

Weber, Haves & Associates

Hydrogeology and Environmental Engineering

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August 22, 2003 Project H9042.O/D

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

Subject:

FUEL LEAK CASE CLOSURE REQUEST
Groundwater Monitoring Report - Second Quarter 2003.

Harbert Transportation Facility

Havward, California

Dear Mr. Harbert:

This report presents our request for closure of the fuel leak case at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California. This report also documents groundwater monitoring activities at the former Harbert Transportation facility during the second quarter 2003.

This request is based on:

- Removing petroleum hydrocarbon-contaminated soil from the source area around the removed underground storage tanks and appurtenant piping to below site-specific cleanup goals
- Six consecutive quarters of post-cleanup groundwater monitoring indicating that dissolved petroleum hydrocarbon concentrations are below site-specific cleanup goals
- A Well/Conduit Search indicating that 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

The site-specific cleanup goals for soil and groundwater are based on Risk Based/Environmental Screening Levels developed by the San Francisco Bay Regional Water Quality Control Board. Natural attenuation will complete the cleanup of groundwater by reducing the residual dissolved petroleum hydrocarbon concentrations to below water quality goals.

Confirmation that shallow groundwater near the site is not a drinking water source and that there are no nearby conduits that could serve as paths for petroleum hydrocarbons to reach deeper groundwater is the final piece of information necessary to request closure of the fuel leak case at this site.

EXECUTIVE SUMMARY

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.



The horizontal conduit portion of the Well/Conduit Study entailed contacting all utility companies in the area of the site to obtain maps of their underground utilities, field checking depths and locations of utility trenches near the site, and preparing a map summarizing the depths and locations of utilities near the site. The deepest utility trench near the site reaches a depth of approximately eight feet below the ground surface (bgs). Shallow groundwater beneath the site is found at a depth of approximately 22 to 23 feet bgs. Therefore, Utility trenches near the site could not serve as a horizontal conduit for the movement of petroleum hydrocarbon (PHC)-degraded groundwater.

The vertical conduit portion of the Well/Conduit Study entailed contacting the Alameda County Public Works Agency (ACPWA) to obtain information on any type of well within a ½-mile radius of the site, field checking the location of all wells within ½-mile of the site, and preparing a table and map summarizing the well locations, construction, and use, where available. There are no drinking water wells near the site. There are no wells near or downgradient of the site that could serve as a vertical conduit for the movement of PHC-degraded groundwater.

Confirmation that shallow groundwater near the site is not a drinking water source and that there are no nearby conduits that could serve as paths for PHCs to reach deeper groundwater is the final piece of information necessary to request closure of the fuel leak case at this site. This information confirms that it is appropriate to use Risk Based/Environmental Screening Levels (ESLs) for residential indoor air impacts from PHC-degraded groundwater as the site-specific cleanup goals for groundwater. Please see our March 27, 2003 Report for the criteria used to select the site-specific cleanup goals.

Groundwater samples from the first quarter 2003 were analyzed for Halogenated Volatile Organic Compounds (HVOCs), because trace levels of these compounds had been detected in the original site investigation. The only HVOC detected was 1, 1, 2-trichloroethane, at a maximum concentration of 9 micrograms per liter (µg/L, parts per billion, ppb). This concentration is well below the ESL for Residential Indoor Air Impacts which we use as the site-specific cleanup goal. Please see our July 2, 2003 Report for details.

The groundwater monitoring event for the second quarter 2003 took place on June 24, 2003. Groundwater elevations at the site fell an average of approximately 0.14 feet since the previous quarter (March 2002). The calculated groundwater flow direction on June 24, 2003 was to the west, which is consistent with historical data. Groundwater analytical results from the second quarter 2003 indicate that dissolved PHC concentrations fluctuated somewhat; but were generally lower. For the sixth consecutive quarter, dissolved PHC concentrations were below the site-specific cleanup goals.

Methyl-tert-Butyl Ether (MTBE) was not detected in the groundwater samples collected this quarter. MTBE has not been detected in soil or groundwater at the site. Groundwater samples in the third quarter 2000 were analyzed for the fuel oxygenates Di-isopropyl Ether, tertiary Butyl

Alcohol, Ethyl tertiary Butyl Ether, and tertiary Amyl Methyl Ether. No fuel oxygenates were detected in these groundwater samples.

At this time we recommend closing the fuel leak case at this site. Site investigations, groundwater monitoring, and comparison of site data to ESLs show that residual PHCs in soil and groundwater do not threaten human health or groundwater resources. Residual PHCs in shallow groundwater at the site will degrade to groundwater quality goals (drinking water Action Levels/Maximum Contaminant Levels), and there are no conduits for transport of residual PHCs in groundwater.

INTRODUCTION

This report presents our request for closure of the fuel leak case at the former Harbert Transportation facility, 19984 Meekland Avenue, Hayward, California.

This request is based on:

- Removing petroleum hydrocarbon-contaminated soil from the source area around the removed underground storage tanks and appurtenant piping to below site-specific cleanup goals (Please see our March 27, 2003 Proposed Site Specific Cleanup Goals Revised, Groundwater Monitoring Report)
- Six consecutive quarters of post-cleanup groundwater monitoring indicating that dissolved petroleum hydrocarbon concentrations are below site-specific cleanup goals (including the second quarter 2003 described in this report)
- A Well/Conduit Search indicating that 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 (also described in this report)

The site-specific cleanup goals for soil and groundwater are based on Risk Based/Environmental Screening Levels developed by the San Francisco Bay Regional Water Quality Control Board. Natural attenuation will complete the cleanup of groundwater by reducing the residual dissolved petroleum hydrocarbon concentrations to below water quality goals.

This report also documents groundwater monitoring activities at the former Harbert Transportation facility during the second quarter 2003. Groundwater monitoring has been required by the Alameda County Health Care Services Agency/Environmental Health Services (Environmental Health) pursuant to a release of petroleum hydrocarbons (PHCs) from underground storage tanks (USTs) at the site.

Environmental Health concurred with our first quarter 2002 recommendation to decrease the sampling frequency at selected monitoring wells. The current sampling schedule is:

Quarterly Monitoring Wells MW-3, 5, 6, 9, and 10

Semi-Annually Monitoring Wells MW-3, 5, 6, 7, 9, and 10 (Second Quarter)

Annually All Wells, MW-3 - 12 (Fourth Quarter)

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/Environmental Screening for contaminants at the site was based on residential land use. Residual concentrations of PHCs are below the residential Risk-Based/Environmental Screening Levels, so no formal land use restrictions are necessary to protect human health (see below).

Summary of Site Investigations and Interim Remedial Actions

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 from other consultants indicates the other two monitoring wells were properly destroyed, however this is not reflected in Alameda County well records - see the Well/Conduit Search section, below). 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 to the present. Analytical data from the groundwater monitoring program indicate that shallow groundwater at the site has been impacted by PHCs. However, neither Methyl tert Butyl Ether (MTBE) nor other fuel oxygenates (Di-isopropyl Ether, tertiary Butyl Alcohol, Ethyl tertiary Butyl Ether, and tertiary Amyl Methyl Ether) 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 | ТРН-д | 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 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 (these are denoted as RBSLs). In July 2003, the California Regional Water Quality Control Board, San Francisco Bay Region updated their publication and re-titled it: Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (these are denoted as ESLs) The changes to the site specific cleanup goals for contaminants of concern at this site are minor (and do not affect our request for closure):

Comparison of Site Specific Cleanup Goals/Tier 1 RBSLs/ESLs 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 - RBSL | 100 mg/kg | 0.045 mg/kg | 2.6 mg/kg | 2.5 mg/kg | 1.0 mg/kg |
| Soil Cleanup Goal - ESL | 100 mg/kg | 0.044 mg/kg | 2.9 mg/kg | 3.3 mg/kg | 1.5 mg/kg |

Comparison of the site-specific cleanup goals (both RBSLs and ESLs) 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 do not pose a threat to human health (see Table 1 for a summary of soil sample analytical results). 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 do not pose a threat to human health (see below).

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 ½ 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.).

The Well/Conduit Study was completed in the second quarter 2003, and indicated that 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.

The groundwater samples collected in the first quarter 2003 were analyzed for Halogenated Volatile Organic Compounds (HVOCs) because trace levels of the HVOCs trichloroethylene, tetrachloroethylene and 1, 2-dichloroethane had been detected in the original site investigation. None of these compounds were detected in the groundwater samples collected in the first quarter 2003. Only 1, 1, 2-trichloroethane was detected, at a maximum concentration of 9 micrograms per liter (µg/L, parts per billion, ppb) in the samples collected in the first quarter 2003. This concentration is well below both the Risk Based Screening Level of 930 ppb for Residential Indoor Air Impacts from groundwater in coarse grained soils which we propose to use as the site-specific cleanup goal. The 9 ppb concentration is also well below the Environmental Screening Level of 350 ppb for Residential Indoor Air Impacts from groundwater in coarse grained soils. We note that soils at the site are fine grained.

GROUNDWATER MONITORING - SECOND QUARTER 2003

The groundwater monitoring event for the second quarter 2003 took place on June 24, 2003. Field methods followed Weber, Hayes and Associates' standard field methodology for groundwater monitoring, which is described in Appendix A. Groundwater samples were collected from monitoring wells MW-3, 5, 6, 9 and 10 in accordance with directives from Environmental Health, and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) by EPA Method 8015M, and benzene, toluene, ethylbenzene, and xylenes (BTEX), and Methyl tert Butyl Ether (MTBE) by EPA Method 8020. Samples with elevated detection limits or detections of MTBE were analyzed by EPA Method 8260 to confirm the presence of MTBE and provide the proper detection limit.

Field data forms are also presented in Appendix A.

Free Product

Free product was not observed in any of the monitoring wells at the site. 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 0.14 feet since the previous quarter (March 2002). Calculated groundwater elevations from the gauging data collected on June 24, 2003 are shown on Figure 2. Data from this quarter indicate that groundwater flow is to the west (see Figure 2). The calculated groundwater gradient on June 24, 2003 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. A table and figures summarizing depth to groundwater data collected by previous consultants are presented as Appendix B.

Groundwater Analytical Results

Groundwater samples were collected from five of the ten monitoring wells associated with the site this quarter, in accordance with directives from Environmental Health. The groundwater analytical results for this quarter are summarized below and on Figure 3.

Summary of Petroleum Hydrocabon Groundwater Sample Analytical Results, June 24, 2003 (µg/L, ppb)

| Well ID | ТРН-д | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE |
|-----------------------------|-------------------|---------|---------|--------------|---------|--------|
| MW-3 | 260 | ND | ND | 5.6 | 2.8 | ND* |
| MW-5 | 3,800 | 100 | 58 | 310 | 670 | < 1.5* |
| MW-6 | 1,500 | < 5 | < 5 | 35 | 15 | < 0.6* |
| MW-9 | 2,900 | 25 | 9.1 | 230 | 270 | < 1.5* |
| MW-10 | 750 | < 2.5 | < 2.5 | < 2.5 | < 5 | < 1.5* |
| PQLs | 50 | 0.5 | 0.5 | 0.5 | 1 | 1 |
| Groundwater Cleanup Goal | 5,000 - 50,000 | 1,900 | 530,000 | 52,000 | 160,000 | NA |

^{* =} Confirmed by GC/MS method 8260, PQL = Laboratory's Practical Concentration Limit

The concentrations of benzene in wells MW-5 and 9 exceed the groundwater quality goal/drinking water MCL of 1 part per billion (ppb), but were below the site-specific groundwater cleanup goal of 1,900 ppb, which is the updated Environmental Screening Level (ESL). The concentrations of TPH-g and benzene in wells MW-5, 6, and 9 exceed the respective groundwater quality goal/drinking water Action Level (AL)/Maximum Contaminant Level (MCL), but were below their respective site-specific groundwater cleanup goals. We expect the concentrations of benzene to continue to decline, and to drop below MCLs over time, because dissolved oxygen levels at the site indicate biodegradation of organic compounds in shallow groundwater is occurring (see Dissolved Oxygen section).

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.

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

Analytical results for the groundwater samples collected by Weber, Hayes and Associates since the third quarter 2000 are summarized in Table 2. 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 C. All laboratory quality control and quality assurance data were within acceptable limits. A table and figures summarizing analytical results of groundwater samples collected by previous consultants is presented as Appendix D (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 0.14 feet since the previous quarter (March 2002).
- The groundwater flow direction on June 24, 2003 was to the west at a gradient of approximately 0.002 feet per foot. This direction is in agreement with data collected by us and previous data collected by others at the site.
- Concentrations of dissolved PHCs generally decreased compared to last quarter.
- MTBE was not detected in any of the groundwater samples collected this quarter.
- TPH-g was detected at a concentration above the drinking water Action Level in on-site wells MW-5, 6, and 9. The concentrations of TPH-g were below the appropriate Risk Based/Environmental Screening Level/site-specific cleanup level.
- Benzene was detected at a concentration above the drinking water MCL in wells MW-5 and 9. The concentrations of benzene were below the appropriate Risk Based/Environmental Screening Level/site-specific cleanup level.
- 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.

WELL/CONDUIT STUDY

A well/conduit study was implemented for the site following the approval of our *Work Plan for Conduit Study* (Weber, Hayes, and Associates, March 27, 2003) by Environmental Health in their e-mail dated April 15, 2003. Environmental Health also requested that the search be expanded to identify the presence of all wells within ½ 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. The results of this study were used to refine our three-dimensional Site Conceptual Model (SCM) and determine whether or not utility conduits or offsite wells would allow the spread of PHC-contaminated groundwater.

We implemented the *Work Plan* by contacting all utility companies which have underground or above ground utilities near the site, as well as contacting the Alameda County Public Works Agency (ACPWA) to obtain information on any type of well within ½-mile radius of the site.

Three utility companies (Oraloma Sewer, East Bay Mud, and Pacific Gas & Electric) as well as three departments within ACPWA (Land Development Department, Maintenance & Operations Department and Water Resources Section) were contacted to obtain the information necessary to complete our well/conduit study.

On July 19, 2003 ACPWA Water Resources Section sent us their query results on wells within ½-mile radius of our site. This data was compiled onto Table 3 according to well number (Township, Section, and Range). Included in the query, if available were; site addresses and city; well owners; drilling dates; elevations of well heads; total depth of wells; groundwater depths; well diameters; well types; and whether or not there was a drilling log associated with the well. A total of 78 wells were identified within ½ mile of our subject site by ACPWA Water Resources Section. The well use identified by ACPWA were either: domestic well; monitoring well; irrigation well (irrigation well could also be domestic well); boring; abandoned well (but not destroyed through permit); destroyed well (destroyed through permit); test well; or, unknown type of well (well use not reported).

On July 28th, 2003 Weber, Hayes and Associates staff mapped above ground and below ground utilities in the intersection of Blossom Way and Meekland Avenue. Each manhole cover was identified and mapped, as was all street lighting and overhead electrical. It should be noted that utility companies do not provide information on depth to utilities because of liability, if they were to incorrectly provide the depth. Utility installation depths depend on other utilities in the area, and

depth to groundwater, and installation depths are determined in the field on a site by site basis. In trying to determine depths of the utilities in our area, each utility manhole cover identified was opened to observe the utility lines in the subsurface and measure their respective depths. Based on our field observations, traffic lighting, and traffic signal lighting were the shallowest, less than (<) 1 foot below ground surface (bgs). Other utilities were deeper, and are listed in order of depth. PG&E natural gas lines were observed at approximately 2 feet bgs, water lines were observed at approximately 3 feet bgs, storm drain lines were observed at approximately 6 feet bgs, and sewer lines were observed at approximately 8 feet bgs.

Following field mapping and after receiving utility maps from the utility companies, a utility map was created and is presented as Figure 8. This map depicts all utilities around the site. Our field mapping operations concurred with the utility maps obtained from the utility companies. Although there are many utilities within the subsurface around the site, all of the utilities are relatively shallow as compared to the regional groundwater table. Groundwater is encountered at approximately 22 to 23 feet bgs. Based on our field inspections the deepest conduit at the site is approximately 8 feet bgs, approximately 14 feet from the groundwater table. We do not believed that any of the utility conduits near the subject site could serve as a horizontal conduit for transporting PHC-contaminated groundwater.

After completing the utility mapping at the site, WHA staff confirmed the location of each well identified by ACPWA within ½ mile radius of the site by driving by and looking for pump houses or electrical poles which service the pump house. Generally, the irrigation wells were located at a large residential complex (mobile home, apartments, or condominiums), while the monitoring wells were located at active or abandoned gasoline stations. Domestic wells were generally noted by observing a pump house on the property. A ½-mile well radius map showing well locations was compiled and is presented as Figure 9. Particular attention was given to those wells which were near the site, especially domestic and irrigation wells. The closest two wells (3S2W17C1; 3S2W17C2) were approximately 600 feet northwest (cross-gradient) of the site, and were listed by ACPWA to be irrigation wells. Although neither depth to groundwater nor sanitary seal depths were reported for these wells, they are not located within the limits of the sites' dissolved PHC plume and therefore are not believed to be vertical conduits for transport of PHC-impacted groundwater. We also note that well MW-11 is northwest of the site and does not contain any PHCs. The groundwater plume at the subject site is estimated to be at a maximum, 120 feet long (see Figure 4). None of the other wells are close to the subject site, and therefore there are no wells that could serve as vertical conduits for transporting PHC-contaminated groundwater.

Based on all field work conducted and information obtained, no utility conduits, nor any wells identified within ½-mile radius of the site appear to be conduits that could allow transport of PHC-contaminated groundwater.

SITE CONCEPTUAL MODEL

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

- Soils encountered at the site generally consisted of fine grained materials: fat Clays and sandy Clays.
- Source zone PHC-impacted soil was removed from the site in January 2002. Approximately 594 yds³ of PHC-impacted soil was removed from the subsurface and transported to an appropriate landfill for disposal. The maximum residual PHC concentrations in soil are **below** the appropriate Environmental Screening Levels/site-specific cleanup levels. See the Summary Table below and our March 27, 2003 *Report*.
- MTBE has not been detected in any of the soil or groundwater samples collected at the site.
- Dissolved PHCs are present in groundwater beneath the site, downgradient of the removed USTs, at concentrations that exceed groundwater quality goals/drinking water Action Levels and/or MCLs. The maximum residual PHC concentrations in groundwater are **below** the appropriate Environmental Screening Levels/site-specific cleanup levels. See the Summary Table below and our March 27, 2003 *Report*.
- The groundwater samples collected in the first quarter 2003 were analyzed for Halogenated Volatile Organic Compounds (HVOCs) because trace levels of HVOCs had been detected in the original site investigation. In the first quarter 2003 only 1, 1, 2-trichloroethane was detected at a maximum concentration of 9 ppb. This concentration is well **below** both the Risk Based Screening Level of 930 ppb for Residential Indoor Air Impacts from groundwater in coarse grained soils which we selected as the site-specific cleanup goal. See our July 2, 2003 Report. The 9 ppb concentration is also well below the Environmental Screening Level of 350 ppb for Residential Indoor Air Impacts from groundwater in coarse grained soils. We note that soils at the site are fine grained.
- Dissolved PHC concentrations show a general downward trend (see Table 2 and Figures 6 and 7).
- Shallow groundwater near the site is not a drinking water source and there are no nearby horizontal or vertical conduits that could serve as paths for petroleum hydrocarbons to reach deeper groundwater.
- Natural attenuation/bioremediation has and will continue to remove PHCs from groundwater at the site, as evidenced by the general downward trend in PHC concentrations.

Comparison of Site Specific Cleanup Goals/ESLs to Site Data

| Chemical | ТРН-д | 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 - ESL | 100 mg/kg | 0.044 mg/kg | 2.9 mg/kg | 3.3 mg/kg | 1.5 mg/kg |
| Highest Current Groundwater Concentration | 3,800 µg/L | 100 µg/L | 58 μg/L | 310 μg/L | 670 µg/L |
| Groundwater Cleanup Goal - ESL | 5,000 - 50,000 μg/L | 1,900 µg/L | 530,000 μg/L | 52,000 μg/L | 160,000 µg/L |

RECOMMENDATIONS

At this time we recommend closing the fuel leak case at this site. Site investigations, groundwater monitoring, and comparison of site data to ESLs show that residual PHCs in soil and groundwater do not threaten human health or groundwater resources. Residual PHCs in shallow groundwater at the site will degrade to groundwater quality goals (drinking water Action Levels/Maximum Contaminant Levels), and there are no conduits for transport of residual PHCs in groundwater.

SCHEDULE OF ACTIVITIES FOR THE FOLLOWING QUARTER

No monitoring, investigative, or cleanup activities are scheduled for the next quarter at the site.

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.

No. C 054081

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.

ARON L. BIERMAN

Sincerely yours,

Weber, Hayes And Associates

Chad N. Taylor Staff Geologist

Aaron Bierman

Craig B. Drizin, F Senior Engineer

Senior Staff Geologist

c: Mr. Scott Seery, Alameda County Environmental Health

Mr. Jeff Lawson

Ms. Laurie Berger

Mr. Gregg Petersen, Durham Transportation

Attachments

| Table 1 | Summary of Soil Sample Analytical Results |
|------------|---|
| Table 2 | Summary of Groundwater Elevation and PHC Analytical Data |
| Table 3 | ½ Mile Radius Well Search |
| 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 |
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| Appendix C | Certified Analytical Report - Groundwater Samples |
| Appendix D | Summary of Historical Groundwater Analytical Results - AGI Technologies, Inc. |

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Table 1: Summary of Soil Sample Analytical Results Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, CA Weber, Hayes and Associates Project H9042

| | r | 1 | | T | T | | | |
|---|------------------------------------|-----------------------------------|----------------------------|----------------------------|----------------------|-------------------------|----------------------|-------------------|
| Investigation & Date | Sample ID | Sample Depth (feet,bgs) | TPH-g (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | MTBE (mg/kg |
| Proposed Cleanup Levels | <u></u> | | 100 | 0.045 | 2.6 | 2.5 | 1 0 | NA |
| Interim Remedial Action | Soil Reuse #la,b,c,d | 4-point composite (0 - 10') | ND | ND | ND | ND | ND | ND |
| Large Diameter Auger Drilling & Source Removal (January 7, 8, 9, 10, 2002) | Soil Reuse #2a,b,c,d | 4-point composite (0 - 20') | ND | ND | NID | NID | ND | ND |
| | Soil Reuse #3a,b,c,d | 4-point composite (0 - 20') | ND | ND | ND | ND | ND | ND |
| | LD#1 SW-E | 35' | ND | ND | ND | 0 005 | 0.011 | ND |
| | LD#2 SW-W | 35' | ND | ND | ND | ND | ND | ND |
| | LD#3 BC·N | 40' | ND | ND | ND | ND | ND | ND |
| | LD#4 SW-N | 40° | 1.2 ND | ND | 0 012 | 0 005 ND | 0 006 ND | ND ND |
| | LD#5 SW-N LD#8 SW-S | 40' | ND ND | ND ND | ND ND | ND | ND | ND |
| | LD#8 SW-S LD#9 SW-E | 40* | ND ND | ND | ND | ND | ND | ND |
| | LD#10 SW-E | 40' | ND | ND | ND | ND | ND | ND |
| | LD#11 SW-W | 40' | ND | ND | 0.014 | 0.013 | 0.062 | ND |
| | LD#12 SW-E | 18' | ND | ND | ND | ND | ND | ND |
| | LD#13 SW-E | 18' | ND | ND | ND | ND | ND | ND |
| | LD#13 SW-E | 40' | ND | ND | 0.006 | ND | 0 022 | ND |
| | LD#14 SW-W | 40' | ND | ND | ND | ND | ND | ND |
| | LD#15 BC-S | 40' | ND | ND | ND | ND | ND | ND |
| | LD#16 SW-W | 18' | ND | ND | מא | ND | ND | ND |
| | LD#16 SW-W | 40' | 34 | 0.041 | ND | 0.12 | 0.62 | ND |
| Landfill Acceptance Borings | DP-1c,d,e,f | 4-point composite (15-30') | ND | ND | ND | ND | ND | ND |
| (October 18, 2001) | DP-2c,d,e,f | 4-point composite (15-30') | 130 | ND | 0.13 | 0.37 | 1.2 | ND |
| Soil Sampling | DP-la | 2 | ND | ND | 0.010 | ND | 0 025 | ND |
| Additional Site Assessment | £ | 23 | ND | ND | ОN | ND | ND | ND |
| (February 14, 2001) | g @ 24' | 24 | ND | ND | ND | ND | 0.007 | ND |
| | g@27' | 27 | ND | ND | ND | 0.007 | 0.015 | ND |
| | DP-2a | 2 | ND 1 900 | ND < 0.5 | 0.019 | 0.020 19 | 270 | ND* |
| | d e | 13 5 18 5 | 1,800 8,700 | 18 | 4.5 720 | 230 | 1,600 | < 0.5 |
| | g | 24 | 1,800 | 3.5 | 52 | 39.0 | 250 | ND* |
| | DP-3a | 2 | ND | ND | 0 017 | 0 006 | 0.054 | ND |
| | ь | 75 | ND | ND | 0 063 | 0 020 | 0.12 | ND |
| | e | 185 | ND | ND | ND | ND | ND | ND |
| | g | 27.5 | 18 | 0.036 | 0 067 | 0 070 | 0 060 | ND* |
| | DP-4a | 2 | ND | ND | 0 014 | 0 008 | 0 058 | ND |
| | e | 19.5 | ND | ND | ND | ND | ND | ND |
| | g @ 25' | 25 | ND | ND | ND | ND | ND | ND |
| | g @ 27' | 27 | ND | ND | ND | ND | ND | ND |
| | DP-5a | 2 | ND | ND | ND | ND ND | ND ND | ND |
| | d f | 12 | ND | ND | ND | ļ | | ND |
| | 1 | 20 24 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| | g DP-6a | 2 | ND | ND | ND | ND | ND | ND |
| | d d | 14 | ND | ND | ND | ND | ND | ND |
| | e | 18 | ND | ND | ND | ND | ND | ND |
| | g | 24 | ND | ND | ND | 0 009 | ND | ND |
| | DP-7a | 2 | ND | ND | ND | ND | ND | ND |
| | d | 14 | ND | NID | ND | ND | ND | ND |
| | e | 18 | ND | NID | ND | ND | ND | ND |
| | | 24 | ND | ND | ND | ND | ND | ND |
| | g | | | ND | ND | ND | ND | ND |
| | g DP-8a | 2 | ND | | | | | ND |
| | | 2 13 | ND ND | ND | ND | ND | ND | |
| | DP-8a | 2 13 18 | ND ND | ND ND | ND | ND | ND | ND |
| | DP-8a d e g | 2 13 18 24 | ND ND ND | ND ND ND | ND ND | ND ND | ND ND | ND ND |
| | DP-8a d e g DP-9a | 2 13 18 24 2 | ND ND ND ND | ND ND ND ND | ND ND ND | ND ND ND | ND ND ND | NID NID NID |
| | DP-8a d e g DP-9a d | 2 13 18 24 2 13 | ND ND ND ND ND | ND ND ND ND ND | ND ND ND ND | ND ND ND | ND ND ND ND | ND ND ND |
| | DP-8a d e g DP-9a | 2 13 18 24 2 | ND ND ND ND | ND ND ND ND | ND ND ND | ND ND ND | ND ND ND | NID NID NID |

NOTES:

Proposed Cleanup Levels: RBSLs for Surface and Subsurface Soils from Application of Risk Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, SFBay RWQCB, December 2001

to Sites with Impacted Soil and Groundwater, SFBay RWQCB, December 200
FPH-q: Total Petroleum Hydrocarbons as gasoline
BTEX: B Benzen, f Tolicene, B fühylbenzene, and X Total Xylenes
MTBE: Methyl-tert-Buyl Eiber
bge: below ground surface
ND: Not detected at or above the lab's gractical quantitation himt
<X: Not detected at or above the lab's practical quantitation himt
:* MTBE Analysis confirmed by EPA Method 8260.

Table 2: Summary of Groundwater Elevation and PHC Analytical Data

Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca.
Weber, Hayes and Associates Project H9042

| Monito | ring Point Informa | tion | | | | | | Laborat | ory Analytical Re | suits | | | Field fi | feasurements |
|---------|--------------------|-------------|----------------------|----------------|----------------|---------------------------------|----------------|---------------|-------------------|--------------|---------------|-----------------|--------------|-----------------|
| Well | тос | Screen | Date | Depth to | Groundwater | Total Petroleum Hydrocarbons | | | Volatile Org | anic Compoun | ds | | Dissolved | Redox |
| I.D. | Elevation | Interval | Sampled | Groundwater | Elevation | Gasoline | Benzene | Тоіцеле | Ethylbenzene | Xylenes | MTBE | Fuel Oxygenates | Oxygen | Potential (ORP) |
| | (feet, NGVD) | (feet, bgs) | ŀ | (feet, TOC) | (feet, NGVD) | (ug/L) . | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (mg/L) | (mV) |
| MW-3 | 55.44 | 20 - 402 | | | | | | | | | | | | |
| | | | 06/24/03 | 22 53 | 32,91 | 260 | ND | ND | 5.6_ | 2.8 | ND* | | 0.18 | -2 |
| | 1 | i 1 | 03/21/03 | 22.41 | 33 03 | 460 | 33 | 1,4 | 5.6 | <25 | ND* | | 0.15 | -34 |
| | | | 12/30/02 08/27/02 | 21.32 23.87 | 34 12 31 57 | 70 350 | ND 0.56 | ND 1,1 | 2,1 14 | < 1 3.4 | ND* | | 0.14 | 536 216 |
| | | ! | 06/13/02 | 22.92 | 32.52 | 300 | 1.1 | 1.4 | 4 | 1.8 | ND | | 0.14 | 194 |
| | | 1 | 03/21/02 | 21 96 | 33.48 | 240 | 0.94 | 2.5 | 12 | 11.7 | ND | | 0.1 | - 5 |
| | | | 12/18/01 | 23.59 | 31.85 | 270 | 1.6 | 1,7 | 13 | 5.4 | ND | <u> </u> | | |
| | | | 09/20/01 | 24.16 | 31.28 | 380 | 1.7 | 26 | 32 | 8.9 | ND. | | 0.4 | |
| | | | 06/20/01 | 23.55 | 31 89 | 760 | 4.4 | 2.4 | 62 | 23 | ND* | | | |
| | | 1 | 03/29/01 | 22 02 | 33.42 | 170 | 1.1 | ND | 10 | 1.6 | _ND | | 0.6 | 1 |
| | | | 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 | N:D | ND | 44 | NO | ND | ND | 1 | |
| MW-4 | 55.71 | 20 - 40? | 00/04/05 | 22,74 | 20.07 | | | <u> </u> | | | | | 101- | 22 |
| | | | 06/24/03 | 22.74 | 32 97 33.22 | | _ | - | | | - | | 1.01 | 18 |
| | | | 12/30/02 | 21.50 | 33.22 | ND ND | - ND | ND ND | ND. | <1 | ND | | 0.41 | 368 |
| | 1 | | 08/27/02 | 24.07 | 31 64 | - 100 | - 10 | - 140 | | | | | 0.21 | 187 |
| i | ì | ' | 06/13/02 | 23.15 | 32 56 | ND | ND | ND | CIN | ND | ND | | 0.20 | 392 |
| | | ļ i | 03/21/02 | 22.15 | 33.56 | ND | ND | ND | ND | ND | ND | | 0.2 | |
| | | 1 | 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 | |
| | 1 | | 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 | NO ND | ND ND | ND | ND ND | ND ON | ND | | 2.5 | |
| MW-5 | 56 03 | 25 - 45 | 09/2//00 | 23.25 | 32 46 | NU NU | ND | ND | ND | מא | NO | NO | 2.5 | |
| 14144-0 | - 3003 | 23-43 | 06/24/03 | 23 08 | . 32.95 | - 3,800 | 100 | 58 | 310 | 670 | < 1.5* | <u> </u> | 0.05 | -67 |
| | 1 | 1 | 03/21/03 | 22.99 | 33.04 | 4,600 | 190 | 82 | 370 | 700 | < 5* | | 0.07 | -72 |
| | | | 12/30/02 | 21.88 | 34 15 | 130 | 5.8 | 1.0 | 9.9 | 59 | ND* | | 0.14 | 251 |
| | | • | 08/27/02 | 24 42 | 31.61 | 1,900 | 170 | 14 | 210 | 93 | ND* | | 0.43 | 207 |
| | | 1 | 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 | 94 | 28 | 62 | ND | | 0,1 | |
| ĺ | ľ | i ! | 12/18/01 09/20/01 | 23.15 24.75 | 32.88 31.28 | 780 2,300 | 21 46 | 12 41 | 280 | 94 330 | ND* | | 0.3 | <u> </u> |
| | | [1 | 06/20/01 | 24.75 | 31.88 | 6,500 | 120 | 130 | 740 | 940 | ND* | | - 0.3 | |
| | | | 03/29/01 | 22.69 | 33 34 | 13,000 | 220 | 510 | 1000 | 2700 | ND* | | 04 | |
| | | | 01/12/01 | 23.97 | 32.06 | 1,100 | 62 | 40 | 150 | 290 | ND* | | 0.3 | - |
| | L | | 09/27/00 | 23.69 | 32.34 | 18,000 | 840 | 29 | 1200 | 3500 | < 30 | ND | 04 | = |
| MW-6 | 56.01 | 25 - 45 | | | | | | | | | | | | |
| | | [] | 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 -004 |
| | | , | 12/30/02 08/27/02 | 21.91 24.44 | 34 10 31.57 | 670 1,300 | 2.5 < 2.5 | < 1 25 7 2 | 29 210 | 2,7 55 | ND* | | 0.15 0.14 | 321 231 |
| | ¥ | (| 06/13/02 | 23.53 | 32.48 | 1,600 | <1.25 | 47 | 67 | 5.3 | < 1.5* | | 0.14 | 233 |
| 1 | | | 03/21/02 | 23.11 | 32.90 | 750 | 0.77 | 12 | 39 | 3,2 | ND* | | 0.1 | |
| | | l i | 12/18/01 | 24.16 | 31 85 | 3,700 | 33 | 8.7 | 320 | 110 | < 1.5* | | | |
| j | | ļ . | 09/20/01 | 24 72 | 31.29 | 2,500 | 11 | 8.6 | 240 | 94 | ND* | | 0.3 | ı |
| | } | 1 | 06/20/01 | 24.13 | 31.88 | 1,800 | 14 | 46 | 160 | 79 | ND* | | | |
| | • | i | 03/29/01 | 22.56 | 33.45 | 610 | 2.2 | ND | 37 | 4.6 | ND* | | 0.5 | |
| 1 | | | 01/12/01 | 23.97 | 32.04 | 2,300 | 16 | 3.5 | 290 | 83 | ND* | | 0.5 | |
| | L | L | 09/27/00 | 23.56 | 32.45 | 1,300 | ND | 4.3 | 200 | . 17 | QZ | 2 | 0.5 | |

Table 2: Summary of Groundwater Elevation and PHC Analytical Data

Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca.

Weber, Hayes and Associates Project H9042

| Monito | ring Point Informa | tion | | | | | | Laborat | lory Analytical Re | | *** ** ******************************* | | Field | Measurements |
|--------|--------------------|-------------|----------------------|----------------|------------------------|---|------------|----------|--|--------------|--|--|-----------|-----------------------|
| Well | 70C | Screen | Date | Depth to | Groundwater | Total Petroleum Hydrocarbons | | gi Gerli | Volatile Orga | anic Compoun | ds | | Dissolved | Redox |
| ID. | Elevation | Interval | Sampled | Groundwater | Elevation | Gasoline | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Fuel Oxygenates | Oxygen | Potential (ORP) |
| 327 | (feet, NGVD) | (feet, bgs) | | (feet, TOC) | (feet, NGVD) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (mg/L) | (mV) |
| MW-7 | 56.66 | 25 - 45 | | | | | | | | | | | | |
| | | | 06/24/03 | 23.62 | 33.04 | <u> </u> | | | | | 1 | | 0,58 | 32 |
| | 1 | | 03/21/03 | 23.50 | 33.16 | <u> </u> | | | | | | | 0.51 | 20 |
| | | | 12/30/02 08/27/02 | 22.34 24.98 | 34.32 | ND | ND | ND | ND | < 1 | ND* | | 0.17 | 370 |
| | | ľ | 06/13/02 | 24.98 | 31.68 32.59 | ND ND | ND ND | ND ND | - ND | ND - | ND ND | | 0.22 | 369 |
| | | | 03/21/02 | 23.05 | 33.61 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | | 0,20 | 370 |
| | | 1 | 12/18/01 | 24.70 | 31.96 | 290 | ND | ND | 119 | 4.6 | ND ND | | 0 | |
| | 1 | | 09/20/01 | 25.27 | 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* | | - 0.4 | |
| | | | 03/29/01 | 23.10 | 33.56 | ND | ND | NΩ | ND | ND | ND | | 0.5 | |
| | ĺ | | 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 | 56.16 | 20 - 40 | | | | | | | | | | | | · |
| | | | 06/24/03 | 23.03 | 33.13_ | | | | - | | - | | 1.71 | 12 |
| | | l I | 03/21/03 | 22.91 | 33.25 | L | - | | | - | | | 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 |
| |)· | 1 | 06/13/02 | 23.54 | 32.62 | ND | ND | ND | ND | ND | ND | | 1.96 | 394 |
| | | | 03/21/02 12/18/01 | 22.51 24.16 | 33.65 32.00 | ND ND | ND | ND | ND | ND | ND | | 2.4 | |
| | | 1 | 09/20/01 | 24.68 | 31.48 | ND ND | ND ND | ND | ND | ND | ND | | | |
| | | | 06/20/01 | 24.09 | 32.07 | ND ND | ND | ND ND | ND ND | ND ND | ND ND | | 1.6 | - |
| | | | 03/29/01 | 22.56 | 33.60 | ND ND | ND | 8.0 | ND I | ND | ND | | 1,9 | |
| | ' | | 01/12/01 | 23.93 | 32.23 | ND ND | ND | ND | ND | ND | ND | | 2,1 | |
| | | i | 09/27/00 | 23.59 | 32.57 | ND | ND | ND | ND | ND ND | ND | ND ND | 1.9 | |
| MW-9 | 55.21 | 20 - 40 | | | | | | | | | 110 | - NO | 1.5 | |
| | | | 06/24/03 | 22.30 | 32.91 | 2,900 | 25 | 9,1 | 230 | 270 | < 1.5* | | 0.08 | -66 |
| | 1 | | 03/21/03 | 22.17 | 33.04 | 5,900 | 190 | 24 | 470 | 630 | < 5* | | 0.10 | -84 |
| | ' | ì ' | 12/30/02 | 21.09 | 34.12 | 2,800 | 140 | 25 | 200 | 370 | ND* | <u> </u> | 0.15 | 276 |
| | | | 08/27/02 | 23.69 | 31.52 | 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 | 26 | 4.6 | 50 | 52 | ND | | 0.1 | |
| | 1 | 1 1 | 12/18/01 | 23.38 | 31,83 | 6,400 | 640 | 120 | 630 | 1300 | < 1.5* | | - | - |
| , | i i | | 09/20/01 06/20/01 | 23.94 23.36 | 31 <u>.27</u> 31.85 | 3,400 8,300 | 270 330 | 38 | 390 | 430 | ND* | <u> </u> | 0.3 | |
| | | i | 03/29/01 | 21.61 | 33.60 | 1,600 | 110 | 88 14 | 850 240 | 1700 | < 0.6* | | <u>=</u> | |
| | | | 01/12/01 | 23 17 | 32.04 | 10,000 | 550 | 110 | 1200 | 150 2200 | ND* | | 0.4 | |
| | 1 | i i | 09/27/00 | 22.90 | 32.31 | 1,000 | 40 | 6.7 | 110 | 55 | ND ND | ND ND | 0.5 | |
| MW-10 | 54.74 | 25 - 40 | | | 02.01 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 0.7 | 1 10 | | ND | ND | 0.0 | |
| | j , | | 06/24/03 | 22.21 | 32.53 | 750 | < 2.5 | < 2.5 | < 25 | < 5 | < 1.5* | 1- - | 0.09 | -22 |
| | | | 03/21/03 | 22.00 | 32.74 | 700 | 3.4 | 1.4 | 0.71 | 1 | ND* | | 0.06 | -22 -62 |
| | | , | 12/30/02 | 20.78 | 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 | 5 | 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 |
| ' | 1 |) ' | 03/21/02 | 21.53 | 33.21 | 1,500 | ND | 11 | 3.1 | ND | ND* | | 01 | |
| | | | 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 | 39 | 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 | |
| 1 | 1 | i ' | 01/12/01 | 22.99 | 31.75 | 530 | 3.7 | 1.9 | 2.1 | 4.5 | ND | | 0.6 | |
| | <u> </u> | | 09/27/00 | 22 72 | 32.02 | 880 | ND | ND | I ND I | ND | ND | ND ND | 0.4 | |

Table 2: Summary of Groundwater Elevation and PHC Analytical Data

Former Harbert Transportation Facility, 19984 Meekland Avenue, Hayward, Ca.

Weber, Hayes and Associates Project H9042

| Monito | ring Point Informa | tion | | | | | | Laborat | ory Analytical Re | sults | | | Field f | deasurements |
|------------------------|--------------------------------|-----------------|----------------|----------------|--------------------|--|---------|--------------|-------------------|---------------------------|--------------------|------------------------------------|----------------|---|
| Well | тос | Screen | Date | Depth to | Groundwater | Total Petroleum Hydrocarbons | | | Volatile Orga | anic Compoun | ds | | Dissolved | Redox |
| I.D. | Elevation | interval | Sampled | Groundwater | Elevation | Gasoline | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Fuel Oxygenates | Oxygen | Potential (ORP) |
| | (feet, NGVD) | (feet, bgs) | | (feet; TOC) | (feet; NGVD) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (mg/L) | (mV) |
| MW-11 | 55.20 | 25 - 40 | | | | 12.5 | l | | | | | | | |
| | | | 06/24/03 | 22 37 | 32.83 | | | | _ | _ | _ | | 0.43 | 21 |
| ļ | ! | İ | 03/21/03 | 22 24 | 32.96 | | | - | - | - | _ | - | 0.32 | 24 |
| | | | 12/30/02 | 21.11 | 34.09 | ND | ND | ND | ND | < 1 | ND | | 0.16 | 374 |
| | 1 | | 08/27/02 | 23.68 | 31.52 | | | | - | - | 1 | - | 0.13 | 369 |
| | | | 06/13/02 | 22.78 | 32.42 | ND | ND | ND | ND | ND | ND | | 0.15 | 380 |
| | | | 03/21/02 | 21.76 | 33 44 | ND | ND | ND | ND | ND | ND | - | 0.1 | |
| | i | | 12/18/01 | 23.39 | 31 81 | ND | ND | 0.56 | ND | ND | ND | | | |
| | | | 09/20/01 | 23.87 | 31 33 | ND | ND | ND | ND | ND | ND | | 0.4 | - |
| | | | 06/20/01 | 23.39 | 31.81 | ND | ND | ND | ND | ND | ND | - | | - |
| | | | 03/29/01 | 21.84 | 33.36 | ND | ND | 4.5 | ND | ND | ND | | 0.6 | |
| | | | 01/12/01 | 23 21 | 31.99 | ND | ND | 2.1 | ND | D | ND | | 0.6 | |
| | | | 09/27/00 | 22.43 | 32.77 | 63 | ND | ND | ND | ND | ΝĎ | ND | 0.6 | - |
| MW-12 | 56.49 | 25 - 40 | | | | | | | | | | | | |
| 1 | | | 06/24/03 | 23 41 | 33.08 | | _ | - | _ | | | | 1 25 | 29 |
| | | | 03/21/03 | 23 28 | 33.21 | | | _ | | _ | | | 1 23 | 22 |
| | | | 12/30/02 | 22.16 | 34 33 | ND | ND | ND | ND | < 1 | ND | | 0.77 | 372 |
| | | | 08/27/02 | 24.68 | 31 81 | - | | _ | _ | _ | | _ | 0.60 | 410 |
| | | | 06/13/02 | 23.86 | 32 63 | ND | ND | ND | ND | ND | ND | | 0.51 | 400 |
| | | | 03/21/02 | 22.86 | 33.63 | ND. | ND | ND | ND | ND | ND | | 0.7 | |
| | | | 12/18/01 | 24.49 | 32 00 | ND | ND | 0.86 | ND | ND | ND | | _ | |
| | | | 09/20/01 | 24.95 | 31.54 | ND | ND | 2 | ND | ND | ND | | 0.7 - | |
| | | | _06/20/01 | 24.47 | . 32.02 | ND - | ND | ОИ | ND - | ND | N/D | | | |
| | | | 03/29/01 | 22.91 | 33.58 | ND | ND | 5 | ND | D G | ND | | 1 | - |
| | | | 01/12/01 | 24 28 | 32.21 | D/D | ND | 11 | ND | ND | ND | | 11 | <u>-</u> |
| | | | 09/27/00 | 23 98 | 32.51 | ND | ND ON | ND | ND | ND | ND | ND ND | 1.2 | - |
| Charles of the Control | il with the first of the first | Practical Quan | titation Limit | For the second | la da Libita ne la | ###################################### | 0,5 | 0.5 s | 0:5 | ∕g dax 0.5 5. • ,, | ₹ 1. 1.1.28 | <u>ት</u> ም - ትር 0.5 ለቁብ እ ጨ | ga atra− 127 . | ili, viņiš (gide), e ise ņi — √upi ~ |
| FIRHTA TOTAL | ang hijawa saka sa | Site-Specific C | leanup Goals | ga jaga sa ka | v zwolatyt, stole | 5,000 - 50,000 | 1.900 | 530,000 | 52,000 | 160,000 | NA | Lanca Contact NA | Aran - Angar | |

NOTES:

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

F.O.'s = Fuel Oxygenates = Di-isopropyl ether (DIPE), terhary Butyl Alcohol (TBA), Ethyl tertiary Butyl Ether (ETBE), tertiary armyl Methyl Ether (TAME)

VOC's = Volatile Organic Compounds. D.O. = Dissolved Oxygen

wpl. = moragams per lifer, parts per billion, mgl. = milligrams per lifer, 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 Contaminarii Levolusii
* Confirmed by GC/MS method 8260
**** = Secondary MCL / water quality goal MCL = Maximum Contaminant Level for diniking water in California (Department of Health Services).

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

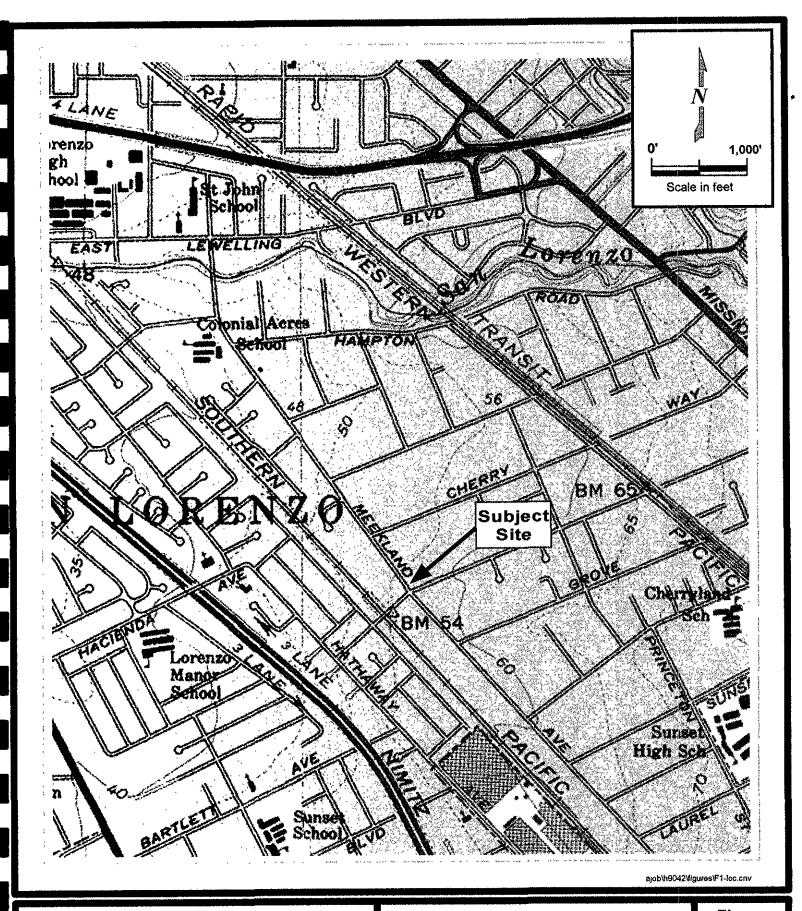
TABLE 3 1/2-Mile Radius Well Search 19984 Meekiand Avenue Hayward, California

| | | Hayward, California | | | | | | | | | | |
|------------------|-----------------|--|----------------------------|--|--------------------------|----------------------------|-----------|-------------|------------|----------|-------------|--------|
| Township | Section | Address | Çity | Owner | Updated | Drill Date | Elevation | Total Depth | Waterdepth | Diameter | Use | Log |
| 3S/2W | 8K 1 | 654 HAMPTON RD | San Leandro | G FREITAS | 8/3/1984 | /55 | 60 | 60 | 0 | 6 | IRR | 3 |
| 35/2W 35/2W | 81. 1 | 451 HAMPTON RD 18381 HAVEN ST | San Leandro | GREENFIELD KINSEY | 8/3/1984 8/3/1984 | /50 | 0 60 | 75 50 | 25 0 | 8 | !RR !RR | ? |
| 35/2W | 6L2 6L3 | 988 LEWELLING BLVD | San Leandro San Leandro | KNAPP'S NURSERY | 8/3/1984 | /42 | 57 | 211 | ŏ | 10 | IRR+ | 7 |
| 3S/2W | 8M | 17771 Meekland Ave | Hayward | Jacson Auto Electric | 7/27/1993 | 6/92 | 0 | 22 | 18 | 0 | BOR | G |
| 3S/2W 3S/2W | 8M 1 8M 2 | 477 E LEWELLING BLVD 16980 HARVARD AVE | San Leandro San Leandro | SCHRAGL SHIMAMURA | 8/3/1984 8/3/1984 | /41 ? | 42 50 | 70 58 | 0 | 10 8 | IRR IRR | ? |
| 35/2W | 8M 3 | 17662 MEEKLAND AV | Hayward | BURTON BUSK | 12/12/1984 | /68 | 48 | 85 | 22 | 8 | DOM+ | O |
| 3\$/2W 3\$/2W | 8M 4 8M 5 | 29517 SHASTA RD 171 Hampton Road | Hayward Hayward | CHARLES A, TAYLOR Cherryland Homes | 8/3/1984 7/3/1990 | 5/56 Oct-89 | 0 | 40 40 | 6 | 6 | DOM DES | 0 |
| 35/2W | 8M 6 | 171 Hampton Road | Hayward | Cherryland Homes | 7/3/1990 | Oct-89 | ŏ | 0 | ő | ő | DES | Ď. |
| 35/2W | 8M 7 | 17771 Meekland Ave | Hayward | Jocson Auto Electric MW-1 | 7/27/1993 | 6/92 | 0 | 31 | 20 | 2 | MON | G |
| 3S/2W 3S/2W | 8M 8 8M 9 | 17771 Meekland Ave 17771 Meekland Ave | Hayward Hayward | Jocson Auto Electric MW-2 Jocson Auto Electric MW-3 | 7/27/1993 7/27/1993 | 6/92 6/92 | 0 | 31 31 | 18 22 | 2 2 | MON | G |
| 35/2W | 8N 1 | 18288 MEEKLAND AVE | Hayward | BITTNER | 8/3/1984 | /40 | 47 | 85 | 0 | 0 | IRR | ? |
| 3S/2W | 8N 2 | 17754 MEEKLAND AVE | Hayward | HOFFMAN | 8/3/1984 | /45 | 48 | 156 | 0 | 8 | DES | ? |
| 3S/2W 3S/2W | 8P 1 8P 2 | 19231 LOWELL AVE 203 MEDFORD AVE | Hayward Hayward | VANDERBURG R.A. PACE | 8/3/1984 8/3/1984 | /55 /36 | 56 56 | 50 64 | 0 | 0 | IRR ∃RR | ? |
| 3S/2W | 8P3 | 219 MEOFORD AVE | Hayward | NANCY SMITH | 8/3/1984 | 1/78 | 0 | 80 | 26 | 6 | IRR | וֹפ |
| 35/2W 35/2W | 8Q 1 | 546 CHERRY WAY 19751 WESTERN BLVD | Hayward Hayward | ART CROWE DEXTER'S HATCHERY | 8/3/1984 8/3/1984 | 1/43 9/42 | 58 57 | 86 88 | 24 0 | 10 8 | IRR IRR | D |
| 35/2W | 8Q 2 8Q 3 | 361 SAINT GEORGE AVE | Hayward | R.J. CHASTAIN | 8/3/1984 | 6/77 | ő | 50 | ő | ů | 7 | 7 |
| 3S/2W | 8Q 4 | 326 CHERRY WAY | Hayward | WILLIAM MATHEWS | 8/3/1984 | 6/79 | 0 | 83 | 25 | 6 | IRR | D. |
| 38/2W 38/2W | 8Q 5 8Q 6 | 310 CHERRY WAY 268 CHERRY WAY | Hayward Hayward | WILLIE DEDEK GUENTER MAHLER | 8/3/1984 4/1/1987 | 4/80 Mar-81 | 0 | 81 83 | 23 27 | 6 | IRR IRR | D |
| 35/2W | 8R 1 | 839 CHERRY WAY | Hayward | HEITMAN | 8/3/1984 | /24 | 68 | 100 | 0 | ŏ | IRR | ? |
| 3S/2W | 8R 2 | 823 BLOSSOM WAY | Hayward | BURROWES | 12/18/1984 | /08 | 69 | 90 | 0 | 6 | IRR | ? |
| 3S/2W 3S/2W | 8R.3 8R.5 | 859 MEDFORD RD 21070 WESTERN BLVD | Hayward Hayward | O HIGGINS M VIERRA | 8/3/1984 8/3/1984 | /39 | 68 64 | 85 85 | 0 | 10 12 | IAR DOM+ | ? |
| 35/2W | 8R 6 | 559 CHERRY WAY | Hayward | MANUEL GONSALVES | 8/3/1984 | 4/77 | 0 | 64 | 31 | 5 | IRR | D |
| 3S/2W 3S/2W | 8R 8 | 850 CHERRY WAY 21065 WESTERN | Hayward Hayward | LELAND DE QUADROS RON BAXTER | 8/3/1984 8/3/1984 | Oct-77 Oct-78 | 0 | 100 100 | 41 33 | 6 | irr irr | D |
| 3S/2W 3S/2W | 8R 9 8R 10 | 21065 WESTERN 21031 Western Blvd | Hayward Hayward | William and Kathy Florenc | 3/12/1998 | Dec-95 | 0 | 35 | 25 | 2 | MON | ן מ |
| 3S/2W | 8R11 | 21031 Western Blvd | Hayward | William and Kathy Florenc | 3/12/1998 | Dec-95 | 0 | 35 | 25 | 2 | MON | D |
| 35/2W 35/2W | 8R12 17A 1 | 21031 Western Blvd 448 GROVE WAY | Hayward Hayward | William and Kathy Florenc NEVES | 3/12/1998 8/3/1984 | Dec-95 /28 | 0 68 | 35 108 | 25 0 | 2 0 | MON | D ? |
| 3S/2W | 17A 2 | 854 BLOSSOM WAY | Hayward | SOUSA | 8/3/1984 | /28 | 67 | 76 | 0 | 0 | IRR | 7 |
| 3S/2W | 17A3 | 21671 HAVILAND AVE | Hayward | DAVID PEARSON | 8/3/1984 12/19/1984 | 5/77 | υ 62 | 72 | 40 0 | 5 8 | IRR IRR | D |
| 3S/2W 3S/2W | 178 1 178 2 | 204 GROVE WAY 294 GROVE WY | Hayward Hayward | COATES WILDE | 7/30/1984 | /48 /33 | 61 | 88 100 | ŏ | ő | IRR | 7 |
| 3S/2W | 17C | 19984 Meekland Ave. | Hayward | Durham Transportation | 3/14/1991 | 8/90 | 55 | 45 | 30 | 4 | MON | G |
| 3S/2W | 17C | 19984 MEEKLAND AVE 162 CHERRY LN 1 | Hayward Hayward | HARBERT TRANSPORTATION DEASON | 7/30/1986 7/30/1984 | Jun-86 /40 | 0 53 | 23 72 | 0 | 0 6 | BOR | G ? |
| 3S/2W 3S/2W | 17C 1 17C 2 | 19126 MEEKLAND AV | Hayward | HARTWELL | 1/29/1985 | /31 | 52 | 91 | o l | 8 | IRR : | 7 |
| 35/2W | 17C 3 | 163 CHERRY WAY | Hayward | FRED DEADMAN | 8/3/1984 | 5/77 | 0 | 56 | 28 | 6 | IRR | o I |
| 35/2W 35/2W | 17C 4 17C 5 | 21005 MEEKLAND AVE 19984 MEEKLAND AVE | Hayward Hayward | ABREV EGG CO HARBERT TRANSPORTATION | 8/3/1984 10/3/1986 | 7/77 Jun-86 | 0 | 77 42 | 37 24 | 6 2 | IRR MON | D G |
| 38/2W | 1705 | 19984 Meekland Ave | Hayward | Durham Transp MW1 | 7/21/1993 | Dec-92 | 0 | 42 | 24 | 2 | ABN | E] |
| 3\$/2W | 17C 6 | 19984 Meekland Road | Hayward | Durham Transportation | 6/7/1990 | Nov-89 | 0 | 68 | 0 28 | 4 | ABN | ? |
| 38/2W 38/2W | 17C 7 17C 8 | 19984 Meekland Road 19984 Meekland Road | Hayward Hayward | Durham Transportation Durham Transportation | 6/7/1990 6/7/1990 | Nov-89 Nov-89 | 54 55 | 40 40 | 28 28 | 2 2 | MON | 2 |
| 3S/2W | 17C 9 | 19984 Meekland Ave | Hayward | Durham Transportation | 3/14/1991 | 4/90 | 0 | 65 | 0 | 0 | BOR | G |
| 35/2W 35/2W | 17C10 17C11 | 19984 Meekland Ave. 19984 Meekland Ave | Hayward Hayward | Durham Transportation Durham Transportation | 3/14/1991 3/14/1991 | Oct-90 8/90 | 55 55 | 45 45 | 31 30 | 4 | MON | G |
| 35/2W | 17C11 | 19984 Meekland Ave | Hayward | Durham Transportation | 8/2/1991 | 2/91 | 14 | 14 | 9 | 2 | MON | G |
| 35/2W | 17C12 | 19984 Meekland Ave | Hayward | Durham Transportation | 8/2/1991 | 2/91 | 14 | 0 | 9 | 0 | MON | G |
| 3S/2W 3S/2W | 17C13 17C14 | 19984 Meekland Ave 19984 Meekland Ave | Hayward Hayward | Ourham TransportationMW10 Durham TransportationMW11 | 9/23/1992 9/23/1992 | 1/92 1/92 | 0 | 40 40 | 30 30 | 4 2 | MON | G |
| 35/2W | 17C15 | 19515 Meekland Ave | Hayward | Jon Otteson | 6/17/1993 | 7/91 | 0 | 27 | 0 | 2 | DES | Εļ |
| 3S/2W | 17C 16 | 19984 Meekland Ave | Hayward | Durham Trans, MW12 GHIGLIONE | 7/15/1993 7/30/1984 | Dec-92 /53 | 0 45 | 40 50 | 32 0 | 2 10 | MON | G ? |
| 3S/2W 3S/2W | 170 1 170 2 | 24 VIA HERMOSA 19288 MEDFORD CT | Hayward Hayward | LEDBETTER | 7/30/1984 | /55 | 52 | 45 | Ö | 6 | IRR | ? |
| 3S/2W | 17D 3 | No address ² | Hayward | R,P KING | 8/3/1984 | Oct-47 | 46 | 180 | 0 | 12 | IRR | D |
| 3S/2W | 170 4 | No address ² | San Lorenzo | R P KING | 8/3/1984 | 5/30 | 0 | 273 | 0 | 0 | 3 | D |
| 35/2W 35/2W | 17E 1 17E 2 | 1330 SOLANO ST 1338 SOLANO ST | San Lorenzo San Leandro | DONALDH RUDE ALEX FARKAS | 8/3/1984 8/3/1984 | 4/53 4/53 | 0 40 | 61 61 | 18 11 | 0 4 | DOM | D |
| 35/2W | 17E 3 | No address ² | Hayward | TOM CAWATA | 8/3/1984 | 4/49 | 0 | 104 | 0 | 0 | ? | ם |
| 3S/2W 3S/2W | 17F 1 | 20161 TIMES AV | Hayward Hayward | URBANSKI SHIMAMURA | 7/30/1984 7/30/1984 | /52 /52 | 54 58 | 55 75 | 0 | 8 8 | irr Irr | ? |
| 38/2W 38/2W | 17F 2 17F 3 | 20987 MEEKLAND AV 20185 HATHAWAY | Hayward Hayward | PERKINS | 7/30/1984 | /52 6/31 | 55 | 200 | 0 | 0 | ∃RR | D |
| 3S/2W | 17F 4 | 310 Bartlett | Hayward | Anderson Lift Truck MW1 | 9/23/1992 | 4/92 | 52 | 37 | 23 | 2 | MON | 0 |
| 35/2W 35/2W | 17F 5 17F 6 | 310 Bartlett Ave 310 Bartlett Ave | Hayward Hayward | Anderson Lift Truck MW-2 Anderson Lift Truck MW-3 | 9/23/1992 9/23/1992 | 4/92 4/92 | 52 52 | 38 38 | 22 22 | 2 2 | MON | G |
| 3S/2W | 17G | 21123 Meekland Blvd | Hayward | Beck Roofing B-1 | 9/30/1992 | Oct-91 | 0 | 26 | ō | Ö | BOR* | Ğ |
| 35/2W | 17G | 21560 MEEKLAND AVE 21568 MEEKLAND AV | Hayward | JACA CONSTRUCTION FUENTES | 12/14/1988 7/30/1984 | Jun-88 5/34 | 0 60 | 25 92 | 0 | 0 8 | DES | B B |
| 35/2W 35/2W | 17G 2 17G 3 | 21568 MEEKLAND AV 21455 MEEKLAND | Hayward Hayward | JOHN DE NOBRIGA | 8/3/1984 | 5/34 Oct-77 | 0 | 92 80 | 37 | 8 | IRR | D |
| 3S/2W | 17G 4 | 21123 Meekland Avenue | Hayward | Beck Roofing | 3/9/1992 | Oct-91 | 0 | 39 | 32 | 2 | MON | ן מ |
| 3S/2W 3S/2W | 17G 5 17G 8 | 21123 Meekland Avenue 21123 Meekland Avenue | Hayward Hayward | Beck Roofing Seck Roofing | 3/9/1992 3/9/1992 | Oct-91 Oct-91 | 0 | 38 38 | 32 32 | 2 2 | MON | ם |
| 35/2W | 17G 8 | 21123 Meekland Ave | Hayward | Beck Roofing MW-1 | 10/3/1992 | Oct-91 | 0 | 46 | 31 | 2 | MON | G |
| 3S/2W | 17G 8 | 21123 Meekland Ave | Hayward | Beck Roofing MW-2 | 10/3/1992 | Oct-91 | 0 | 38 | 33 33 | 2 | MON | G |
| 3\$/2W 3\$/2W | 17G 9 17G 10 | 21123 Meekland Ave 21454 Meekland Ave | Hayward Hayward | Beck Roofing MW-3 Jon Otteson | 10/3/1992 6/17/1993 I | Oct-91 8/91 | 0 | 38 36 | 33 0 | 2 2 | MON DES | G |
| 3S/2W | 17G11 | 21123 Meekland Ave | Hayward | Beck Roofing MW-4 | 4/17/1995 | 7/94 | 0 | 40 | 28 | 2 | MON | D |
| 3\$/2W | 17H 1 17H 2 | 308 SUNSET BLVD 447 WILLOW AV | Hayward Hayward | CRITES KANE | 7/30/1984 7/30/1984 | /56 /52 | 71 72 | 75 62 | 0 | 6 8 | IRR IRR | ? |
| 3S/2W 3S/2W | 17H 2 17H 3 | 815 POPLAR ST | Hayward | J.F. TAWNEY | 12/19/1984 | 752 | 75 | 100 | ŏ | 8 | STO | 7 |
| 3S/2W | 17H 4 | 231 SUNSET | Hayward | E BILLENGER | 8/3/1984 | 9/54 | 0 | 83 | 0 | 6 | DOM | ם |
| 38/2W 38/2W | 17H 5 17H 6 | 22008 Meekland Ave 22008 Meekland | Hayward Hayward | Xid Cedar MW-1 Kid Cedar MW2 | 9/18/1992 9/18/1992 | 7/91 7/91 | 0 | 49 49 | 36 36 | 2 2 | MON | 8 |
| 35/2W | 17H 7 | 22008 Meekland | Hayward | Kid Cedar MW-3 | 9/18/1992 | 7/91 | 0 | 49 | 36 | 2 | MON | D |
| 35/2W | 17K2 | W A ST & HATHAWAY \$T | Hayward | HUNT FOOD PRODUCTS INC. | 8/3/1984 | 7/65 | 0 55 | 680 | 0 | 0 | TES | D |
| 3S/2W 3S/2W | 17L 1 17L 2 | 21335 HATHAWAY AV 442 SUNSET BLVD | Hayward Hayward | BRANELLA SILVERA | 7/30/1984 7/30/1984 | <i>#</i> 51 <i>#</i> 51 | 55 52 | 70 80 | 0 | 8 | IRR DOM | ? |
| 3S/2W | 17M | 21134 ROYAL AVE. | Hayward | STAN FELSON | 2/2/1988 | 6/82 | 0 | 65 | 0 | 8 | DES | ъΙ |
| 35/2W 35/2W | 17M 1 17M 2 | 421 BARTLETT ST 20555 GARDEN AV | Hayward Hayward | LEYMURA FERNANDES | 8/8/1984 8/8/1984 | /48 /53 | 46 49 | 60 72 | 30 | 8 6 | DOM JRR | ? |
| SOLEAN | I/MZ | ZUJUJ GARTUER MV | i iaywaiu | I WHAMIDED | 307 1004 | 100 | -20 | 14 | | , | 11,513 | |

NOTES.

¹ Cherry Lane is not a listed road in Hayward, WHA assumed well listed as being on Cherry Lane should be on Cherry Way

² Wetta could not be located due to insufficient information.



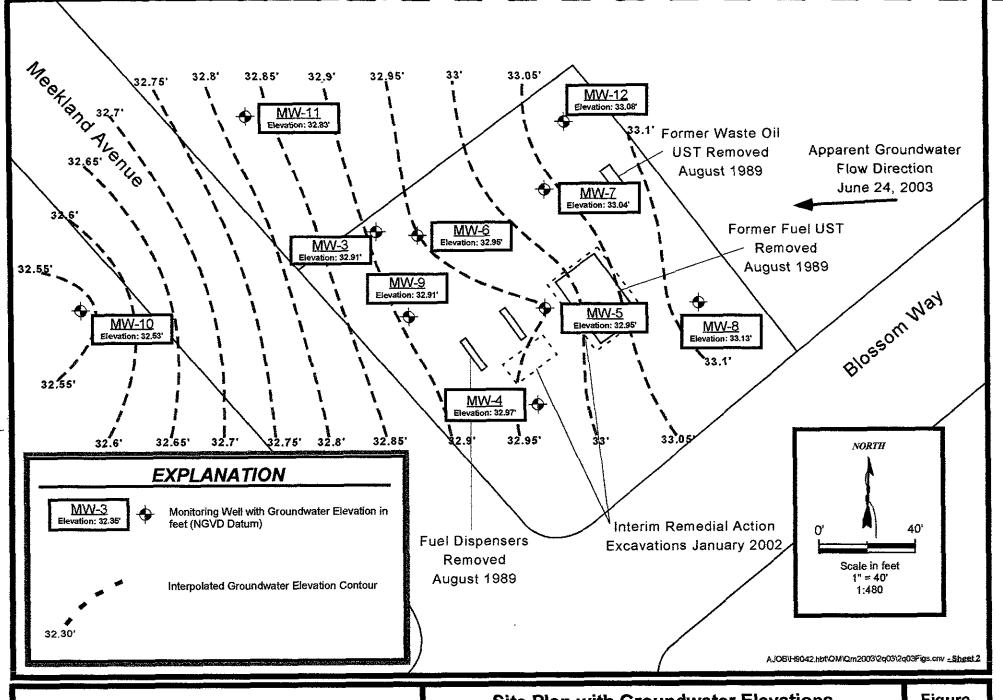


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Hydrogeology and Environmental Engineering
120 Westgate Drive, Watsonville, Ca. 95076
(831) 722 - 3580 (831) 662 - 3100

Location Map

Former Harbert Transportation Facility 19984 Meekland Avenue Hayward, California

Figure Job# H9042



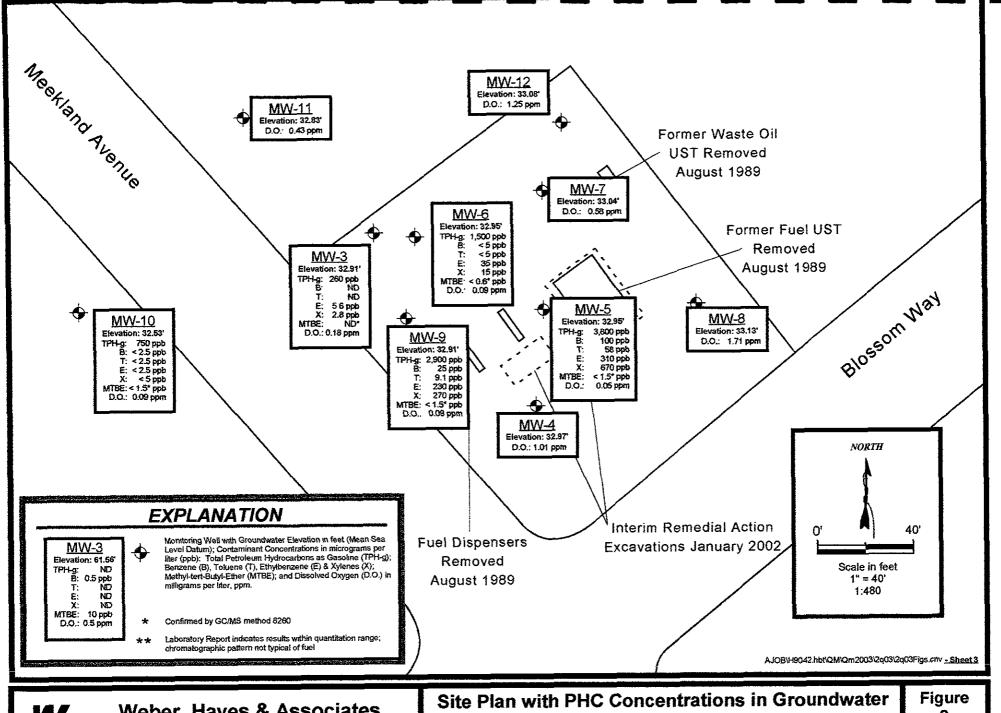


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Site Plan with Groundwater Elevations June 24, 2003

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California

Figure 2 Project H9042

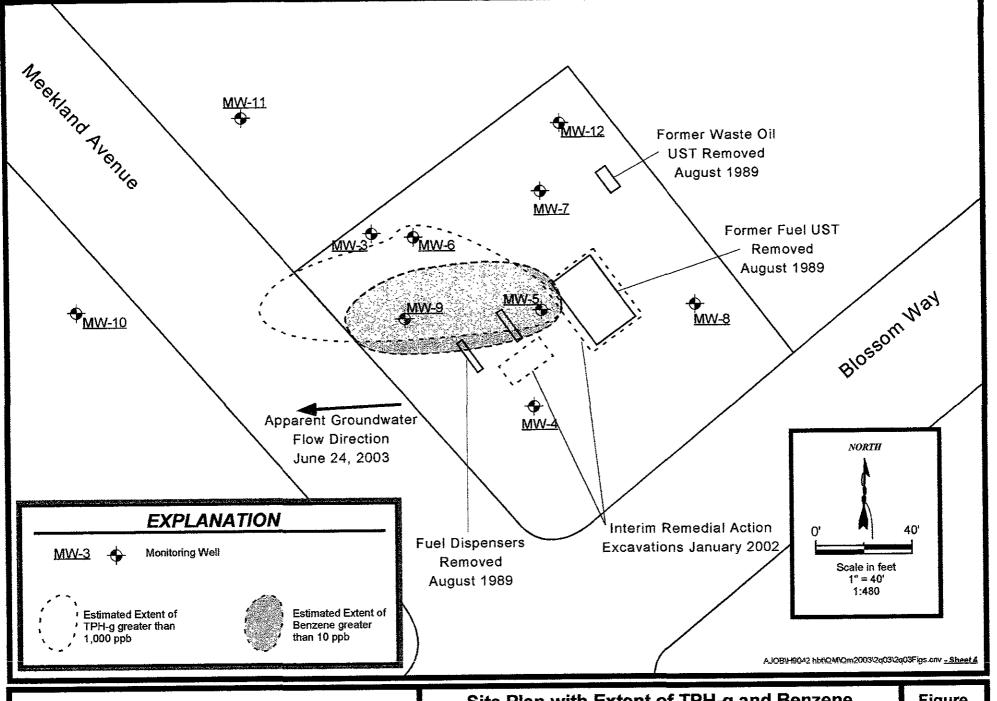




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June 24, 2003

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



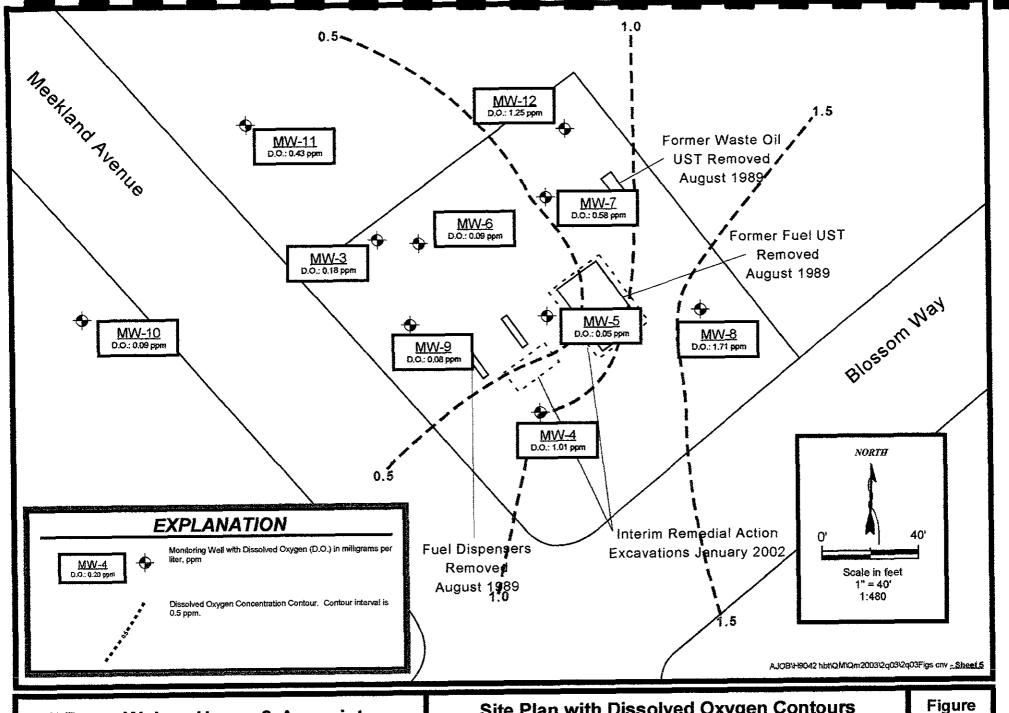


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(831) 722 - 3580 (831) 662 - 3100

Site Plan with Extent of TPH-g and Benzene in Groundwater, June 24, 2003

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California

Figure 4 Project H9042

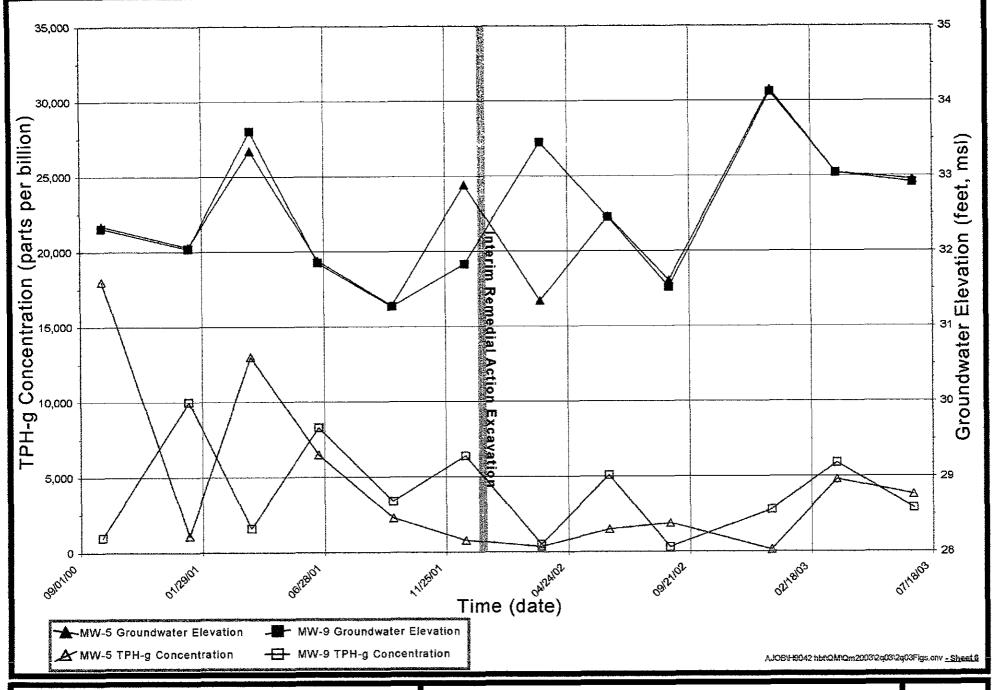




120 Westgate Drive, Watsonville, Ca. 95076 (831) 722 - 3580 (831) 662 - 3100

Site Plan with Dissolved Oxygen Contours June 24, 2003

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California Figure 5 Project H9042

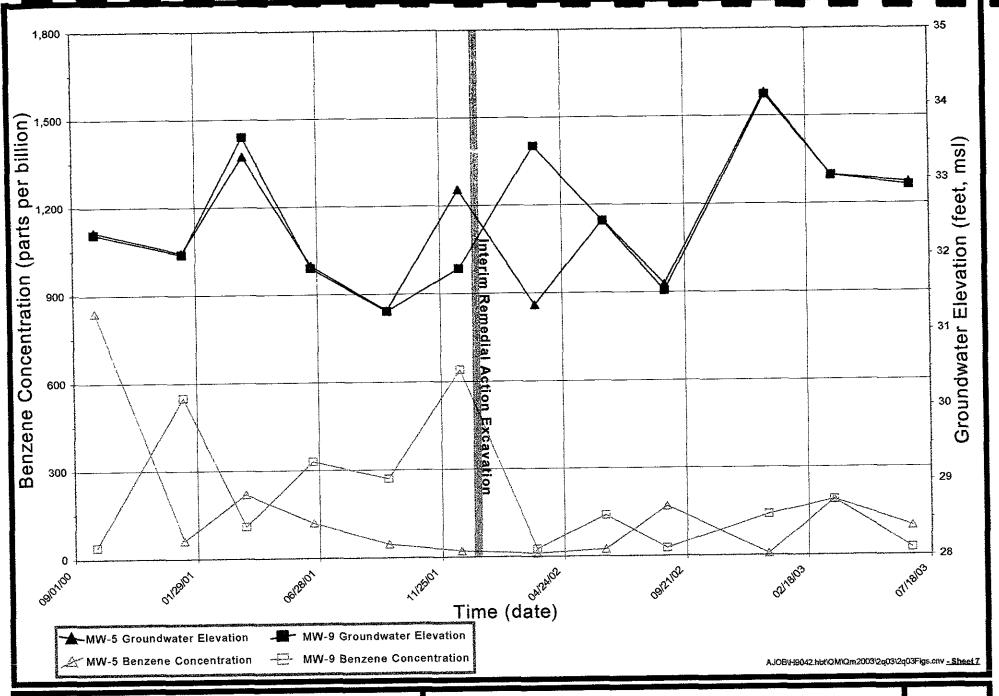




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TPH-g and Groundwater Elevation in MW-5 and MW-9 Through June 24, 2003

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

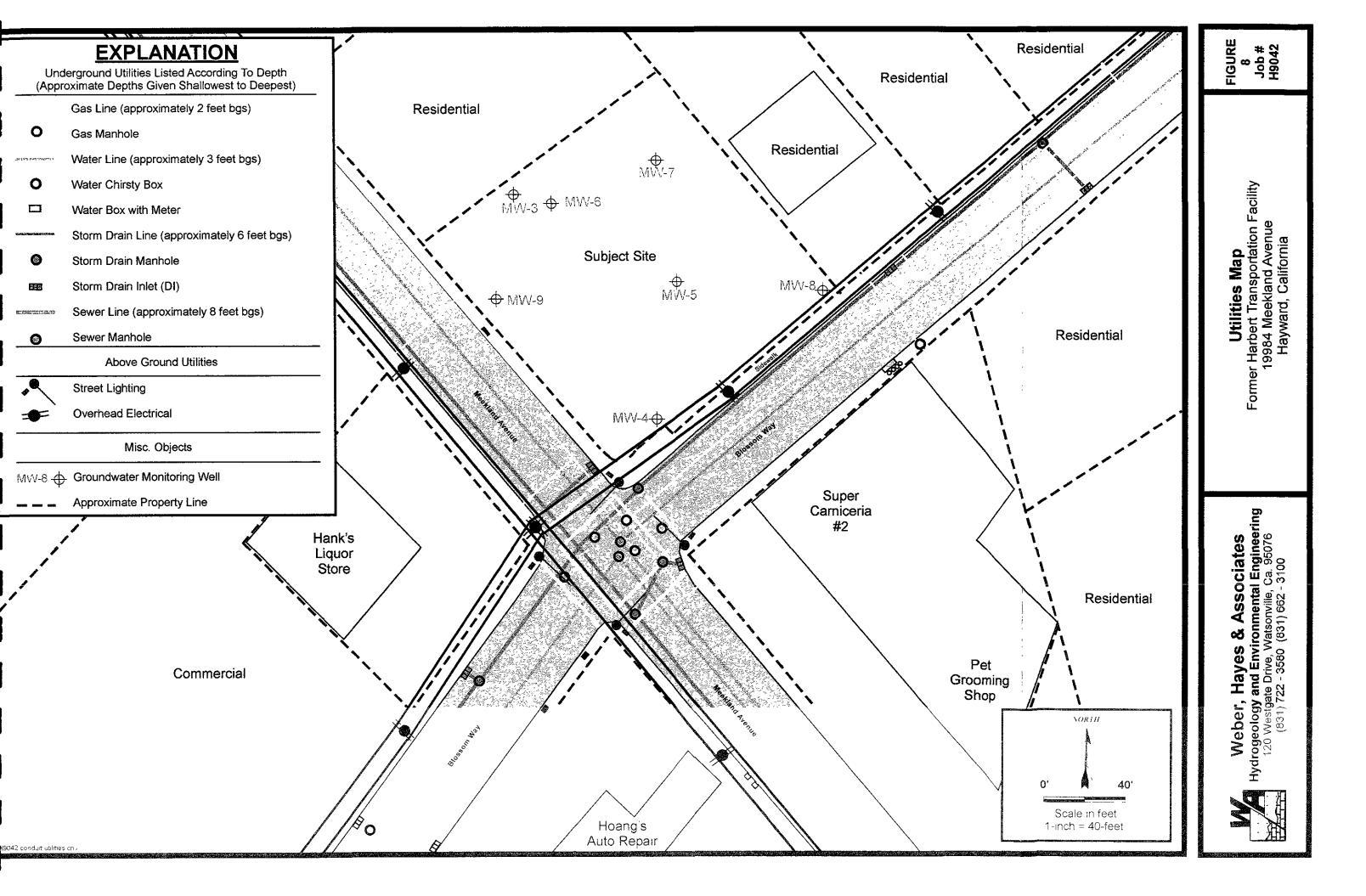


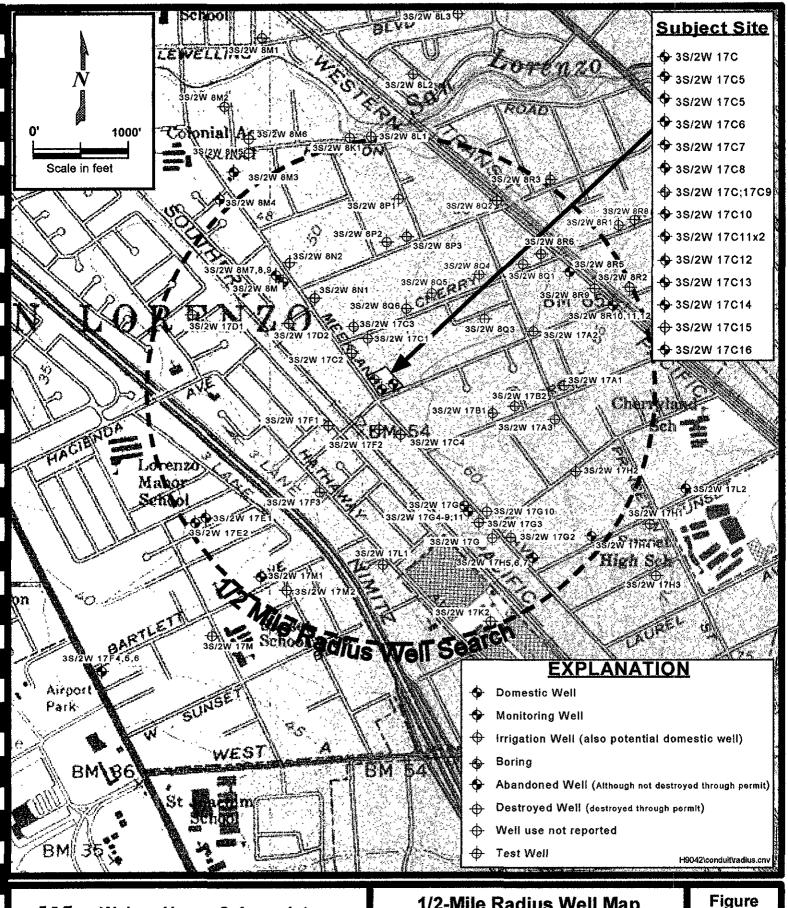


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Benzene and Groundwater Elevation in MW-5 and MW-9 Through June 24, 2003

Former Harbert Transportation Facility 19984 Meekland Avenue, Hayward, California Figure 7 Project H9042







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1/2-Mile Radius Well Map

Former Harbert Transportation Facility 19984 Meekland Avenue Hayward, California

9 Job# H9042 Fuel Leak Case Closure Request Groundwater Monitoring Report - Second Quarter 2003 19984 Meekland Avenue, Hayward, California August 22, 2003

Appendix A

Field Methodologies for Groundwater Monitoring and Field Data Forms Fuel Leak Case Closure Request Groundwater Monitoring Report - Second Quarter 2003 19984 Meekland Avenue, Hayward, California August 22, 2003

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

| INDICATE ATTAC | HMENTS THAT APPLY |
|----------------|-------------------|
| | Data Sheets |
| · | COC's |
| ч | Site Map |
| | Photo Sheet |

Chargeable Materials

| Job Name: Harbert Transportation | Date: June 24, 2003 | | | |
|--|-------------------------|--|--|--|
| Field Location: 19984 Meekland Avenue, Hayward | Study #: H9042.Q | | | |
| Field Tasks: Drilling Sampling Tother 2 nd Quarter 2003 Well Sampling. | Weather Conditions: | | | |
| Personnel/Company onsite: (Weber, Hayes and Associates | | | | |

FIELD WORK PLANNING: Performed on: June 23, 2003

Meet with project manager: X yes, or no.

Number of wells to be sampled: Six Wells, with D.O. in all wells Sample wells: MW-3, 5, 6, 9, and 10 for TPH-g, BTEX, MTBE.

Proposed sampling date: June 24, 2003

TIME: 0645

Arrive onsite to perform Quarter Monitoring Well Sampling.

COMMENTS:

Send all analytical to Entech Analytical Laboratory.

INITIALS:

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

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

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

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

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

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

BEGIN CALIBRATION:

QED MP20 Flow Through Cell: Temp = 11.44 c pH = 7ω & ωω, EC = 1.41 s Barometric Pressure = 760

D.O. % Saturation = 100 f., ORP = ΔΔΑ

BEGIN SAMPLING ALL WELLS:

MLJ-3 MU10 MUY MD-5 MAP9

-See information below for general monitoring well information this sampling round.

<u>COMMENTS:</u>

All well will be purged until the QED MP20 unit indicates that the water quality parameters (pH, Conductivity, Temp, D.O., and ORP) have stabilized to within ~ 15 % or once four casing volumes in the column requiring sampling have been removed(see Water Quality Sampling Field Forms for details). Wells will be purged from bottom-up and will follow standard operating procedures by WHA. Wells will be sampled using a bladder pump, or disposable bailer.

Signature of Field Personnel & Date

E:\AJOB\H9042.hbt\QM\QM2003\2q03\QM:FIELD.WPD



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| Location | GW Depth (TOC) | Total Depth of Well | D.O. (mg/L) | ORP (mV) | Floating Product (comments). |
|--------------|----------------|---------------------|-------------|--|------------------------------|
| MW.3 | 12, 55' | 40, | 0.18 | .2 | NoFP, NoOdor |
| MU-4 | 2.2.74 | 40. | 1.01 | 2.2 | No FP, No Odu |
| MW·S | 23.08 | 46. | 0.03 | -67 | No FP, Mid Odor |
| Mrs. P | 23.06 | 45. | 0.09 | -23 | No FP, Very Stylt Odor. |
| MW·7 | 2 3.62 | 4D' | 0.5% | 31 | NOFP, No Oda |
| MW.8 | 23.03. | 40. | 1.71 | 12 | No FP, No Odor |
| MW-9 | 22.30. | 40. | 80.0 | -66 | NoFP, Mod Odon |
| <u>NW·10</u> | 22.12. | 40. | 0.09 | -22 | NoFP, Very Stylodor |
| <u>MO·11</u> | 22.57 | 40. | 0.43 | 2) | Noff, NoOde |
| MO.15 | 23.41 | 40. | 1.29 | 29 | Noff, Nooder |
| | | | | | |
| 4 | | | | | |
| (6/24/02 | | | | ······································ | |
| | | | | | |

HOW MANY PURGE DRUMS WERE LEFT ONSITE 7. APPROXIMATE GAL. 350. CALL BAYSHDE OIL ON 1/25/03 TO HAVE DRUMS PURGED.

DRUMS WILL BE PURGED ON ??

COMMENTS:

E:\AJOB\H9042.hbt\QM\QM2003\2q03\QMFIELD,WPD

| Project N | ame/No.: | Harbert Tn | no portation. | /49042 | - φ | | Date: 6/24/05 | |
|---|-------------------------|----------------------|------------------------------|----------------|---------------------------------------|-----------------|---|--------------------------|
| | o.: Mw. | | ì | | | , | Sample Location: M∿-3 | |
| Samplers | Name: C | hadTaylor | , | | | | Recorded by: | |
| Purge Eq | ipment: | | | | | | Sample Equipment: | |
| | | sposable or Ac | rylic , | , | | | XDisposable Bailer | |
| <u> </u> | Whaler#_ | | | | | | Whaler # | |
| | Bladder Pr Submersit | | د 1 | | | | Bladder Pump Submersible Pump | |
| Analyses | • | ו (cricle all tha | t apply): | | | | Number and Types of Bo | ftle Lised: |
| | | 2-DCA, EDB, 826 | | e s | | | 2x40~7/1/14/2 | ino occu. |
| TPH-diesel, | PH-Motor Oil | TPH-Heating Oil | • | | | | | |
| I ntrinsic Bio. | | | | | | | | |
| Well Num | ber: | MW.3 | | | | W | Vell Diameter: <u>د ّ with Casing V</u> | olume of: |
| Depth to \ | Vater: | 22.53 | TOC | | | | 2" = (0.16 Ge) | |
| Well Dept | h: | 40. | BGS or TOC | | | | 4" = (0.65 Ga) | allon/Feet) |
| Height W- | Column: | 17.47' | feet (well de | oth - depth | to water) | | 5" = (1.02 Ga | allon/Feet) |
| Volume in | Weil: | 2.7952 | gallons (casi | ng volume | X height) | | 6" = (1.47 Ga | |
| Gallons to | purge: | 17.18 | gallons (volu | me X 4) | | | 8" = (2.61 Ga | allon/Feet) |
| Lab: | Ented | | | | | Transpor | tation: Courser | |
| -T : | Volume | Tanana | Canada at it | D.O. | | 000 | | Moss |
| Time (24 hr.) | Purged | (°C) | Conductivity (ms/cm) | | pН | ORP (mV) | Turbidity: Color, Fines | Micropurge Paramaters |
| (24 111.) | (Gallons) | (0) | (ms/cm) | (ppm) | | (1117) | | Stabilized |
| 0910 | 0 | 18.37 | 0-726 | 2.74 | 7.15 | 94 | Moderate Gray, Mod Firs Low: Clear-Gry, Mustus Low: Clear, Treca Firs | |
| ा ४० | 1 | 18.69 | 0.731 | 1.97 | 7.16 | 3.3 | Lows Clear-Gry, Mustus | |
| 0811 | 2 | 18-72 | 0.732 | 1.29 | 7.17 | 26 | Low: Clery Treating | |
| 0812 | 3 | 18.77 | 0.733 | 0.51 | 7.25 | 17 | | |
| 0817 | 4 | 18.77 | 0.737 | 0.47 | 7.21 | 13 | | |
| 0812 | 5 | 18-79 | 0.735 | ૭ .५५ | 7.20 | 7 | | |
| 0812 | 7 | 18.82 | 0.754 | 0.32 | 7.16 | 2_ | | |
| 0817 | 10 | 18.85 | ० न्य | 0.21 | 7.13 | -1 | | |
| 8180 | 12 | 18.85 | 0.732 | 0.18 | 7.13 | -2. | | |
| Pa-11-11-11-11-11-11-11-11-11-11-11-11-11 | | | ait for 80% was depth to wat | | - | • | ampling. lume recovery: | |
| | | | Ca | culate 80% o | f orginal well | volume: | 11 20 | |
| | Origina | i Height of yvater (| olumn = <u>11/-</u> 3 | 1 X U.8 = | 13 170 | - (vveii Depth) |) <u>40·</u> = Depth to water <u>1 6.01</u> ° | |
| Time: <u>4821</u> | | depth to water, _ | | below TOC. | | is well within | 80% of original well casing volume: Yes _ | No |
| Time: \ | 1st measured | l depth to water, _ | feet | below TOC. | | | 80% of original well casing volume: Yes | <u> </u> |
| Time: W | 1st measured | l depth to water, _ | feet feet | below TOC. | | is well within | 80% of original well casing volume: Yes _ | |
| | | | | Sam | nple Well | | | |
| Time: | OSez 1 | | Sample ID: | Mد | \·3 | | Depth: 23·41′ feet be | elow TOC |
| Time. | | | • | | <u> </u> | | Dopuit. — 17 leet bi | 310W 100 |
| Comments | : Nof | losty Product. | NoOdo | <i>w</i> | | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | | |

| Project Na | ame/No.: | Harbert Trav | uzportation | 149042 | 4 | | Date: 6/24/05 | | | |
|------------------------|--|---|----------------|-------------------------------------|-------------|---------------------------------------|--|--|--|--|
| Sample N | | | | · | | | Sample Location: Mพาเบ | | | |
| | Name: 🔘 | nadTyln | | | | | Recorded by: CT | | | |
| Purge Equ | Bailer: Di | <i>J</i> sposable or Ac | rylic | | | | Sample Equipment: y Disposable Bailer | | | |
| X | Whaler# Bladder P | | | | | | Whaler # Bladder Pump | | | |
| | Submersit | | | | | | Submersible Pump | | | |
| Analyses | | i (cricle all tha | t apply): | | | | Number and Types of Bottle Use | | | |
| | | 2 DCA, EDB, 826 | | es | | | 3 440-LWA'S | | | |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | , TPH-Heating Oil | • | | | , | | | | |
| Intrinsic Bio. | ····· | • | | | | | | | | |
| Well Numi | ber: | MW-10 | • | | | V | Veil Diameter: <u>৭</u> * with Casing Volume o | | | |
| Depth to V | Vater: | 2.2.12 | TOC | | | | 2" = (0.16 Gallon/Fee | | | |
| Well Depti | h: | 40. | BGS or TOC | | | | (4" = (0.65 Gallon/Fee | | | |
| Height W- | Column: | 17.88 | feet (well der | oth - depth | to water) | | 5" = (1.02 Gallon/Fee | | | |
| Volume in | Well: | 11.622 | gallons (casi | ng volume | X height) | | 6" <i>≃</i> (1.47 Gallon/Fee | | | |
| Gallons to | purge: | 46.49 | gallons (volu | me X 4) | | | 8" = (2.61 Gallon/Fee | | | |
| Lab: | ntech | | | | | Transpor | tation: Courser | | | |
| | Volume | . | | | | | | | | |
| Time (24 hr.) | Purged | | Conductivity | ŀ | pН | ORP | Turbidity: Color, Fines Micropurg Paramatei | | | |
| (24 111.) | (Gallons) | (°C) | (ms/cm) | (ppm) | | (mV) | Stabilized | | | |
| 0845 | 0 | 1840 | 0.951 | 1.50 | 7.07 | 41 | Moderates Gray, Modfins | | | |
| ०४५६ | 2_ | 18-57 | 0.912 | 0.77 | 7.01 | 12. | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | |
| F1290 | 4 | 18.75 | 058.0 | 0.47 | 7.04 | -1 | Lou; Cleur- 6m, Munfins | | | |
| 0848 | 6 | 18.81 | 5.867 | 0.33 | 7.02 | -2-1 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | |
| 0849 | 8 | 1 8.82. | 0.866 | 0.28 | 7.01 | -2.4 | Low: Clear, Trackis | | | |
| 0821 | 10 | 18.85 | 0.863 | 6.25 | 7.01 | -7.S | | | | |
| 0857 | 20 | 18.88 | 0.862 | 6.23 | 7.05 | -22. | | | | |
| 0910 | 40 | 1 8.88 | 0.36.5 | 0.09 | 7.08 | -22 | | | | |
| 0911 | 42 | 18.88 | 0.865 | 0.09 | 7.08 | -22 | | | | |
| | | | ait for 80% w | | | | a mpling. lume recovery: | | | |
| | | Calculate | | | | | lume recovery. | | | |
| . ~. | Origina | Height of Water C | | culate 80% o ' b' x 0.8 = | | |) 40' = Depth to water 25 to | | | |
| Time: A415 | 1et meggyren | l depth to water, | d'allas fari | halou TOO | | fo well within | 80% of original well casing volume: Yes No | | | |
| Time: | 1st measured | l depth to water, l depth to water, l depth to water, |) feet | below TOC. | | | 80% of original well casing volume: YesNo | | | |
| Time: \tag{\sqrt{\pi}} | 1st measured | depth to water, _ | \C\ feet | below TOC. | | | 80% of original well casing volume: Yes \(\sigma \overline{\sigma} | | | |
| | | | | | | | | | | |
| | | | · | Sam | nple Well | 1 | | | | |
| Time: | 0913 | | Sample ID: | М | ۵.10. | | Depth: מוניס feet below TO | | | |
| 0 | | | . 1 | 1 | | 1 | | | | |
| Comments: | No F | Touting Product | · Umy Sla | ht Odur. | | | | | | |
| | | - | , , | | | , , , , , , , , , , , , , , , , , , , | ···· | | | |

| _ | Project Na | ame/No.: | Harbert T | inusportation | 1 1490. | 12.Q | | Date: 6/24/03 | | |
|---|---------------------------|---|--|----------------|---------------------|---------------------------------------|---------------------------------------|--|--|--|
| _ | Sample N | <u>o.: M </u> | ·· b | | | | | Sample Location: M > 6 | | |
| | Samplers | Name:() | ract I ylor | | | | | Recorded by: | | |
| | Purge Eqi | | J | ' | | | | Sample Equipment: | | |
| _ | | _ | sposable or Ac | rylic | X Disposable Bailer | | | | | |
| - | X | _Whaler#_ | | | | | | Whaler # | | |
| - | | _Bladder Pi Submersit | • | <u>}</u> | | | | Bladder Pump Submersible Pump | | |
| - | Analyses | - | il (cricle all tha | f annly): | | | | Number and Types of Bottle Used | | |
| | | | 2 DCA FDB 826 | | 9 S | | | Srua-Lway's | | |
| | | | , TPH-Heating Oil | | | | | | | |
| 1 | n trinsic Bio. | Parameters | - | | | | | | | |
| 1 | Vell Numi | ber: | MW.6 | | | | ٧ | Vell Diameter: <u> </u> with Casing Volume of | | |
| | Depth to V | Vater: | 23.06 | TOC | | | | 2'' = (0.16 Gallon/Fee) | | |
| 1 | Nell Depti | h: | 415' | BGS or TOC | | | | 4" = (0.65 Gallon/Fee | | |
| 1 | Height W- | Column: | 21.94. | feet (well dep | th - depth | to water) | | 5" = (1.02 Gallon/Fee | | |
| | Volume in | | 14.261 | gallons (casir | • | • | | 6" = (1.47 Gallon/Fee | | |
| | Gallons to | | 5 7.04 | gallons (volu | - | - 3/ | | 8" = (2.61 Gallon/Fee | | |
| | _ab: | - | | | | | Transpor | • | | |
| | <u> </u> | ام ا د دلم | | | | | Transpor | Courter . | | |
| Γ | <u></u> | Volume | - | 0 | 5.0 | | ODD | Maranaga | | |
| 1 | Time | Purged | • | Conductivity | D.O. | рН | ORP | Turbidity: Color, Fines Micropurge Paramaters | | |
| L | (24 hr.) | (Gallons) | (°C) | (ms/cm) | (ppm) | | (mV) | Stabilized | | |
| | 0954 | 0 | 14.10 | 6-702 | 3.93 | 7.04 | 70 | Hyli: Dark Gry, Many Firs | | |
| L | 0186 | 2 | 18.70 | 0.702 | 6.14 | 7.01 | 23 | Low Clear-Gry, Minfine | | |
| | 0157 | 9 | 18.79 | 0.702 | ٥.45 | 7.02 | 48 | Hyh: Dark Gry, Many Fins Loui Clear-Gry, Mintims Loui Clear, Trice Fins | | |
| | 8380 | ı | 18.90 | 0.701 | <u>ه</u> و ، ه | 7.02 | 61 | | | |
| | 1001 | 16 | 18.98 | 0.700 | 0.21 | 7.02 | 73 | | | |
| | 1008 | 20 | 19.03 | 0.652 | ୦୫. ଓ | 7.01 | 12 | | | |
| | 1जप | 30 | 19.04 | 0.710 | 0.16 | 6.85 | -17 | | | |
| | 1011 | 36 | 19.04 | 6.717 | 0.09 | 6.83 | -23 | | | |
| L | STOP- | Pannet | era Stubulika | d. Pune Co | molete. | , | | | | |
| | | | | ait for 80% w | | • | • | . • | | |
| _ | <u></u> | | Calculat | | | | · · · · · · · · · · · · · · · · · · · | lume recovery: | | |
| | | |) | Cale | culate 80% o | f orginal well | volume: | 145° - D-44 1 | | |
| | | Origina | il Height of vvater t | Joiumn = | 1 X U.8 = | 11.000 | - (well Depth |) <u>45'</u> = Depth to water <u>23.4</u> 5' | | |
| | | | | • | | | | _ | | |
| | | | d depth to water, _ d depth to water, _ | | below TOC. | | | 80% of original well casing volume: Yes No | | |
| | | | d depth to water, _ | | below TOC. | | | 80% of original well casing volume: Yes Wo | | |
| | | | | | | | | The state of the s | | |
| | | | | · | Sam | ple Well | | | | |
| - | <u></u> | | | | | | | | | |
| | Time: | 1501 | | Sample ID: | M | ٥. (| | Depth: 24.02 feet below TOO | | |
| , | Commonto | , M.a. | t. 211 | Ven Slaht O | ما | | | | | |
| _ | Comments | : NoFlo | ating Product. | ven sight O | uer_ | · · · · · · · · · · · · · · · · · · · | | | | |
| - | | | | | | | | | | |

| | | Harbert Tr | ausportation | H4042. | ર | | Date: ໒ | | | | |
|---|--------------|--|------------------------|--------------------------|----------------|--------------------------------------|---|---------------------------------------|---------------------------------------|--------------|--------------------------|
| Sample N | 0.: Mw | ·· <u>5</u> | <u> </u> | | | Sample Location: Muss | | | | | |
| Samplers | Name: C | badTaylor | | | | | Recorde | d by: C | T | | |
| Purge Equ | • | 1 | | | | | Sample | Equipme | ent: | | |
| | | sposable or Ac | rylic | | | | X | | osable Ba | | |
| <u> </u> | Whaler# | | | | | | | | aler # | | |
| | Bladder P | | | | | | | | lder Pump | | |
| Analyses | Submersil | pie Pump d (cricle ail th a | t annhul | | | • | | | mersible F | | 41- 31I. |
| | | , 2 DCA, EDB, 826 | | <u> </u> | | | ivu | | d Types | ווסם זכ | ne Usea: |
| | | I, TPH-Heating Oil | | - | | -, | | 3170 | | | |
| Intrinsic Bio. | | | | | | | · · · · · · · · · · · · · · · · · · · | | | Ţ | |
| Well Numl | ber: | Mus | | | | V | Vell Diame | eter: <u>५:</u> | with Cas | ing Vo | lume of: |
| Depth to V | Vater: | 23.08 | TOC | | | | | 2" = (0. | 16 Ga | llon/Feet) | |
| Well Depti | h: | 45' | BGS or TOC | | | | | | _ | | llon/Feet) |
| Height W- | Column: | 21.92. | - feet (well der | oth - depth | to water) | 4 | | | | | llon/Feet) |
| Volume in | Weil: | 14.248 | gallons (casi | • | • | , | | | • | | llon/Feet) |
| Gallons to | purae: | 56.91 | gallons (volu | • | | , | | | • | | llon/Feet) |
| | ntech | <u> </u> | _9 (1-11 | | | Transpor | tation: | Course | • | 0, 00. | 101111 0017 |
| HON! | MICEN | | | Ī | | Transpor | tation. | COUPIE | Υ | | |
| 7*! | Volume | Т | 0 | 5.0 | | 0.00 | | | | | |
| Time (24 hr.) | Purged | , , | Conductivity (ms/cm) | D.O. (ppm) | pН | ORP | Tur | bidity: Co | olor, Fines | i | Micropurge Paramaters |
| (24111.) | (Galions) | (°C) | | (mV) | | _ | | | Stabilized | | |
| 1042 | ٥ | 18,75 | 0.574 | 0.69 | 6.82 | -19 | Hyb D | ark Gry, | ManyFi | ٠, | |
| 1043 | ٦ | 18.73 | 155.0 | 0.37 | 6.82 | -11 | High: Dark Gry, Many Flus Moderate: Gray, Mod Flus | | | | |
| 1045 | 4 | 18.86 | 0.566 | 0.15 | 6.82 | -15 | | | 1 | | |
| 1046 | 6 | 18.94 | 0.548 | 0.10 | 6.82 | -51 | V | | Ų, | , | |
| 1049 | 10 | 18.98 | ०.५८५ | 0.07 | c, 80 | - 87 | ادسويا | Clear | -6my 1M | mF1-5 | |
| 1056 | 20 | 18,97 | 0.476 | 0.79 | 48.3 | -71 | 1 | | 7. | | |
| 1105 | 30 | 18.90 | 0.510 | Ø.08 | 6.84 | -65 | | | · · · · · · · · · · · · · · · · · · · | | |
| 1110 | 38 | 18.86 | 6.550 | 0.0.5 | 6.84 | -67 | V | V | | P | |
| 570P- 7 | umneters | Shbilized. P | une Complet | د. | | ! | | | | | |
| | <u> </u> | W | ait for 80% w | ell volum | | | | | · · · · · · · · · · · · · · · · · · · | | |
| | | Calculat | e depth to wat | er (from T | OC), for 80 | 0% well vol | ume recov | /ery: | | | |
| | | | | | f orginal well | | | | _ | | |
| | Origina | l Height of Water (| Column = <u>1.1.91</u> | L x 0.8 = | 17.534 | - (Well Depth) | <u>45'</u> = De | epth to wat | er <u>~7.41</u> | | |
| | | | | | | | | | | | |
| | | depth to water, | | below TOC. | | ls well within | | | | | |
| Time: | 1st measured | d depth to water, _ d depth to water, _ | teet feet | below TOC. below TOC. | | is well within : Is well within : | _ | | - | | V _{No} — |
| 1 | 70t mousures | doptil to water, _ | 1001 | below 100. | ' | ie weii witiiii | ou /a or ongi | iai weli cas | ing volume. | 103 | |
| | | | | Sam | ple Well | , | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | Odii | ipie vven | | | · · · · · · · · · · · · · · · · · · · | | | |
| Time: | 1117 | | Sample ID: | | W. 5 | | Dep | oth: | 1.09' f | eet be | low TOC |
| Comments: | NoFL | at Rulat. | Moderate Od | .or | | | | | | | |
| -c.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1-011 |),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 7 . | | | | | | | |
| | | ······ | | | | , | <u> </u> | | | | |

| | 0.: Mw ^{.a} | | | | | | Sample Location: ಗ್ಲ- 9 | |
|------------|---------------------------------------|------------------------------------|---|--------------|-----------|------------------|--|------------------------|
| Samplers | Name: C | GradTylor | | | | | Recorded by: | |
| Purge Equ | | 1 | | | | | Sample Equipment: | |
| | • | sposable or Ac | ylic | | | | XDisposable Bailer | |
| <u>X</u> | Whaler # | | | | | | Whaler # | |
| | Bladder Po Submersib | • | , | | | | Bladder Pump Submersible Pump | |
| Analyses | | l (cricle all tha | t apply): | | | | Number and Types of Bo | |
| PH-gas BT | ех (Мтве) 1, | 2-DCA, EDB, 826 | | es | | | 3×40~1/07/3 | |
| | | , TPH-Heating Oil | | | | | | |
| | Parametere- | | <u>, , , , , , , , , , , , , , , , , , , </u> | | | | | |
| Veil Numl | | P. W.M. | | | | N | Vell Diameter: <u> 4</u> ~with Casing V | olume o |
| Depth to V | Vater: | 22.30 | TOC | | | | 2" = (0.16 G) | allon/Fee |
| Nell Depti | ղ: | 40. | BGS or TOC | | | | 4" = (0.65 G) | allon/Fee |
| leight W- | Column: | 17.70' | feet (well der | oth - depth | to water) | | 5" = (1.02 G | allon/Fee |
| /olume in | Well: | 11.505 | gallons (casi | ng volume | X height) | | 6" = (1.47 G | allon/Fee |
| Sallons to | purge: | 46.02 | gallons (volu | me X 4) | | | 8" = (2.61 G | allon/Fee |
| .ab: g | ntech | | | | | Transpor | tation: Courses | |
| | Makiman | | | | 1 | | | |
| Time | Volume Purged | Temperature | • | | pH | ORP | Turbidity: Color, Fines | Micropurg Paramater |
| (24 hr.) | (Gallons) | (°C) | (ms/cm) | (ppm) | P'' | (mV) | Turblatty. Color, Tines | Stabilized |
| 113/ | | 2.10 | 6 Cil 1 | 750 | 1 30 | -9 | Malatic Mile | |
| 1136 | <u>ು</u> | 20.62 | 0.541 | 3.50 | 6.74 | 1 | Moderte: Gray, Modfins Lowi Clear, Trustins | |
| 1137 | 2 | 19.18 | 0.518 | 0.26 | 6.91 | -77 | Low Clear, Theating | |
| 121 | 4 | 11.28 | 0.676 | 6.14 | 6.96 | -62 | | |
| IHO | 6 | 11.24 | 0.586 | 0.10 | 6.98 | -59 | | ļ <u> </u> |
| 114.2 | 10 | 19.32 | 0.584 | 0.09 | 6.99 | -59 | | |
| 1150 | 20 | 19.34 | 6.881 | 0.22 | 6.96 | - 64 | | ļ |
| 1157 | 80 | 19.33 | 0.602 | 0.10 | 6.92 | -66 | | |
| 1201 | 4036 | 19.34 | 0.603 | 90.0 | 6.89 | -66 | 1 4 4 | - |
| STDP- | Parme | | zed. Tuze | | | | | |
| | | | ait for 80% w | | | | | |
| | · · · · · · · · · · · · · · · · · · · | Calculate | | | | | ume recovery: | · |
| ~ | Origina | Height of Mater C | | culate 80% o | | | 40' = Depth to water 2584' | |
| | Ongina | THOUGHT OF YYARD! C | Manin = | × U.O = | 1 1110 | - (AACII DEDIII) | Deptit to water 2359 | |
| ima: 12.43 | 1et maneurod | depth to water, | 73.47 fant | helow TOC | | le well within | 80% of original well casing volume: Yes _ | <u>س</u> ۱۱۵ |
| ime: 1283 | 1st measured | depth to water, | feet | below TOC. | | | 80% of original well casing volume: Yes _ 80% of original well casing volume: Yes _ | |
| ime: TO | 1st measured | depth to water, depth to water, | \⊈fe∈t | below TOC. | | | 80% of original well casing volume: Yes | |
| | | | | | | | | |
| | | · | | Sam | ple Well | | · · · · · · · · · · · · · · · · · · · | |
| Time: | C051 | | Sample ID: | ^ | 10.9 | | Depth: 23.42 feet b | elow TO |
| comments: | | only Roduit. | ا ممالم | | | | | |
| | | | | | | | | |



Weber, Hayes & Associates

Hydrogeology and Environmental Engineering

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

Letter Transmittal

to:

from:

re:

Mr. Jerry Harbert
46765 Mountain Cove Drive
Indian Wells, California 92210
Craig Drizin
Harbert Transportation, 19984 Meekland Avenue, Hayward California

date:

August 29, 2003

| Number of Copies | Date of Documents | Description |
|------------------|-------------------|----------------------------------|
| 1 | August 29, 2003 | Fuel Leak Case Closure Report |

Mr. Scott Seery c:

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

Fuel Leak Case Closure Request Groundwater Monitoring Report - Second Quarter 2003 19984 Meekland Avenue, Hayward, California August 22, 2003

Appendix B

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

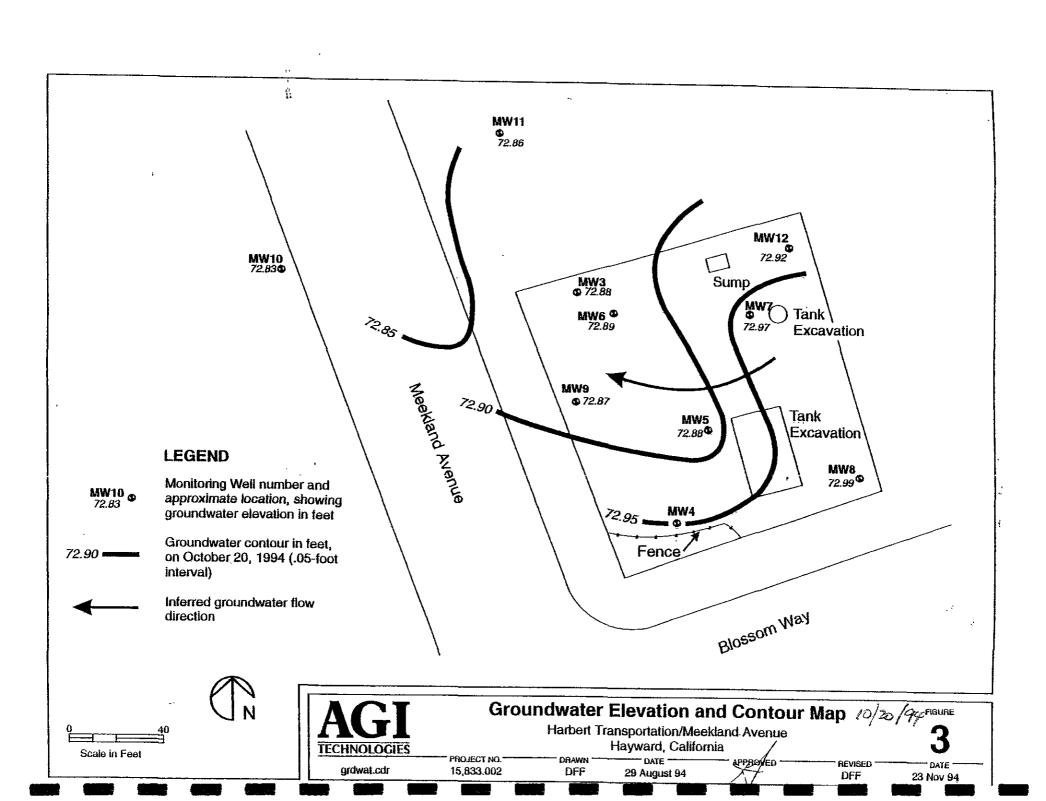


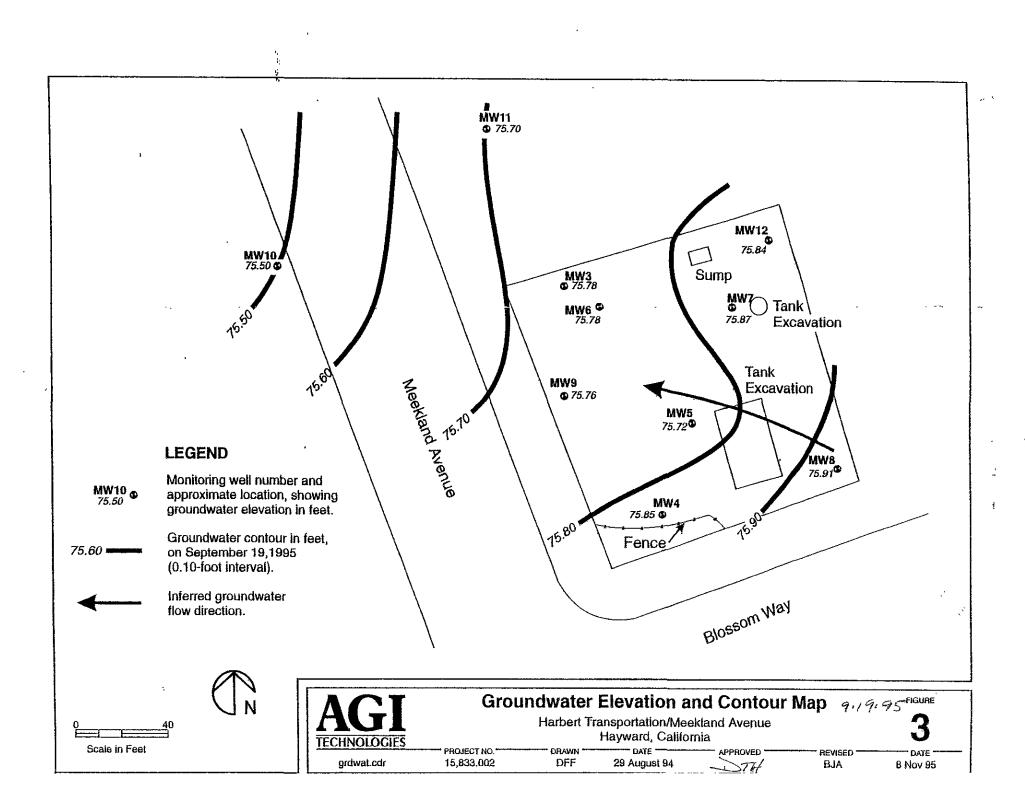
Table 1
Groundwater Elevation Data
Harbert Transportation/Meekland Avenue
Hayward, California

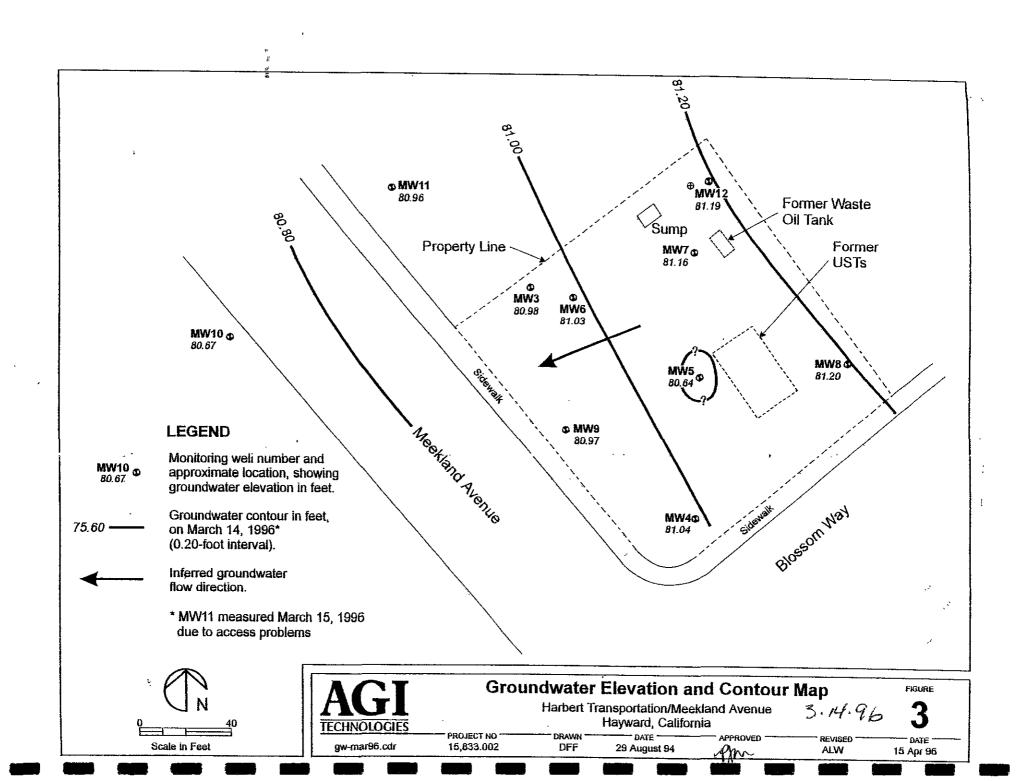
| | | Top of Casing | Depth to | Groundwater |
|--------|----------|---------------|-------------|-------------|
| Well | Date | Elevation | Groundwater | Elevation |
| Number | Sampled | (feet) | (ft bgs) | (feet) |
| MW3 | 10/20/94 | 100.00 | 27.12 | 72.88 |
| | 09/15/95 | · | 24.22 | 75.78 |
| İ | 03/14/96 | | 19.02 | 80.98 |
| | 09/26/96 | | 23.61 | 76.39 |
| MW4 | 10/20/94 | 100.27 | 27.32 | 72.95 |
| | 09/15/95 | | 24.42 | 75.85 |
| 1 | 03/14/96 | | 19.23 | 81.04 |
| - | 09/26/96 | | 23.85 | 76.42 |
| MW5 | 10/20/94 | 100.59 | 27.71 | 72.88 |
| 1 | 09/15/95 | | 24.87 | 75.72 |
| | 03/14/96 | | 19.95 | 80.64 |
| | 09/26/96 | | 24.38 | 76:21 |
| MW6 | 10/20/94 | 100.57 | 27.68 | 72.89 |
| | 09/15/95 | | 24.79 | 75.78 |
| | 03/14/96 | | 19.54 | 81.03 |
| Ì | 09/26/96 | • | 24.20 | 76.37 |
| MW7 | 10/20/94 | 101.22 | 28.25 | 72.97 |
| 1 | 09/15/95 | | 25.35 | 75.87 |
| | 03/14/96 | | 20.06 | 81.16 |
| | 09/26/96 | | 24.75 | 76.47 |
| MW8 | 10/20/94 | 100.72 | 27.73 | 72.99 |
| - | 09/15/95 | | 24.81 | 75.91 |
| | 03/14/96 | ļ | 19.52 | 81.20 |
| | 09/26/96 | | 24,13 | 76.59 |
| MW9 | 10/20/94 | 99.77 | 26.90 | 72.87 |
| • | 09/15/95 | | 24.01 | 75.76 |
| | 03/14/96 | | 18.80 | 80.97 |
| | 09/26/96 | ĺ | 23,50 | 76.27 |
| MW10 | 10/20/94 | 99.29 | 26.46 | 72.83 |
| | 09/15/95 | | 23.79 | 75.50 |
| | 03/14/96 | | 18.62 | 80.67 |
| | 09/26/96 | | 23.30 | 75.99 |
| MW11 | 10/20/94 | 99.75 | 26.89 | 72.86 |
| | 09/15/95 | · | 24.05 | 75.70 |
| | 03/15/96 | į | 18.79 | 80.96 |
| | 09/26/96 | | 23,53 | 76.22 |
| MW12 | 10/20/94 | 101.03 | 28.11 | 72.92 |
| | 09/15/95 | ľ | 25.19 | 75.84 |
| | 03/14/96 | | 19.84 | 81.19 |
| | 09/26/96 | | 24.57 | 76.46 |

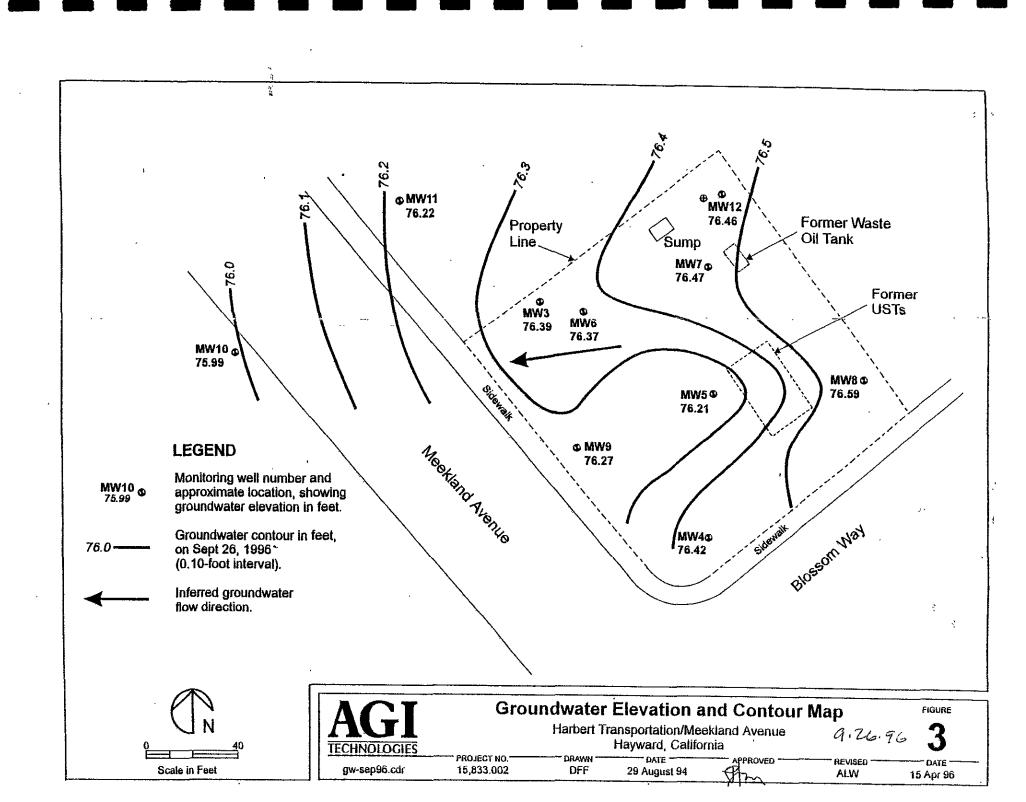
Note:

ft bgs - Feet below ground surface.









Fuel Leak Case Closure Request Groundwater Monitoring Report - Second Quarter 2003 19984 Meekland Avenue, Hayward, California August 22, 2003

Appendix C

Certified Analytical Report - Groundwater Samples

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

July 02, 2003

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

Order: 34905

Harbert Transportation

Project Name: Harbert Transportation

Project Number: H9042.Q

Project Notes:

Transportation Date Received: 6/25/2003
Q P.O. Number: H9042.Q

On June 25, 2003, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Test</u>

Liquid

Gas/BTEX/MTBE

<u>Method</u>

EPA 8015 MOD. (Purgeable)

6/24/2003

EPA 8020

Date Collected:

MTBE by EPA 8260B

Dombeles &

EPA 8260B

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

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

Sincerely,

Patti Sandrock QA/QC Manager

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

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Chad Taylor

Date: 07/02/03

Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Sampled By: Client

Certified Analytical Report

| Order ID: 3490 | 5 | Lab Sample ID: 34905-001 | | | | | Client Sample ID: MW-3 | | | |
|-----------------------|--------|--------------------------|--------|-----------|-----------|---------------|------------------------|--------------------|--------------------|------------------------------|
| Sample Time: 8:21 | AM | Sam | ple Da | te: 6/24/ | 2003 | | , 1 | Matrix: Liq | uid | |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| Benzene | ND | | 1 | 0.5 | 0.5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Toluene | ND | | 1 | 0.5 | 0.5 | μ g /L | . N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Ethyl Benzene | 5.6 | | ŧ | 0.5 | 0.5 | μ g /L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Xylenes, Total | 2.8 | | 1 | 1 | 1 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| | | | | Surrogate | | | Surre | gate Recovery | Control Limits (%) | |
| | | | | 4-Bi | omofluoro | benzene | | 87.8 | 6: | 5 - 135 |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| TPH as Gasoline | 260 | | 1 | 50 | 50 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8015 MOD. (Purgeable) |
| | | | | | Surroga | te | Surro | gate Recovery | Contr | ol Limits (%) |
| | | | | 4-Br | omofluoro | benzene | | 120.4 | 65 | 5 - 135 |

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandrock, QA/QC Manager

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

Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076

Watsonville, CA 95076
Attn: Chad Taylor

Date: 07/02/03 Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Sampled By: Client

Certified Analytical Report

| Order ID: 349 | 905 | Lab Sa | mple I | D: 3490 | 5-002 | | Client Sam | ple ID: MV | V-5 | |
|------------------|------------------------|--------|-----------|----------------|------------|---------|-----------------------|------------------|-------------|------------------------------|
| Sample Time: 11: | Sample Date: 6/24/2003 | | | | | | | | | |
| Parameter | Result | Flag | DF | PQL | ÐLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| Benzene | 100 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Toluene | 58 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Ethyl Benzene | 310 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Xylenes, Total | 670 | | 10 | 1 | 10 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| | | | Surrogate | | | ite | te Surrogate Recovery | | | ol Limits (%) |
| | | | | 4-B | romofluoro | benzene | | 77.0 | 65 | 5 - 135 |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| TPH as Gasoline | 3800 | | 10 | 50 | 500 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8015 MOD. (Purgeable) |
| | | | | | Surroga | ite | Surro | gate Recovery | Contr | ol Limits (%) |
| | | | | 4-B | omofluoro | benzene | | 82.0 | 65 | 5 - 135 |

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandrock, QA/QC Manager

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

Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076

Attn: Chad Taylor

Date: 07/02/03 Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Certified Analytical Report

| Order ID: 34 | 905 | Lab Sa | ample I | D: 3490 | 5-003 | | Client San | ple ID: MV | 7-6 | |
|-----------------|--------|--------|---------|----------------|------------|---------------|--------------------|------------------|-------------|------------------------------|
| Sample Time: 10 | :21 AM | Sam | ple Dat | te: 6/24/ | 2003 | | 1 | Matrix: Liq | uid | |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| Benzene | ND | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Toluene | ND | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Ethyl Benzene | 35 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Xylenes, Total | 15 | | 10 | 1 | 10 | μ g /L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| , | | | | | Surroga | ite | Surre | gate Recovery | Conti | rol Limits (%) |
| | | | | 4-Bı | romofluoro | benzene | | 78.2 | 6; | 5 - 135 |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| TPH as Gasoline | 1500 | | 10 | 50 | 500 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8015 MOD. (Purgeable) |
| | | | | | Surroga | ite | Surre | gate Recovery | Contr | ol Limits (%) |
| | | | | 4-Br | omofluoro | benzene | | 95.9 | 65 | 5 - 135 |

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandrock, QA/QC Manager

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

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Chad Taylor

Date: 07/02/03

Date Received: 6/25/2003

Project Name: Harbert Transportation

Project Number: H9042.Q

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

Certified Analytical Report

| Order ID: 349 | 05 | Lab Sa | mple I | D: 3490 | 5-004 | | Client Sam | ple ID: MV | V-9 | |
|-------------------|--------|--------|---------|----------------|-----------|---------|--------------------|------------------|-------------|------------------------------|
| Sample Time: 12:0 | 3 PM | Sam | ple Dat | te: 6/24/ | 2003 | | | Matrix: Liq | uid | |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| Benzene | 25 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Toluene | 9.1 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Ethyl Benzene | 230 | | 10 | 0.5 | 5 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| Xylenes, Total | 270 | | 10 | 1 | 10 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8020 |
| | | | ; | | Surroga | ite | Surre | gate Recovery | Conti | ol Limits (%) |
| | | | r | 4-Bi | omofluoro | benzene | | 65.4 | 6: | 5 - 135 |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| TPH as Gasoline | 2900 | | 10 | 50 | 500 | μg/L | N/A | 6/27/2003 | WGC62869B | EPA 8015 MOD. (Purgeable) |
| | | | | | Surroga | te | Surro | gate Recovery | Contr | ol Limits (%) |
| | | | , | 4-Br | omofluoro | benzene | | 81.5 | 65 | 5 - 135 |

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandrock, QA/QC Manager

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

Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076

Attn: Chad Taylor

Date: 07/02/03

Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Sampled By: Client

Certified Analytical Report

| Order ID: 34905 | | Lab Sa | mple I | D: 3490 | 5-005 | | Client San | ple ID: MV | V-10 | |
|------------------------|--------|--------|---------|----------------|------------|---------------|--------------------|--------------------|-------------|------------------------------|
| Sample Time: 9:13 A | M | Sam | ple Dat | te: 6/24/ | 2003 | | I | Matrix: Liq | uid | |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| Benzene | ND | | 5 | 0.5 | 2.5 | μ g /L | N/A | 6/30/2003 | WGC62875 | EPA 8020 |
| Toluene | ND | | 5 | 0.5 | 2.5 | μg/L | N/A | 6/30/2003 | WGC62875 | EPA 8020 |
| Ethyl Benzene | ND | | 5 | 0.5 | 2.5 | μg/L | N/A | 6/30/2003 | WGC62875 | EPA 8020 |
| Xylenes, Total | ND | | 5 | 1 | 5 | μ g /L | N/A | 6/30/2003 | WGC62875 | EPA 8020 |
| | | | | | Surrogs | nte | Surre | gate Recovery | Cont | rol Limits (%) |
| | | | | 4-B | romofluoro | obenzene | | 105.7 | 6. | 5 - 135 |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
| TPH as Gasoline | 750 | | 5 | 50 | 250 | μ g /L | N/A | 6/30/2003 | WGC62875 | EPA 8015 MOD. (Purgeable) |
| | | | | | Surroga | ıte | Surro | gate Recovery | Conti | rol Limits (%) |
| | | | | 4-Bı | omofluore | benzene | | 128.6 | 6: | 5 - 135 |

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

leis Dambelo de

Patti Sandrock, QA/QC Manager

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Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076 Attn: Chad Taylor Date: 07/02/03 Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Certified Analytical Report

| Order ID: 34905 | Order ID: 34905 | | | | 01 | Clie | nt Sample ID: | MW-3 | |
|------------------------|-----------------|--------------|---------|----------|------------|-------|------------------|-------------|-----------|
| Sample Time: 8:21 AM | | Sampl | e Date: | 6/24/200 | 03 | | Matrix: | Liquid | |
| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch IĐ | Method |
| Methyl-t-butyl Ether | ND | | 1 | 1 | 1 | μg/L | 6/30/2003 | WMS110133 | EPA 8260B |
| | Surrogate | e | | Surroga | te Recover | y | Control Limits (| (%) | |
| | 4-Bromof | luorobenzene | 3 | g | 99.2 | | 73 - 151 | | |
| | Dibromof | luoromethan | е | ç | 90.9 | | 57 - 156 | | |
| | Toluene-d | 8 | | ç | 5.8 | | 77 - 150 | | |

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

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Weber, Hayes and Associates

120 Westgate Drive

Watsonville, CA 95076 Attn: Chad Taylor Date: 07/02/03

Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Certified Analytical Report

| Order ID: 3 | 34905 | Lab | Sampl | le ID: | 34905 | -002 | | Client | Sample ID: M | IW-5 | |
|----------------------|----------|-----------|--------|--------|--------|----------|--------|--------|-------------------|-------------|-----------|
| Sample Time: 1 | 11:13 AM | Sa | mple | Date: | 6/24/2 | 003 | | | Matrix: L | iquid | |
| Parameter | Result | Flag | DF | PQL | PQLR | MDL | MDLR | Units | Analysis Date | QC Batch ID | Method |
| Methyl-t-butyl Ether | ND | | 5 | 1 | 5 | 0.3 | 1.5 | μg/L | 6/30/2003 | WMS110133 | EPA 8260B |
| | Surrog | gate | | | Surrog | gate Rec | covery | | Control Limits (% | 6) | |
| | 4-Bron | nofluorob | enzene | | | 86.6 | | | 73 - 151 | | |
| | Dibron | nofluorom | ethane | | | 87.0 | | | 57 - 156 | | |
| | Toluen | e-d8 | | | | 85.4 | | | 77 - 150 | | |

Comment:

Sample diluted due to high concentration of non-target compounds.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandroek, QA/QC Manager

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Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076 Attn: Chad Taylor Date: 07/02/03 Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Certified Analytical Report

| Order ID: | 34905 | Lab | Samp | le ID: | 34905 | -003 | | Client | Sample ID: M | 1W-6 | |
|----------------------|----------|------------|--------|--------|--------|---------|--------|-----------|-------------------|-------------|-----------|
| Sample Time: | 10:21 AM | Sa | ımple | Date: | 6/24/2 | 003 | | | Matrix: L | iquid | |
| Parameter | Result | Flag | ÐF | PQL | PQLR | MDL | MDLR | Units | Analysis Date | QC Batch ID | Method |
| Methyl-t-butyl Ether | ND | | 2 | 1 | 2 | 0.3 | 0.6 | μ g/L | 6/30/2003 | WMS110133 | EPA 8260B |
| | Surrog | gate | | | Surro | gate Re | covery | | Control Limits (% | 6) | |
| | 4-Bron | nofluorobe | enzene | | | 96.8 | | | 73 - 151 | | |
| | Dibron | nofluorom | ethane | | | 89.0 | | | 57 - 156 | | |
| | Toluen | e-d8 | | | | 94.8 | | | 77 - 150 | | |

Comment: Sample diluted due to high concentration of non-target compounds.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandrock, QA/QC Manager

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Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076 Attn; Chad Taylor Date: 07/02/03 Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Certified Analytical Report

| Order ID: | Order ID: 34905 | | | le ID: | 34905 | -004 | • | Client | Sample ID: M | 1W-9 | |
|----------------------|------------------------|-----------|--------|--------|--------|---------|--------|--------------|-------------------|-------------|-----------|
| Sample Time: | 12:03 PM | Sa | ample | Date: | 6/24/2 | 003 | _ | | Matrix: L | iquid | |
| Parameter | Result | Flag | DF | PQL | PQLR | MDL | MDLR | Units | Analysis Date | QC Batch ID | Method |
| Methyl-t-butyl Ether | ND | | 5 | 1 | 5 | 0.3 | 1.5 | μ g/L | 6/30/2003 | WMS110133 | EPA 8260B |
| zoniyi i odiyi zino. | Surr | ogate | | | Surro | gate Re | covery | | Control Limits (% | %) | |
| | 4-Bro | mofluorob | enzene | | | 86.6 | | | 73 - 151 | | |
| | Dibro | mofluorom | ethane | | | 87.5 | | | 57 - 156 | | |
| | Toluc | ne-d8 | | | | 86.9 | | | 77 - 150 | | |

Comment: Sample diluted due to high concentration of non-target compounds.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandrock, QA/QC Manager

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

Weber, Hayes and Associates

120 Westgate Drive Watsonville, CA 95076 Attn: Chad Taylor Date: 07/02/03 Date Received: 6/25/2003

Project Name: Harbert Transportation

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

Certified Analytical Report

| Order ID: 3490 | Samp | le ID: | 34905 | -005 | | Client | Sample ID: M | 1W-10 | | | |
|----------------------|--------|------------|--------|-------|--------|----------|--------------|-------|-------------------|-------------|-----------|
| Sample Time: 9:13 | AM | Sa | mple | Date: | 6/24/2 | 003 | | | Matrix: L | iquid | |
| Parameter | Result | Flag | DF | PQL | PQLR | MDL | MDLR | Units | Analysis Date | QC Batch ID | Method |
| Methyl-t-butyl Ether | ND | | 5 | 1 | 5 | 0.3 | 1.5 | μg/L | 6/30/2003 | WMS110133 | EPA 8260B |
| | Surrog | gate | | | Surrog | gate Rec | covery | | Control Limits (% | 6) | |
| | 4-Bron | nofluorobe | enzene | | | 96.1 | | | 73 - 151 | | |
| | Dibron | nofluorom | ethane | | | 87.3 | | | 57 - 156 | | |
| | Toluen | e-d8 | | | | 96.0 | | | 77 - 150 | | |

Comment: Sample diluted due to high concentration of non-target compounds.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

Patti Sandroek, QA/QC Manager

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

Quality Control Results Summary

QC Batch #:

WGC62869B

Matrix:

Liquid

Units:

μg/L

Date Analyzed:

6/26/2003

| Paramete | er | Method | Blank Result | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|-------------|------------|------------------|-----------------|--------------------|-----------------|------------------|-----------------|------------|------------|-------|---------------|--------------------|
| Test: | TPH a | as Gasoline | | | | | . | , | 7.11 | | . | |
| TPH as G | asoline | EPA 8015 M | ND | | 250 | | 221.3 | LCS | 88.5 | | | 65.0 - 135.0 |
| | | Surrogate | | Surrog | ate Recover | 'y | Control | Limits (%) | | | | |
| [| | 4-Bromofluorobe | nzene | | 92.3 | | 65 - | 135 | | | | |
| Test: | BTEX | ζ | | · | | | | | | | | |
| Benzene | | EPA 8020 | ND | | 8 | | 7.3 | LCS | 91.3 | | | 65.0 - 135.0 |
| Ethyl Ben | izene | EPA 8020 | ND | | 8 | | 8. | LCS | 100.0 | | | 65.0 - 135.0 |
| Toluene | | EPA 8020 | ND | | 8 | | 7.5 | LCS | 93.8 | | | 65.0 - 135.0 |
| Xylenes, (| total | EPA 8020 | ND | | 24 | | 25.2 | LCS | 105.0 | | | 65.0 - 135.0 |
| ſ | | Surrogate | | Surrog | ate Recover | y | Control l | Limits (%) | | | | |
| | | 4-Bromofluorobe | nzene | | 90.4 | | 65 - | | | | | |
| Test: | MTBI | E by EPA 8020 |) | | | <u> </u> | | | | | - | |
| Methyl-t-l | butyl Ethe | r EPA 8020 | ND | | 8 | | 7.4 | LCS | 92.5 | | | 65.0 - 135.0 |
| | | Surrogate | | Surrog | nte Recover | y | Control l | Limits (%) | | | | |
| L | | 4-Bromofluorobe | nzene | | 90.4 | | 65 - | 135 | | | | |
| Test: | TPH a | s Gasoline | \ | | | | | | | | | |
| TPH as G | asoline | EPA 8015 M | ND | | 250 | | 220.4 | LCSD | 88.2 | 0.41 | 25.00 | 65.0 - 135.0 |
| | | Surrogate | | Surrega | ate Recover | y | Control I | imits (%) | | | | |
| Ĺ | | 4-Bromofluorobe | nzene | | 86.4 | | 65 - | 135 | | | | |
| Test: | BTEX | , | | | | | | | | | | |
| Benzene | | EPA 8020 | ND | | 8 | | 8.3 | LCSD | 103.8 | 12.82 | 25.00 | 65.0 - 135.0 |
| Ethyl Ben: | zene | EPA 8020 | ND | | 8 | | 8.8 | LCSD | 110.0 | 9.52 | 25.00 | 65.0 - 135.0 |
| Toluene | | EPA 8020 | ND | | 8 | | 8. | LCSD | 100.0 | 6.45 | 25.00 | 65.0 - 135.0 |
| Xylenes, te | otal | EPA 8020 | ND | | 24 | | 26.3 | LCSD | 109.6 | 4.27 | 25.00 | 65.0 - 135.0 |
| | | Surrogate | | Surroge | te Recover | у | Control I | imits (%) | | | • • | |
| | | 4-Bromofluorober | ızene | | 104.5 | | 65 - | 135 | | | | |
| Test: | MTBE | E by EPA 8020 | | | | | | , | | | <u>.</u> | |
| Methyl-t-b | | | ND | | 8 | | 7.9 | LCSD | 98.8 | 6.54 | 25.00 | 65.0 - 135.0 |
| | | Surrogate | | Surroge | te Recover | y | Control I | imits (%) | | | | |
| | | 4-Bromofluorober | nzene | | 104.5 | | 65 - | · · · | | | | |

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Quality Control Results Summary

QC Batch #:

WGC62875

Matrix: Liquid

Units:

μg/L

Date Analyzed:

6/30/2003

| Parameter | Method | Blank Result | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|--------------------|-----------------|-----------------|--------------------|-----------------|------------------|-----------------|------------|---------------------------------------|------|---------------|--------------------|
| Test: TPH | as Gasoline | | | * | | | | | | | |
| TPH as Gasoline | EPA 8015 M | ND | | 250 | | 223. | LCS | 89.2 | | | 65.0 - 135.0 |
| | Surrogate | | Surrog | ate Recover | у | Control | Limits (%) | | | | |
| | 4-Bromofluorobe | nzene | · · · | 82.1 | ····· | 65 - | 135 | | | | |
| Test: BTE | X | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| Benzene | EPA 8020 | ND | | 8 | | 7.7 | LCS | 96.3 | | | 65.0 - 135.0 |
| Ethyl Benzene | EPA 8020 | ND | | 8 | | 8.4 | LCS | 105.0 | | | 65.0 - 135.0 |
| Toluene | EPA 8020 | ND | | . 8 | | 7.9 | LCS | 98.8 | | | 65.0 - 135.0 |
| Xylenes, total | EPA 8020 | ИD | | 24 | | 26.1 | LCS | 108.8 | | | 65.0 - 135.0 |
| | Surrogate | | Surrog | ate Recover | у | Control l | Limits (%) | | | | |
| L | 4-Bromofluorobe | nzene | <u> </u> | 93.2 | | 65 - | 135 | | | | |
| Test: MTE | BE by EPA 8020 |) | | | | | ···· | | | | |
| Methyl-t-butyl Etl | ner EPA 8020 | ND | | 8 | | 7.7 | LCS | 96.3 | | | 65.0 - 135.0 |
| | Surrogate | | Surrog | ate Recover | у | Control I | Limits (%) | | | | |
| <u></u> | 4-Bromofluorobe | nzene | | 93.2 | | 65 - | 135 | | | | |
| Test: TPH | as Gasoline | | | | | | | | * ** | | |
| TPH as Gasoline | EPA 8015 M | ND | | 250 | | 233.4 | LCSD | 93.4 | 4.56 | 25.00 | 65.0 - 135 0 |
| | Surrogate | | Surrog | ate Recover | у | Control I | imits (%) | | | | |
| | 4-Bromofluorobe | nzene | | 91.1 | | 65 - | 135 | | | | |
| Test: BTE | X | | | | | | | | | | |
| Benzene | EPA 8020 | ND | | 8 | | 7.6 | LCSD | 95.0 | 1.31 | 25.00 | 65.0 - 135.0 |
| Ethyl Benzene | EPA 8020 | ND | | 8 | | 8.3 | LCSD | 103.8 | 1.20 | 25.00 | 65.0 - 135.0 |
| Toluene | EPA 8020 | ND | | 8 | | 7.7 | LCSD | 96.3 | 2.56 | 25.00 | 65.0 - 135.0 |
| Xylenes, total | EPA 8020 | ND | | 24 | | 25.7 | LCSD | 107.1 | 1.54 | 25.00 | 65.0 - 135.0 |
| | Surrogate | | Surroga | ate Recover | ý | Control I | imits (%) | | | | |
| | 4-Bromofluorobe | nzene | | 91.6 | | 65 - | 135 | | | | |
| Test: MTB | E by EPA 8020 |) | | | | | | | | | |
| Methyl-t-butyl Eth | | ND | | 8 | | 7.7 | LCSD | 96.3 | 0.00 | 25.00 | 65.0 - 135.0 |
| | Surrogate | | Surroga | ate Recover | y | Control I | imits (%) | | | | |
| | 4-Bromofluorobe | nzene | _ | 91.6 | | 65 - | 135 | | | | |

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Quality Control Results Summary

QC Batch #:

WMS110133

Matrix:

Liquid

Units:

μg/L

Date Analyzed:

6/30/2003

| Parameter | Method | Blank Result | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---------------|--------------------|-----------------|--------------------|-----------------|------------------|-----------------|------------|------------|------|---------------|--------------------|
| Test: 1 | MTBE by EPA 826 | ЮB | | | | | | | • | | |
| Methyl-t-but | yl Ether EPA 8260B | ND | | 20 | | 17.5 | LCS | 87.5 | | | 54.0 - 130.5 |
| | Surrogate | | Surrog | ate Recove | ry | Control I | Limits (%) | | | | |
| | 4-Bromofluorol | enzene | | 96.0 | | 73 - | 151 | | | | |
| | Dibromofluoror | nethane | | 90.8 | | 57 - | 156 | | | | |
| | Toluene-d8 | | | 93.5 | | 77 - | 150 | | | | |
| Test: N | MTBE by EPA 826 | 0B | | | | | | | | | |
| Methyl-t-buty | • | | | 20 | | 18. | LCSD | 90.0 | 2.82 | 25.00 | 54.0 - 130.5 |
| | Surrogate | - | Surrog | ate Recover | .у | Control I | imits (%) | | | | |
| | 4-Bromofluorob | enzene | | 97.4 | | 73 - | 151 | | | | Ì |
| | Dibromofluoron | nethane | | 89.6 | | 57 - | 156 | | | | |
| | Toluene-d8 | | 93.9 | | 77 - | 150 | | | | | |



Weber, Hayes & Associates Hydrogeology and Environmental Engineering 120 Westgate Dr., Watsonville, CA 95076

CHAIN -OF-CUSTODY RECORD

PAGE

OF

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

| | | | | , ax. (c | 001) 122-1109 | | | | | | | | | | | | | | |
|--------------------------------|---|--|--------------|-------------------|---------------------|-------------|---------------------|----------------|--|---------------|--------------|------------------------|--|--|--|--------------|--|--|--|
| PROJECT | NAME AND JOB# | : Harbert T | rans | portati | ion / H9042. | Q | | - | | | | | LAB | ORATORY: | : Entech | | | | |
| SEND CERTI | FIED RESULTS TO: | : Chad Tay | /lor | | | | | | | | | - | TURNARO | OUND TIME: | : Standar | rd Five-Day | 24hr Rush | 48hr Rush | 72hr Rush |
| ELECTRONIC DELIV | ERABLE FORMAT: | X | YES | , [|] NO | | | | | | | - | | LOBAL I.D.: | | 00475 | | 16.00 | |
| Sampler: | IHIL | | | | , | | | | | | | | | | | | | - | |
| | 1/24/03 | | | _ | | | | | | | | | | | | | | | |
| | 1 51103 | | | = | | | T | | | | | | | | | | | | |
| l l | \ | , | | ļ | 1 | | \ · · | SAMPLE C | ONTAINER | ≀s | ļ | | | REQU | UESTED A | NALYSIS | | | |
| Field Point Name | Sample | Sample | _ | Date | Time | Matrix | 40 mL | 1 Liter | mL. | Liner | Total P | etroleum Hyd | 1 | | olatile Organ | nics | Addit | tional Analys | its |
| (GeoTracker) | Identification | Depth | San | impled | Sampled | Ma | VOAs (preserved) | Amhar lare | | Anototo or | Diesel | Purgeable Fuel-Scan | Gasoline & BTEX- MTBE by EPA Method# 8015M-8-8020 | Oxygenates | Tributyl Alcohol EPA Method# 8260 | | Lead Lab to Filter and Acidify | Total Suspended Solids | |
| Mw.3 | MW.3 | 23.91 | (2 | 400 | 0821 | L. | 3 | | 344 | 105-0 | P57/ | | 80 13MPGP0025 | 0200 | 8260 | 8260 | <u> </u> | | <u> </u> |
| Mw·5 | Mu. 5 | 24.04 | | 1 | 1112 | 4 | | | 1-1- | | 202 | + | Y | - | | - | | | |
| Mu· b | Mu-6 | 541.05. | | | 1021 | П | 3 | | 1 | P | <i>7</i> 3 | 1 | X | | | | 1 | | |
| MW-9 | MW-9 | 25.42 | | <u> </u> | 1203 | \Box | 3 | | | | 74 | , | X | <u> </u> | | 1 | | | |
| MW-10 | MWID | 23.10 | V | <u>/</u> | 0913 | V | 13 | | | | 25 | <u> </u> | X | | <u> </u> | | | | |
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| RELEA | ASED BY: | | الم | Date & Tir | im <u>e</u> | | → | Las | RECEI | IVED BY: | | Date 77 (| e &/Time 03 @ (5.5) | · 137) | | | SAMPLE CONDITIO | N: | |
| 2) // | 11.50 | - | 6 | 1201 | 102 | | <u> </u> | 7-11-1-1 | - TV | | | - 444 | 14/74 (4-) | , . | Ambient | (| efrigerated | Frozen | |
| 21// | <i>P. X.</i> | - | - 4/ | / | | | | / | | | | | - | | Ambient | | eingerated | Frozen | |
| 3.17 | | - | _ | | | | | <i></i> | | | | | | | Ambient | | efrigerated | Frozen | |
| 5.) | | - | _ | | | | | | | | · | | - | | Ambient | Re | efrigerated | Frozen | |
| 5., | | | <u> </u> | | | | | | | | | | | | Ambient | Re | efrigerated | Frozen | ` |
| NOTES: | | | | | | | | | | | ADDI | ITIONAL CON | <i>MENTS</i> | | | | | | |
| A aetections. | / EPA Method 8020, please amples with non-detectable | | | | | | | | t only confirmed | d 8260 | | - Please pr | oduce and e- | mail an EDI | F of these | results to f | frances@weber-ł | hayes.com | ı. |
| X Please use MDL (Munit | | | | icvasca del | south mino, produce | 3 COMME | iii by Erm Medi | 100 #0200. | | | ĺ | | | | | | | | ļ |
| V Lineage right intil [Milling | num Delection Link) for all | y anatea sampies | * | | | | | | | , | i | | | | | | | | , |

Fuel Leak Case Closure Request Groundwater Monitoring Report - Second Quarter 2003 19984 Meekland Avenue, Hayward, California August 22, 2003

Appendix D

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





| | | | | | | EPA Test Meth | iod s | | | | ľ | |
|--------|---------|--------|--------------------|--------|---------|---------------|--------------|---------|-----|------|---------|---------|
| | | | 8015 Modified | | | 8020 | | | | 8010 | | |
| | n | TOLLO | Thu e | | | | | Total | | | | |
| 147-11 | Date | TPH-G | TPH-D | TPH-MO | Benzene | Ethylbenzene | Toluene | Xylenes | TGE | PCE | 1,2-DCA | Other |
| Well | Sampled | | بالوبر | | | μ g/L | | | | μg/L | | μg/L |
| MW1 | 07/86 | 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 | ND | ND | |
| | 07/90 | 27,000 | 11,000 | ND | 4,000 | ND | 1,500 | 4,400 | ND | ND | 62 | |
| | 10/90 | 43,000 | 8,500 | , ND | 3,400 | 1,200 | 2,700 | 5,300 | 0.4 | ND | 26 | |
| | 01/91 | 22,000 | 2,700 | ND | 3,000 | 990 | 1,800 | 2,800 | ND | ND | 27 | |
| | 04/91 | 42,000 | 3,100 * | NA | 5,100 | 1,200 | 3,700 | 3,200 | ND | ND | 120 | |
| | 07/91 | 46,000 | 4,300 | ŊA | 6,500 | 830 | 2,900 | 3,700 | ND | ND | 64 | |
| | 10/91 | 27,000 | 4,300 | NA | 4,400 | 1,100 | 1,400 | 3,200 | ND | ND | 25 | |
| | 01/92 | 27,000 | 14,000 | NA | 3,300 | 1,200 | 1,600 | 3,800 | ND | ND | 24 | |
| | 04/92 | 33,000 | 11,000 | NA | 000,8 | 1,200 | 3,500 | 3,700 | ND | ND | 120 | |
| | 07/92 | 41,000 | 19,000 | NA | 5,600 | 1,300 | 2,600 | 4,000 | ND | ND | 49 | |
| | 10/92 | 33,000 | :3,500 * | NA | 4,400 | 1,200 | 2,100 | 4,000 | ND | , ND | 61 | |
| EWM | 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 | NA | ND | ND | 36 | Lead 40 |
| | 03/90 | 12,000 | NA | NA | 2,300 | 59 | 300 | 490 | ND | ND | ND | réad 40 |
| | 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 | 48 | |
| | 10/90 | NA. | NA | NA | NA. | NA | NA | NA | ND | П | 22 | Lead 3 |
| | 01/91 | 4,600 | 680 | ND | 2,200 | 220 | 110. | - 1 | ND | ND | 40 | - van J |
| | 04/91 | 8,300 | 640 ^a | NA | 2,800 | 370 | 490 | 760 | ND | ND | 43 | |
| | 07/91 | 6,600 | 890 * | NA | 2,000 | 250 | 230 | 380 | ND | ND | 29 | , |
| | 10/91 | 6,300 | 1,700 ⁸ | NA | 2,000 | 410 | 330 | 550 | ND | ND | 27 | .` |
| | 01/92 | 4,000 | 790 * | NA | 1,200 | 250 | 60 | 200 | ND | ND | 22 | |
| | 04/92 | 7,400 | 1,800 * | NA | 730 | 370 | 180 | 640 | ND | ND | 19 | |
| | 07/92 | 3,000 | 2,400 | 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 * | NA (2) | 630 | 180 | 31 | 330 | ND | ND | 13 | |
| l | 06/93 | 5,000 | 1,100 a | ND | 730 | 240 | 43 | 380 | ND | ND | 13 | |





| | | | | | | EPA Test Meti | ods | | | | | |
|------|-----------------|--------|---------------|--------|---------|---------------|---------|------------------|---------------|--------------|------------|-------------|
| | | | 8015 Modifier | 1 | | 8020 | | | | 8010 | | |
| Well | Date Sampled | TPH-G | TPH-D | TPH-MO | Banzane | Ethylbenzene | Toluene | Total Xylenes | TGE | PCE | 1,2-DCA | Other |
| | ************** | | har | | | μg/L | | | | μ g/L | | μglL |
| MW4 | 11/89 | ND | NA | NA | 33 | 1.3 | 1 | 5.2 | NA | NA | NA | 1 2 2 4 4 2 |
| | 03/90 | ND | NA | NA | 7.4 | 2 | 2 | 1.1 | ND | ND | ND | Lead 12 |
| | 07/90 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.9 | |
| | 10/90 | ND | NĐ | ИD | ND | ND | ND | ND | 0.7 | ND | 0.5 0.5 | |
| | 01/91 | 80 | ND | ND | 9.2 | 2.4 | 1.7 | 0.7 | ND | ND QN | ND | |
| | 04/91 | 1,400 | 130 * | NA | 2,200 | 72 | ND | 17 | ND | ND | ND | |
| | 07/91 | 130 | ND | NA | 14 | 3.3 | 9.7 | ND | ND | ND | 0.81 | |
| | 10/91 | ND | NĐ | NA | 5.3 | 1 | ND | 0.8 | ND | ND | ND | |
| | 01/92 | ΝD | ND | NA | 6.8 | 1.3 | ЙĎ | ИD | ИD | ND | ND | |
| | 04/92 | 780 | 130 * | NA | ND | 51 | ND | 4.6 | ŊD | ND | 1.6 | |
| | 07/92 | ND | ND | NA | ND | И́D | ND | ИD | ND | ND | 1.3 | |
| | 10/92 | 100 | ND | NA | 9.5 | ND | ИD | 2.6 | ND | , ND | ND | |
| | 01/93 | 960 | 240 ª | NA | 200 | 41 | 4.6 | 9.4 | ND | ND | 4 | |
| | 06/93 | 650 | 140 * | ND | 150 | 21 | ND | ND | | ND | 1 3.7 | |
| MW5 | 10/90 | 9,600 | 1,900 | ИD | 1,200 | 70 | 160 | 520 | · — · — · — · | ND | 22 | Lead 3 |
| | 01/91 | 10,000 | 1,200 | ИD | 1,600 | 720 | 200 | 510 | l | ND | 33 | read 2 |
| | 04/91 | 18,000 | 860 " | NA | 2,500 | 550 | 580 | 500 | ND | ND | 61 | |
| | 07/91 | 15,000 | 2,200 | NA | 4,800 | 610 | 1,100 | 760 | ND | ND | 62 | |
| | 10/91 | 14,000 | 3,300 * | NA | 5,000 | 530 | 820 | 800 | ND | ND | 49 | |
| | 01/92 | 12,000 | 1,900 * | NA | 4,300 | 390 | 380 | 590 | (| ND | 56 | |
| | 04/92 | 23,000 | 6,400 | NA | 8,600 | ND | 2,600 | 1,900 | ŧ . | ND | 125 | ` |
| | 07/92 | 27,000 | 5,900 * | 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 * | NA | 5,800 | 560 | 1,900 | 1,600 | ł | ND | 110 | Ì |
| | 01/93 | 19,000 | 2,100 ° | NA | 4,600 | 370 | 1,600 | 1,400 | l . | ND | 120 | |
| | 06/93 | 22,000 | 2,900 | ND | 8,300 | 740 | 2,500 | 1,900 | l . | AD. | 110 | İ |
| | 06/93 | 23,000 | 2,300 | ND | 9,600 | 730 | 3,000 | 1,900 | ; | ND | 110 | |





| | | | | | | EPA Test Meth | ods | | | | | 000000000000000000000000000000000000000 |
|--------|-----------------|--------|------------------|----------|----------------|----------------------|-----------|------------------|----------|--------------------|------------|---|
| | | | 8015 Modifie | d | | 8020 | | | | 8010 | | |
| Well | Date Sampled | TPH-G | TPH-D μg/L | TPH-MO | Benzene | Ethylbenzene μg/L | Toluene | Total Xylenes | TOE | PCE µg/L | 1,2-DCA | Other |
| MW6 | 10/90 | 27,000 | 4,700 | ND | 2.700 | | ***** | | | · /* 40000 / *0700 | | μg/L |
| ,0.000 | 01/91 | 7,200 | 1,600 | ND | 2,700 1,400 | 450 | 2,900 | 3,300 | ND | ND | 40 | Lead 9 |
| | 04/91 | 17,000 | 800 ª | NA NA | 7 | ND | 200 | 830 | ND | ND | 23 | |
| | 07/91 | 11,000 | 1,400 | NA NA | 2,800 | 610 | 1,200 | 1,800 | ND | ND | 53 | |
| | 10/91 | 4,800 | 1,600 | NA | 1;200 380 | ND | 380 | 750 | ND | ND | 29 | |
| | 01/92 | 6,100 | 1,200 * | NA NA | 460 | 69 | 340 | 730 | ND | ИD | 22 | |
| | 04/92 | 7,200 | 1,800 a | NA NA | 340 | 180 350 | 200 | 590 | ND | ND | 26 | |
| | 07/92 | 8,600 | 1,700 8 | NA NA | 1,300 | 380 380 | 460 | 920 | ND | ND | 30 | |
| | 10/92 | 1,600 | 110 4 | NA. | 230 | 70 | 280 20 | 1,100 | ND | ND | 35 | |
| | 01/93 | 13,000 | 2,100 * | NA | 2,500 | 370 | 540 | 88 2,400 | ND | ND | 24 | |
| | 06/93 | 7,400 | 1,900 | ND | 1,500 | 480 | 120 | 1,400 | ND ND | ИD | 36 | |
| MW7 | 10/90 | 14,000 | 2,700 | ND | 390 | ND | 18 | 1,200 | ND | ND 4.3 | 29 | |
| | 01/91 | 4,500 | 1,400 | ND | 320 | 42 | 48 | 350 | ND | , 1.3 | 14 | Lead 11 |
| | 04/91 | 2,400 | NA | NA | 320 | 77 | 62 | 130 | ND | ND 0.6 | 10 | |
| | 07/91 | 2,000 | 910 * | NA | 470 | ND | 24 | 88 | ND | D.O CIN | 11 | |
| | 10/91 | ND | 370 * | NA | ND | ND | ND | ND | ND | 0.68 | 9.7 | |
| | 01/92 | 1,100 | 290 ª | NA | 230 | 45 | 7 | 88 | ND | 3.5 | 4.5 | |
| | 04/92 | 1,700 | 520 ª | NA | 310 | 78 | 28 | 170 | ND | 0.5 | 6.4 | |
| | 07/92 | 1,900 | 590 🖺 | NA | 410 | 78 | 21 | 170 | ND | 2.1 | 3.2 | |
| | 07/92 (dup) | 1,200 | 700 * | NA | 21 | 1 | 2.6 | 90 | ND | 2.1 | 8.7 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 * | ND | 830 | 330 | 49 | 620 | ND | ND | 8.6 | |

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



| | | | | | | EPA Test Meti | ods | | | | 1 | |
|------|-------------|--------|--------------|--------|---------|---------------|---------|---------|----------|----------|----------|-------|
| | | | 8015 Modifie | ď | | 8020 | | | | 8010 | | |
| | Date | TPH-G | TPH-D | трн-мо | | | | Total | | 4.5 | | |
| Well | Sampled | | | TETIMO | Benzene | Ethylbenzene | Tolyene | Xylenes | TCE | PCE | 1,2-DCA | Other |
| | Campieu | | halr | | | بازوبر | | | | μg/L | | μg/L |
| MW8 | 02/91 | ` ND | ND | NA | ND | ND | ND | ND | ND | ND | | |
| | 04/91 | ND | ND | NA | ND | ND | ND | ND | ND | 0.5 | ND | |
| | 07/91 | ND | ND | NA | ND | .ND | 2 | ND | ND | 1.2 | ND | Ī |
| | 10/91 | ND | ND | NA | ND | ND | 0.6 | ND | ND ND | 0.4 | ND | |
| | 01/92 | ND | ND | NA | ND | ND | ND | ND | ND | 0.68 | ND | |
| | 04/92 | ND | ND | NA | ND. | ND | ND | ND | ND | 8.0 | ND ND | į |
| | 07/92 | ND | ND | NA | ND | ND | 3.3 | ND | ND | 1.6 | ND | į |
| | 10/92 | ND | ND | NA | ND | ND | ND | ND | ND | 1.4 | ND | |
| | 01/93 | ND | ND | NA | ND | ND | ND | ND | ND | 0.8 | ND | |
| | 06/93 | ND | ND | ND | ND | ND | ND | ND | ND | 1.4 | ND | |
| MW9 | 02/91 | 6,000 | 1,600 | NA | 180 | 19 | 170 | 200 | ND | ND | 13 | |
| | 04/91 | 4,200 | 410 * | NA | 520 | 130 | 410 | 580 | ND | , ND | 26 | - |
| | 07/91 | 1,900 | 180 * | NA | 190 | 12 | 52 | 77 | ND | 6.5 | 12 | 1 |
| | 10/91 | 860 | 300 | NA | 160 | 31 | 44 | 83 | ND | ND | 10 | 1 |
| | 01/92 | 380 | 120 * | NA | 14 | 7.6 | 2.2 | 14 | ND | ND | 9.6 | |
| | 04/92 | 2,900 | 700 * | NA. | 510 | 80 | 266 | 260 | ND | QN QN | 11 | |
| | 07/92 | 4,400 | 1,300 * | NA | 860 | 210 | 340 | 640 | ND | ND | 22 | |
| | 10/92 | 200 | 290 | NA | 6.8 | 1.4 | 2.1 | 7.8 | ND | ND | 12 | ļ |
| | 01/93 | 8,500 | 740 | NA | 2,400 | 390 | 620 | 1,500 | ND | ND | 29 | |
| | 06/93 | 8,200 | 1,300 | ND | 2,400 | 360 | 480 | 1,500 | ND | ND | 29 | |
| MW10 | 01/92 | 13,000 | 3,700 | NA | 130 | 580 | 110 | 3,000 | ND | ND | 33 | 3 |
| | 05/92 | 15,000 | 5,000 | | 180 | ND | 18 | 2,700 | МĐ | ND | 20 | .] |
| | 05/92 (dup) | 13,000 | 7,500 * | NA | 240 | 490 | 65 | 2,500 | ND | ND | 22 | |
| | 07/92 | 8,100 | 4,400 | NA | 74 | 360 | ND | 1,100 | ND | ND | 29 | ł |
| | 10/92 | 3,200 | 1,500 | | ND | ND | ND | 320 | ND | ND | 25 | Ī |
| | 01/93 | 7,500 | 2,200 | NA | 130 | 170 | ·20 | 710 | ND | ND | 18 | [|
| | 06/93 | 8,000 | 2,100 | ND | 69 | 7.9 | ND | 490 | ND | ND | 16 | ļ |

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



| | | | | | | EPA Test Mett | ods | | | | | |
|---------------------|------------|-------|--------------|--------|---------|---------------|---------|------------------|------|------|---------|---------------------------------------|
| | | | 801# Modifie | d | | 8020 | | | | 8010 | | |
| | Date | TPH-G | TPH-D | TPH-MO | Benzene | Ethylbenzene | Toluene | Total Xylenes | TCE | PGE | 1,2-DCA | Other |
| Well | Sampled | | μg/L | | | μg/L_ | | | | µg/L | | μα/L |
| MW11 | 01/92 | 8,200 | 3,200 | NA | 23 | 250 | ND | 1,100 | ND | ND | ND | |
| | 04/92 | 160 | 1,200 * | NA | ND | ФИ | ИÐ | ND | ND | ND | ND | |
| | 07/92 | 2,100 | 710 | NA | 39 | 100 | 2.3 | 53 | ND | ND | ND | |
| | 10/92 | 660 | 220 | NA | 2.9 | 19 | ND | 3.8 | ND | ND | ND | |
| | 10/92 | 770 | 230 * | NA | 3.2 | 26 | ND | 5.7 | ND. | ND | ND | |
| | 01/93 | 780 | 370 * | NA | 10 | 2.1 | ND | 39 | ND | ND | ND | |
| | 06/93 | 2,500 | 160 | ND | 27 | 99 | ND | 34 | ND | ND | ND | |
| MW12 | 12/92 | 2,800 | 1,700 | NA | , 14 | ND | ND | ND | ND | ND | ND | • |
| | 06/93 | 1,100 | 750 * | ND | 19 | 21 | ND | 57 | ND | ИĐ | 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 | , NA | NA | |
| Well Abandoned | 12/89 I | 1,800 | NA | NA | 200 | 24 | 18 | 34 | ND | ND | 0.15 | Lead 2,100 |
| Average b | | 8,865 | 1,883 | 250 | 1,562 | 235 | 517 | 871 | 0.21 | 0.41 | 24.8 | |
| Laboratory Limit | Detection | 50 | 50 | 500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | |

Notes:

- a) The detection for petroleum hydrocarbons as diesel appears to be due to the presence of lighter hydrocarbons rather than diesel.
- b) Average of sampled data, ND equals 1/2 detection limit.
- μg/L Micrograms per liter is approximately equivalent to parts per billion, depending on density of water.
- NA Not analyzed.
- ND Not detected.
- TPH-G Total petroleum hydrocarbons quantified as gasoline.
- TPH-D Total petroleum hydrocarbons quantified as diesel.
- TPH-MO Total petroleum hydrocarbons quantified as motor oil.

TCE - Trichloroethylene.

PCE - Tetrachloroethylene.

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



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

| | | | | | EPA | Test Metho | ds | | | |
|------|----------|----------|---------------|---------|--------------|------------|---------|---------|----------|--------|
| | | 8015 | М | | BETX 503 | 8/8620 | | | 8010 | |
| | | TPH | TPH | | | | | | | |
| | Date | Gasoline | Diesel | Benzene | Ethylbenzene | Toluene | Xylenes | 1,2-DCA | PCE | TCE |
| Well | Sampled | µg/L | µg/L. | | Hg/L | | | µg/L | pg/L | µg/L |
| мwз | 07/28/94 | 7,700 | 97 0 • | 1,800 | 810 | ND | 600 | 22 | ND | ND |
| -, | 10/21/94 | 7,400 | 810 | 1,900 | 900 | 37 | 780 | 25 | ND ND | ND IND |
| | 09/15/95 | NS | N8 | 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 | 30,600 | 2,200 | 9,300 | 1,100 | 1,800 | 2,300 | 110 | ND | ND |
| İ | 10/21/94 | 23,000 | 1,500 | 7,900 | 780 | 1,500 | 2,900 | 85 | ND | ND |
| | 09/15/95 | NS | NS | NS | NS | NS | ้ทธ | NS | NS | พร |
| 1 | 03/14/96 | เล | NS | NS | NS | NS | NS | NS | NS | พร |
| | 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 | เล | NS |
| MW7 | 07/29/94 | 2,600 | 530 ° | 470 | 220 | ND | 310 | 2.7 | 6 | ND |
| | 10/21/94 | 1,700 | 280 | 290 | 140 | 4.5 | 240 | 1.8 | 0.74 | ND |
| , 4 | 09/15/95 | NS | NS | NS | NS | NS ' | NS | NS | NS | NS |
| | 03/14/96 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| 1 | 09/26/96 | NS | NS | N8 | NS | NS | NS | NS | NS | NS |



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

| | | | | | EPAT | est Metho | id s | | | |
|------|----------|-----------------|------------------|---------|--------------|-----------|-------------|---------|------|-------|
| | | 8015 | М | | BETX 5030/ | 8020 | | | 8010 | |
| | Date | TPH Gaspline | TPH Diesel | Benzene | Ethylbenzene | Toluene | Xylenes | 1,2-DCA | PCE | TCE |
| Well | Sampled | pg/L | µg/L | | µg/L | | | halr. | μg/L | μg/L. |
| MW8 | 07/28/94 | ND | 78 ^a | ND | ND | ND | ND | ND | ND | ND |
| | 10/21/94 | ND | ND | ŅD | ND · | ND | ND | ND | 0.72 | ND |
| | 09/15/95 | ND | ND | ŇD | 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 ° | 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 | N8 | NS | NS | NS | NS | NS | NS | NS · |
| | 03/14/96 | NŞ | NS | NS | · NS | NS | NS | NS | N8 | NS |
| | 09/26/96 | , NS | NS | NS | NS | NS | NS | เหล | หร | NS |
| MW10 | 07/28/94 | 6,700 | 2,000 6 | 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 | 6.5 | ND | ND . |
| | 09/26/96 | 7,100 | 420 | 140 | 210 | ND | 32 | 9.1 | ND | 5.9 |
| MW11 | 07/28/94 | 450 | 150 ^a | 8.2 | 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 | αи | 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

1

| | | 8015 | М | | EPA T BETX 5030/ | est Method 8020 | la . | | 8010 | |
|------|--|--|------------------------------|------------------------|---|----------------------------|------------------------|----------------------|----------------------------|----------------------|
| Well | Date Sampled | TPH Gasoline µg/L | TPH Diesel µg/L | Benzene E | thylbenzene µg/L | Toluene | Xylenes | 1;2-DGA µg/L | PCE µg/L | TGE µg/L |
| MW12 | 07/28/94 10/21/94 09/15/95 03/14/96 09/26/96 | 240 260 NS NS NS | 160 190 NS NS NS | 1.9 1.9 NS NS | 12 4.5 NS NS NS | ND ND NS NS NS | 5.8 6.8 NS NS | ND ND NS NS | ND ND NS NS NS | ND ND NS NS |
| | | esta esta de la constante de l | | | *************************************** | | ***************** | | | |

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 (C_e-C₁₂) and discrete peaks not indicative of diesel fuel. 1,2-DCE 1,2-dichloroethane.

PCE - Tetrachloroethene,

TCE - Trichtoroethene.

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.

