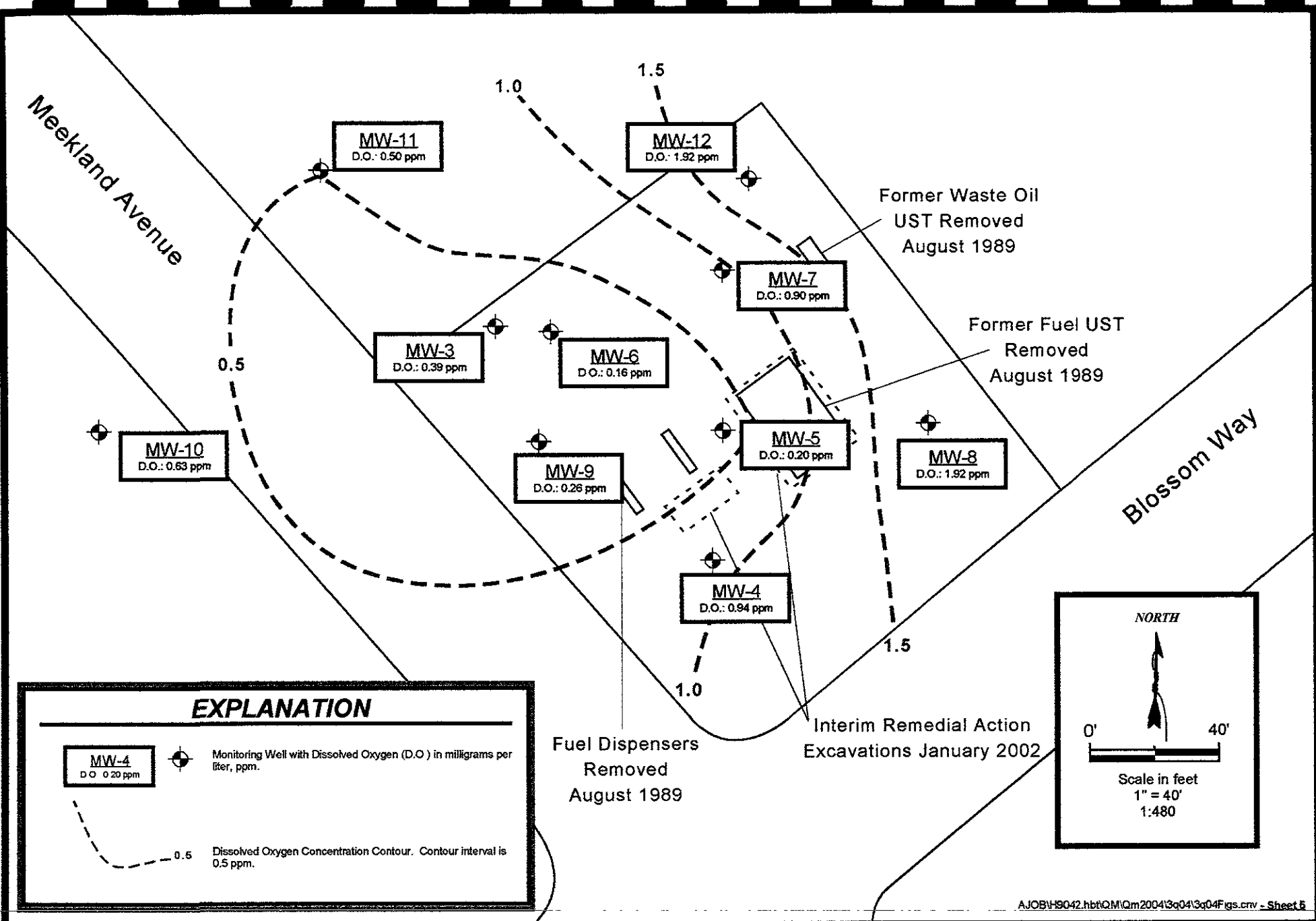




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**Site Plan with Extent of TPH-g and Benzene
 in Groundwater, September 23, 2003**
 Former Harbert Transportation Facility
 19984 Meekland Avenue, Hayward, California

**Figure
 4
 Project
 H9042**



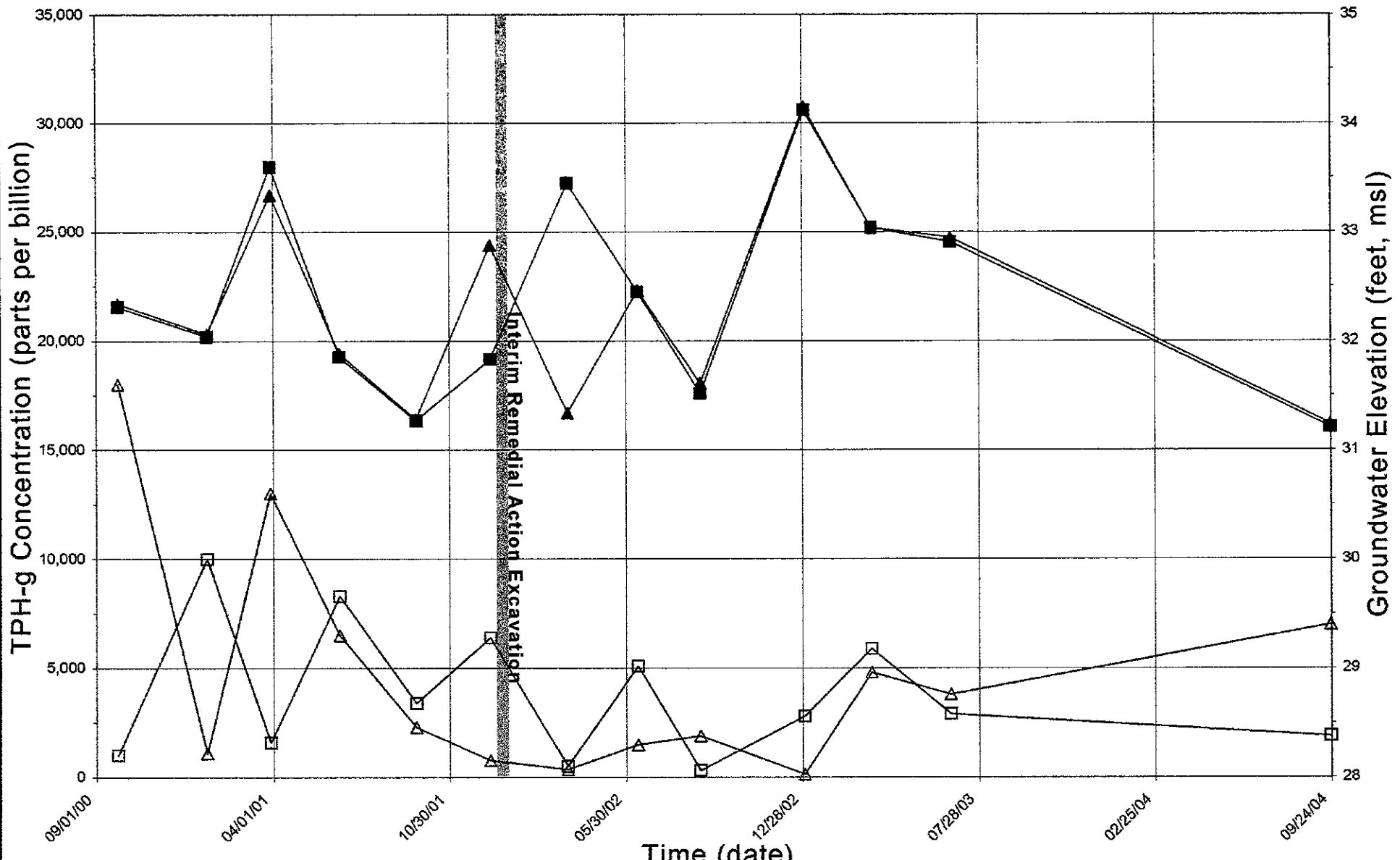
A:\JOB\H9042.hbt\QM\Qm2004\3a04\3g04\Figs.crv - Sheet 5



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Site Plan with Dissolved Oxygen Contours
 September 23, 2004
 Former Harbert Transportation Facility
 19984 Meekland Avenue, Hayward, California

Figure 5
Project H9042



▲ MW-5 Groundwater Elevation ■ MW-9 Groundwater Elevation
 ▲ MW-5 TPH-g Concentration □ MW-9 TPH-g Concentration

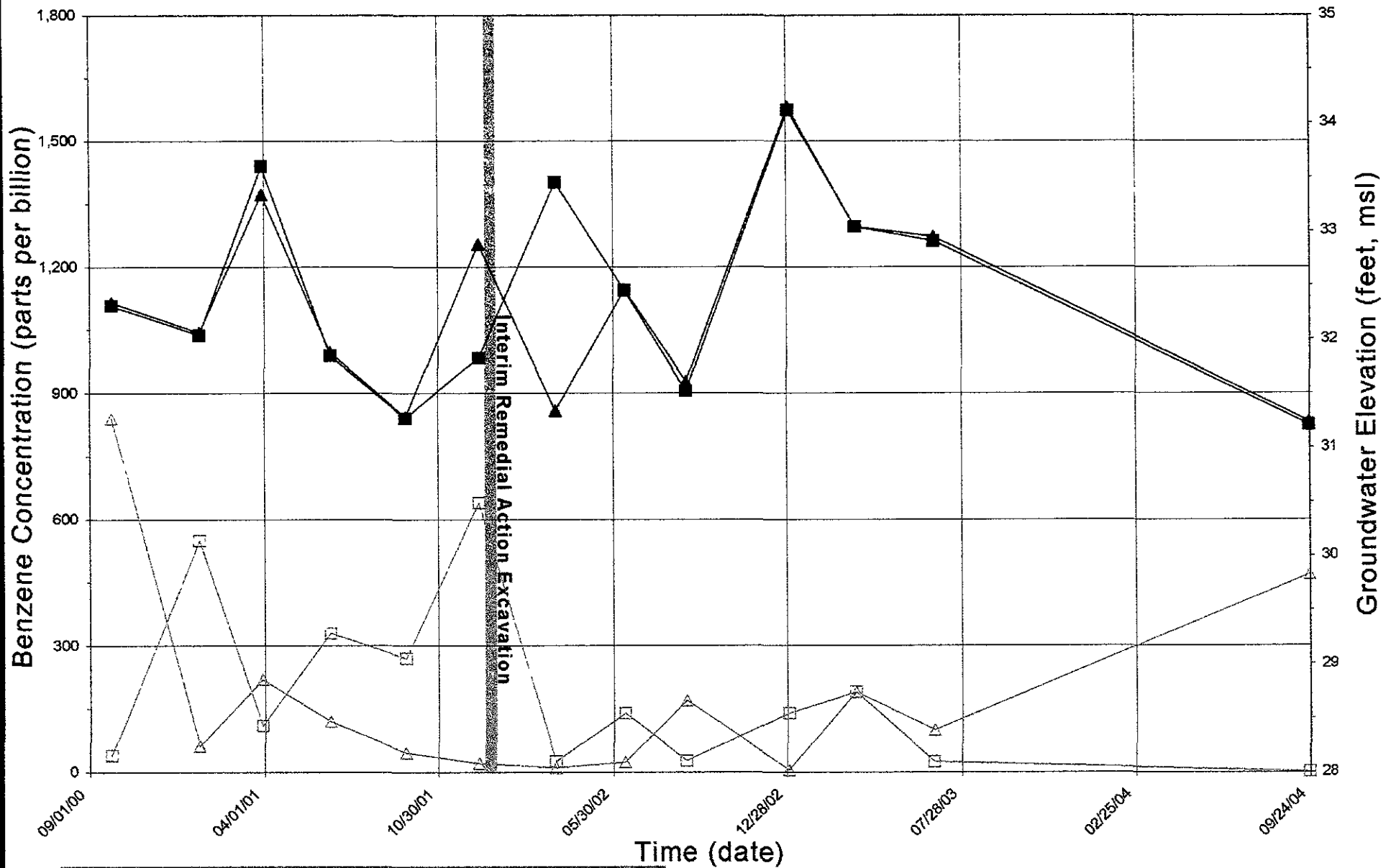
AJOB\H9042.hbt\QM\Qm2004\3c04\3c04\Figs.crv - Sheet 6



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TPH-g and Groundwater Elevation in MW-5 and MW-9
Through September 23, 2004
 Former Harbert Transportation Facility
 19984 Meekland Avenue, Hayward, California

Figure 6
Project H9042



▲ MW-5 Groundwater Elevation ■ MW-9 Groundwater Elevation
 ▲ MW-5 Benzene Concentration ■ MW-9 Benzene Concentration

A:\JOB\H8042 hbt\QM\Qm2004\3q04\3q04\Figs.crv - Sheet 7

WA
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Benzene and Groundwater Elevation in MW-5 and MW-9 Through September 23, 2004
 Former Harbert Transportation Facility
 19984 Meekland Avenue, Hayward, California

Figure 7
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 with a low flow submersible electric pump. During purging the physical parameters of temperature, conductivity, pH, dissolved oxygen (D.O.) concentration, and Oxidation-Reduction Potential (ORP) of the purge water are monitored with a QED MP20 Micropurge Flow-Through-Cell and Meter to insure that these parameters have stabilized (are within ~ 15 percent of the previous measurement). The QED MP20 Meter is capable of contiguously monitoring the physical parameters of the purge water via the flow through cell and providing an alarm to indicate when the physical parameters have stabilized to the users specifications. Purging is determined to be complete (stabilized aquifer conditions reached) after the removal of approximately three to five well volumes of water or when the physical parameters have stabilized. 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) 862-3100

Fax: (831) 722-1159

Text Page ___ / ___

INDICATE ATTACHMENTS THAT APPLY

- ___ Site Map
- ___ Data Sheets
- ___ Geologic Logs
- ___ Photo Sheets
- ___ COCs
- ___ Chargeable Materials

Client: Harbert Transportation		Date: September 23, 2004
Site Location: 19984 Meekland Avenue, Hayward		Study #: H9042.Q
Field Tasks: <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input checked="" type="checkbox"/> Other (see below):		Weather Conditions: Cool to Warm & Sunny
3rd Quarter 2004 Groundwater Monitoring		
Personnel / Company On-Site: Jared Chaney (Weber, Hayes and Associates: WHA)		

FIELD WORK PLANNING:

Performed on: **September 22, 2004**

- Meet with Project Manager: Yes No
- Number of Wells to be Sampled: **10 Wells with Dissolved Oxygen (D.O.) & Depth to Groundwater in all site wells.**
- Sample Wells: **MW-3 through MW-10.**
- Analyze for: **TPH-g, BTEX, Fuel Oxygenates by Method GC-MS / 8260, 1,2 - DCA, & EDB.**
- Proposed Sampling Date: **September 23, 2004**

ON-SITE FIELD WORK:

Arrive on-site at **0710** to conduct **3rd** Quarter **2004** Quarterly Groundwater Monitoring Well Sampling.

LABORATORY:

JC Send all analytical to: **Entech Analytical Laboratory, 408.588.0200 - 3334 Victor Court, Santa Clara, CA**

GROUNDWATER MONITORING FIELD WORK STANDARD OPERATING PROCEDURES:

- (Initial) **JC**
- All sampling is conducted according to Standard Operating Procedure (SOP) 10I/
 - All pertinent information regarding the well, including water quality physical parameters are recorded on the following pages.
 - All samples are placed in a refrigerated cooler immediately after sampling.
 - All groundwater monitoring/purging/sampling equipment is decontaminated according to SOP 10B/at the beginning of on-site work, in between each well, and at the end of work
 - All purge water is properly contained in 55-gallon drums, or another suitable container, for later removal by a licensed subcontractor.
 - All samples are recorded on field Chain-of-Custody sheets for documentation of proper transportation to the appropriate Laboratory.

INSTRUMENT CALIBRATION:

QED MP20 Flow Through Cell: Temperature = **16.91°C** pH = **7.00 & 10.00** Electrical Conductivity = **718** Barometric Pressure = **760**

D.O. % Saturation = **100%** Oxidation Reduction Potential (ORP) = **242**

BEGIN SAMPLING WELLS:

MW-12, MW-7, MW-8, MW-4, MW-11, MW-10, MW-3, MW-6, MW-9, MW-5

COMMENTS:

All wells will be purged until the QED MP20 unit indicates that the physical parameters of the water (pH, Conductivity, Temp, D.O., and ORP) have stabilized to within ~ 15%, or once four casing volumes in the well column requiring sampling have been removed (see Groundwater Monitoring Well Sampling Field Data Sheet(s) for details). Wells will be purged from the bottom up and all WHA SOPs. Wells will only be sampling using a Bladder Pump or a disposable bailer, as per RWQCB guidelines.

 **7/23/04**
Signature of Field Personnel & Date



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 (831) 722-3580 (831) 662-3100
 Fax (831) 722-1159

Location	Groundwater Depth	Total Depth of Well	D.O. (mg/L)	ORP (mV)	Floating Product (comments)
MW.3	24.26'	40'	0.39	112	No FP; No Odor
MW.4	24.47'	40'	0.94	297	No FP; No Odor
MW.5	24.79'	45'	0.20	64	No FP; Moderate to High Odo.
MW.6	24.81'	45'	0.16	34	No FP; Moderate Odor
MW.7	25.38'	40'	0.90	301	No FP; No Odor
MW.8	24.81'	40'	1.92	301	No FP; No Odor
MW.9	24.00'	40'	0.26	190	No FP; Moderate Odor
MW.10	23.81'	40'	0.63	160	No FP; Very Slight Odor
MW.11	24.04'	40'	0.50	301	No FP; No Odor
MW.12	25.16'	40'	1.92	298	No FP; No Odor

JC
 9/23/04

HOW MANY PURGE DRUMS WERE LEFT ON-SITE: 7 APPROXIMATE VOLUME (gallons): 165
 CALL PURGE WATER REMOVAL SUBCONTRACTOR ON: _____
 DRUMS WILL BE PURGED ON: _____

COMMENTS:

Signature of Field Personnel & Date 9/23/04

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Harbest / H9042.0 **Date:** 9/23/04
Sample No.: MW.12 **Sample Location:** MW.12
Samplers Name: Jared Chaney **Recorded by:** JC
Purge Equipment: **Sample Equipment:**
 Bailer: Disposable or Acrylic Disposable Bailer
 Whaler # 1 Whaler # _____
 Bladder Pump Bladder Pump
 Redi-flow Pump (Grundfos) Submersible Pump
Analyses Requested (circle all that apply): **Number and Types of Bottle Used:**
TPH-gas, BTEX, MTBE, EDB, 1,2 - DCA, 8260 Fuel Oxygenates, Ethanol 3 x 40 mL VOA's
TPH-diesel, TPH-Motor Oil, TPH-Heating Oil
Intrinsic Bio. Parameters

Well Number: MW.12 **Well Diameter:** 2" with Casing Volume of:
Depth to Water: 25.16 TOC 2" = (0.16 Gallon/Feet)
Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 14.84' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 2.374 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 9.49 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Entech **Transportation:** Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
0758	0	17.59	0.425	8.19	6.51	288	Moderate: Brown, Mod. fines	
0759	1	18.01	0.561	4.91	6.45	291	↓ ↓ ↓	
0800	2	19.02	0.601	3.36	6.50	294	Low: Clear brown, Minor fines	
0801	3	18.04	0.619	2.10	6.51	295	↓ ↓ ↓	
0802	4	18.05	0.623	2.50	6.51	296	↓ ↓ ↓	
0803	5	18.05	0.625	6.03	6.52	296	↓ ↓ ↓	
0805	7	18.07	0.631	5.15	6.53	297	Low: Clear, Minor fines	
0807	10	18.09	0.634	1.92	6.54	298	↓ ↓ ↓	
Stop:	Purge Complete							

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 = $14.84' \times 0.8 = 11.87'$ - (Well Depth) $40'$ = Depth to water $28.13'$

Time: 0810 1st measured depth to water, 25.21 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 0810 1st measured depth to water, 25.21 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 0810 1st measured depth to water, 25.21 feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 0810 Sample ID: MW.12 Depth: 25.21' feet below TOC

Comments: No floating Product; No Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Herkert / 149042.0 **Date:** 9/23/04
Sample No.: MW.7 **Sample Location:** MW.7
Samplers Name: Jared Charney **Recorded by:** JC
Purge Equipment: Whaler # 1 **Sample Equipment:** X Disposable Bailer
Bladder Pump Whaler #
Redi-flow Pump (Grundfus) Bladder Pump
Submersible Pump
Analyses Requested (circle all that apply): TPH-gas, BTEX, MTBE, FDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol **Number and Types of Bottle Used:** 3 x 40 mL VOA's
~~TPH-diesel, TPH-Motor Oil, TPH-Heating Oil~~
~~Intrinsic Bio. Parameters~~

Well Number: MW.7 **Well Diameter:** 4" with Casing Volume of:
Depth to Water: 25.30' TOC 2" = (0.16 Gallon/Feet)
Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 14.62 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 9.503 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 38.01 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Eutech **Transportation:** Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
0829	0	18.33	0.548	8.57	6.68	300	Low: Clear, Minor Fines ↓ ↓ ↓ ↓ ↓	
0830	1	18.30	0.622	3.44	6.70	300		
0831	2	18.35	0.633	2.31	6.70	301		
0833	5	18.43	0.646	1.79	6.70	301		
0836	8	18.44	0.645	1.29	6.70	301		
0840	12	18.47	0.646	0.90	6.70	301		✓
Stop: Purge Complete, Parameters Stabilized								
/JC								
9/23/04								

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 = $14.62' \times 0.8 = 11.69'$ - (Well Depth) 40' = Depth to water 28.30'

Time: 0843 1st measured depth to water, 25.91' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: /JC 1st measured depth to water, /JC feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: /JC 1st measured depth to water, /JC feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 0843 Sample ID: MW.7 Depth: 25.91' feet below TOC

Comments: No floating product; No Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Harbert / 149042.0 Date: 9/23/04
 Sample No.: MW8 Sample Location: MW8
 Samplers Name: Jared Charey Recorded by: JC

Purge Equipment: Bailer: Disposable or Acrylic
 Whaler # 1
 Bladder Pump
 Redi-flow Pump (Grundfos)

Sample Equipment:
 Disposable Bailer
 Whaler # _____
 Bladder Pump
 Submersible Pump

Analyses Requested (circle all that apply):
 TPH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol
 TPH diesel, TPH Motor Oil, TPH Heating Oil
 Intrinsic Bio. Parameters

Number and Types of Bottle Used: 3 x 40 mL VOA'S

Well Number: MW8 Well Diameter: 4" with Casing Volume of:
 Depth to Water: 24.81' TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 15.91' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 7.833 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 39.49 gallons (volume X 4) 8" = (2.61 Gallon/Feet)

Lab: Eutach Transportation: Express Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
0905	0	18.44	0.499	8.07	6.91	301	Low: Clear, Minor Fines ↓ ↓ ↓	
0906	1	18.33	0.595	4.34	6.91	302		
0907	2	18.37	0.626	3.06	6.91	303		
0910	5	18.43	0.632	1.62	6.90	303		
0913	8	18.46	0.629	1.65	6.88	302		
0916	12	18.48	0.630	1.92	6.86	301		✓
Stop: Purge Complete; Parameters Stabilized								
JC								
9/23/04								

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 = 15.91' x 0.8 = 12.72' - (Well Depth) 40' = Depth to water 27.27'

Time: 0919 1st measured depth to water, 25.82' feet below TOC. Is well within 80% of original well casing volume: Yes No _____
 Time: 12 1st measured depth to water, 12 feet below TOC. Is well within 80% of original well casing volume: Yes No _____
 Time: 12 1st measured depth to water, 12 feet below TOC. Is well within 80% of original well casing volume: Yes No _____

Sample Well

Time: 0919 Sample ID: MW8 Depth: 25.82' feet below TOC

Comments: No floating product; No Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Harhart / H1042.0 **Date:** 2/23/04
Sample No.: MW.4 **Sample Location:** MW.4
Samplers Name: Jared Chaney **Recorded by:** JC
Purge Equipment: **Sample Equipment:**
 Bailer: Disposable or Acrylic Disposable Bailer
 Whaler # 1 Whaler # _____
 Bladder Pump Bladder Pump
 Redi-flow Pump (Grundfus) Submersible Pump
Analyses Requested (circle all that apply): **Number and Types of Bottle Used:**
 PH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol 3 x 40 mL VOA's
 TPH-diesel, TPH-Motor Oil, TPH-Heating Oil
 Intrinsic Bio-Parameters

Well Number: MW.4 **Well Diameter:** 2" with Casing Volume of:
Depth to Water: 24.47' TOC 2" = (0.16 Gallon/Feet)
Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 15.53' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 2.484 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 9.92 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Eutech **Transportation:** Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
0942	0	20.53	0.206	9.23	6.83	293	High: Brown, Many Fines	
0943	1	19.36	0.633	5.93	6.77	297	Low: Clear, Minor Fines	
0944	2	19.29	0.643	3.35	6.76	298	↓ ↓ ↓ ↓ ↓	
0945	3	19.27	0.645	1.82	6.76	298		
0946	4	19.26	0.645	1.50	6.76	298		
0948	6	19.27	0.643	0.95	6.76	298		
0950	8	19.29	0.641	0.94	6.75	297		✓
Stop: Purge Complete; Parameters Stabilized								

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 = $15.53 \times 0.8 = 12.42'$ - (Well Depth) 40' = Depth to water 27.57'

Time: 0953 1st measured depth to water, 24.59' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1030 1st measured depth to water, 1030 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1030 1st measured depth to water, 1030 feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 0953 Sample ID: MW.4 Depth: 24.59' feet below TOC

Comments: No floating product; No odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Herbert / #9042.9 Date: 9/23/04
 Sample No.: MW-11 Sample Location: MW-11
 Samplers Name: Jared Chaney Recorded by: JL
 Purge Equipment: Bailer: Disposable or Acrylic
 Whaler # 1
 Bladder Pump
 Redi-flow Pump (Grundfos)
 Sample Equipment:
 Disposable Bailer
 Whaler # _____
 Bladder Pump
 Submersible Pump
 Analyses Requested (circle all that apply):
 TPH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol
 TPH-diesel, TPH-Motor Oil, TPH-Heating Oil
 Intrinsic Bio-Parameters
 Number and Types of Bottle Used:
3 x 40 mL VOA's

Well Number: MW-11 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 24.04' TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 15.96' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 2.553 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 10.21 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
 Lab: Eutech Transportation: Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1024	0	22.99	0.022	9.00	6.64	291	Low: Clear-brown, Minor	
1026	1	19.20	0.722	7.55	6.63	298	↓ ↓ ↓	
1027	2	18.62	0.821	4.26	6.62	300	↓ ↓ ↓	
1028	3	18.48	0.826	2.98	6.62	301	Low: Clear, Minor Fines	
1029	4	18.43	0.827	1.73	6.62	301	↓ ↓ ↓	
1031	6	18.39	0.831	1.17	6.64	301	↓ ↓ ↓	
1033	8	18.34	0.831	0.57	6.64	301	↓ ↓ ↓	
1036	11	18.33	0.832	0.50	6.65	301	↓ ↓ ↓	
Step: Purge Complete								

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 = 15.96 x 0.8 = 12.768 - (Well Depth) 40 = Depth to water 27.23'

Time: 1038 1st measured depth to water, 24.21' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1035 1st measured depth to water, 15 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1035 1st measured depth to water, 15 feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 1038 Sample ID: MW-11 Depth: 24.21' feet below TOC

Comments: No floating product; No Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Herbert / H9042.0 **Date:** 9/23/04
Sample No.: MW-10 **Sample Location:** MW-10
Samplers Name: Jared Chaney **Recorded by:** JC
Purge Equipment: **Sample Equipment:**
 Bailer: Disposable or Acrylic Disposable Bailer
 Whaler # 2 Whaler # _____
 Bladder Pump Bladder Pump
 Redi-flow Pump (Grundfus) Submersible Pump
Analyses Requested (circle all that apply): **Number and Types of Bottle Used:**
TPH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxvgenates, Ethanol 3 x 40 mL VOA's
~~TPH-diesel, TPH-Motor Oil, TPH-Heating Oil~~
~~Intrinsic Bio-Parameters~~

Well Number: MW-10 **Well Diameter:** 4" with Casing Volume of:
Depth to Water: 23.81' TOC 2" = (0.16 Gallon/Feet)
Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 16.19' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 10.52 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 42.0 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1105	0	21.82	0.871	8.04	6.66	277	Low: Clear, Minor Fines ↓ ↓ ↓ ↓ ↓	
1106	1	19.02	0.817	1.36	6.60	264		
1107	2	19.01	0.800	0.91	6.60	240		
1108	5	19.08	0.796	0.61	6.61	197		
1112	10	19.10	0.778	0.74	6.62	167		
1114	14	19.15	0.766	0.63	6.63	160		✓
Stop: Purge Complete; Parameters Stabilized. JC 9/23/04								

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 = $16.19' \times 0.8 = 12.95'$ - (Well Depth) 40' = Depth to water 27.05'

Time: 1116 1st measured depth to water, 24.06' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: JC 1st measured depth to water, JC feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: JC 1st measured depth to water, JC feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 1116 Sample ID: MW-10 Depth: 24.06' feet below TOC

Comments: No floating product; Very Slight Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Harbort / 149042.Q **Date:** 9/23/04
Sample No.: MW.3 **Sample Location:** MW.3
Samplers Name: Jared Cheney **Recorded by:** JC
Purge Equipment: **Sample Equipment:**
 Bailer: Disposable or Acrylic Disposable Bailer
 Whaler # 2 Whaler # _____
 Bladder Pump Bladder Pump
 Redi-flow Pump (Grundfos) Submersible Pump
Analyses Requested (circle all that apply): **Number and Types of Bottle Used:**
 TPH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol 3 x 40 mL VOA's
 TPH-diesel, TPH-Motor Oil, TPH-Heating Oil
 Intrinsic Bio. Parameters

Well Number: MW.3 **Well Diameter:** 3" **with Casing Volume of:**
Depth to Water: 24.26' TOC 2" = (0.16 Gallon/Feet)
Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 15.74' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 2.518 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 10.07 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Entech **Transportation:** Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1145	0	23.27	0.642	8.04	6.68	246	Low: Clear, Minor Fines	
1146	1	19.51	0.700	3.37	6.68	226	↓ ↓ ↓	
1147	2	19.11	0.737	1.55	6.70	193		
1147	3	18.98	0.737	1.01	6.73	176		
1148	4	18.94	0.735	0.86	6.73	159		
1149	5	18.90	0.735	0.71	6.75	139		
1151	8	18.88	0.733	0.51	6.77	121		
1153	11	18.88	0.733	0.39	6.77	112		
Stop: Purge Complete								

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 = $15.74' \times 0.8 = 12.59'$ - (Well Depth) 40' = Depth to water 27.40'

Time: 1157 1st measured depth to water, 24.91' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1158 1st measured depth to water, 13' 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: 1154 Sample ID: MW.3 Depth: 24.91' feet below TOC

Comments: No floating product; No Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Herbert / 149042-Q Date: 9/23/04
 Sample No.: MW-6 Sample Location: MW-6
 Samplers Name: Jared Chaney Recorded by: JC
 Purge Equipment: Bailer: Disposable or Acrylic
 Whaler # 2
 Bladder Pump
 Redi-flow Pump (Grundfos)
 Sample Equipment: Disposable Bailer
 Whaler # _____
 Bladder Pump
 Submersible Pump
 Analyses Requested (circle all that apply): TPH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol
 TPH-diesel, TPH-Motor Oil, TPH-Heating Oil
 Intrinsic Bio. Parameters

Number and Types of Bottle Used:
3 x 40 mL VOA's

Well Number: MW-6 Well Diameter: 4" with Casing Volume of:
 Depth to Water: 24.81 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 45' BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 20.19' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 13.12' gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 52.49 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
 Lab: Entech Transportation: Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1211	0	17.71	0.700	6.50	6.74	150	Low: Clear, Minor fines ↓ ↓ ↓	
1212	1	18.96	0.726	1.45	6.72	115		
1213	2	18.88	0.726	1.00	6.72	90		
1216	6	18.98	0.725	0.76	6.74	52		
1219	12	19.06	0.723	0.34	6.77	32		
1223	18	19.01	0.715	0.16	6.75	34		✓
Stop: Purge Complete; Parameters Stabilized								
JC								
9/23/04								

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 = 20.19' x 0.8 = 16.15' - (Well Depth) 45' = Depth to water 28.84'

Time: 1225 1st measured depth to water, 27.62' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 13 1st measured depth to water, 13 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 13 1st measured depth to water, 13 feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 1225 Sample ID: MW-6 Depth: 27.62' feet below TOC

Comments: No floating product; Moderate Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Harbert / H9042.G **Date:** 9/23/04
Sample No.: MW.9 **Sample Location:** MW.9
Samplers Name: Jared Chaney **Recorded by:** JC
Purge Equipment: **Sample Equipment:**
 Bailer: Disposable or Acrylic Disposable Bailer
 Whaler # 2 Whaler # _____
 Bladder Pump Bladder Pump
 Redi-flow Pump (Grundfos) Submersible Pump
Analyses Requested (circle all that apply): **Number and Types of Bottle Used:**
 TPH-gas, BTEX, MTBE, EDB, 1,2 - DCA, 8260 Fuel Oxygenates, Ethanol 3x 40 mL VOA's
 TPH diesel, TPH Motor Oil, TPH Heating Oil
 Intrinsic Bio. Parameters

Well Number: MW.9 **Well Diameter:** 4" with Casing Volume of:
Depth to Water: 24.00' TOC 2" = (0.16 Gallon/Feet)
Well Depth: 40' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 16.00' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 10.4 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 41.6 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Eutech **Transportation:** Deliver

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1252	0	20.10	0.556	4.98	7.00	199	Low: Clear, Minor Fines ↓ ↓ ↓	
1252	1	19.31	0.561	7.61	7.02	198		
1253	2	19.26	0.561	0.26	7.01	199		
1255	5	19.28	0.559	0.14	7.03	197		
1258	10	19.34	0.556	0.20	7.05	192		
1301	14	19.36	0.552	0.26	7.05	190		✓
Step: Purge Complete; Parameters Stabilized								
JC 9/23/04								

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 = 16' x 0.8 = 12.8' - (Well Depth) 40' = Depth to water 27.20'

Time: 1303 1st measured depth to water, 25.16' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: JC 1st measured depth to water, JC feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: JC 1st measured depth to water, JC feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 1303 Sample ID: MW.9 Depth: 25.16' feet below TOC

Comments: No floating Product; Moderate Odor

GROUNDWATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name/No.: Harbest / #9042.0 **Date:** 9/23/04
Sample No.: MW-5 **Sample Location:** MW-5
Samplers Name: Jared Chaney **Recorded by:** JC
Purge Equipment: **Sample Equipment:**
 Bailer: Disposable or Acrylic Disposable Bailer
 Whaler # 2 Whaler # _____
 Bladder Pump Bladder Pump
 Redi-flow Pump (Grundfos) Submersible Pump
Analyses Requested (circle all that apply): **Number and Types of Bottle Used:**
TPH-gas, BTEX, MTBE, EDB, 1,2-DCA, 8260 Fuel Oxygenates, Ethanol 3 x 40 mL VOA's
TPH-diesel, TPH-Motor Oil, TPH-Heating Oil
Intrinsic Bio-Parameters

Well Number: MW-5 **Well Diameter:** 4" with Casing Volume of:
Depth to Water: 24.79' TOC 2" = (0.16 Gallon/Feet)
Well Depth: 45' BGS or TOC 4" = (0.65 Gallon/Feet)
Height W-Column: 20.21' feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
Volume in Well: 13.13 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
Gallons to purge: 52.5 gallons (volume X 4) 8" = (2.61 Gallon/Feet)
Lab: Entech **Transportation:** Courier

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	ORP (mV)	Turbidity: Color, Fines	Micropurge Parameters Stabilized
1320	0	21.74	0.546	6.42	6.90	219	High: Brown, Many Fines	
1321	1	19.03	0.586	1.89	6.85	220	Low: Clear, Minor Fines	
1321	2	18.92	0.586	0.89	6.85	221		
1323	5	18.98	0.575	0.10	6.83	200		
1328	12	19.12	0.503	0.19	6.81	89		
1330	16	19.13	0.503	0.20	6.81	64		✓
Stop: Purge Complete; Parameters Stabilized								
JC								
9/23/04								

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 = $20.21' \times 0.8 = 16.16'$ - (Well Depth) 45' = Depth to water 28.83'

Time: 1333 1st measured depth to water, 32.58' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1343 1st measured depth to water, 28.80' feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: JC 1st measured depth to water, JC feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 1343 Sample ID: MW-5 Depth: 28.80' feet below TOC

Comments: No floating product; Moderate to High Odor

Appendix B
Certified Analytical Report - Groundwater Samples

Entech Analytical Labs, Inc.

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

Jered Chaney
Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076

Certificate ID: 40553 - 9/30/2004 12:20:50 PM

Order: 40553
Project Name: Harbert Transportation
Project Number: H9042.Q

Date Collected: 9/23/2004
Date Received: 9/23/2004
P.O. Number: H9042.Q

Certificate of Analysis - Final Report

On September 23, 2004, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>	<u>Comments</u>
Liquid	8260Petroleum	EPA 8260B	8260Petroleum=1,2DCA+EDB+BTEX+Oxy's+Ethanol for all samples
	TPH as Gasoline - GC/MS	GC-MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

for 

Laurie Glantz-Murphy
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-001 Sample ID: MW-3

Matrix: Liquid Sample Date: 9/23/2004 11:54 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	2.9		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	102	64 - 125
Dibromofluoromethane	101	23 - 172
Toluene-d8	104	70 - 134

Analyzed by: TAF

Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	160		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	97.0	64 - 125
Dibromofluoromethane	91.4	23 - 172
Toluene-d8	95.7	70 - 134

Analyzed by: XBian

Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab # : 40553-002 Sample ID: MW-4

Matrix: Liquid Sample Date: 9/23/2004 9:53 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene	100	64 - 125
Dibromofluoromethane	101	23 - 172
Toluene-d8	104	70 - 134

Analyzed by: TAF

Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate Surrogate Recovery Control Limits (%)

4-Bromofluorobenzene	97.5	64 - 125
Dibromofluoromethane	103	23 - 172
Toluene-d8	96.2	70 - 134

Analyzed by: XBian

Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-003

Sample ID: MW-5

Matrix: Liquid Sample Date: 9/23/2004 1:43 PM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	470		20	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	86		20	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	1000		20	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	2200		20	20	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		20	6	µg/L	N/A	N/A	09/27/2004	WMS2040927
Note: Methyl-t-butyl Ether is being reported to the MDL.									
Ethyl-t-butyl Ether	ND		20	100	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		20	200	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		20	100	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		20	100	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		20	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		20	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		20	2000	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101	64 - 125
Dibromofluoromethane	105	23 - 172
Toluene-d8	104	70 - 134

Analyzed by: TAF

Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	7000		40	1000	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	91.5	64 - 125
Dibromofluoromethane	94.1	23 - 172
Toluene-d8	91.8	70 - 134

Analyzed by: XBian

Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-004 Sample ID: MW-6

Matrix: Liquid Sample Date: 9/23/2004 12:25 PM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	350		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	79		5	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		5	1.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Note: Methyl-t-butyl Ether is being reported to the MDL.									
Ethyl-t-butyl Ether	ND		5	25	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		5	50	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		5	25	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		5	25	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		5	500	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	103	64 - 125
Dibromofluoromethane	106	23 - 172
Toluene-d8	103	70 - 134

Analyzed by: TAF
Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	4400		5	130	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	87.2	64 - 125
Dibromofluoromethane	99.5	23 - 172
Toluene-d8	88.0	70 - 134

Analyzed by: XBian
Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-005

Sample ID: MW-7

Matrix: Liquid Sample Date: 9/23/2004 8:43 AM

Method: EPA-8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	0.73		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101	64 - 125
Dibromofluoromethane	101	23 - 172
Toluene-d8	104	70 - 134

Analyzed by: TAF

Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	99.9	64 - 125
Dibromofluoromethane	104	23 - 172
Toluene-d8	98.7	70 - 134

Analyzed by: XBian

Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-006 Sample ID: MW-8

Matrix: Liquid Sample Date: 9/23/2004 9:19 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101	64 - 125
Dibromofluoromethane	102	23 - 172
Toluene-d8	105	70 - 134

Analyzed by: TAF

Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	98.3	64 - 125
Dibromofluoromethane	104	23 - 172
Toluene-d8	98.6	70 - 134

Analyzed by: XBian

Reviewed by: BDHABALIA

Detection Limit = Detection Limit for Reporting.

DF = Dilution and/or Prep Factor including sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

9/30/2004 12:21:49 PM - Spatel

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-007 Sample ID: MW-9

Matrix: Liquid Sample Date: 9/23/2004 1:03 PM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	230		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	180		5	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		5	1.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Note: Methyl-t-butyl Ether is being reported to the MDL.									
Ethyl-t-butyl Ether	ND		5	25	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		5	50	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		5	25	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		5	25	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		5	2.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		5	500	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	101	64 - 125	TAF
Dibromofluoromethane	102	23 - 172	Reviewed by: MTU
Toluene-d8	104	70 - 134	

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	1900		5	130	µg/L	N/A	N/A	09/27/2004	WMS1040927
Surrogate									
4-Bromofluorobenzene	89.0		64	- 125				Analyzed by: XBian	
Dibromofluoromethane	94.2		23	- 172				Reviewed by: BDHABALIA	
Toluene-d8	89.3		70	- 134					

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-008 Sample ID: MW-10

Matrix: Liquid Sample Date: 9/23/2004 11:16 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	102	64 - 125
Dibromofluoromethane	106	23 - 172
Toluene-d8	105	70 - 134

Analyzed by: TAF
Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	600		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	99.1	64 - 125
Dibromofluoromethane	94.8	23 - 172
Toluene-d8	94.5	70 - 134

Analyzed by: XBian
Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
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Certificate of Analysis - Data Report

Lab #: 40553-009 Sample ID: MW-11

Matrix: Liquid Sample Date: 9/23/2004 10:38 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101	64 - 125
Dibromofluoromethane	103	23 - 172
Toluene-d8	103	70 - 134

Analyzed by: TAF

Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.5	64 - 125
Dibromofluoromethane	101	23 - 172
Toluene-d8	97.1	70 - 134

Analyzed by: XBian

Reviewed by: BDHABALIA

Entech Analytical Labs, Inc.

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Weber, Hayes and Associates
120 Westgate Drive
Watsonville, CA 95076
Attn: Jered Chaney

Project Number: H9042.Q
Project Name: Harbert Transportation
Date Received: 9/23/2004
P.O. Number: H9042.Q
Sampled By: Client

Certificate of Analysis - Data Report

Lab #: 40553-010

Sample ID: MW-12

Matrix: Liquid Sample Date: 9/23/2004 8:00 AM

Method: EPA 8260B / EPA 5030B / Purge & Trap

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Toluene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl Benzene	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Xylenes, Total	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Methyl-t-butyl Ether	ND		1	1	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethyl-t-butyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Butanol (TBA)	ND		1	10	µg/L	N/A	N/A	09/27/2004	WMS2040927
Diisopropyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
tert-Amyl Methyl Ether	ND		1	5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dichloroethane	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
1,2-Dibromoethane (EDB)	ND		1	0.5	µg/L	N/A	N/A	09/27/2004	WMS2040927
Ethanol	ND		1	100	µg/L	N/A	N/A	09/27/2004	WMS2040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	100	64 - 125
Dibromofluoromethane	105	23 - 172
Toluene-d8	103	70 - 134

Analyzed by: TAF
Reviewed by: MTU

Method: GC-MS

Parameter	Result	Flag	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	25	µg/L	N/A	N/A	09/27/2004	WMS1040927

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.8	64 - 125
Dibromofluoromethane	101	23 - 172
Toluene-d8	96.7	70 - 134

Analyzed by: XBian
Reviewed by: BDHAB/ALIA

Detection Limit = Detection Limit for Reporting.

DF = Dilution and/or Prep Factor including sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

9/30/2004 12:21 57 PM - Spatel

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

Quality Control - Method Blank

Liquid

Validated by: MTU - 09/30/04

QC Batch ID: WMS2040927

Analysis Date: 9/27/2004

Method Blank	Method: EPA 8260B				
Parameter	Result	DF	PQLR	Units	
1,2-Dibromoethane (EDB)	ND	1	0.5	µg/L	
1,2-Dichloroethane	ND	1	0.5	µg/L	
Benzene	ND	1	0.5	µg/L	
Diisopropyl Ether	ND	1	5	µg/L	
Ethanol	ND	1	100	µg/L	
Ethyl Benzene	ND	1	0.5	µg/L	
Ethyl-t-butyl Ether	ND	1	5	µg/L	
Methyl-t-butyl Ether	ND	1	1	µg/L	
tert-Amyl Methyl Ether	ND	1	5	µg/L	
tert-Butanol (TBA)	ND	1	10	µg/L	
Toluene	ND	1	0.5	µg/L	
Xylene, m+p	ND	1	1	µg/L	
Xylene, o	ND	1	0.5	µg/L	
Xylenes, Total	ND	1	1	µg/L	
Surrogate for Blank	% Recovery	Control Limits			
4-Bromofluorobenzene	100	64 - 125			
Dibromofluoromethane	97.9	23 - 172			
Toluene-d8	105	70 - 134			

Quality Control - Laboratory Control Spike / Duplicate Results

Liquid

Reviewed by: MTU - 09/30/04

QC Batch ID: WMS2040927

Analysis Date: 9/27/2004

LCS	Method: EPA 8260B							Conc. Units: µg/L		
Parameter	Blank	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits	
Benzene	<0.5	20.0	19.4	LCS	9/27/2004	97			77 - 154	
Methyl-t-butyl Ether	<1	20.0	20.7	LCS	9/27/2004	100			58 - 127	
Toluene	<0.5	20.0	20.5	LCS	9/27/2004	100			47 - 137	

Surrogate	% Recovery	Control Limits	
4-Bromofluorobenzene	102	64 - 125	
Dibromofluoromethane	101	23 - 172	
Toluene-d8	102	70 - 134	

LCSD	Method: EPA 8260B							Conc. Units: µg/L		
Parameter	Blank	Spike Amt	SpikeResult	QC Type	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits	
Benzene	<0.5	20.0	19.9	LCSD	9/27/2004	100	2.4	25	77 - 154	
Methyl-t-butyl Ether	<1	20.0	20.6	LCSD	9/27/2004	100	0.5	25	58 - 127	
Toluene	<0.5	20.0	20.9	LCSD	9/27/2004	100	2.0	25	47 - 137	

Surrogate	% Recovery	Control Limits	
4-Bromofluorobenzene	100	64 - 125	
Dibromofluoromethane	100	23 - 172	
Toluene-d8	101	70 - 134	



Weber, Hayes & Associates
Hydrogeology and Environmental Engineering

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

CHAIN -OF-CUSTODY RECORD

1 OF 1

PROJECT NAME AND JOB #: Harbert Transportation / H9042.Q

LABORATORY: Entech

SEND CERTIFIED RESULTS TO: Weber, Hayes & Associates - Attention: Jered Chaney

TURNAROUND TIME: Standard Five-Day 48hr Rush 72hr Rush

ELECTRONIC DELIVERABLE FORMAT: YES NO

GLOBAL I.D.: T0600100475

Sampler: Jered Chaney

Date: 9/23/04

Field Point Name (Geo Tracker)	Sample Identification	Sample Depth	Date Sampled	Time Sampled	Matrix	SAMPLE CONTAINERS				REQUESTED ANALYSIS							
						40 mL VOAs (preserved)	1 Liter Amber Jars	____ mL Poly Bottle	Liner Acetate or Brass	Total Petroleum Hydrocarbons			Volatile Organics			Additional Analysis	
										TPH-Diesel	Total Recoverable Petroleum Hydrocarbons	TPH-Gasoline by EPA Method GC - MS	Fuel Oxygenates & BTEX EPA Method# 8260	EDB EPA Method# 8260	Methanol EPA Method# 8015M	1,2-DCA by EPA Method# 8260	Total Lead
MW-3	MW-3	24.71	9/23/04	1154	A ₆	3					X	X	X		X	#10553-001 002 003 004 005 006 007 008 009 010	
MW-4	MW-4	24.97		0953		3					X	X	X		X		
MW-5	MW-5	24.90		1343		3					X	X	X		X		
MW-6	MW-6	24.62		1225		3					X	X	X		X		
MW-7	MW-7	25.91		0943		3					X	X	X		X		
MW-8	MW-8	25.82		0919		3					X	X	X		X		
MW-9	MW-9	25.16		1303		3					X	X	X		X		
MW-10	MW-10	29.00		1116		3					X	X	X		X		
MW-11	MW-11	29.21		1038		3					X	X	X		X		
MW-12	MW-12	25.21		0910		3					X	X	X		X		

RELEASED BY:

Date & Time

1) [Signature]
2) _____
3) _____
4) _____
5) _____

9/23/04 1507

RECEIVED BY:

Date & Time

[Signature]
9/23/04 1507

SAMPLE CONDITION:

(circle 1)

Ambient Refrigerated Frozen
Ambient Refrigerated Frozen
Ambient Refrigerated Frozen
Ambient Refrigerated Frozen
Ambient Refrigerated Frozen

NOTES:

- If MTBE is detected by EPA Method 8020, please confirm detections by EPA Method 8260 with a minimum detection limit of 5 ug/L, and report only confirmed 8260 detections
- For MTBE-analyzed samples with non-detectable results (ND) but having elevated detection limits, please confirm by EPA Method #8260
- Please use MDL (Minimum Detection Limit) for any diluted samples

ADDITIONAL COMMENTS

- Please produce and email an EDF of these results to frances@weber-hayes.com
- Fuel oxygenates should include MTBE, DIPE, TAME, ETBE, TBA, & Ethanol.

Appendix C

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

Table 2

Summary of Historical Groundwater Analytical Data
 Herbert Transportation/Meekland Avenue
 Hayward, California



Well	Date Sampled	EPA Test Methods										
		8015 Modified			8020				8010			Other
		TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	
µg/L			µg/L				µg/L			µg/L		
MW1	07/88	42,000	NA	NA	5,500	NA	4,900	6,100	NA	NA	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	ND	
	10/90	43,000	8,500	ND	3,400	1,200	2,700	5,300	ND	ND	62	
	01/91	22,000	2,700	ND	3,000	990	1,800	2,800	0.4	ND	26	
	04/91	42,000	3,100 ^a	NA	5,100	1,200	3,700	3,200	ND	ND	27	
	07/91	46,000	4,300 ^a	NA	6,500	830	2,900	3,700	ND	ND	120	
	10/91	27,000	4,300 ^a	NA	4,400	1,100	1,400	3,200	ND	ND	64	
	01/92	27,000	14,000 ^a	NA	3,300	1,200	1,600	3,800	ND	ND	25	
	04/92	33,000	11,000 ^a	NA	8,900	1,200	3,500	3,700	ND	ND	24	
	07/92	41,000	19,000 ^a	NA	5,600	1,300	2,600	4,000	ND	ND	120	
	10/92	33,000	3,500 ^a	NA	4,400	1,200	2,100	4,000	ND	ND	49	
MW3	11/89	29,000	NA	NA	4,600	680	1,100	1,100	ND	ND	36	Lead 40
	11/89	NA	NA	NA	NA	NA	NA	NA	ND	ND	36	Lead 40
	03/90	12,000	NA	NA	2,300	69	300	490	ND	ND	ND	
	07/90	7,300	990	ND	5,200	ND	440	480	ND	ND	67	
	10/90	6,200	970	ND	75	7.5	150	250	ND	ND	46	
	10/90	NA	NA	NA	NA	NA	NA	NA	ND	ND	22	Lead 3
	01/91	4,600	680	ND	2,200	220	110	89	ND	ND	40	
	04/91	8,300	640 ^a	NA	2,800	370	490	760	ND	ND	43	
	07/91	6,600	890 ^a	NA	2,000	250	230	380	ND	ND	29	
	10/91	6,300	1,700 ^a	NA	2,000	410	330	550	ND	ND	27	
	01/92	4,000	790 ^a	NA	1,200	250	60	200	ND	ND	22	
	04/92	7,400	1,800 ^a	NA	730	370	180	640	ND	ND	18	
	07/92	3,000	2,400 ^a	NA	190	ND	2.8	410	ND	ND	30	
	10/92	5,000	970 ^a	NA	1,300	320	.45	340	ND	ND	26	
	01/93	2,300	680 ^a	NA (2)	630	180	31	330	ND	ND	13	
06/93	5,000	1,100 ^a	ND	730	240	43	380	ND	ND	13		

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



Well	Date Sampled	EPA Test Methods										
		801A Modified			8020				8010			Other
		TPH-O	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	
µg/L			µg/L				µg/L			µg/L		
MW4	11/89	ND	NA	NA	33	1.3	1	5.2	NA	NA	NA	Lead 12
	03/90	ND	NA	NA	7.4	2	2	1.1	ND	ND	ND	
	07/90	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	
	10/90	ND	ND	ND	ND	ND	ND	ND	0.7	ND	0.5	
	01/91	80	ND	ND	9.2	2.4	1.7	0.7	ND	ND	ND	
	04/91	1,400	130 ^a	NA	2,200	72	ND	17	ND	ND	ND	
	07/91	130	ND	NA	14	3.3	9.7	ND	ND	ND	0.81	
	10/91	ND	ND	NA	5.3	1	ND	0.8	ND	ND	ND	
	01/92	ND	ND	NA	6.8	1.3	ND	ND	ND	ND	ND	
	04/92	780	130 ^a	NA	ND	51	ND	4.8	ND	ND	1.6	
	07/92	ND	ND	NA	ND	ND	ND	ND	ND	ND	1.3	
	10/92	100	ND	NA	9.5	ND	ND	2.6	ND	ND	ND	
	01/93	960	240 ^a	NA	200	41	4.6	9.4	ND	ND	1	
	06/93	650	140 ^a	ND	150	21	ND	ND	ND	ND	3.7	
MW5	10/90	9,600	1,900	ND	1,200	70	160	520	ND	ND	22	Lead 3
	01/91	10,000	1,200	ND	1,600	720	200	510	ND	ND	33	
	04/91	18,000	860 ^a	NA	2,500	550	580	500	ND	ND	61	
	07/91	15,000	2,200 ^a	NA	4,800	610	1,100	760	ND	ND	62	
	10/91	14,000	3,300 ^a	NA	5,000	530	820	800	ND	ND	49	
	01/92	12,000	1,900 ^a	NA	4,300	390	380	590	ND	ND	56	
	04/92	23,000	6,400 ^a	NA	8,600	ND	2,600	1,900	ND	ND	125	
	07/92	27,000	5,800 ^a	NA	6,000	ND	1,500	1,600	ND	ND	93	
	10/92	13,000	2,100 ^a	NA	4,600	140	470	550	ND	ND	59	
	01/93	18,000	1,900 ^a	NA	5,800	560	1,900	1,600	ND	ND	110	
	01/93	19,000	2,100 ^a	NA	4,600	370	1,600	1,400	ND	ND	120	
	06/93	22,000	2,900 ^a	ND	8,300	740	2,500	1,900	ND	ND	110	
	06/93	23,000	2,300 ^a	ND	9,600	730	3,000	1,900	ND	ND	110	

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



Well	Date Sampled	EPA Test Methods										Other µg/L
		8018 Modified			8020				8010			
		TPH:G µg/L	TPH:D µg/L	TPH:MO	Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Total Xylenes µg/L	TCE µg/L	PCE µg/L	1,2-DCA µg/L	
MW6	10/90	27,000	4,700	ND	2,700	450	2,900	3,300	ND	ND	40	Lead 9
	01/91	7,200	1,600	ND	1,400	ND	200	830	ND	ND	23	
	04/91	17,000	800 ^a	NA	2,800	610	1,200	1,800	ND	ND	53	
	07/91	11,000	1,400 ^a	NA	1,200	ND	380	750	ND	ND	29	
	10/91	4,800	1,600 ^a	NA	380	69	340	730	ND	ND	22	
	01/92	6,100	1,200 ^a	NA	460	180	200	590	ND	ND	26	
	04/92	7,200	1,800 ^a	NA	340	350	460	920	ND	ND	30	
	07/92	8,600	1,700 ^a	NA	1,300	380	280	1,100	ND	ND	35	
	10/92	1,600	110 ^a	NA	230	70	20	88	ND	ND	24	
	01/93	13,000	2,100 ^a	NA	2,500	370	540	2,400	ND	ND	36	
	06/93	7,400	1,900 ^a	ND	1,500	480	120	1,400	ND	ND	29	
MW7	10/90	14,000	2,700	ND	390	ND	18	1,200	ND	1.3	14	Lead 11
	01/91	4,500	1,400	ND	320	42	48	350	ND	ND	10	
	04/91	2,400	NA	NA	320	77	62	130	ND	0.6	11	
	07/91	2,000	910 ^a	NA	470	ND	24	88	ND	ND	9.7	
	10/91	ND	370 ^a	NA	ND	ND	ND	ND	ND	0.68	4.5	
	01/92	1,100	290 ^a	NA	230	45	7	88	ND	3.5	6.4	
	04/92	1,700	520 ^a	NA	310	78	28	170	ND	0.5	3.2	
	07/92	1,900	590 ^a	NA	410	78	21	170	ND	2.1	8.7	
	07/92 (dup)	1,200	700 ^a	NA	21	1	2.6	90	ND	2	8.2	
	10/92	1,800	320 ^a	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	8.8	

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



Well	Date Sampled	EPA Test Methods											
		8015 Modified			8020				8010			Other	
		TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA		
µg/L			µg/L				µg/L			µg/L			
MW8	02/91	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/91	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.5	ND	ND
	07/91	ND	ND	NA	ND	ND	2	ND	ND	ND	1.2	ND	ND
	10/91	ND	ND	NA	ND	ND	0.6	ND	ND	ND	0.4	ND	ND
	01/92	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.68	ND	ND
	04/92	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.8	ND	ND
	07/92	ND	ND	NA	ND	ND	3.3	ND	ND	ND	1.6	ND	ND
	10/92	ND	ND	NA	ND	ND	ND	ND	ND	ND	1.4	ND	ND
	01/93	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.8	ND	ND
	06/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND
MW9	02/91	8,000	1,600	NA	180	19	170	200	ND	ND	ND	13	26
	04/91	4,200	410	NA	520	130	410	580	ND	ND	6.5	12	10
	07/91	1,900	180	NA	190	12	52	77	ND	ND	14	9.6	11
	10/91	880	300	NA	160	31	44	83	ND	ND	22	12	22
	01/92	380	120	NA	14	7.6	2.2	14	ND	ND	7.8	12	29
	04/92	2,900	700	NA	510	80	260	260	ND	ND	28	29	28
	07/92	4,400	1,300	NA	860	210	340	640	ND	ND	28	29	28
	10/92	200	290	NA	6.8	1.4	2.1	7.8	ND	ND	28	29	28
	01/93	8,500	740	NA	2,400	390	620	1,500	ND	ND	28	29	28
	06/93	8,200	1,300	ND	2,400	360	480	1,500	ND	ND	28	29	28
MW10	01/92	13,000	3,700	NA	130	580	110	3,000	ND	ND	33	20	22
	05/92	15,000	5,000	NA	180	ND	18	2,700	ND	ND	22	29	25
	05/92 (dup)	13,000	7,500	NA	240	490	65	2,500	ND	ND	18	25	18
	07/92	8,100	4,400	NA	74	360	ND	1,100	ND	ND	16	16	16
	10/92	3,200	1,500	NA	ND	ND	ND	320	ND	ND	16	16	16
	01/93	7,500	2,200	NA	130	170	20	710	ND	ND	16	16	16
	06/93	8,000	2,100	ND	69	7.9	ND	490	ND	ND	16	16	16

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



Well	Date Sampled	EPA Test Methods										
		8010 Modified			8020				8030			Other
		TPH-G	TPH-D	TPH-MO	Benzene	Ethylbenzene	Toluene	Total Xylenes	TCE	PCE	1,2-DCA	
µg/L			µg/L				µg/L			µg/L		
MW11	01/92	8,200	3,200 ^a	NA	23	250	ND	1,100	ND	ND	ND	
	04/92	180	1,200 ^a	NA	ND	ND	ND	ND	ND	ND	ND	
	07/92	2,100	710 ^a	NA	39	100	2.3	53	ND	ND	ND	
	10/92	860	220 ^a	NA	2.9	19	ND	3.8	ND	ND	ND	
	10/92	770	230 ^a	NA	3.2	26	ND	5.7	ND	ND	ND	
	01/93	780	370 ^a	NA	10	2.1	ND	39	ND	ND	ND	
	06/93	2,500	160 ^a	ND	27	99	ND	34	ND	ND	ND	
MW12	12/92	2,800	1,700 ^a	NA	14	ND	ND	ND	ND	ND	ND	
	06/93	1,100	750 ^a	ND	19	21	ND	57	ND	ND	ND	
B1	01/93	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	
	06/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
F3	02/93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well Abandoned	12/89	1,800	NA	NA	200	24	18	34	ND	ND	0.15	Lead 2,100
Average ^b		8,865	1,883	250	1,582	235	517	871	0.21	0.41	24.8	
Laboratory Detection 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
 Halbert Transportation/Meekland Avenue
 Hayward, California

Well	Date Sampled	EPA Test Methods								
		8015 M		BETX 6030/8020				8010		
		TPH Gasoline	TPH Diesel	Benzene	Ethylbenzene	Toluene	Xylenes	1,2-DGA	PCE	TCE
		µg/L	µg/L	µg/L				µg/L	µg/L	µg/L
MW3	07/28/94	7,700	970 ^a	1,800	810	ND	600	22	ND	ND
	10/21/94	7,400	810	1,900	900	37	780	25	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	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
MW4	07/28/94	120	ND	7.9	0.7	1.1	ND	ND	ND	ND
	10/21/94	69	ND	3.4	ND	ND	ND	ND	ND	ND
	09/15/95	110	ND	2.5	ND	0.85	ND	2.3	ND	ND
	03/14/96	300	69 ^b	3.3	0.74	ND	ND	1.6	ND	ND
	09/26/96	ND	ND	ND	ND	ND	ND	1.2	ND	ND
MW5	07/29/94	30,000	2,200 ^a	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	86	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	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
MW6	07/29/94	15,000	2,100 ^b	3,100	1,100	71	2,000	37	ND	ND
	10/21/94	18,000	1,500	3,900	1,200	170	3,200	35	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	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
MW7	07/29/94	2,600	530 ^c	470	220	ND	310	2.7	6	ND
	10/21/94	1,700	280	280	140	4.5	240	1.8	0.74	ND
	09/15/95	NS	NS	NS	NS	NS	NS	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

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

Well	Date Sampled	EPA Test Methods								
		8015 M		8016 M				8010		
		TPH Gasoline	TPH Diesel	Benzene	Ethylbenzene	Toluene	Xylenes	1,2-DGA	PCE	TCE
		µg/L	µg/L	µg/L				µg/L	µg/L	µg/L
MW8	07/28/94	ND	78 ^a	ND	ND	ND	ND	ND	ND	ND
	10/21/94	ND	ND	ND	ND	ND	ND	ND	0.72	ND
	09/15/95	ND	ND	ND	ND	ND	ND	ND	0.74	ND
	03/14/96	ND	ND	ND	ND	ND	ND	ND	0.63	ND
	09/26/96	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW9	07/28/94	6,000	1,300 ^c	90	170	27	370	26	ND	ND
	10/21/94	6,900	600	1,800	280	220	1,500	31	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	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
MW10	07/28/94	6,700	2,000 ^d	99	180	57	430	13	ND	ND
	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	33	6.6	ND	ND
	09/26/96	7,100	420	140	210	ND	32	9.1	ND	5.9
MW11	07/28/94	450	150 ^a	6.2	20	1.1	6.6	ND	ND	ND
	10/21/94	460	190	4.9	14	ND	12	ND	ND	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	ND	1.8	ND	ND	ND
	09/26/96	480	710	ND	50	ND	ND	ND	ND	ND

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

Well	Date Sampled	EPA Test Methods								
		8015 M		PETX 8030/8020				8010		
		TPH Gasoline µg/L	TPH Diesel µg/L	Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	1,2-DCE µg/L	PCE µg/L	TCE µg/L
MW12	07/28/94	240	160	1.9	12	ND	5.8	ND	ND	ND
	10/21/94	260	190	1.9	4.5	ND	6.8	ND	ND	ND
	09/15/95	NS	NS	NS	NS	NS	NS	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
Method Detection 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 (C₈-C₁₂) and discrete peaks not indicative of diesel fuel.

1,2-DCE - 1,2-dichloroethane.

PCE - Tetrachloroethene.

TCE - Trichloroethene.

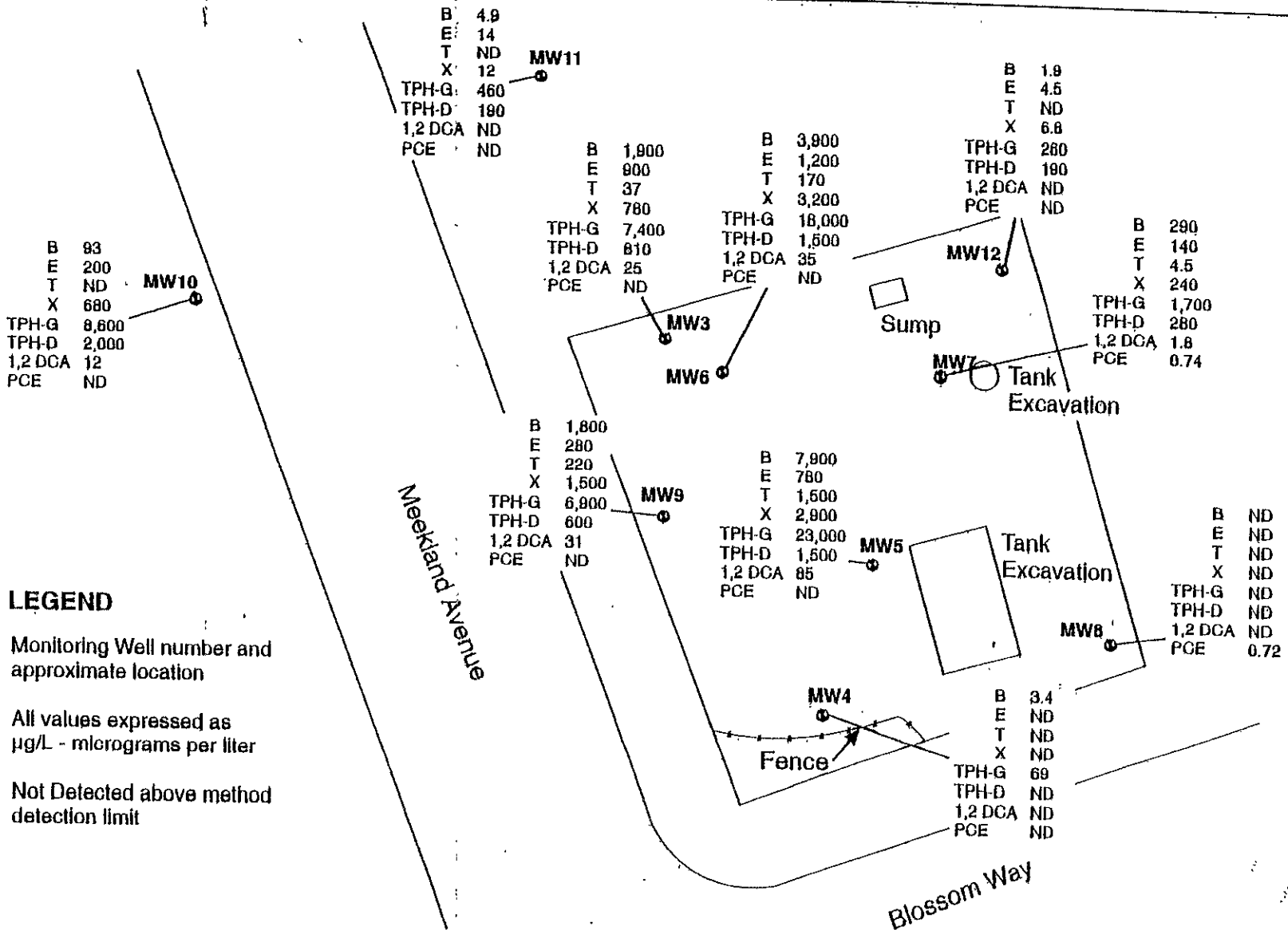
ND - Not detected at or above method detection limit.

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.



LEGEND

MW10 ● Monitoring Well number and approximate location

All values expressed as µg/L - micrograms per liter

ND Not Detected above method detection limit



AGI
TECHNOLOGIES

siteplan.cdr

PROJECT NO.
15,833.002

DRAWN
DFF/ALW

DATE
01 February 95

APPROVED

REVISED

FIGURE

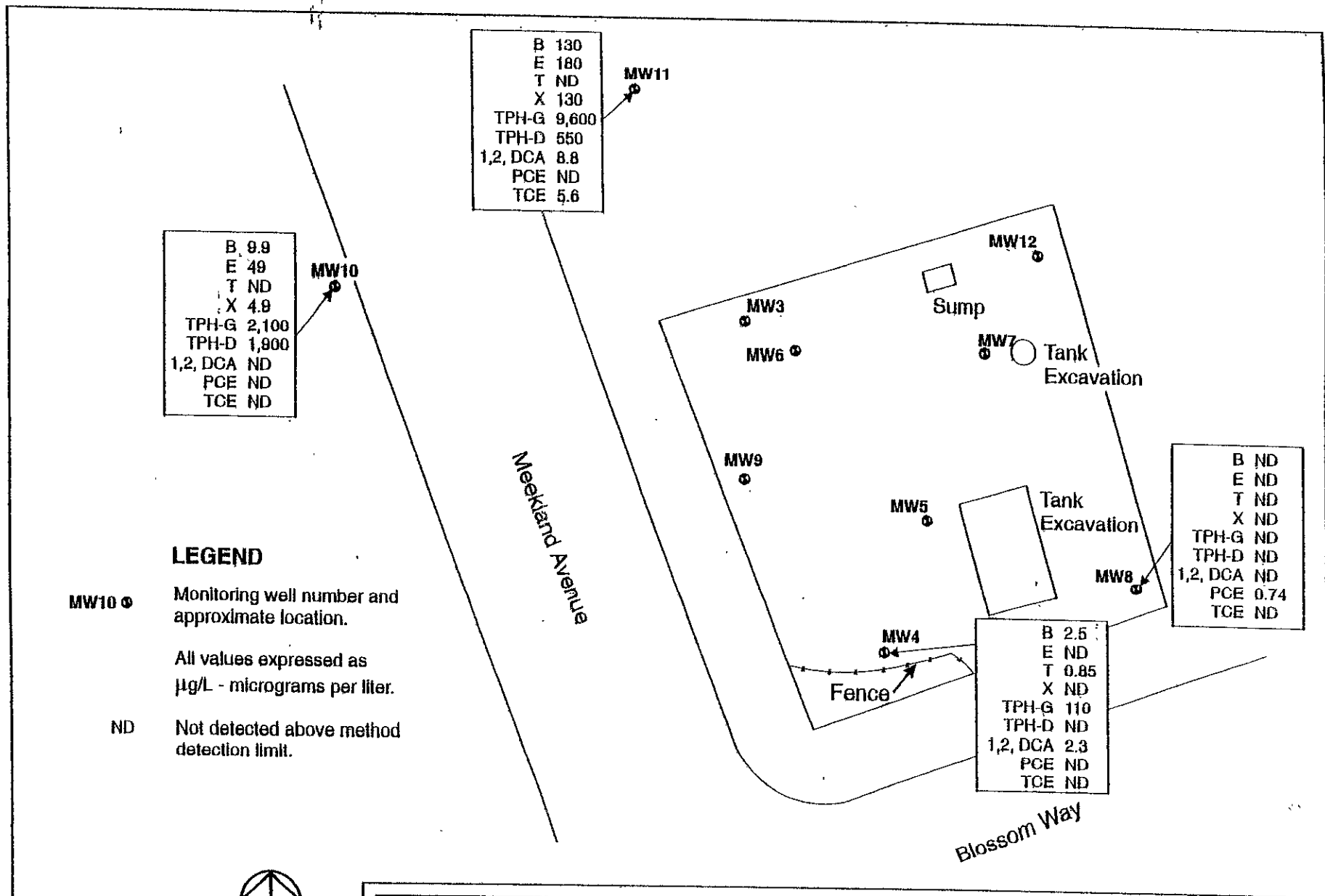
4

DATE

Site Plan

Harbert Transportation/Meekland Avenue
Hayward, California

10.20.94

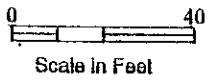


LEGEND

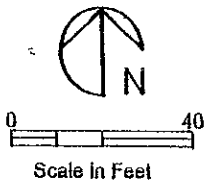
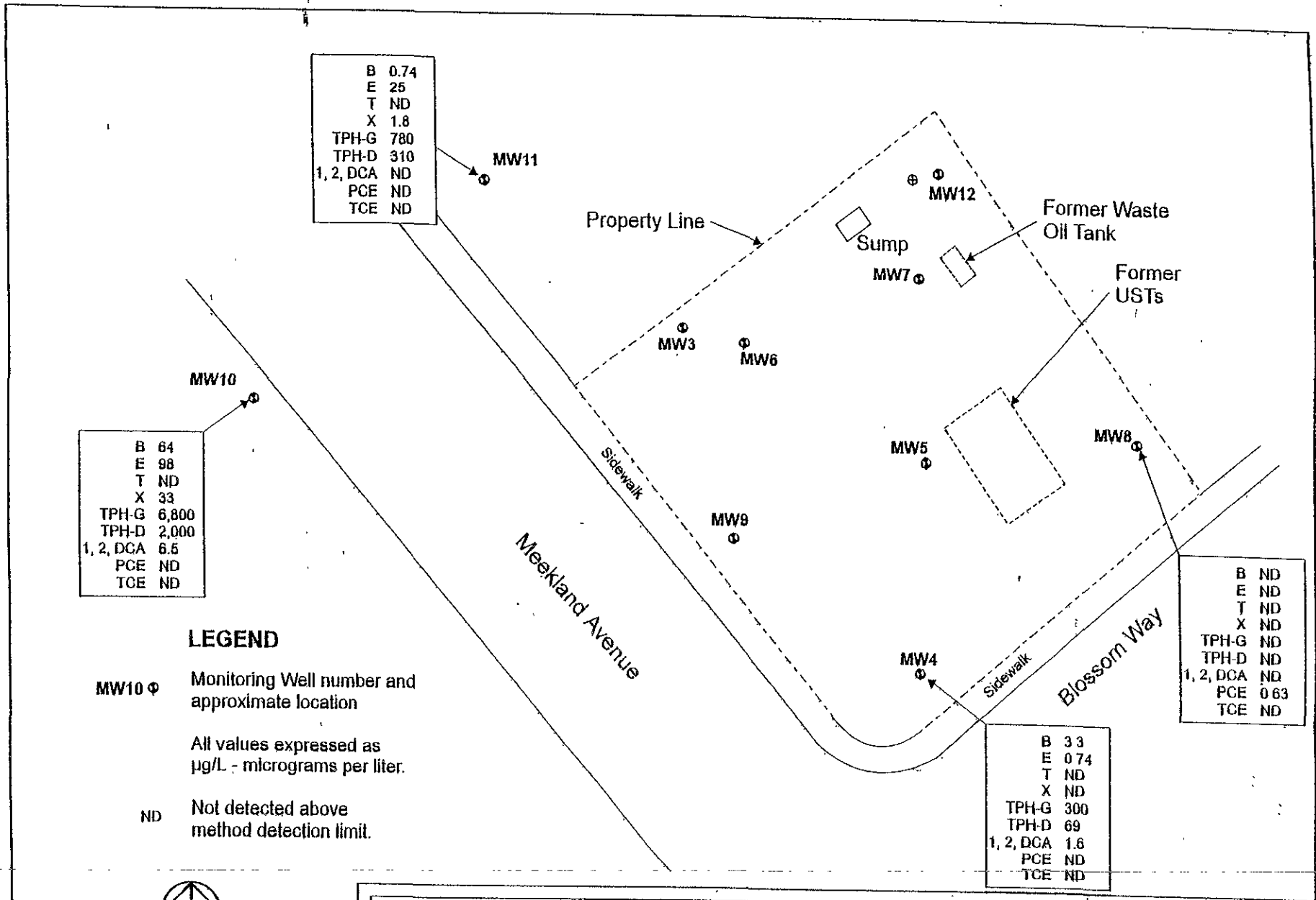
MW10 Monitoring well number and approximate location.

All values expressed as $\mu\text{g/L}$ - micrograms per liter.

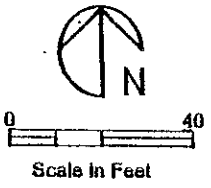
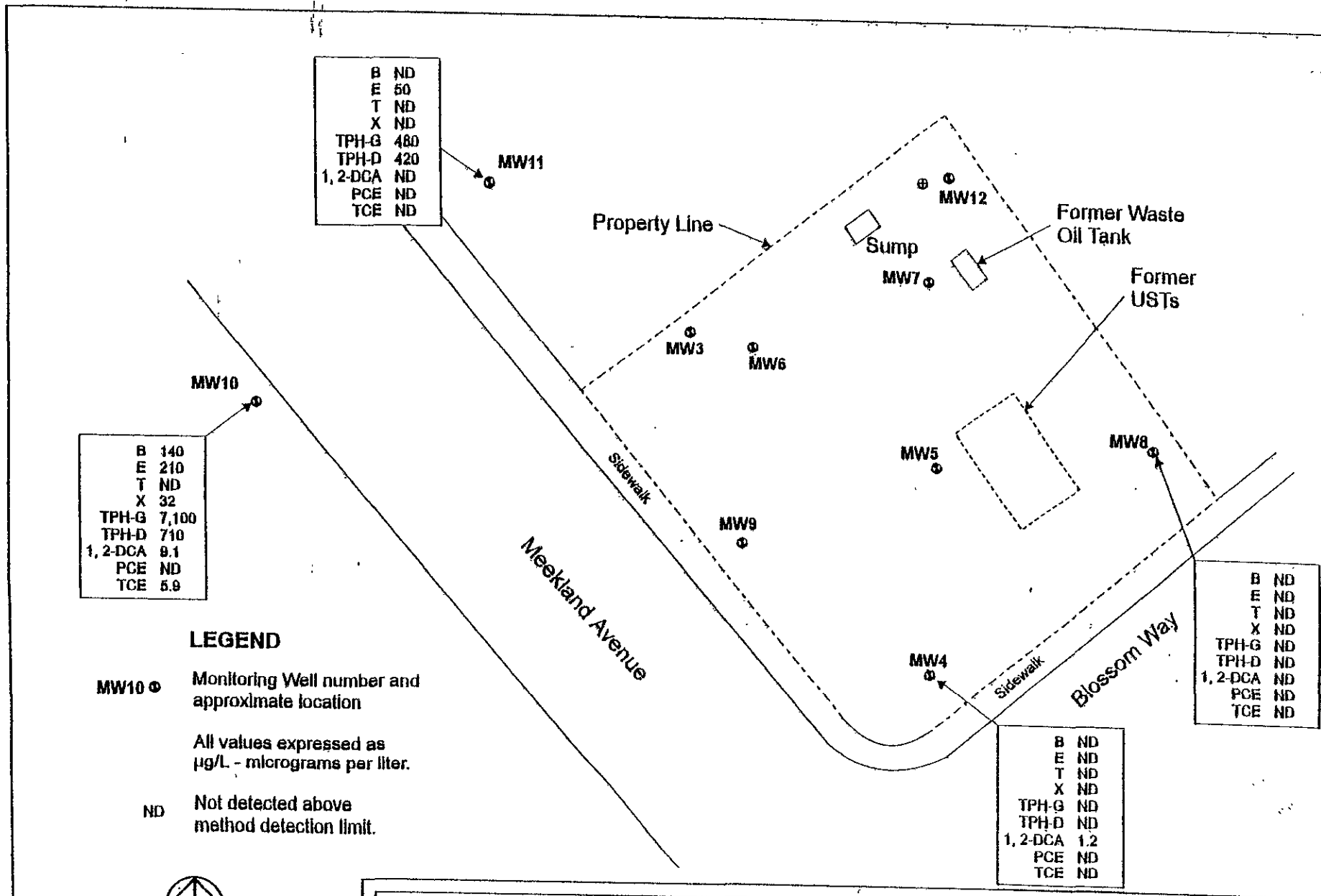
ND Not detected above method detection limit.



AGI TECHNOLOGIES	Groundwater Chemical Analysis Results - 9/15/95				FIGURE 4
	Harbert Transportation/Meekland Avenue Hayward, California				
PROJECT NO 83300201.cdr 15,833.002	DRAWN DFF	DATE 1 Feb 95	APPROVED <i>[Signature]</i>	REVISED BJA	DATE 8 Nov 95



AGI TECHNOLOGIES	Groundwater Chemical Analysis Results - March 1996				FIGURE
	Harbert Transportation/Meekland Avenue Hayward, California				4
PROJECT NO	DRAWN	DATE	APPROVED	REVISED	DATE
16,833.002	DFF	29 August 94		ALW	15 Apr 96



AGI Groundwater Chemical Analysis Results - September 1996 FIGURE 4
 Harbert Transportation/Meekland Avenue
 Hayward, California

gw-anal cdr	PROJECT NO. 15,833.002	DRAWN DFF	DATE 29 August 94	APPROVED <i>[Signature]</i>	REVISED ALW	DATE 15 Apr 96
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