SITE CONCEPTUAL MODEL
GREYHOUND LINES TERMINAL
2103 SAN PABLO AVENUE
OAKLAND, CALIFORNIA 94608

Green Star Environmental Report No. 09-1379

Report Prepared For:

Greyhound Lines, Inc.
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August 12, 2009

Report Prepared By:

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Having reviewed the attached Site Conceptual Model, being familiar with the project to which it relates, and understanding the guidelines of the San Francisco Bay Regional Water Quality Control Board and the Oakland Urban Land Redevelopment Program, I hereby certify that the attached Site Conceptual Model, dated August 12, 2009, has been prepared and the related activities were conducted in accordance with the required standards.

8/12/09

DATE

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I declare, under penalty of perjury, that the information and/or recommendations contained in the attached Site Conceptual Model are true and correct to the best of my knowledge.

August 14, 2009
DATE

June Weirich

June Weirich, P.G.
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1.0 INTRODUCTION

Green Star Environmental (Green Star) has been retained by Greyhound Lines, Inc. (Greyhound) to manage environmental issues related to the Greyhound Terminal located at 2103 San Pablo Avenue, Oakland, California ("Site"; Fuel Leak Case No. RO0000074 and Geotracker Global ID T0600100666). At the request of Alameda County Environmental Health (ACEH) in their letter dated June 20, 2008, this Site Conceptual Model (SCM) outlines details related to the project.

1.1 Background Information

The Site has been developed as a bus terminal since 1929. Six, out-of-service underground storage tanks (USTs) were removed from the Site in April 1990. The USTs were reportedly out of use for at least two decades prior to their removal. Subsurface investigations between 1989 and 1997 indicated that petroleum hydrocarbon impacts, including phase-separated hydrocarbons (PSH), were present in soils and groundwater at the Site. The groundwater gradient at the Site has historically been a radial pattern from the west-southwest to the northwest. Recent groundwater data is presented in Section 3.1. Table 1 presents a summary of previous reports related to the Site. Tables 2b and 3b present cumulative summaries of groundwater gauging and analytical data, respectively, while Table 4 presents a cumulative summary of soil analytical results. A USGS Topographic/Site Location Map is presented as Figure 1. Site details are illustrated in Figure 2a.

On April 8, 2009, the well network was surveyed to mean sea level (msl) elevation and latitude and longitude using the North American Vertical Datum 1988 (NAVD88) and North American Datum 1983 (NAD83) coordinate systems by a California licensed surveyor.

1.2 Remediation Activities

In March 1991, approximately 714 tons of stockpiled, tankhold-related soils were removed from the Site and treated via solidification/stabilization processes at Gibson Oil Refinery in Bakersfield, California. It was reported by a previous consultant that soils treated by Gibson were typically utilized as road base material. This indicates that the excavated tankpit was backfilled with imported fill and not the existing, contaminated stockpiles. Green Star submitted a Workplan dated November 11, 2008 in an effort to address ACEH's request to confirm current soil impacts near the former source area.

A groundwater remediation system was operated from 1992 to 1997 to recover phase-separated hydrocarbons (PSH) and dissolved-phase impacts in groundwater utilizing, total fluids recovery pumps in four, four-inch diameter wells (ES-1, ES-5, BC-1 and ES-2). The recovered fluids were treated with an oil/water separator and activated carbon absorption columns prior to the permitted discharge to the sanitary sewer. Data indicate that the system was effective as PSH greater than 0.1-foot has not been detected since 1995.

1.3 Land Use Category

The Site has been developed as a bus terminal since 1929 and as such is a commercial property. The Site is zoned by the City of Oakland as an area of Central Business Service Commercial/Downtown Residential Open Space Combining zones (C-51/S-17). Due to recent, expensive remodeling upgrades performed to the facility at the Site, it is unlikely that the Site will be utilized in the near or even relatively distant future for any purpose other than bus terminal operations.

Adjacent properties with the highest potential to be impacted by petroleum hydrocarbons related to the former source at the Site are Castro Street and Interstate Highway I-980. A commercial property and Brush Street are located adjacent to and downgradient of I-980. Beyond Brush Street is a mixed use neighborhood of commercial and residential properties. The nearest sensitive property downgradient of the Site is a day care center which is located in the mixed use neighborhood northwest of Brush Street. The day care center is located approximately 485 feet northwest the Site. The results of an area survey are presented in Section 4.3.

2.0 PHYSICAL SETTING

2.1 Geology and Hydrogeology

According to the United States Geological Survey[1] (USGS) and the San Francisco Bay Regional Water Quality Control Board[2] (RWQCB), the Site is located in the San Francisco Basin west of the Hayward Fault. More specifically, the Site is located in the Santa Clara Valley groundwater basin and the East Bay Plain sub-basin. The Site is underlain by unconsolidated Quaternary-aged sediments generally associated with beach and dune formations. In this area, the Quaternary deposits at the surface are mapped as the Merritt Sands which can be up to 60 feet thick. The Quaternary-aged sediments are assumed to be located on the Cretaceous and Jurassic-aged Franciscan bedrock complex which is approximately 450 ft below mean seal level (msl) in the area of the Site. Other unconsolidated sediments, which may include the early Pleistocene-aged Santa Clara formation, are present between the Merritt Sands and the Franciscan bedrock, but these sediments do not appear to be well understood at this time. A USGS cross-section of Oakland area northeast past the Hayward fault is presented as Appendix D.

Soils encountered at the Site during subsurface investigations have generally included horizons of clays near the surface which are underlain by sandy soils with some intervals of interbedded silts. An unspecified fill material has been indicated to be present near the surface in several borings. The Site is covered by improved surfaces (concrete or asphalt) which are generally underlain by the clayey soils to approximately 12 to 16 feet below surface grade (bsg). The clayey soils appear to correspond with the Clear Lake-Urban complex of clayey soils described to be present at the Site by the Alameda County Soil Survey[3]. Although the Urban-Baywood complex of sandy soils is also indicated by the soil survey to be present at the northern portion of the Site, no borings have been advanced in this area. Groundwater has been measured to range from depths of approximately 12 to 22 feet bsg (approximately 3.6 to 9.7 feet msl) and is generally present within a horizon of sandy soils (Tables 3a and 3b). Cross-sections illustrating the subsurface at the Site to approximately ten feet below msl are presented as Figures 7 and 8 and boring logs are present as Appendix C.

Lake Merritt is the nearest surface water body at approximately 0.50-mile east-southeast from the Site. The Oakland Inner Harbor is located approximately 1.1 miles south-southwest of the Site.

Groundwater in the area is utilized for very limited amounts of irrigation, industrial and potable purposes, but shallow groundwater (less than 50 feet bgs) use in the area is most typically for household irrigation purposes[4]. The RWQCB lists the East Bay Plain groundwater sub-basin as having existing beneficial uses of groundwater in the form of municipal, industrial and agricultural[2]. The RWQCB indicates that the area had a high-density of historic water wells set in the Merritt Sand (greater than five per square mile),

but that many of the wells were contaminated by septic fields or saltwater intrusion. The results of a water well search for the Site and vicinity are presented in Section 4.1.

The City of Oakland obtains its municipal and drinking water from the East Bay Municipal Utility District (EBMUD). EBMUD obtains the vast majority of water for the system from the surface water collected from a watershed of the Sierra Nevada Mountain Range that is stored at the Pardee Reservoir, located approximately 80 miles east-northeast of the Site, with a small percentage of the system water coming from local precipitation runoff stored in area reservoirs.

2.2 Nearby Environmental Projects

A review of ACEH's Local Oversight Program (LOP) on-line database as well as the water well search data detailed in Section 4.1 indicate that several properties in the area of the Site are sources of environmental impacts to soil and groundwater in relation to USTs. Four of these LOP facilities are near the Site. Two are located adjacent and up to crossgradient to the Site (south-southeast), City Center Project Parcel T12 and Sinclair Paint Site. Two are located downgradient of the Site (west-northwest to north-northwest; Figure 9), Peerless Stages (2021 Brush Street; approximately 438 feet west-northwest) and Herrington-Olsen Photo (769 22nd Street; approximately 676 feet northwest). Minimal project data are available on the LOP website for the two upgradient projects. The data related to the downgradient projects indicate that both projects had soil and groundwater impacts of petroleum hydrocarbons and that both projects have been closed.

The nearest downgradient project to the Site, Peerless Stages (Fuel Leak Case RO-0000407) is located approximately 460 feet west-northwest of the Site (Figure 9). The project was closed in February 2002 after the removal of two USTs, an excavation of impacted soils and the completion of nine groundwater monitoring events between 1999 and 2001. In their closure letter dated February 15, 2002, ACEH states that 240 ppm TPH-d and 4.0 ppm MTBE remains in soils and 1.20 ppm TPH-d and 1.50 ppm MTBE remains in groundwater at the Site. Residential properties are located immediately downgradient of the impacts and the extent and magnitude of the impacts beneath the residential properties were not evaluated.

The other downgradient project, Herrington-Olsen Photo (Fuel Leak Case STID #3919), is located approximately 645 feet north-northwest of the Site (Figure 9). The project was closed in February 9, 2001 after a UST was removed in 1993, some impacted soils were removed, and eleven groundwater events were conducted between 1994 and 1999. In their closure letter dated February 20, 2001, ACEH states that 5 ppm benzene and 1,600 ppm TPH-g remains in soils and 2.6 ppm benzene, 25.0 ppm TPH-g, and 6.4 TPH-d remains in groundwater at the Site.

3.0 IMPACT DISTRIBUTION

3.1 Groundwater Impacts

Recent groundwater monitoring events were conducted in September 2008 and April 2009. Data from the recent events indicate that dissolved-phase hydrocarbons remain in groundwater at and downgradient of the former tankpit at the Site (west-southwest to west-northwest), but PSH greater than 0.1-foot has not been detected since 1995. Castro Street and right-of-ways as well as Interstate Highway I-980 extend 395 feet west-northwest of the Site.

In April 2009, PSH was not detected during gauging activities and groundwater elevations in the wells ranged from 9.10 feet msl in well ES-8 to 9.67 feet msl in well ES-6. The groundwater flow direction was radial from the west-southwest to the northwest while the calculated hydraulic gradient was 0.0042 ft/ft. The groundwater gradient on April 8, 2009 is presented as Figure 3. Cumulative graphs of groundwater elevations and PSH thicknesses are presented as Appendix B.

Analytical results from the April 2009 groundwater event indicated concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons-gasoline, diesel, and oil ranges (TPH-g, TPH-d, and TPH-o, respectively), naphthalene, tert-amyl methyl ether (TAME), diisopropyl ether (DIPE), 1,2-dichloroethane (EDC), 1,2-dibromoethane (EDB) were detected. Of the detected constituents, benzene, toluene and naphthalene exceeded the Risk Based Screening Level (RBSL) established for each constituent by the City of Oakland. Benzene exceeded its RBSL of 0.001 mg/L in eight wells (BC-1, BC-2, ES-1, ES-2, ES-3, ES-4, ES-5, and ES-8). Toluene exceeded its RBSL of 0.150 mg/L in well ES-5. Naphthalene exceeded its RBSL of 0.020 mg/L in three wells (ES-1, ES-3, and ES-5). As RBSLs have not been established for TPH, California Environmental Protection Agency (Cal/EPA) Environmental Screening Levels (ESLs) were utilized for comparison purposes. TPH-g and TPH-d were detected above their ESL of 0.100 mg/L in seven wells (BC-1, ES-1, ES-2, ES-3, ES-4, ES-5, and ES-8). No other detected analyte exceeded an established RBSL or ESL, as applicable.

It should be noted that well MW-1 at the Peerless Stages (Fuel Leak Case RO-0000407) LOP facility detailed in Section 2.2 is present downgradient of groundwater impacts related to the Site (approximately 455 feet west-northwest of the Site). Well MW-1 was utilized as an upgradient well for the Peerless Stages project and screened appropriately to detect groundwater impacts related to the Site, but contained only sporadic, low concentrations of dissolved-phase petroleum hydrocarbons.

Dissolved-phase benzene in groundwater is illustrated as Figure 4. Concentrations of dissolved-phase TPH-g and TPH-d in groundwater are illustrated as Figures 5 and 6, respectively. Concentrations in BC-3 were not utilized for contouring as the well completion details for BC-3 are unknown and the well screen does not appear to intercept the impacted zone. Table 2a presents a summary of groundwater gauging data from the April 2009 event while Table 2b presents a cumulative summary of groundwater gauging data. Table 3a presents a summary of groundwater analytical data from the April 2009 event while Table 3b presents a cumulative summary of groundwater analytical data. Appendix A presents cumulative graphs of groundwater elevations and PSH thickness while Appendix B presents cumulative graphs of dissolved-phase BTEX and TPH constituent concentrations.

The groundwater data indicates that remedial efforts were successful in removing enough source material that significant off-site migration of petroleum hydrocarbons in groundwater has not occurred. The vast majority of impacted groundwater with significant concentrations of petroleum hydrocarbons remains on-site.

3.2 Soil Impacts

It does not appear that release determination soil sampling was conducted at the time of the removal of the former USTs. However, soil data does exist from several borings advanced in the area of the former tankpit both before and after the USTs were removed. Table 4 presents a cumulative summary of soil analytical results. Based on the available soil data, the soil impacts appear to have been limited to the immediate area of the tankpit as impacts were only present above laboratory detection limits in soil

samples collected from the borings for wells BC-1, BC-2, BC-3, ES-1, ES-2 and ES-5. These borings are present either within or immediately outside the perimeter of the former tankpit. Green Star submitted a Workplan dated November 11, 2008 in an effort to address ACEH's request to confirm current soil impacts near the former source area. Cross-sections illustrating the subsurface at the Site to approximately ten feet below msl are presented as Figures 7 and 8.

4.0 RECEPTOR SURVEY

4.1 Water Well Search

Green Star requested data related to water wells present within at least 0.5-mile of the Site from known regulatory data sources: Alameda County Public Works Agency (ACPWA) and State of California Department of Water Resources (DWR). Both agencies requested the related files remain confidential; therefore, the reviewed data is not included in this report. The records indicated that the vast majority of water wells in the area of the Site are utilized for environmental purposes: monitoring or remediation. A few of the wells were listed for irrigation or domestic use, but none were listed as public supply wells. The non-environmental wells are all located at least 0.4-mile from the Site and none were listed as being downgradient from the Site. No listed well appears to be impacted by or be present in a location that could be impacted in the future by petroleum hydrocarbons related to the Site.

4.2 Area Survey

A walking survey of the Site's area was conducted in order to identify unknown, potential receptors or sensitive property uses (residences, water wells, schools, parks, etc.; Figure 9). The survey included an area within at least 500 feet of the Site's property boundary. The area is developed as a dense urban landscape with the majority of the survey area's developments being commercial operations or multi-family residences. No indication of the presence of water wells was observed during the survey. No residences are present within 500 feet downgradient of the Site. Other than residences at upgradient properties, only two sensitive properties were observed. Begin Plaza Park is present just northeast of the Site in an up- to cross-gradient location relative to groundwater impacts at the Site. 4C's Child Development Center (4C's) is located approximately 485 feet downgradient of the Site, across Castro Street, I-980 and Brush Street. It should be noted that 4C's is adjacent to the Peerless Stages project site (ACEH LOP facility) and approximately 50 feet from known impacts at Herrington-Olsen Photography (ACEH LOP facility). Impacts related to the Site do not appear to threaten sensitive properties or other potential receptors.

4.3 Vapor Survey

A vapor survey of subsurface conduits at the Site, mainly near the impacted area, was conducted in April 2009. The Site and surrounding streets and right-of-ways were evaluated for the existence of conduits that could allow vapors related to petroleum hydrocarbon impacts at the Site to migrate to the surface or building interiors. Once identified, the atmosphere inside the conduits was screened for VOCs using a photo-ionization detector (PID). The conduits identified included: various manways (sewer, natural gas, water), storm drains, and floor drains. No VOCs were measured in the conduits' atmospheres. The locations of the identified conduits and related measurements are illustrated as Figure 10.

4.4 Utility/Conduit Survey

A survey of subsurface utilities in the vicinity of the impacts at the Site was conducted in order to evaluate the potential for the utilities or related trenches to intercept the impacts or impacted groundwater. Groundwater impacts from the Site extend under Castro Street. Four subsurface utility lines are located under Castro Street: a 24-inch outside diameter (OD) sanitary sewer, an 8-inch inside diameter (ID) gas line, a 12-inch OD storm sewer and an 8-inch ID water line (Figure 2b). None of the utilities under Castro Street intercept the water table. The base of the 24-inch sanitary sewer is closest to the groundwater table at approximately 11.7 feet above msl while groundwater has been present in monitoring well ES-8 at elevations ranging from 5.48 to 9.1 feet above msl. Several utility lines are located on-site near the source area, but the on-site lines are very near the surface and do not intercept or approach the water table. Furthermore, direct measurements of accessible near surface atmospheres in accessible lines indicated that measurable concentrations of petroleum hydrocarbons were not present (Section 4.2).

5.0 CLEANUP GOALS

As RBSLs have been established by the City of Oakland and the RWQCB states that RBSLs may be used in lieu of ESLs at Oakland sites[5], Tier 1 RBSLs will be utilized as cleanup standards. The Site has been utilized as a bus terminal since 1929 and no indication of a residential property being impacted by petroleum hydrocarbons related to the former USTs at the Site has been observed; therefore, commercial RBSLs will be utilized. Furthermore, as the vast majority of the groundwater impacts remain on-site as evidenced by relatively low concentrations of impacts in the well ES-8 (40 feet downgradient of the former tankpit) and no indication of actual use of impacted groundwater at off-site properties exists, RBSLs related to the groundwater ingestion pathway are not appropriate for the project. Tables 3a and 4 present Tier 1 RBSLs and ESLs (TPH) for groundwater and soil, respectively, relative to the appropriate data sets.

6.0 DATA GAPS

Apparent data gaps include the current status of soil impacts near the source area and the lack of downgradient delineation of groundwater impacts beyond well ES-8. Green Star submitted a Workplan dated November 11, 2008 in an effort to address ACEH's request to confirm current soil impacts near the former source area. There do not appear to be any suitable locations for drilling downgradient of ES-8 until west of I-980 near Brush Street, which is approximately 350 feet west-northwest of well ES-8. As such, additional downgradient delineation does not appear to be warranted.

7.0 SUMMARY AND CONCLUSIONS

This Site Conceptual Model documents the details regarding the Site, surrounding areas, and related environmental project data related to a former UST system. The following is a summary of the report.

- The Site has been developed as a bus terminal since 1929. Six, out-of-service USTs were removed from the Site in April 1990. The USTs were reportedly out of use for at least two decades prior to their removal. Subsurface investigations between 1989 and 1997 indicated that petroleum hydrocarbon impacts, including PSH, were present in soils and groundwater at the Site. The groundwater gradient at the Site has historically ranged in a radial pattern from the west-southwest to the northwest. A remediation system was operated from 1992 to 1997 to recover PSH and dissolved-phase impacts in groundwater utilizing, total fluids recovery pumps in four, four-inch diameter wells (ES-1, ES-5, BC-1 and ES-2). Data indicate that the system was effective as PSH greater than 0.1-foot has not been detected since 1995.

- Groundwater monitoring events were conducted in September 2008 and April 2009. Data from these events indicate that dissolved-phase petroleum hydrocarbons remain in groundwater at and downgradient of the former tankpit at the Site (west-southwest to west-northwest), but PSH was not detected. In April 2009, the groundwater flow direction was radial from the west-southwest to the northwest while the calculated hydraulic gradient was 0.0042 ft/ft. Of the detected constituents, benzene, toluene and naphthalene exceeded the RBSL established for each constituent by the City of Oakland. The groundwater data indicates that remedial efforts were successful in removing enough source materials that significant off-site migration of petroleum hydrocarbons in groundwater has not occurred. The vast majority of impacted groundwater with significant concentrations of petroleum hydrocarbons remains on-site.

  Based on the available soil data, the soil impacts appear to have been limited to the immediate area of the tankpit as impacts were only present above laboratory detection limits in soil samples collected from the borings for wells BC-1, BC-2, BC-3, ES-1, ES-2 and ES-5. These borings are present either within or immediately outside the perimeter of the former tankpit. Green Star submitted a Workplan dated November 11, 2008 in an effort to address ACEH's request to confirm current soil impacts near the former source area.

- The Site has been developed as a bus terminal since 1929 and as such is a commercial property. The Site is zoned by the City of Oakland as an area of Central Business Service Commercial/Downtown Residential Open Space Combining zones (C-51/S-17). It is unlikely that the Site will be utilized in the near or even relatively distant future for any purpose other than bus terminal operations.

- Adjacent properties with the highest potential to be impacted by petroleum hydrocarbons related to the former source at the Site are Castro Street and Interstate Highway I-980 which extend 395 feet west-northwest of the Site. A commercial property and Brush Street are located adjacent to and downgradient of I-980. Beyond Brush Street is a mixed use neighborhood of commercial and residential properties. The nearest sensitive property downgradient of the Site is a day care center which is located in the mixed use neighborhood northwest of Brush Street. The day care center is located approximately 485 feet northwest the Site.

- The Site is underlain by unconsolidated Quaternary-aged sediments generally associated with beach and dune formations. In this area, the Quaternary deposits at the surface are mapped as the Merritt Sands which can be up to 60 feet thick. The Quaternary-aged sediments are assumed to be located on the Cretaceous and Jurassic-aged Franciscan bedrock complex which is approximately 450 ft below msl in the area of the Site. Groundwater in the area is utilized for very limited amounts of irrigation, industrial and potable purposes, but shallow groundwater (less than 50 feet bgs) use in the area is most typically for household irrigation purposes. The City of Oakland obtains its municipal and drinking water from the EBMUD.

- Two nearby environmental projects with similar released constituents are located down- to cross-gradient of the Site. One of the projects is adjacent to the day care center described above.

- A Receptor Survey consisting of a water well search, a walking area survey, a vapor survey and utility/conduit survey did not indicate any receptors in the impacted area related to the Site are likely to be impacted by the released petroleum hydrocarbons.

- As RBSLs have been established by the City of Oakland and the RWQCB states that RBSLs may be used in lieu of ESLs at Oakland sites, Tier 1 RBSLs for commercial properties will be utilized as cleanup standards. Furthermore, as the vast majority of the groundwater impacts remain on-site as evidenced by relatively low concentrations of impacts in the well ES-8 (40 feet downgradient of the former tankpit) and no indication of actual use of impacted groundwater at off-site properties exists, RBSLs related to the groundwater ingestion pathway are not appropriate for the project.

- Apparent data gaps include the current status of soil impacts near the source area and the lack of downgradient delineation of groundwater impacts beyond well ES-8. Green Star submitted a Workplan dated November 11, 2008 in an effort to address ACEH's request to confirm current soil impacts near the former source area. There do not appear to be any suitable locations for drilling downgradient of ES-8 until west of I-980 near Brush Street, which is approximately 350 feet west-northwest of well ES-8. As such, additional downgradient delineation does not appear to be warranted.

8.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all environmental assessments are inherently limited because they are developed from limited research and site investigation. Subsurface conditions investigated as part of these kinds of investigations may differ from conditions observed on the surface or indicated in written reports. It is also important to note that the conditions observed at the project site and surrounding properties are limited to the day of the site visit and may change with the passage of time.

9.0 REFERENCES

1. USGS (2000), *Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California*.

2. California Regional Water Quality Control Board, San Francisco Bay Region (January 2007), *San Francisco Bay Basin (Region 2), Water Quality Control Plan (Basin Plan)*.

3. USDA Soil Conservation Service (March 1981), *Soil Survey of Alameda County, California, Western Part.*

4. California Regional Water Quality Control Board, San Francisco Bay Region, Groundwater Committee (June 1999), *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda and Contra Costs Counties, CA*.

5. California Regional Water Quality Control Board, San Francisco Bay Region (Interim Final, Revised May 2008), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*.

LIST OF TABLES

Table 1 - Summary of Previous Reports
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Reference #	Document Date	Type	Title	Author	Description
1	6/22/1989	Report	Phase I Investigation	Brown and Caldwell	Report determined that six USTs were present at the Site. Based on analytical testing of residual liquids in the USTs and soil samples, the USTs appeared to contain diesel, gasoline and water and at least some release has occurred to the subsurface. Groundwater was encountered at approximately 22 ft bgs, but was not sampled. Wells BC-1, BC-2, and BC-3 were found to be installed by 1992, but were not documented by this report.
2	7/21/1989	Letter	Report of Soil Contamination	Greyhound Lines, Vernon Sorgee PE	Reported release of diesel and/or gasoline from six, out of service USTs.
3	1/27/1992	Report	Preliminary Site Investigation Report	Engineering-Science, Inc.	The six USTs were reportedly unused for approximately 20 years. The six USTs were removed after the 1989 investigation. In November 1991, Engineering-Science, Inc. installed five monitoring wells (ES-1 through ES-5) and performed groundwater monitoring and a storm drain inspection. PSH was detected in wells BC-1 and ES-5. In soil, TPH-d was detected in only one sample from ES-5 while TEX was present samples from ES-1, ES-2, and ES-5. In groundwater, BTEX was present in ES-1, ES-2, ES-3 and ES-5 while TPH-d was present only in ES-5. Wells BC-1, BC-2 and BC-3 were not sampled. No evidence of impacts were observed in the inspected storm drains.
4	7/13/1992	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Monthly monitoring report of water levels and PSH. PSH was detected in four of the monitoring wells.
5	8/5/1992	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells. Quarterly groundwater sampling was performed.
6	8/19/1992	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells.
7	10/1/1992	Letter	Hydrocarbon Recovery System Installation/ Monitoring	Engineering-Science, Inc.	Summarizes the proposed remediation system that is to be installed. Documents system monitoring and groundwater monitoring procedures which include monthly and quarterly reports.
8	10/6/1992	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells.
9	11/11/1992	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells. Quarterly groundwater sampling was performed.
10	12/15/1992	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells. The hydrocarbon recovery system was installed in November 1992.
11	12/15/1992	Report	Tank Closure Documentation	Engineering-Science, Inc.	The six USTs were removed in April 1990. As no documentation of the tank removal was available on the San Francisco Bay Region of the California RWQCB's fuel leak list, this report was created to document the removal. The report contains tank disposal records, records of soil disposal, analytical results of samples collected during the tank/soil removal, laboratory reports including quality control/quality assurances, and chain-of-custody documentation in order to provide the proper tank closure documentation requested by ACEH. No release determination samples were collected as part of the removal operation.

Table 1 - Summary of Previous Reports
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Reference #	Document Date	Type	Title	Author	Description
12	12/18/1992	Report	Hydrocarbon Recovery System Installation	Engineering-Science, Inc.	A remediation system was installed in November 1992 to recover PSH utilizing pneumatic, total fluids pumps in four, four-inch ID diameter recovery wells (30 ft. deep; ES-1, ES-5, BC-1 and ES-2). The recovered fluids were treated with an oil/water separator and activated carbon absorption columns prior to discharge to the sanitary sewer. Weekly system maintenance checks were performed during the initial start-up and first eight weeks of operation.
13	1/11/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
14	1/31/1993	Report	Quarterly Status Report	Engineering-Science, Inc.	Quarterly monitoring report. PSH was detected in four of the wells. Quarterly groundwater sampling was performed.
15	3/8/1993	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly monitoring report. PSH was detected in three of the wells. Quarterly groundwater sampling was performed.
16	3/8/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
17	4/2/1993	Report	Supplemental Site Assessment Investigation Work Plan	Engineering-Science, Inc.	A workplan was created to further define the lateral and vertical extent of soil and groundwater contamination. Specific remedial actions for mitigating the contamination will also be assessed. Proposed work includes installation of six to eight soil borings which will be converted to groundwater monitoring wells.
18	4/13/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
19	5/11/1993	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected in three of the monitoring wells. Quarterly groundwater sampling was performed.
20	6/15/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
21	7/29/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
22	8/12/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in two of the monitoring wells.
23	8/30/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in two of the monitoring wells.
24	10/1/1993	Report	Preliminary Risk Evaluation	Engineering-Science, Inc.	The risk assessment includes an evaluation of potential contaminant exposure pathways, existing contaminant levels and distribution, chemical characteristics, and site-specific factors such as soil permeability, and local land and water uses. For this assessment, the site was divided into two regions: the former Tank Pit area (source area) and the region surrounding the source area (perimeter). Concentrations of contaminants in groundwater within the source area exceed criteria derived to protect both human health and the environment. None of the chemicals detected in the groundwater within the perimeter were found to exceed the criteria used, indicating that the recovery system is preventing migration of contaminants from the source area. Concentrations of BTEX in soils did not exceed calculated risk-based preliminary remediation goals in either the source area or the perimeter sample locations. TPH was detected in soils in the source area, but risk-based PRGs could not be derived for these contaminants because USEPA-derived toxicity values are not available. It was concluded that a more detailed quantitative risk assessment was not needed.
25	10/15/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.

Table 1 - Summary of Previous Reports
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Reference #	Document Date	Type	Title	Author	Description
26	11/16/1993	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected in four of the monitoring wells. Quarterly groundwater sampling was performed.
27	11/18/1993	Report	Supplemental Site Assessment	Engineering-Science, Inc.	Documented the installation of six soil borings/wells (ES-6 through ES-11) and groundwater monitoring event. No impacts were detected in the soil samples. ES-11 was the only newly installed monitoring well with detectable concentrations of BTEX. While PSH was not detected, the continued operation of the groundwater recovery system on-site and continued groundwater monitoring was recommended. Groundwater impacts were limited to wells near the former USTs and ES-11.
28	12/15/1993	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
29	1/13/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
30	2/26/1994	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected in three of the monitoring wells. Quarterly groundwater sampling was performed.
31	3/18/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
32	4/11/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells.
33	5/18/1994	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected in four of the monitoring wells. Quarterly groundwater sampling was performed.
34	6/1/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells.
35	7/8/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in three of the monitoring wells.
36	9/1/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells.
37	9/7/1994	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not recorded due to equipment theft. Quarterly groundwater sampling was performed.
38	9/28/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in four of the monitoring wells.
39	10/31/1994	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected in one of the monitoring wells. Quarterly groundwater sampling was performed.
40	12/15/1994	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected in two of the monitoring wells. The last report in which PSH was detected greater than 0.1-foot.

Table 1 - Summary of Previous Reports
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Reference #	Document Date	Type	Title	Author	Description
41	1/23/1995	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells.
42	2/14/1995	Report	Quarterly Status Report	Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed.
43	2/23/1995	Letter	Monthly Monitoring Report	Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in two of the monitoring wells.
44	3/23/1995	Letter	Monthly Monitoring Report	Parsons Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells.
45	5/19/1995	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells. Quarterly groundwater sampling was performed.
46	7/6/1995	Letter	Monthly Monitoring Report	Parsons Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in three of the monitoring wells.
47	7/7/1995	Letter	Monthly Monitoring Report	Parsons Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells.
48	8/8/1995	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells. Quarterly groundwater sampling was performed.
49	9/25/1995	Letter	Monthly Monitoring Report	Parsons Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in two of the monitoring wells.
50	10/17/1995	Letter	Monthly Monitoring Report	Parsons Engineering-Science, Inc.	Continued monthly monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells.
51	12/5/1995	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells. Quarterly groundwater sampling was performed.
52	2/26/1996	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells. Quarterly groundwater sampling was performed.
53	5/2/1996	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed.
54	8/9/1996	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed.
55	11/26/1996	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed.
56	2/18/1997	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed.
57	5/23/1997	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed.
58	9/15/1997	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was not detected in any of the monitoring wells. Quarterly groundwater sampling was performed. Product had not been recovered since September 1994 and to date 1,015 gallons of free product had been recovered. In addition, 82,610 gallons of groundwater had been treated and discharged to the sanitary sewer.

Table 1 - Summary of Previous Reports
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Reference #	Document Date	Type	Title	Author	Description
59	11/25/1997	Report	Quarterly Status Report	Parsons Engineering-Science, Inc.	Continued quarterly groundwater monitoring report. PSH was detected at less than 0.1-foot in one of the monitoring wells. Quarterly groundwater sampling was performed. The recovery system was deactivated in January 1997.
60	6/14/2000	Report	Case Closure Checklist, Leaking Underground Storage Tank Program	Central Valley Regional Water Quality Control Board	Case closure checklist, site location map, water well driller's reports, analytical summary (monitoring wells: 07/08/92-10/07/97), site plan, soil analytical data map, groundwater analytical data map.
61	6/15/2000	Report	Risk Management Plan	Parsons Engineering Science, Inc.	Includes stipulations and restrictions that must be followed in order to comply with all requirements of the Risk Management Plan as specified by the ACEH, CASE closure checklist, site location map, analytical summary (monitoring wells: 07/08/92-10/07/97), site plan, soil analytical data map, and groundwater analytical data map.
62	6/15/2000	Report	Final Closure Request	Parsons Engineering Science, Inc.	Reviews site history and existing conditions (in 12/97, the groundwater monitoring program was terminated with ACEH and RWQCB's approval). Requested No Further Action (NFA) as: none of the 384 wells located in Section 26 are used for municipal water supply, Lake Merrit is located approximately 1,700 feet east of the site and is the nearest surface water body, regional groundwater flow is to the south southwest, no soil remediation was required at the site, a total fluid recovery system was used between 01/93 through 02/97 to remove PSH discovered in four onsite wells (ES-1, ES-2, ES-5, and BC-1), PSH was completely removed and dissolved constituents were reduced to levels of diminishing returns, factors limiting potential adverse impacts include the limited horizontal and vertical extent of the dissolved hydrocarbon plume and the removal of PSH from the vicinity of of the former UST locations, and absence of potable drinking wells or reservoirs within a one-mile radius. Conclusions from the Preliminary Risk Evaluation and Tier II Benzene assessment indicated the lack of any significant health or environmental threats to current or future users of the site under currentuse conditions. It was recommended that a NFA status be granted for the site with a deed restriction and Risk Management Plan in place.
63	11/12/2008	Report	Groundwater Monitoring Report	Green Star Environmental	A groundwater monitoring event was performed in September 2008 utilizing 13 wells. PSH was not detected. Benzene, toluene, and naphthalene exceeded City of Oakland RBSLs. TPH-g and TPH-d exceeded Cal EPA ESLs. The majority of the groundwater impacts remained on-site.

ACEH = Alameda County Environmental Health RWQCB = Regional Water Quality Control Board

Table 2a - Summary of Groundwater Level Measurements (April 2009)
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Screened Interval (ft bgs)	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
BC-1	04/08/09	unknown	24.41	--	14.95	--	29.55	9.46
BC-2[2]	04/08/09	unknown	24.37	--	16.34	--	19.91	na
BC-3[2]	04/08/09	unknown	24.42	--	14.93	--	20.15	na
ES-1	04/08/09	10.5-30.5	24.11	--	14.75	--	30.15	9.36
ES-2	04/08/09	10.5-30.5	24.66	--	15.25	--	31.15	9.41
ES-3	04/08/09	15-35	24.93	--	15.65	--	31.55	9.28
ES-4	04/08/09	10.5-30.5	23.93	--	14.46	--	29.95	9.47
ES-5	04/08/09	10.5-30.5	24.08	--	14.75	--	30.13	9.33
ES-6	04/08/09	15-35	27.06	--	17.39	--	35.00	9.67
ES-7	04/08/09	15-35	25.66	--	16.52	--	31.29	9.14
ES-8	04/08/09	15-35	24.74	--	15.64	--	28.80	9.10
ES-9	04/08/09	15-35	23.33	--	14.14	--	34.97	9.19
ES-10[3]	04/08/09	15-35	nm	nm	nm	nm	nm	nm
ES-11	04/08/09	15-35	24.08	--	14.59	--	35.05	9.49

nm = not measured na = not applicable -- = none detected BMP = below measuring point

Note: 1) On April 8, 2009, the well network was surveyed according to the North American Datum, 1983 (NAD 83) coordinate system.
2) Well casings are not vertical.
3) Monitoring well ES-10 has been paved over and is not accessible.

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
BC-1	07/07/92	24.41	19.55	20.66	1.11	nm	4.65
BC-1	08/04/92	24.41	18.47	20.90	2.43	nm	5.48
BC-1	08/31/92	24.41	18.68	21.02	2.34	nm	5.29
BC-1	10/06/92	24.41	18.82	21.14	2.32	nm	5.15
BC-1	11/06/92	24.41	18.24	20.69	2.45	nm	5.70
BC-1	01/07/93	24.41	19.60	21.76	2.16	nm	4.40
BC-1	04/06/93	24.41	--	18.26	--	nm	6.15
BC-1	07/03/93	24.41	19.05	19.15	0.10	nm	5.34
BC-1	08/04/93	24.41	19.30	19.40	0.10	nm	5.09
BC-1	09/01/93	24.41	19.23	19.32	0.09	nm	5.16
BC-1	10/07/93	24.41	19.25	19.43	0.18	nm	5.13
BC-1	11/02/93	24.41	19.42	19.61	0.19	nm	4.95
BC-1	12/06/93	24.41	19.31	19.53	0.22	nm	5.06
BC-1	01/05/94	24.41	19.25	19.42	0.17	nm	5.13
BC-1	02/02/94	24.41	19.30	19.50	0.20	nm	5.07
BC-1	03/02/94	24.41	18.40	18.60	0.20	nm	5.97
BC-1	04/07/94	24.41	18.10	18.20	0.10	nm	6.29
BC-1	05/05/94	24.41	18.65	18.84	0.19	nm	5.72
BC-1	06/07/94	24.41	18.25	18.52	0.27	nm	6.11
BC-1	07/13/94	24.41	--	18.70	--	nm	5.71
BC-1	08/03/94	24.41	--	18.40	--	nm	6.01
BC-1	09/14/94	24.41	18.72	18.73	0.01	nm	5.69
BC-1	10/06/94	24.41	--	18.58	--	nm	5.83
BC-1	11/02/94	24.41	18.81	18.82	0.01	nm	5.60
BC-1	12/07/94	24.41	17.93	17.94	0.01	nm	6.48
BC-1	01/13/95	24.41	--	18.58	--	nm	5.83
BC-1	02/14/95	24.41	16.76	16.80	0.04	nm	7.64
BC-1	03/07/95	24.41	--	17.08	--	nm	7.33
BC-1	04/11/95	24.41	--	16.55	--	nm	7.86
BC-1	05/09/95	24.41	16.99	17.00	0.01	nm	7.42
BC-1	06/09/95	24.41	17.38	17.39	0.01	nm	7.03
BC-1	07/06/95	24.41	--	17.64	--	nm	6.77
BC-1	08/10/95	24.41	--	17.89	--	nm	6.52
BC-1	09/07/95	24.41	--	17.96	--	nm	6.45
BC-1	10/03/95	24.41	--	18.23	--	nm	6.18
BC-1	10/05/95	24.41	--	18.23	--	nm	6.18
BC-1	11/02/95	24.41	--	18.02	--	nm	6.39
BC-1	12/07/95	24.41	--	18.64	--	nm	5.77
BC-1	01/03/96	24.41	--	18.36	--	nm	6.05
BC-1	02/06/96	24.41	--	17.43	--	nm	6.98
BC-1	03/12/96	24.41	--	16.85	--	nm	7.56
BC-1	05/07/96	24.41	--	17.45	--	nm	6.96
BC-1	06/05/96	24.41	--	17.46	--	nm	6.95
BC-1	09/05/96	24.41	--	18.16	--	nm	6.25
BC-1	10/08/96	24.41	--	18.40	--	nm	6.01
BC-1	11/08/96	24.41	--	18.57	--	nm	5.84
BC-1	12/13/96	24.41	--	18.24	--	nm	6.17
BC-1	01/16/97	24.41	--	17.19	--	nm	7.22
BC-1	02/14/97	24.41	--	16.88	--	nm	7.53
BC-1	03/07/97	24.41	--	17.31	--	nm	7.10
BC-1	04/17/97	24.41	--	17.92	--	nm	6.49
BC-1	07/15/97	24.41	--	18.61	--	nm	5.80
BC-1	10/07/97	24.41	--	18.72	--	nm	5.69
BC-1	09/24/08	24.41	--	16.68	--	29.55	7.73
BC-1	04/08/09	24.41	--	14.95	--	29.55	9.46
BC-2[2]	07/07/92	24.37	--	16.89	--	nm	7.48
BC-2[2]	08/04/92	24.37	--	18.46	--	nm	5.91
BC-2[2]	08/31/92	24.37	--	18.89	--	nm	5.48
BC-2[2]	10/06/92	24.37	--	18.50	--	nm	5.87
BC-2[2]	11/06/92	24.37	--	15.98	--	nm	8.39
BC-2[2]	01/07/93	24.37	--	13.50	--	nm	10.87
BC-2[2]	04/06/93	24.37	--	15.20	--	nm	9.17
BC-2[2]	07/03/93	24.37	--	17.75	--	nm	6.62
BC-2[2]	08/04/93	24.37	--	18.10	--	nm	6.27
BC-2[2]	09/01/93	24.37	--	18.48	--	nm	5.89
BC-2[2]	10/07/93	24.37	--	19.02	--	nm	5.35
BC-2[2]	11/02/93	24.37	--	18.76	--	nm	5.61
BC-2[2]	12/06/93	24.37	--	18.87	--	nm	5.50
BC-2[2]	01/05/94	24.37	--	16.76	--	nm	7.61

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
BC-2[2]	02/02/94	24.37	--	16.42	--	nm	7.95
BC-2[2]	05/05/94	24.37	--	17.30	--	nm	7.07
BC-2[2]	06/07/94	24.37	--	17.70	--	nm	6.67
BC-2[2]	07/13/94	24.37	--	17.10	--	nm	7.27
BC-2[2]	08/03/94	24.37	--	18.36	--	nm	6.01
BC-2[2]	09/14/94	24.37	--	17.04	--	nm	7.33
BC-2[2]	01/13/95	24.37	--	12.80	--	nm	11.57
BC-2[2]	02/14/95	24.37	--	15.11	--	nm	9.26
BC-2[2]	03/07/95	24.37	--	16.21	--	nm	8.16
BC-2[2]	04/11/95	24.37	--	15.56	--	nm	8.81
BC-2[2]	05/09/95	24.37	--	15.81	--	nm	8.56
BC-2[2]	06/09/95	24.37	--	16.88	--	nm	7.49
BC-2[2]	07/06/95	24.37	--	16.88	--	nm	7.49
BC-2[2]	08/10/95	24.37	--	17.55	--	nm	6.82
BC-2[2]	09/07/95	24.37	--	18.03	--	nm	6.34
BC-2[2]	10/03/95	24.37	--	18.24	--	nm	6.13
BC-2[2]	10/05/95	24.37	--	18.24	--	nm	6.13
BC-2[2]	11/02/95	24.37	--	18.36	--	nm	6.01
BC-2[2]	01/03/96	24.37	--	17.86	--	nm	6.51
BC-2[2]	02/06/96	24.37	--	16.31	--	nm	8.06
BC-2[2]	03/12/96	24.37	--	16.50	--	nm	7.87
BC-2[2]	04/09/96	24.37	--	16.90	--	nm	7.47
BC-2[2]	05/07/96	24.37	--	17.20	--	nm	7.17
BC-2[2]	06/05/96	24.37	--	17.10	--	nm	7.27
BC-2[2]	07/09/96	24.37	--	17.70	--	nm	6.67
BC-2[2]	10/08/96	24.37	--	18.40	--	nm	5.97
BC-2[2]	11/08/96	24.37	--	18.30	--	nm	6.07
BC-2[2]	12/13/96	24.37	--	16.80	--	nm	7.57
BC-2[2]	01/16/97	24.37	--	16.40	--	nm	7.97
BC-2[2]	02/14/97	24.37	--	16.30	--	nm	8.07
BC-2[2]	03/07/97	24.37	--	17.00	--	nm	7.37
BC-2[2]	04/17/97	24.37	--	17.70	--	nm	6.67
BC-2[2]	07/15/97	24.37	--	18.50	--	nm	5.87
BC-2[2]	10/07/97	24.37	--	18.69	--	nm	5.68
BC-2[2]	09/24/08	24.37	--	16.82	--	19.90	--
BC-2[2]	04/08/09	24.37	--	16.34	--	19.91	na
BC-3[2]	07/07/92	24.42	--	16.68	--	nm	7.74
BC-3[2]	08/04/92	24.42	--	19.24	--	nm	5.18
BC-3[2]	08/31/92	24.42	--	19.10	--	nm	5.32
BC-3[2]	10/06/92	24.42	--	18.93	--	nm	5.49
BC-3[2]	11/06/92	24.42	--	16.81	--	nm	7.61
BC-3[2]	01/07/93	24.42	--	16.55	--	nm	7.87
BC-3[2]	04/06/93	24.42	--	15.44	--	nm	8.98
BC-3[2]	07/03/93	24.42	--	16.81	--	nm	7.61
BC-3[2]	08/04/93	24.42	--	18.82	--	nm	5.60
BC-3[2]	09/01/93	24.42	--	18.40	--	nm	6.02
BC-3[2]	10/07/93	24.42	--	18.58	--	nm	5.84
BC-3[2]	11/02/93	24.42	--	18.53	--	nm	5.89
BC-3[2]	12/06/93	24.42	--	18.67	--	nm	5.75
BC-3[2]	01/05/94	24.42	--	17.51	--	nm	6.91
BC-3[2]	02/02/94	24.42	--	16.40	--	nm	8.02
BC-3[2]	03/02/94	24.42	--	15.00	--	nm	9.42
BC-3[2]	04/07/94	24.42	--	17.70	--	nm	6.72
BC-3[2]	05/05/94	24.42	--	17.90	--	nm	6.52
BC-3[2]	06/07/94	24.42	--	17.34	--	nm	7.08
BC-3[2]	07/13/94	24.42	--	18.10	--	nm	6.32
BC-3[2]	08/03/94	24.42	--	18.36	--	nm	6.06
BC-3[2]	09/14/94	24.42	--	18.31	--	nm	6.11
BC-3[2]	10/06/94	24.42	--	18.58	--	nm	5.84
BC-3[2]	11/02/94	24.42	--	18.61	--	nm	5.81
BC-3[2]	12/07/94	24.42	--	16.29	--	nm	8.13
BC-3[2]	01/13/95	24.42	--	15.40	--	nm	9.02

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
BC-3[2]	02/14/95	24.42	--	15.86	--	nm	8.56
BC-3[2]	03/07/95	24.42	--	16.21	--	nm	8.21
BC-3[2]	04/11/95	24.42	--	15.08	--	nm	9.34
BC-3[2]	05/09/95	24.42	--	16.92	--	nm	7.50
BC-3[2]	06/09/95	24.42	--	16.90	--	nm	7.52
BC-3[2]	07/06/95	24.42	--	16.87	--	nm	7.55
BC-3[2]	08/10/95	24.42	--	17.54	--	nm	6.88
BC-3[2]	09/07/95	24.42	--	17.80	--	nm	6.62
BC-3[2]	10/03/95	24.42	--	17.95	--	nm	6.47
BC-3[2]	10/05/95	24.42	--	17.95	--	nm	6.47
BC-3[2]	11/02/95	24.42	--	18.33	--	nm	6.09
BC-3[2]	01/03/96	24.42	--	17.55	--	nm	6.87
BC-3[2]	02/06/96	24.42	--	17.15	--	nm	7.27
BC-3[2]	03/12/96	24.42	--	16.50	--	nm	7.92
BC-3[2]	04/09/96	24.42	--	16.60	--	nm	7.82
BC-3[2]	05/07/96	24.42	--	16.90	--	nm	7.52
BC-3[2]	06/05/96	24.42	--	17.00	--	nm	7.42
BC-3[2]	07/09/96	24.42	--	17.40	--	nm	7.02
BC-3[2]	10/08/96	24.42	--	18.10	--	nm	6.32
BC-3[2]	11/08/96	24.42	--	18.20	--	nm	6.22
BC-3[2]	12/13/96	24.42	--	17.60	--	nm	6.82
BC-3[2]	09/24/08	24.42	--	17.01	--	20.11	--
BC-3[2]	04/08/09	24.42	--	14.93	--	20.15	na
ES-1	01/16/97	24.11	--	16.79	--	nm	7.32
ES-1	02/14/97	24.11	--	16.53	--	nm	7.58
ES-1	03/07/97	24.11	--	17.01	--	nm	7.10
ES-1	04/17/97	24.11	--	18.13	--	nm	5.98
ES-1	07/15/97	24.11	--	18.44	--	nm	5.67
ES-1	10/07/97	24.11	18.36	18.37	0.01	nm	5.75
ES-1	09/24/08	24.11	--	16.46	--	30.13	7.65
ES-1	04/08/09	24.11	--	14.75	--	30.15	9.36
ES-2	06/16/92	24.66	18.63	18.64	0.01	nm	6.03
ES-2	07/07/92	24.66	--	19.62	--	nm	5.04
ES-2	08/04/92	24.66	19.17	19.76	0.59	nm	5.38
ES-2	08/31/92	24.66	19.29	19.90	0.61	nm	5.25
ES-2	10/06/92	24.66	19.41	20.00	0.59	nm	5.14
ES-2	11/06/92	24.66	18.84	19.44	0.60	nm	5.71
ES-2	01/07/93	24.66	20.05	20.40	0.35	nm	4.54
ES-2	04/06/93	24.66	18.20	18.31	0.11	nm	6.44
ES-2	07/03/93	24.66	19.31	19.32	0.01	nm	5.35
ES-2	08/04/93	24.66	19.15	19.18	0.03	nm	5.50
ES-2	09/01/93	24.66	19.50	19.59	0.09	nm	5.14
ES-2	10/07/93	24.66	19.57	19.60	0.03	nm	5.08
ES-2	11/02/93	24.66	19.60	19.61	0.01	nm	5.06
ES-2	12/06/93	24.66	19.71	19.74	0.03	nm	4.94
ES-2	01/05/94	24.66	19.57	19.61	0.04	nm	5.08
ES-2	02/02/94	24.66	19.20	19.25	0.05	nm	5.45
ES-2	03/02/94	24.66	19.00	19.50	0.50	nm	5.57
ES-2	04/07/94	24.66	19.10	19.19	0.09	nm	5.54
ES-2	05/05/94	24.66	18.77	18.79	0.02	nm	5.89
ES-2	06/07/94	24.66	--	18.61	--	nm	6.05
ES-2	07/13/94	24.66	--	18.78	--	nm	5.88
ES-2	08/03/94	24.66	--	18.72	--	nm	5.94
ES-2	09/14/94	24.66	19.10	19.14	0.04	nm	5.55
ES-2	10/06/94	24.66	--	18.86	--	nm	5.80
ES-2	11/02/94	24.66	18.97	19.91	0.94	nm	5.51
ES-2	12/07/94	24.66	--	18.14	--	nm	6.52
ES-2	01/13/95	24.66	--	18.86	--	nm	5.80
ES-2	02/14/95	24.66	--	16.92	--	nm	7.74
ES-2	03/07/95	24.66	--	17.25	--	nm	7.41
ES-2	04/11/95	24.66	--	16.71	--	nm	7.95
ES-2	05/09/95	24.66	--	17.15	--	nm	7.51
ES-2	06/09/95	24.66	17.60	17.61	0.01	nm	7.06
ES-2	07/06/95	24.66	17.78	17.79	0.01	nm	6.88
ES-2	08/10/95	24.66	18.09	18.10	0.01	nm	6.57
ES-2	09/07/95	24.66	--	18.29	--	nm	6.37
ES-2	10/03/95	24.66	18.45	18.48	0.03	nm	6.20
ES-2	10/05/95	24.66	18.45	18.48	0.03	nm	6.20

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
ES-2	11/02/95	24.66	18.62	18.65	0.03	nm	6.03
ES-2	12/07/95	24.66	18.85	18.90	0.05	nm	5.80
ES-2	01/03/96	24.66	18.54	18.55	0.01	nm	6.12
ES-2	02/06/96	24.66	--	17.60	--	nm	7.06
ES-2	03/12/96	24.66	--	17.08	--	nm	7.58
ES-2	04/09/96	24.66	--	17.18	--	nm	7.48
ES-2	05/07/96	24.66	--	17.66	--	nm	7.00
ES-2	06/05/96	24.66	--	17.66	--	nm	7.00
ES-2	07/09/96	24.66	--	18.02	--	nm	6.64
ES-2	09/05/96	24.66	--	18.39	--	nm	6.27
ES-2	10/08/96	24.66	--	18.61	--	nm	6.05
ES-2	11/08/96	24.66	--	18.78	--	nm	5.88
ES-2	12/13/96	24.66	--	18.43	--	nm	6.23
ES-2	01/16/97	24.66	--	17.57	--	nm	7.09
ES-2	02/14/97	24.66	--	17.08	--	nm	7.58
ES-2	03/07/97	24.66	--	17.56	--	nm	7.10
ES-2	04/17/97	24.66	--	18.11	--	nm	6.55
ES-2	07/15/97	24.66	--	18.97	--	nm	5.69
ES-2	10/07/97	24.66	--	18.87	--	nm	5.79
ES-2	09/24/08	24.66	--	16.96	--	30.19	7.70
ES-2	04/08/09	24.66	--	15.25	--	31.15	9.41
ES-3	06/16/92	24.93	--	19.41	--	nm	5.52
ES-3	07/07/92	24.93	--	19.52	--	nm	5.41
ES-3	08/04/92	24.93	--	19.68	--	nm	5.25
ES-3	08/31/92	24.93	--	19.80	--	nm	5.13
ES-3	10/06/92	24.93	--	19.96	--	nm	4.97
ES-3	11/06/92	24.93	18.84	19.84	1.00	nm	5.90
ES-3	01/07/93	24.93	--	19.20	--	nm	5.73
ES-3	04/06/93	24.93	--	15.92	--	nm	9.01
ES-3	07/03/93	24.93	--	18.12	--	nm	6.81
ES-3	08/04/93	24.93	--	19.18	--	nm	5.75
ES-3	09/01/93	24.93	--	19.36	--	nm	5.57
ES-3	10/07/93	24.93	--	19.62	--	nm	5.31
ES-3	11/02/93	24.93	--	19.70	--	nm	5.23
ES-3	12/06/93	24.93	--	19.68	--	nm	5.25
ES-3	01/05/94	24.93	--	19.52	--	nm	5.41
ES-3	02/02/94	24.93	--	19.30	--	nm	5.63
ES-3	03/02/94	24.93	--	18.68	--	nm	6.25
ES-3	04/07/94	24.93	--	19.00	--	nm	5.93
ES-3	05/05/94	24.93	--	18.78	--	nm	6.15
ES-3	06/07/94	24.93	--	18.90	--	nm	6.03
ES-3	07/13/94	24.93	--	18.71	--	nm	6.22
ES-3	08/03/94	24.93	--	19.03	--	nm	5.90
ES-3	09/14/94	24.93	--	19.84	--	nm	5.09
ES-3	10/06/94	24.93	--	19.24	--	nm	5.69
ES-3	11/02/94	24.93	--	19.37	--	nm	5.56
ES-3	12/07/94	24.93	--	18.44	--	nm	6.49
ES-3	01/13/95	24.93	--	17.35	--	nm	7.58
ES-3	02/14/95	24.93	--	17.22	--	nm	7.71
ES-3	03/07/95	24.93	--	17.52	--	nm	7.41
ES-3	04/11/95	24.93	--	16.95	--	nm	7.98
ES-3	05/09/95	24.93	17.34	17.39	0.05	nm	7.58
ES-3	06/09/95	24.93	--	17.87	--	nm	7.06
ES-3	07/06/95	24.93	--	18.07	--	nm	6.86
ES-3	08/10/95	24.93	--	18.40	--	nm	6.53
ES-3	09/07/95	24.93	--	18.59	--	nm	6.34
ES-3	10/03/95	24.93	--	18.76	--	nm	6.17
ES-3	10/05/95	24.93	--	18.76	--	nm	6.17
ES-3	11/02/95	24.93	--	18.96	--	nm	5.97
ES-3	12/07/95	24.93	--	19.19	--	nm	5.74
ES-3	01/03/96	24.93	--	17.55	--	nm	7.38
ES-3	02/06/96	24.93	--	17.86	--	nm	7.07
ES-3	03/12/96	24.93	--	17.35	--	nm	7.58
ES-3	04/09/96	24.93	--	17.65	--	nm	7.28
ES-3	05/07/96	24.93	--	17.94	--	nm	6.99
ES-3	06/05/96	24.93	--	17.94	--	nm	6.99
ES-3	07/09/96	24.93	--	18.33	--	nm	6.60
ES-3	09/05/96	24.93	--	18.63	--	nm	6.30
ES-3	10/08/96	24.93	--	18.98	--	nm	5.95
ES-3	11/08/96	24.93	--	19.16	--	nm	5.77
ES-3	12/13/96	24.93	--	18.81	--	nm	6.12
ES-3	01/16/97	24.93	--	17.72	--	nm	7.21
ES-3	02/14/97	24.93	--	17.47	--	nm	7.46

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
ES-3	03/07/97	24.93	--	17.90	--	nm	7.03
ES-3	04/17/97	24.93	--	18.42	--	nm	6.51
ES-3	07/15/97	24.93	--	19.01	--	nm	5.92
ES-3	10/07/97	24.93	--	19.18	--	nm	5.75
ES-3	09/24/08	24.93	--	17.38	--	31.44	7.55
ES-3	04/08/09	24.93	--	15.65	--	31.55	9.28
ES-4	06/16/92	23.93	18.63	18.98	0.35	nm	5.23
ES-4	07/07/92	23.93	--	18.51	--	nm	5.42
ES-4	08/04/92	23.93	--	18.66	--	nm	5.27
ES-4	08/31/92	23.93	--	18.79	--	nm	5.14
ES-4	10/06/92	23.93	--	18.92	--	nm	5.01
ES-4	11/06/92	23.93	--	18.94	--	nm	4.99
ES-4	01/07/93	23.93	--	18.76	--	nm	5.17
ES-4	04/06/93	23.93	--	17.26	--	nm	6.67
ES-4	07/03/93	23.93	--	18.08	--	nm	5.85
ES-4	08/04/93	23.93	--	18.16	--	nm	5.77
ES-4	09/01/93	23.93	--	18.46	--	nm	5.47
ES-4	10/07/93	23.93	--	18.62	--	nm	5.31
ES-4	11/02/93	23.93	--	18.74	--	nm	5.19
ES-4	12/06/93	23.93	--	18.72	--	nm	5.21
ES-4	01/05/94	23.93	--	18.55	--	nm	5.38
ES-4	02/02/94	23.93	--	18.42	--	nm	5.51
ES-4	03/02/94	23.93	--	17.86	--	nm	6.07
ES-4	04/07/94	23.93	--	18.80	--	nm	5.13
ES-4	05/05/94	23.93	--	17.86	--	nm	6.07
ES-4	06/07/94	23.93	--	17.94	--	nm	5.99
ES-4	07/13/94	23.93	--	18.13	--	nm	5.80
ES-4	08/03/94	23.93	--	17.94	--	nm	5.99
ES-4	09/14/94	23.93	--	18.18	--	nm	5.75
ES-4	10/06/94	23.93	--	18.25	--	nm	5.68
ES-4	11/02/94	23.93	--	18.35	--	nm	5.58
ES-4	12/07/94	23.93	--	17.56	--	nm	6.37
ES-4	01/13/95	23.93	--	16.77	--	nm	7.16
ES-4	02/14/95	23.93	--	16.37	--	nm	7.56
ES-4	03/07/95	23.93	--	16.66	--	nm	7.27
ES-4	04/11/95	23.93	--	16.14	--	nm	7.79
ES-4	05/09/95	23.93	--	16.57	--	nm	7.36
ES-4	06/09/95	23.93	--	17.02	--	nm	6.91
ES-4	07/06/95	23.93	--	17.19	--	nm	6.74
ES-4	08/10/95	23.93	--	17.84	--	nm	6.09
ES-4	09/07/95	23.93	--	17.68	--	nm	6.25
ES-4	10/03/95	23.93	--	17.84	--	nm	6.09
ES-4	10/05/95	23.93	--	17.84	--	nm	6.09
ES-4	11/02/95	23.93	--	18.02	--	nm	5.91
ES-4	12/07/95	23.93	--	18.23	--	nm	5.70
ES-4	01/03/96	23.93	--	17.87	--	nm	6.06
ES-4	02/06/96	23.93	--	17.02	--	nm	6.91
ES-4	03/12/96	23.93	--	16.54	--	nm	7.39
ES-4	04/09/96	23.93	--	16.76	--	nm	7.17
ES-4	05/07/96	23.93	--	16.17	--	nm	7.76
ES-4	06/05/96	23.93	--	17.05	--	nm	6.88
ES-4	07/09/96	23.93	--	17.37	--	nm	6.56
ES-4	09/05/96	23.93	--	17.74	--	nm	6.19
ES-4	10/08/96	23.93	--	17.97	--	nm	5.96
ES-4	11/08/96	23.93	--	18.13	--	nm	5.80
ES-4	12/13/96	23.93	--	17.83	--	nm	6.10
ES-4	01/16/97	23.93	--	16.92	--	nm	7.01
ES-4	02/14/97	23.93	--	16.56	--	nm	7.37
ES-4	03/07/97	23.93	--	16.95	--	nm	6.98
ES-4	04/17/97	23.93	--	17.45	--	nm	6.48
ES-4	07/15/97	23.93	--	18.05	--	nm	5.88
ES-4	10/07/97	23.93	--	18.23	--	nm	5.70
ES-4	09/24/08	23.93	--	16.20	--	29.94	7.73
ES-4	04/08/09	23.93	--	14.46	--	29.95	9.47
ES-5	06/16/92	24.08	18.40	20.40	2.00	nm	5.30
ES-5	07/07/92	24.08	--	20.23	--	nm	3.85
ES-5	08/04/92	24.08	18.16	20.43	2.27	nm	5.49
ES-5	08/31/92	24.08	18.24	20.80	2.56	nm	5.35
ES-5	10/06/92	24.08	18.24	21.37	3.13	nm	5.25
ES-5	11/06/92	24.08	17.60	20.92	3.32	nm	5.85
ES-5	01/05/93	24.08	18.42	19.75	1.33	nm	5.41

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
ES-5	01/07/93	24.08	19.35	22.00	2.65	nm	4.23
ES-5	04/06/93	24.08	--	17.28	--	nm	6.80
ES-5	07/03/93	24.08	--	19.50	--	nm	4.58
ES-5	08/04/93	24.08	--	18.61	--	nm	5.47
ES-5	09/01/93	24.08	18.79	18.80	0.01	nm	5.29
ES-5	10/07/93	24.08	18.65	19.33	0.68	nm	5.30
ES-5	11/02/93	24.08	18.91	19.45	0.54	nm	5.07
ES-5	12/06/93	24.08	18.78	19.25	0.47	nm	5.21
ES-5	02/02/94	24.08	18.18	19.98	1.80	nm	5.56
ES-5	03/02/94	24.08	18.07	18.30	0.23	nm	5.97
ES-5	04/07/94	24.08	18.37	18.38	0.01	nm	5.71
ES-5	05/05/94	24.08	18.24	18.26	0.02	nm	5.84
ES-5	06/07/94	24.08	18.26	18.27	0.01	nm	5.82
ES-5	07/13/94	24.08	--	18.30	--	nm	5.78
ES-5	08/03/94	24.08	--	17.90	--	nm	6.18
ES-5	09/14/94	24.08	18.41	18.42	0.01	nm	5.67
ES-5	10/06/94	24.08	--	18.23	--	nm	5.85
ES-5	11/02/94	24.08	--	18.47	--	nm	5.61
ES-5	12/07/94	24.08	--	17.45	--	nm	6.63
ES-5	01/13/95	24.08	--	18.23	--	nm	5.85
ES-5	02/14/95	24.08	--	16.45	--	nm	7.63
ES-5	03/07/95	24.08	--	16.53	--	nm	7.55
ES-5	04/11/95	24.08	--	16.00	--	nm	8.08
ES-5	05/09/95	24.08	--	16.45	--	nm	7.63
ES-5	06/09/95	24.08	--	16.90	--	nm	7.18
ES-5	07/06/95	24.08	--	17.09	--	nm	6.99
ES-5	08/10/95	24.08	--	17.44	--	nm	6.64
ES-5	09/07/95	24.08	--	17.61	--	nm	6.47
ES-5	10/03/95	24.08	--	18.74	--	nm	5.34
ES-5	10/05/95	24.08	--	18.74	--	nm	5.34
ES-5	11/02/95	24.08	--	17.98	--	nm	6.10
ES-5	12/07/95	24.08	18.21	18.22	0.01	nm	5.87
ES-5	01/03/96	24.08	--	17.89	--	nm	6.19
ES-5	02/06/96	24.08	--	16.76	--	nm	7.32
ES-5	03/12/96	24.08	--	16.36	--	nm	7.72
ES-5	04/09/96	24.08	--	16.70	--	nm	7.38
ES-5	05/07/96	24.08	--	16.95	--	nm	7.13
ES-5	06/05/96	24.08	--	16.95	--	nm	7.13
ES-5	07/09/96	24.08	--	17.34	--	nm	6.74
ES-5	01/16/97	24.08	--	16.68	--	nm	7.40
ES-5	02/14/97	24.08	--	16.43	--	nm	7.65
ES-5	03/07/97	24.08	--	16.90	--	nm	7.18
ES-5	04/17/97	24.08	--	17.41	--	nm	6.67
ES-5	07/15/97	24.08	--	18.29	--	nm	5.79
ES-5	10/07/97	24.08	--	18.48	--	nm	5.60
ES-5	0924/08	24.08	--	16.49	--	30.06	7.59
ES-5	04/08/09	24.08	--	14.75	--	30.13	9.33
ES-6	01/05/93	27.06	--	21.76	--	nm	5.30
ES-6	09/01/93	27.06	--	21.94	--	nm	5.12
ES-6	10/07/93	27.06	--	21.81	--	nm	5.25
ES-6	11/02/93	27.06	--	21.91	--	nm	5.15
ES-6	12/06/93	27.06	--	21.90	--	nm	5.16
ES-6	02/02/94	27.06	--	21.74	--	nm	5.32
ES-6	03/02/94	27.06	--	21.10	--	nm	5.96
ES-6	04/07/94	27.06	--	21.30	--	nm	5.76
ES-6	05/05/94	27.06	--	21.16	--	nm	5.90
ES-6	06/07/94	27.06	--	21.02	--	nm	6.04
ES-6	07/13/94	27.06	--	21.40	--	nm	5.66
ES-6	08/03/94	27.06	--	21.58	--	nm	5.48
ES-6	09/14/94	27.06	--	21.52	--	nm	5.54
ES-6	10/06/94	27.06	--	21.58	--	nm	5.48
ES-6	11/02/94	27.06	--	21.64	--	nm	5.42
ES-6	12/07/94	27.06	--	20.94	--	nm	6.12
ES-6	01/13/95	27.06	--	20.25	--	nm	6.81
ES-6	02/14/95	27.06	--	19.82	--	nm	7.24
ES-6	03/07/95	27.06	--	20.06	--	nm	7.00
ES-6	04/11/95	27.06	--	19.56	--	nm	7.50
ES-6	05/09/95	27.06	nd[4]	nd[4]	nd[4]	nm	nd[4]
ES-6	06/09/95	27.06	--	20.37	--	nm	6.69
ES-6	07/06/95	27.06	--	20.55	--	nm	6.51
ES-6	08/10/95	27.06	--	20.81	--	nm	6.25

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
Oakland, Alameda County, California
Green Star Project No. 09-1379

Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
ES-6	09/07/95	27.06	--	20.94	--	nm	6.12
ES-6	10/03/95	27.06	--	21.14	--	nm	5.92
ES-6	10/05/95	27.06	--	21.14	--	nm	5.92
ES-6	11/02/95	27.06	--	21.31	--	nm	5.75
ES-6	12/07/95	27.06	--	21.48	--	nm	5.58
ES-6	01/03/96	27.06	--	21.24	--	nm	5.82
ES-6	02/06/96	27.06	--	20.52	--	nm	6.54
ES-6	03/12/96	27.06	--	19.85	--	nm	7.21
ES-6	04/09/96	27.06	--	20.14	--	nm	6.92
ES-6	05/07/96	27.06	--	20.42	--	nm	6.64
ES-6	06/05/96	27.06	--	20.41	--	nm	6.65
ES-6	07/09/96	27.06	--	20.74	--	nm	6.32
ES-6	10/08/96	27.06	--	21.23	--	nm	5.83
ES-6	11/08/96	27.06	--	21.44	--	nm	5.62
ES-6	12/13/96	27.06	--	21.19	--	nm	5.87
ES-6	01/16/97	27.06	--	20.15	--	nm	6.91
ES-6	02/14/97	27.06	--	19.92	--	nm	7.14
ES-6	03/07/97	27.06	--	20.31	--	nm	6.75
ES-6	04/17/97	27.06	--	20.78	--	nm	6.28
ES-6	07/15/97	27.06	--	21.32	--	nm	5.74
ES-6	10/07/97	27.06	--	21.48	--	nm	5.58
ES-6	09/24/08	27.06	--	19.02	--	34.98	8.04
ES-6	04/08/09	27.06	--	17.39	--	35.00	9.67
ES-7	01/05/93	25.66	--	19.90	--	nm	5.76
ES-7	09/01/93	25.66	--	19.71	--	nm	5.95
ES-7	10/07/93	25.66	--	19.99	--	nm	5.67
ES-7	11/02/93	25.66	--	20.12	--	nm	5.54
ES-7	12/06/93	25.66	--	20.15	--	nm	5.51
ES-7	02/02/94	25.66	--	19.79	--	nm	5.87
ES-7	03/02/94	25.66	--	19.14	--	nm	6.52
ES-7	04/07/94	25.66	--	19.44	--	nm	6.22
ES-7	05/05/94	25.66	--	19.30	--	nm	6.36
ES-7	06/07/94	25.66	--	19.33	--	nm	6.33
ES-7	07/13/94	25.66	--	19.11	--	nm	6.55
ES-7	08/03/94	25.66	--	19.40	--	nm	6.26
ES-7	09/14/94	25.66	--	19.64	--	nm	6.02
ES-7	10/06/94	25.66	--	19.73	--	nm	5.93
ES-7	11/02/94	25.66	--	19.79	--	nm	5.87
ES-7	12/07/94	25.66	--	19.89	--	nm	5.77
ES-7	01/13/95	25.66	--	18.11	--	nm	7.55
ES-7	02/14/95	25.66	--	17.63	--	nm	8.03
ES-7	03/07/95	25.66	--	17.92	--	nm	7.74
ES-7	04/11/95	25.66	--	17.35	--	nm	8.31
ES-7	05/09/95	25.66	--	17.79	--	nm	7.87
ES-7	06/09/95	25.66	--	18.29	--	nm	7.37
ES-7	07/06/95	25.66	--	18.46	--	nm	7.20
ES-7	08/10/95	25.66	--	18.77	--	nm	6.89
ES-7	09/07/95	25.66	--	18.98	--	nm	6.68
ES-7	10/03/95	25.66	--	19.15	--	nm	6.51
ES-7	10/05/95	25.66	--	19.15	--	nm	6.51
ES-7	11/02/95	25.66	--	19.36	--	nm	6.30
ES-7	12/07/95	25.66	--	19.57	--	nm	6.09
ES-7	01/03/96	25.66	--	19.29	--	nm	6.37
ES-7	02/06/96	25.66	--	18.41	--	nm	7.25
ES-7	03/12/96	25.66	--	17.76	--	nm	7.90
ES-7	04/09/96	25.66	--	18.05	--	nm	7.61
ES-7	05/07/96	25.66	--	18.36	--	nm	7.30
ES-7	06/05/96	25.66	--	18.36	--	nm	7.30
ES-7	07/09/96	25.66	--	18.72	--	nm	6.94
ES-7	09/05/96	25.66	--	19.12	--	nm	6.54
ES-7	10/08/96	25.66	--	19.37	--	nm	6.29
ES-7	11/08/96	25.66	--	19.56	--	nm	6.10
ES-7	12/13/96	25.66	--	19.28	--	nm	6.38
ES-7	01/16/97	25.66	--	18.19	--	nm	7.47
ES-7	02/14/97	25.66	--	17.88	--	nm	7.78
ES-7	03/07/97	25.66	--	18.30	--	nm	7.36
ES-7	04/17/97	25.66	--	18.81	--	nm	6.85
ES-7	09/24/08	25.66	--	18.20	--	31.28	7.46
ES-7	04/08/09	25.66	--	16.52	--	31.29	9.14

Table 2b - Cumulative Summary of Groundwater Level Measurements
Greyhound Lines, Inc.
2103 San Pablo Ave.
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Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
ES-8	09/01/93	24.74	--	18.88	--	nm	5.86
ES-8	10/07/93	24.74	--	19.13	--	nm	5.61
ES-8	11/02/93	24.74	--	19.26	--	nm	5.48
ES-8	12/06/93	24.74	--	19.24	--	nm	5.50
ES-8	01/05/94	24.74	--	19.10	--	nm	5.64
ES-8	02/02/94	24.74	--	19.08	--	nm	5.66
ES-8	03/02/94	24.74	--	18.28	--	nm	6.46
ES-8	04/07/94	24.74	--	18.44	--	nm	6.30
ES-8	05/05/94	24.74	--	18.26	--	nm	6.48
ES-8	06/07/94	24.74	--	18.32	--	nm	6.42
ES-8	07/13/94	24.74	--	18.50	--	nm	6.24
ES-8	08/03/94	24.74	--	18.42	--	nm	6.32
ES-8	09/14/94	24.74	--	18.50	--	nm	6.24
ES-8	10/06/94	24.74	--	18.76	--	nm	5.98
ES-8	11/02/94	24.74	--	18.76	--	nm	5.98
ES-8	12/07/94	24.74	--	18.00	--	nm	6.74
ES-8	01/13/95	24.74	--	16.83	--	nm	7.91
ES-8	02/14/95	24.74	--	16.67	--	nm	8.07
ES-8	03/07/95	24.74	--	16.99	--	nm	7.75
ES-8	04/11/95	24.74	--	16.41	--	nm	8.33
ES-8	05/09/95	24.74	--	16.92	--	nm	7.82
ES-8	06/09/95	24.74	--	17.35	--	nm	7.39
ES-8	07/06/95	24.74	--	17.56	--	nm	7.18
ES-8	08/10/95	24.74	--	17.89	--	nm	6.85
ES-8	09/07/95	24.74	--	18.09	--	nm	6.65
ES-8	10/03/95	24.74	--	18.27	--	nm	6.47
ES-8	10/05/95	24.74	--	18.27	--	nm	6.47
ES-8	11/02/95	24.74	--	18.51	--	nm	6.23
ES-8	12/07/95	24.74	--	18.72	--	nm	6.02
ES-8	01/03/96	24.74	--	18.36	--	nm	6.38
ES-8	02/06/96	24.74	--	17.07	--	nm	7.67
ES-8	03/12/96	24.74	--	16.79	--	nm	7.95
ES-8	04/09/96	24.74	--	17.10	--	nm	7.64
ES-8	05/07/96	24.74	--	17.34	--	nm	7.40
ES-8	06/05/96	24.74	--	17.36	--	nm	7.38
ES-8	07/09/96	24.74	--	17.71	--	nm	7.03
ES-8	09/05/96	24.74	--	18.13	--	nm	6.61
ES-8	10/08/96	24.74	--	18.44	--	nm	6.30
ES-8	11/08/96	24.74	--	18.61	--	nm	6.13
ES-8	12/13/96	24.74	--	18.32	--	nm	6.42
ES-8	01/16/97	24.74	--	17.22	--	nm	7.52
ES-8	02/14/97	24.74	--	16.94	--	nm	7.80
ES-8	03/07/97	24.74	--	17.36	--	nm	7.38
ES-8	09/24/08	24.74	--	17.35	--	28.94	7.39
ES-8	04/08/09	24.74	--	15.64	--	28.80	9.10
ES-9	09/01/93	23.33	--	19.74	--	nm	3.59
ES-9	10/07/93	23.33	--	17.90	--	nm	5.43
ES-9	12/06/93	23.33	--	18.00	--	nm	5.33
ES-9	01/05/94	23.33	--	17.80	--	nm	5.53
ES-9	02/02/94	23.33	--	17.02	--	nm	6.31
ES-9	03/02/94	23.33	--	17.12	--	nm	6.21
ES-9	04/07/94	23.33	--	17.24	--	nm	6.09
ES-9	05/05/94	23.33	--	17.04	--	nm	6.29
ES-9	06/07/94	23.33	--	17.06	--	nm	6.27
ES-9	07/13/94	23.33	--	17.40	--	nm	5.93
ES-9	08/03/94	23.33	--	17.10	--	nm	6.23
ES-9	09/14/94	23.33	--	17.09	--	nm	6.24
ES-9	10/06/94	23.33	--	17.46	--	nm	5.87
ES-9	11/02/94	23.33	--	17.55	--	nm	5.78
ES-9	12/07/94	23.33	--	16.79	--	nm	6.54
ES-9	01/13/95	23.33	--	15.80	--	nm	7.53
ES-9	02/14/95	23.33	--	15.49	--	nm	7.84
ES-9	03/07/95	23.33	--	15.79	--	nm	7.54
ES-9	04/11/95	23.33	--	15.23	--	nm	8.10
ES-9	05/09/95	23.33	--	15.72	--	nm	7.61
ES-9	06/09/95	23.33	--	16.13	--	nm	7.20
ES-9	07/06/95	23.33	--	16.34	--	nm	6.99
ES-9	08/10/95	23.33	--	16.67	--	nm	6.66
ES-9	09/07/95	23.33	--	16.87	--	nm	6.46
ES-9	10/03/95	23.33	--	17.09	--	nm	6.24

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ES-9	10/05/95	23.33	--	17.09	--	nm	6.24
ES-9	11/02/95	23.33	--	17.30	--	nm	6.03
ES-9	12/07/95	23.33	--	17.48	--	nm	5.85
ES-9	01/03/96	23.33	--	17.12	--	nm	6.21
ES-9	02/06/96	23.33	--	16.00	--	nm	7.33
ES-9	03/12/96	23.33	--	15.63	--	nm	7.70
ES-9	04/09/96	23.33	--	15.92	--	nm	7.41
ES-9	05/07/96	23.33	--	16.17	--	nm	7.16
ES-9	06/05/96	23.33	--	16.19	--	nm	7.14
ES-9	07/09/96	23.33	--	16.52	--	nm	6.81
ES-9	09/05/96	23.33	--	16.92	--	nm	6.41
ES-9	10/08/96	23.33	--	17.19	--	nm	6.14
ES-9	11/08/96	23.33	--	17.37	--	nm	5.96
ES-9	12/13/96	23.33	--	17.09	--	nm	6.24
ES-9	01/16/97	23.33	--	15.99	--	nm	7.34
ES-9	02/14/97	23.33	--	15.71	--	nm	7.62
ES-9	03/07/97	23.33	--	16.12	--	nm	7.21
ES-9	04/17/97	23.33	--	16.66	--	nm	6.67
ES-9	09/24/08	23.33	--	15.88	--	34.91	7.45
ES-9	04/08/09	23.33	--	14.14	--	34.97	9.19
ES-10	09/01/93	95.24	--	18.04	--	nm	77.20
ES-10	10/07/93	95.24	--	17.40	--	nm	77.84
ES-10	11/02/93	95.24	--	17.46	--	nm	77.78
ES-10	12/06/93	95.24	--	17.44	--	nm	77.80
ES-10	01/05/94	95.24	--	17.27	--	nm	77.97
ES-10	02/02/94	95.24	--	17.25	--	nm	77.99
ES-10	03/02/94	95.24	--	16.61	--	nm	78.63
ES-10	04/07/94	95.24	--	16.74	--	nm	78.50
ES-10	05/05/94	95.24	--	16.55	--	nm	78.69
ES-10	06/07/94	95.24	--	17.50	--	nm	77.74
ES-10	07/13/94	95.24	--	16.10	--	nm	79.14
ES-10	08/03/94	95.24	--	16.20	--	nm	79.04
ES-10	09/14/94	95.24	--	16.48	--	nm	78.76
ES-10	10/06/94	95.24	--	16.96	--	nm	78.28
ES-10	11/02/94	95.24	--	17.05	--	nm	78.19
ES-10	12/07/94	95.24	--	16.29	--	nm	78.95
ES-10	01/13/95	95.24	--	15.42	--	nm	79.82
ES-10	02/14/95	95.24	--	15.05	--	nm	80.19
ES-10	03/07/95	95.24	--	15.34	--	nm	79.90
ES-10	04/11/95	95.24	--	14.82	--	nm	80.42
ES-10	05/09/95	95.24	--	15.26	--	nm	79.98
ES-10	06/09/95	95.24	--	15.70	--	nm	79.54
ES-10	07/06/95	95.24	--	15.89	--	nm	79.35
ES-10	08/10/95	95.24	--	16.21	--	nm	79.03
ES-10	09/07/95	95.24	--	16.42	--	nm	78.82
ES-10	10/03/95	95.24	--	16.59	--	nm	78.65
ES-10	10/05/95	95.24	--	16.59	--	nm	78.65
ES-10	11/02/95	95.24	--	16.77	--	nm	78.47
ES-10	12/07/95	95.24	--	16.97	--	nm	78.27
ES-10	01/03/96	95.24	--	16.61	--	nm	78.63
ES-10	02/06/96	95.24	--	15.71	--	nm	79.53
ES-10	03/12/96	95.24	--	17.35	--	nm	77.89
ES-10	04/09/96	95.24	--	15.44	--	nm	79.80
ES-10	05/07/96	95.24	--	15.75	--	nm	79.49
ES-10	06/05/96	95.24	--	17.75	--	nm	77.49
ES-10	07/09/96	95.24	--	18.04	--	nm	77.20
ES-10	09/05/96	95.24	--	16.45	--	nm	78.79
ES-10	10/08/96	95.24	--	16.70	--	nm	78.54
ES-10	11/08/96	95.24	--	16.87	--	nm	78.37
ES-10	12/13/96	95.24	--	16.55	--	nm	78.69
ES-10	01/16/97	95.24	--	15.49	--	nm	79.75
ES-10	02/14/97	95.24	--	15.23	--	nm	80.01
ES-10	03/07/97	95.24	--	15.67	--	nm	79.57
ES-10	04/17/97	95.24	--	16.18	--	nm	79.06
ES-10[3]	09/24/08	--	nm	nm	nm	nm	nm

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Well No.	Date	Elevation to Top of Casing (feet MSL)[1]	Depth to Phase-Separated Liquid (feet BMP)	Depth to Water (feet BMP)	Product Thickness (feet)	Depth to Bottom (feet BMP)	Groundwater Elevation (feet MSL)
ES-11	09/01/93	24.08	--	18.74	--	nm	5.34
ES-11	10/07/93	24.08	--	18.90	--	nm	5.18
ES-11	11/02/93	24.08	--	19.00	--	nm	5.08
ES-11	12/06/93	24.08	--	19.02	--	nm	5.06
ES-11	01/05/94	24.08	--	18.86	--	nm	5.22
ES-11	02/02/94	24.08	--	18.74	--	nm	5.34
ES-11	03/02/94	24.08	--	18.14	--	nm	5.94
ES-11	04/07/94	24.08	--	18.38	--	nm	5.70
ES-11	05/05/94	24.08	--	18.15	--	nm	5.93
ES-11	06/07/94	24.08	--	18.28	--	nm	5.80
ES-11	07/13/94	24.08	--	18.60	--	nm	5.48
ES-11	08/03/94	24.08	--	18.18	--	nm	5.90
ES-11	09/14/94	24.08	--	18.47	--	nm	5.61
ES-11	10/06/94	24.08	--	18.55	--	nm	5.53
ES-11	11/02/94	24.08	--	18.64	--	nm	5.44
ES-11	12/07/94	24.08	--	17.49	--	nm	6.59
ES-11	01/13/95	24.08	--	17.16	--	nm	6.92
ES-11	02/14/95	24.08	--	16.76	--	nm	7.32
ES-11	03/07/95	24.08	--	17.04	--	nm	7.04
ES-11	04/11/95	24.08	--	16.54	--	nm	7.54
ES-11	05/09/95	24.08	--	16.95	--	nm	7.13
ES-11	06/09/95	24.08	--	17.34	--	nm	6.74
ES-11	07/06/95	24.08	--	17.54	--	nm	6.54
ES-11	08/10/95	24.08	--	17.85	--	nm	6.23
ES-11	09/07/95	24.08	--	18.03	--	nm	6.05
ES-11	10/03/95	24.08	--	18.20	--	nm	5.88
ES-11	10/05/95	24.08	--	18.20	--	nm	5.88
ES-11	11/02/95	24.08	--	18.38	--	nm	5.70
ES-11	12/07/95	24.08	--	18.59	--	nm	5.49
ES-11	01/03/96	24.08	--	18.21	--	nm	5.87
ES-11	02/06/96	24.08	--	17.45	--	nm	6.63
ES-11	03/12/96	24.08	--	16.83	--	nm	7.25
ES-11	04/09/96	24.08	--	17.13	--	nm	6.95
ES-11	05/07/96	24.08	--	17.42	--	nm	6.66
ES-11	06/05/96	24.08	--	17.42	--	nm	6.66
ES-11	07/09/96	24.08	--	17.71	--	nm	6.37
ES-11	09/05/96	24.08	--	18.07	--	nm	6.01
ES-11	10/08/96	24.08	--	18.29	--	nm	5.79
ES-11	11/08/96	24.08	--	18.45	--	nm	5.63
ES-11	12/13/96	24.08	--	18.09	--	nm	5.99
ES-11	01/16/97	24.08	--	17.10	--	nm	6.98
ES-11	02/14/97	24.08	--	16.90	--	nm	7.18
ES-11	03/07/97	24.08	--	17.30	--	nm	6.78
ES-11	04/17/97	24.08	--	17.80	--	nm	6.28
ES-11	09/24/08	24.08	--	16.29	--	35.00	7.79
ES-11	04/08/09	24.08	--	14.59	--	35.05	9.49

nm = not measured nd = not determined -- = none detected BM P = Below Measuring Point

Note: 1) On April 8, 2009, the well network was surveyed according to the North American Datum, 1983 (NAD 83) coordinate system.
2) Well casings are not vertical.
3) Monitoring well ES-10 has been paved over and is not accessible.
4) Data not entered due to apparent typographical error in previous consultant's findings.

Table 3a - Summary of Groundwater Analytical Results (April 2009)
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	ETBE	TAME	DIPE	EDC	EDB	TBA	Ethanol	TPH-g	TPH-d	TPH-o
BC-1	04/09/09	**0.130**	0.020	0.017	0.033	0.200	0.006	<0.0003	<0.00014	0.00058 J	0.074	<0.00023	**0.00027 J**	<0.017	<0.074	**3.70**	**2.10**	<0.033
BC-2	04/09/09	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
BC-3	04/09/09	**0.006**	0.0008 J	0.0008 J	0.0012 J	0.009	0.005	<0.0003	<0.00014	0.00052 J	0.00043 J	<0.00023	<0.00017	<0.017	<0.074	0.018 J	<0.024	0.880
ES-1	04/09/09	**0.260**	0.029	0.027	0.049	0.365	**0.025**	<0.0003	<0.00014	<0.00014	0.066	0.00047 J	**0.00037 J**	<0.017	<0.074	**3.60**	**2.40**	<0.036
ES-2	04/09/09	**0.690**	0.059	0.027 J	0.072	0.848	0.008 J	<0.0032	<0.0014	0.0056 J	0.110	<0.0023	<0.0017	<0.170	<0.740	**7.50**	**2.20**	<0.038
ES-3	04/09/09	**0.340**	0.091	0.180	0.372	0.983	**0.083**	<0.0016	<0.00071	<0.00068	0.096	<0.0011	<0.00086	<0.084	<0.370	**9.70**	**2.60**	<0.032
ES-4	04/09/09	**0.008**	0.0008 J	0.0016 J	0.0025 J	0.013	0.0007 J	<0.0003	<0.00014	0.00054 J	0.020	<0.00023	<0.00017	<0.017	<0.074	**0.520**	**0.640**	<0.034
ES-5	04/09/09	**0.590**	**0.150**	0.230	0.248	1.22	**0.100**	<0.0032	<0.0014	0.0059 J	0.030 J	<0.0023	<0.0017	<0.170	<0.740	**10.0**	**3.70**	<0.033
ES-6	04/08/09	<0.0001	<0.0002	<0.0001	<0.0001	BDL	<0.0001	<0.0003	<0.00014	0.00055 J	0.00093 J	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.022	0.170
ES-7	04/08/09	<0.0001	<0.0002	<0.0001	<0.0001	BDL	<0.0001	<0.0003	<0.00014	0.00053 J	<0.00015	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.023	0.690
ES-8	04/08/09	**0.015**	0.0014 J	0.002 J	0.0027 J	0.021	0.0003 J	<0.0003	<0.00014	<0.00014	0.056	<0.00023	<0.00017	<0.017	<0.074	**2.30**	**1.60**	<0.033
ES-9	04/08/09	<0.0001	<0.0002	<0.0001	<0.0001	BDL	<0.0001	<0.0003	<0.00014	0.00055 J	0.00056 J	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.023	0.210
ES-10	04/09/09	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne
ES-11	04/09/09	**0.0025 J**	0.0009 J	0.0017 J	0.0030 J	0.008	0.0011 J	<0.0003	<0.00014	0.00052 J	0.00025 J	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.025	0.200
City of Oakland Urban Land Redevelopment (ULR) Tier 1 Risk Based Screening Levels (RBSLs)		**0.001**	**0.150**	**0.700**	**1.80**	ne	**0.020**	**0.013**	ne	ne	ne	**0.0005**	**0.00005**	ne	ne	ne	ne	ne
City of Oakland ULR Tier 2 RBSLs (Merritt Sands Area)		**0.001**	**0.150**	**0.700**	**1.80**	ne	**0.020**	**0.013**	ne	ne	ne	**0.0005**	**0.00005**	ne	ne	ne	ne	ne
San Francisco Bay RWQCB Environmental Screening Levels (ESLs)		**0.001**	**0.040**	**0.030**	**0.020**	ne	**0.017**	**0.005**	ne	ne	ne	**0.0005**	**0.00005**	**0.012**	ne	**0.100**	**0.100**	ne

Analytical test results are reported in milligrams per liter (mg/L).
Bolded results indicate detected concentrations exceeded City of Oakland RBSLs and/or RWQCB ESLs, as applicable.
ne = not established ns = not sampled dne = does not exist <, BDL = below laboratory detection limits
J = reported result is between the MDL and PQL

Table 3b - Cumulative Summary of Groundwater Analytical Results
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	ETBE	TAME	DIPE	EDC	EDB	TBA	Ethanol	TPH-d	TPH-g	TPH-o	Total PAHs
BC-1	04/17/97	**0.160**	**0.072**	**0.035**	**0.093**	**0.360**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.640**	**0.200**	nt	nt
	07/15/97	**0.520**	**0.130**	**0.170**	**0.290**	**1.11**	nt	**0.100**	nt	nt	nt	nt	nt	nt	nt	**95.0**	**11.0**	nt	**0.203**
	10/07/97	**0.310**	**0.600**	**0.370**	**1.90**	**3.18**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**484**	**31.0**	nt	**4.34**
	09/25/08	**0.220**	**0.022**	**0.032**	**0.038**	**0.312**	**0.016**	<0.00031	<0.00014	**0.00026 J**	**0.082**	<0.00024	**0.00039 J**	<0.006	<0.074	**2.00**	**3.70**	<0.290	nt
	04/09/09	**0.130**	**0.020**	**0.017**	**0.033**	**0.200**	**0.006**	<0.0003	<0.00014	**0.00058 J**	**0.074**	<0.00023	**0.00027 J**	<0.017	<0.074	**3.70**	**2.10**	<0.033	nt
BC-2	07/08/92	BDL	BDL	BDL	**0.008**	**0.008**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**2.10**	nt	nt	nt
	10/06/92	BDL	**0.001**	**0.001**	**0.007**	**0.009**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/07/93	BDL	**0.001**	**0.002**	**0.010**	**0.012**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	04/06/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.130**	BDL	nt	nt
	07/23/93	**0.001**	**0.002**	**0.002**	**0.008**	**0.013**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.500**	<0.500	nt	BDL
	10/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.40**	nt	nt	nt
	01/05/94	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
	04/07/94	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
	07/13/94	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
	10/06/94	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.10**	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.290**	BDL	nt	nt
	10/05/95	**0.001**	BDL	BDL	**0.001**	**0.002**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.50**	BDL	nt	nt
	04/17/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.050**	BDL	nt	nt
	07/15/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.680**	BDL	nt	BDL
	10/07/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.920**	BDL	nt	BDL
	09/24/08	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	04/09/09	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
BC-3	07/08/92	BDL	**0.003**	BDL	**0.006**	**0.009**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**3.90**	nt	nt	nt
	10/06/92	BDL	**0.002**	**0.001**	**0.002**	**0.004**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.800**	nt	nt	nt
	01/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	04/06/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.120**	BDL	nt	nt
	07/23/93	**0.003**	**0.004**	**0.002**	**0.008**	**0.018**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**nt***	BDL	nt	nt
	10/07/93	BDL	BDL	**0.0001**	**0.002**	**0.003**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.40**	nt	nt	nt
	01/05/94	BDL	BDL	BDL	**0.002**	**0.002**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.80**	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.850**	BDL	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.200**	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.820**	BDL	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.890**	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.380**	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/17/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/15/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.490**	BDL	nt	BDL
	10/07/97	BDL	BDL	**0.002**	**0.002**	**0.003**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**1.34**	**0.051**	nt	BDL
	09/25/08	<0.0004	**0.0006 J**	**0.0006 J**	<0.0003	**0.0012**	<0.0003	<0.00031	<0.00014	**0.0007 J**	<0.00036	<0.00024	<0.00031	<0.006	<0.074	<0.021	<0.084	**1.30**	nt
	04/09/09	**0.006**	**0.0008 J**	**0.0008 J**	**0.0012 J**	**0.009**	0.005	<0.0003	<0.00014	**0.00052 J**	**0.00043 J**	<0.00023	<0.00017	<0.017	<0.074	**0.018 J**	<0.024	**0.880**	nt
ES-1	11/19/91	**0.130**	**0.043**	**0.010**	**0.091**	**0.274**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	04/17/97	**0.110**	**0.018**	**0.007**	**0.045**	**0.180**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	BDL	**1.00**	nt	nt
	07/16/97	**0.076**	**0.008**	**0.011**	**0.025**	**0.120**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**1.20**	**0.960**	nt	**0.014**
	10/07/97	**0.049**	**0.034**	**0.011**	**0.023**	**0.100**	nt	**0.014**	nt	nt	nt	nt	nt	nt	nt	**2.77**	**1.70**	nt	**0.010**
	09/25/08	**0.140**	**0.009**	**0.014**	**0.016**	**0.179**	**0.011**	<0.00031	<0.00014	<0.00026	**0.130**	**0.00049 J**	<0.00031	<0.006	<0.074	**2.50**	**2.90**	<0.290	nt
	04/09/09	**0.260**	**0.029**	**0.027**	**0.049**	**0.365**	**0.025**	<0.00032	<0.00014	<0.00014	**0.066**	**0.00047 J**	**0.00037 J**	<0.017	<0.074	**3.60**	**2.40**	<0.036	nt

Table 3b - Cumulative Summary of Groundwater Analytical Results
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	ETBE	TAME	DIPE	EDC	EDB	TBA	Ethanol	TPH-d	TPH-g	TPH-o	Total PAHs
ES-2	11/19/91	**0.390**	**0.096**	**0.078**	**0.310**	**0.874**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	04/17/97	**0.340**	**0.110**	**0.110**	**0.240**	**0.800**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**1.80**	**3.80**	nt	nt
	07/15/97	**0.190**	**0.140**	**0.073**	**0.250**	**0.653**	nt	**0.081**	nt	nt	nt	nt	nt	nt	nt	**16.0**	**3.70**	nt	**0.194**
	10/07/97	**0.190**	**0.046**	**0.046**	**0.070**	**0.352**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**8.04**	**7.20**	nt	**0.993**
	09/25/08	**0.700**	**0.053**	**0.029**	**0.084**	**0.866**	**0.010**	<0.00031	<0.00014	**0.00041 J**	**0.100**	**0.00038 J**	<0.00031	<0.006	<0.074	**1.50**	**6.00**	nt	<0.290
	04/09/09	**0.690**	**0.059**	**0.027 J**	**0.072**	**0.848**	**0.008 J**	<0.0032	<0.0014	**0.0056 J**	**0.110**	<0.0023	<0.0017	<0.170	<0.740	**7.50**	**2.20**	<0.038	nt
ES-3	11/19/91	**0.061**	**0.016**	**0.014**	**0.033**	**0.124**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**BDL**	nt	nt	nt
	07/08/92	**0.051**	**0.021**	**0.048**	**0.034**	**0.157**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.30**	nt	nt	nt
	10/06/92	**0.093**	**0.018**	BDL	**0.011**	**0.122**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/07/93	**0.052**	**0.049**	**0.100**	**0.250**	**0.451**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	04/06/93	**0.053**	BDL	**0.067**	**0.078**	**0.198**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.510**	**4.50**	nt	nt
	07/23/93	**0.028**	**0.006**	**0.005**	**0.005**	**0.043**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.600**	**1.50**	nt	nt
	10/07/93	**0.002**	**0.001**	BDL	**0.002**	**0.005**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	**0.013**	**0.002**	**0.007**	**0.005**	**0.027**	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.530**	nt	nt
	04/07/94	**0.010**	**0.009**	**0.026**	**0.034**	**0.079**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.910**	**0.850**	nt	nt
	07/13/94	**0.002**	**0.001**	**0.001**	**0.003**	**0.007**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.280**	**0.370**	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/13/95	**0.019**	**0.015**	**0.072**	**0.088**	**0.194**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.10**	**1.60**	nt	nt
	04/11/95	**0.020**	**0.007**	**0.036**	**0.022**	**0.085**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.390**	**0.940**	nt	nt
	07/06/95	**0.006**	BDL	**0.007**	BDL	**0.013**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.20**	**0.240**	nt	nt
	10/05/95	**0.002**	**0.002**	BDL	BDL	**0.004**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.110**	BDL	nt	nt
	01/05/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.120**	nt	nt	nt
	07/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/08/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/16/97	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.051**	nt	nt
	04/17/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.120**	BDL	nt	nt
	07/15/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.170**	BDL	nt	BDL
	10/07/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.205**	BDL	nt	BDL
	09/24/08	**0.230**	**0.017**	**0.023**	**0.048**	**0.318**	**0.028**	<0.00031	<0.00014	**0.00028 J**	**0.110**	**0.00078 J**	<0.00031	<0.006	<0.074	**1.40**	**3.00**	<0.290	nt
	04/09/09	**0.340**	**0.091**	**0.180**	**0.372**	**0.983**	**0.083**	<0.0016	<0.00071	<0.00068	**0.096**	<0.0011	<0.00086	<0.084	<0.370	**9.70**	**2.60**	<0.032	nt
ES-4	11/19/91	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	07/08/92	**0.031**	**0.006**	BDL	**0.003**	**0.039**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	10/06/92	**0.100**	**0.008**	BDL	**0.008**	**0.116**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/07/93	**0.030**	**0.007**	**0.008**	**0.016**	**0.060**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	04/06/93	**0.033**	**0.002**	**0.002**	**0.005**	**0.042**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.360**	nt	nt
	07/23/93	**0.024**	**0.001**	**0.001**	**0.008**	**0.034**	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	**0.008**	BDL	BDL	**0.002**	**0.010**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	**0.015**	**0.001**	**0.0004**	**0.003**	**0.019**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.130**	nt	nt
	04/07/94	**0.011**	BDL	BDL	BDL	**0.011**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.170**	nt	nt
	07/13/94	**0.009**	BDL	BDL	**0.001**	**0.010**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.130**	nt	nt
	10/06/94	**0.018**	BDL	**0.002**	**0.003**	**0.023**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.100**	nt	nt
	01/13/95	**0.012**	BDL	BDL	**0.002**	**0.014**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.150**	nt	nt
	04/11/95	**0.039**	**0.004**	**0.012**	**0.024**	**0.079**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.180**	nt	nt
	07/06/95	**0.100**	**0.010**	**0.026**	**0.061**	**0.197**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.160**	**0.600**	nt	nt
	10/05/95	**0.210**	**0.016**	**0.071**	**0.084**	**0.381**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.170**	**1.20**	nt	nt
	01/05/96	**0.034**	BDL	**0.005**	**0.004**	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.120**	nt	nt
	04/09/96	**0.057**	**0.003**	**0.017**	**0.019**	**0.096**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	07/09/96	**0.043**	**0.005**	**0.021**	**0.017**	**0.086**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.220**	nt	nt
	10/08/96	**0.110**	**0.004**	**0.042**	**0.039**	**0.195**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.860**	nt	nt
	01/16/97	**0.005**	BDL	BDL	**0.001**	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.059**	nt	nt
	04/17/97	**0.087**	**0.011**	**0.049**	**0.024**	**0.171**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.100**	BDL	nt	nt
	07/15/97	**0.110**	**0.011**	**0.042**	**0.040**	**0.203**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.370**	**0.920**	nt	**0.0**
	10/07/97	**0.011**	BDL	**0.028**	**0.023**	**0.016**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.101**	**0.120**	nt	**0.024**
	09/25/08	<0.0004	<0.0003	<0.0003	<0.0003	BDL	<0.0003	<0.00031	<0.00014	**0.0007 J**	**0.007 J**	<0.00024	<0.00031	<0.006	<0.074	**0.091**	**0.069**	nt	<0.029
	04/09/09	**0.008**	**0.0008 J**	**0.0016 J**	**0.0025 J**	**0.013**	**0.0007 J**	<0.0003	<0.00014	**0.00054 J**	**0.020**	<0.00023	<0.00017	<0.017	<0.074	**0.520**	**0.640**	<0.034	nt

Table 3b - Cumulative Summary of Groundwater Analytical Results
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	ETBE	TAME	DIPE	EDC	EDB	TBA	Ethanol	TPH-d	TPH-g	TPH-o	Total PAHs
ES-5	11/19/91	**2.10**	**3.90**	**0.840**	**6.00**	**12.8**	nt	nt	nt	nt	nt	nt	nt	nt	nt	**950**	nt	nt	nt
	04/17/97	**0.590**	**1.20**	**0.180**	**1.00**	**2.97**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**1.60**	**2.40**	nt	nt
	07/16/97	**0.810**	**1.80**	**0.430**	**1.80**	**9.68**	nt	**0.350**	nt	nt	nt	nt	nt	nt	nt	**15.0**	**27.0**	nt	**216**
	10/07/97	**0.260**	**0.470**	**0.160**	**0.590**	**1.48**	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**6.51**	**15.0**	nt	**0.424**
	09/25/08	**0.970**	**0.190**	**0.400**	**0.350**	**1.91**	**0.180**	<0.00031	<0.00014	<0.00026	**0.150**	**0.00057 J**	<0.00031	<0.006	<0.074	**1.90**	**12.0**	<0.290	nt
	04/09/09	**0.590**	**0.150**	**0.230**	**0.248**	**1.22**	**0.100**	<0.0032	<0.0014	**0.0059 J**	**0.030 J**	<0.0023	<0.0017	<0.170	<0.740	**10.0**	**3.70**	<0.033	nt
ES-6	07/23/93	<0.0003	<0.0003	<0.0003	<0.0006	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	**0.001**	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.160**	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	**0.002**	**0.002**	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/05/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.220**	nt	nt	nt
	07/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/08/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/16/97	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/17/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.120**	BDL	nt	nt
	07/15/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.060**	BDL	nt	BDL
	10/07/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	BDL
	09/24/08	<0.0004	<0.0003	<0.0003	<0.0003	BDL	**0.0005 J**	<0.00031	<0.00014	**0.00065 J**	**0.003 J**	<0.00024	<0.00031	<0.006	<0.074	**0.068**	<0.017	<0.290	nt
	04/08/09	<0.0001	<0.0002	<0.0001	<0.0001	BDL	<0.0001	<0.0003	<0.00014	**0.00055 J**	**0.00093 J**	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.022	**0.170**	nt
ES-7	07/23/93	<0.0003	<0.0003	<0.0003	<0.0006	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.100**	**0.110**	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/17/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	**0.060**	BDL	nt	nt
	09/24/08	<0.0004	<0.0003	<0.0003	<0.0003	BDL	<0.0003	<0.00031	<0.00014	**0.00066 J**	<0.00036	<0.00024	<0.00031	<0.006	<0.074	<0.002	<0.017	**0.150**	nt
	04/08/09	<0.0001	<0.0002	<0.0001	<0.0001	BDL	<0.0001	<0.0003	<0.00014	**0.00053 J**	<0.00015	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.023	**0.690**	nt
ES-8	07/23/93	<0.0003	<0.0003	<0.0003	<0.0006	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	09/24/08	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	04/08/09	**0.015**	**0.0014 J**	**0.002 J**	**0.0027 J**	**0.021**	**0.0003 J**	<0.0003	<0.00014	<0.00014	**0.056**	<0.00023	<0.00017	<0.017	<0.074	**2.30**	**1.60**	<0.033	nt

Table 3b - Cumulative Summary of Groundwater Analytical Results
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Naphthalene	MTBE	ETBE	TAME	DIPE	EDC	EDB	TBA	Ethanol	TPH-d	TPH-g	TPH-o	Total PAHs
ES-9	07/23/93	<0.0003	<0.0003	<0.0003	<0.0006	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**1.10**	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	09/24/08	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	04/08/09	<0.0001	<0.0002	<0.0001	<0.0001	BDL	<0.0001	<0.0003	<0.00014	**0.00055 J**	**0.00056 J**	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.023	**0.210**	nt
ES-10	07/23/93	<0.0003	<0.0003	<0.0003	<0.0006	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	09/24/08	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne
	04/09/09	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne	dne
ES-11	07/23/93	<0.0003	**0.001**	<0.0003	**0.001**	**0.002**	nt	nt	nt	nt	nt	nt	nt	nt	nt	<0.500	<0.500	nt	nt
	10/07/93	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/05/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/07/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	**0.350**	BDL	nt	nt
	07/13/94	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/06/94	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	BDL	nt	nt	nt
	01/13/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/11/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	**0.170**	nt	nt
	07/06/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	10/05/95	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	07/09/96	BDL	BDL	BDL	BDL	BDL	nt	nt	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	04/17/97	BDL	BDL	BDL	BDL	BDL	nt	BDL	nt	nt	nt	nt	nt	nt	nt	BDL	BDL	nt	nt
	09/25/08	<0.0004	<0.0003	<0.0003	<0.0003	BDL	<0.0003	<0.00031	<0.00014	**0.00067 J**	<0.00036	<0.00024	<0.00031	<0.006	<0.074	**0.028 J**	<0.017	<0.029	nt
	04/09/09	**0.0025 J**	**0.0009 J**	**0.0017 J**	**0.0030 J**	**0.008**	**0.0011 J**	<0.0003	<0.00014	**0.00052 J**	**0.00025 J**	<0.00023	<0.00017	<0.017	<0.074	<0.016	<0.025	**0.200**	nt
City of Oakland Public Works Agency Risk Based Screening Levels (RBSLs)		**0.001**	**0.150**	**0.700**	**1.80**	ne	**0.020**	**0.013**	ne	ne	ne	**0.0005**	**0.00005**	ne	ne	ne	ne	ne	ne
San Francisco Bay RWQCB Environmental Screening Levels (ESLs)		**0.001**	**0.040**	**0.030**	**0.020**	ne	**0.017**	**0.005**	ne	ne	ne	**0.0005**	**0.00005**	**0.012**	ne	**0.100**	**0.100**	ne	ne

Analytical test results are reported in milligrams per liter (mg/L).
Bolded results indicate detected concentrations exceeded laboratory detection limits.
nt = not tested for that constituent ns = not sampled dne = does not exist ne = not established <, BDL = below laboratory detection limits J = reported result is between the MDL and PQL

Notes (per previous reports):
1) BTEX analyzed by EPA Method 8020
2) TPH-d analyzed by EPA Method 3550/8015 Modified
3) TPH-g analyzed by EPA Method 8015M
* Sample not analyzed due to broken sample bottle during shipment

Table 4 - Cumulative Summary of Soil Analytical Results
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, Alameda County, California
Green Star Project No. 09-1379

Sample ID	Depth in feet BGS	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE	TPH-g	TPH-d	TPH	TFH
Subsurface Investigation Samples (Conducted by a Previous Contultant)												
BC-1	16-16.5	07/08/89	nr	**1.78**	**37.5**	**1.13**	**40.4**	nt	nt	nt	nr	**3,060**
BC-1	25-25.5	07/08/89	<10.0	<0.001	**0.027**	**0.008**	**0.035**	nt	nt	nt	nr	<10.0
BC-2	16-16.5	07/08/89	nr	**4.00**	**2.00**	**49.5**	**55.5**	nt	nt	nt	nr	**4,260**
BC-2	25-25.5	07/08/89	<10.0	**0.090**	**0.402**	**0.154**	**0.646**	nt	nt	nt	nr	<10.0
BC-3	16-16.5	07/08/89	nr	**2.24**	**28.9**	**1.03**	**32.2**	nt	nt	nt	nr	**1,850**
BC-3	25-25.5	07/08/89	<10.0	<0.001	**0.008**	<0.001	0.008	nt	nt	nt	nr	<10.0
ES-1	16-18	11/11/91	<1.00	**3.00**	**3.40**	**22.0**	**28.4**	nt	nt	<2.50	nt	nt
ES-2	16-18	11/12/91	<2.00	**27.0**	**28.0**	**150**	**205**	nt	nt	<2.50	nt	nt
ES-3	16-18	11/12/91	<0.001	<0.002	<0.002	<0.004	BDL	nt	nt	<2.50	nt	nt
ES-4	16-18	11/13/91	<0.001	<0.002	<0.002	<0.004	BDL	nt	nt	BDL	nt	nt
ES-5	16-18	11/14/91	<0.001	**0.080**	**0.065**	**0.330**	**0.475**	nt	nt	**160**	nt	nt
ES-6	15-16.5	07/23/93	<0.005	<0.005	<0.005	<0.015	BDL	nt	<10.0	<10.0	nt	nt
ES-7	20-21.5	07/20/93	<0.005	<0.005	<0.005	<0.015	BDL	nt	<10.0	<10.0	nt	nt
ES-8	20-21.5	07/20/93	<0.005	<0.005	<0.005	<0.015	BDL	nt	<10.0	<10.0	nt	nt
ES-9	15-16.5	07/21/93	<0.005	<0.005	<0.005	<0.015	BDL	nt	<10.0	<10.0	nt	nt
ES-10	20-21.5	07/21/93	<0.005	<0.005	<0.005	<0.015	BDL	nt	<10.0	<10.0	nt	nt
ES-11	20-21.5	07/21/93	<0.005	<0.005	<0.005	<0.015	BDL	nt	<10.0	<10.0	nt	nt

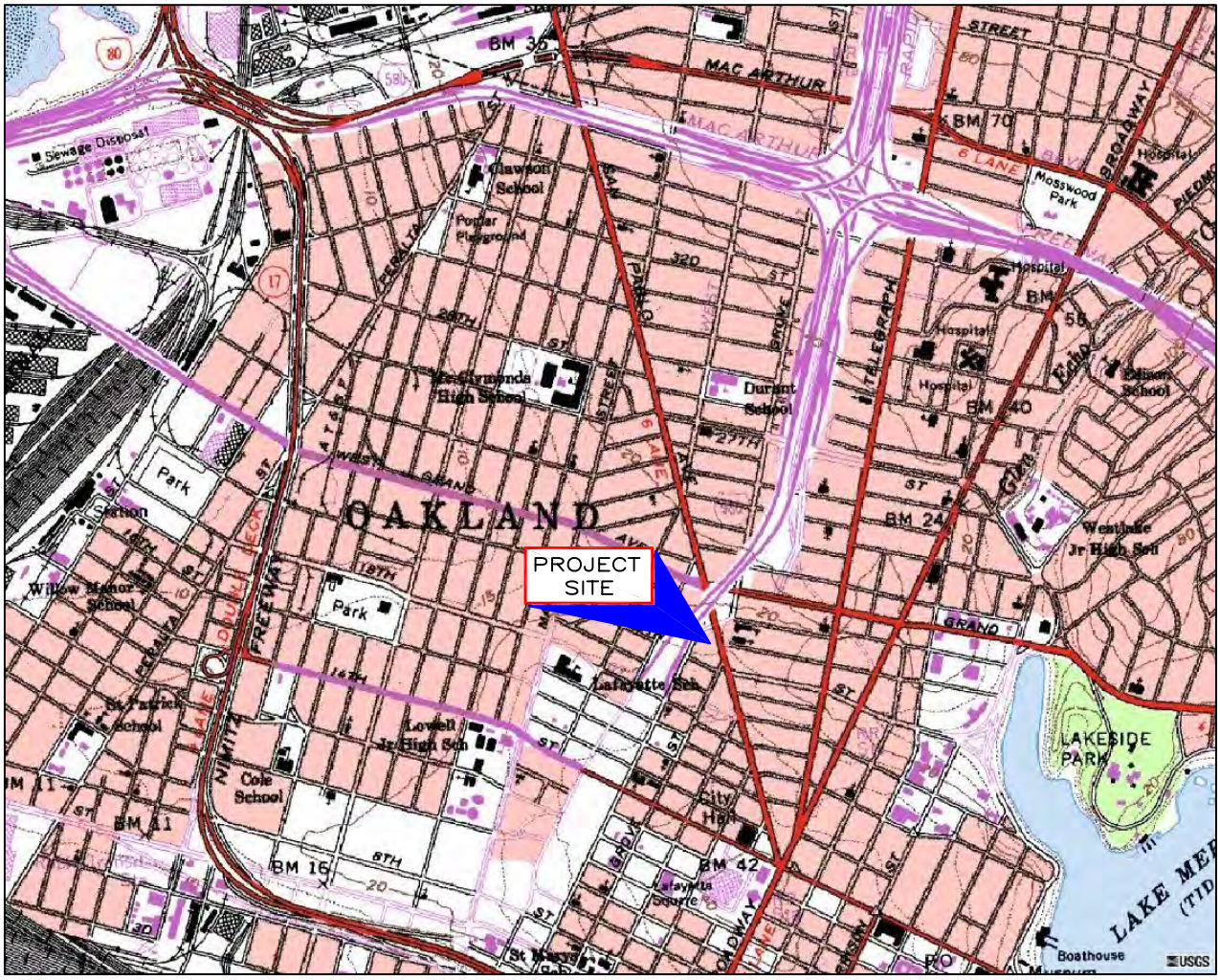
Analytical test results are reported in milligrams per Kilogram (mg/Kg).
<, BDL = below laboratory detection limits
nt = not tested for that constituent
nr = Interpretation of results not possible as reported by previous consultant.

LIST OF FIGURES

OAKLAND WEST QUADRANGLE
OAKLAND, CALIFORNIA

LAT=37° 48' 40" N
LONG=122° 16' 24" W

1996



NORTH

SCALE 1:24000

0 1/2 1

(Miles)

0 2000 4000

(Feet)

CONTOUR INTERVAL 10 FEET

1379

FIGURE 1

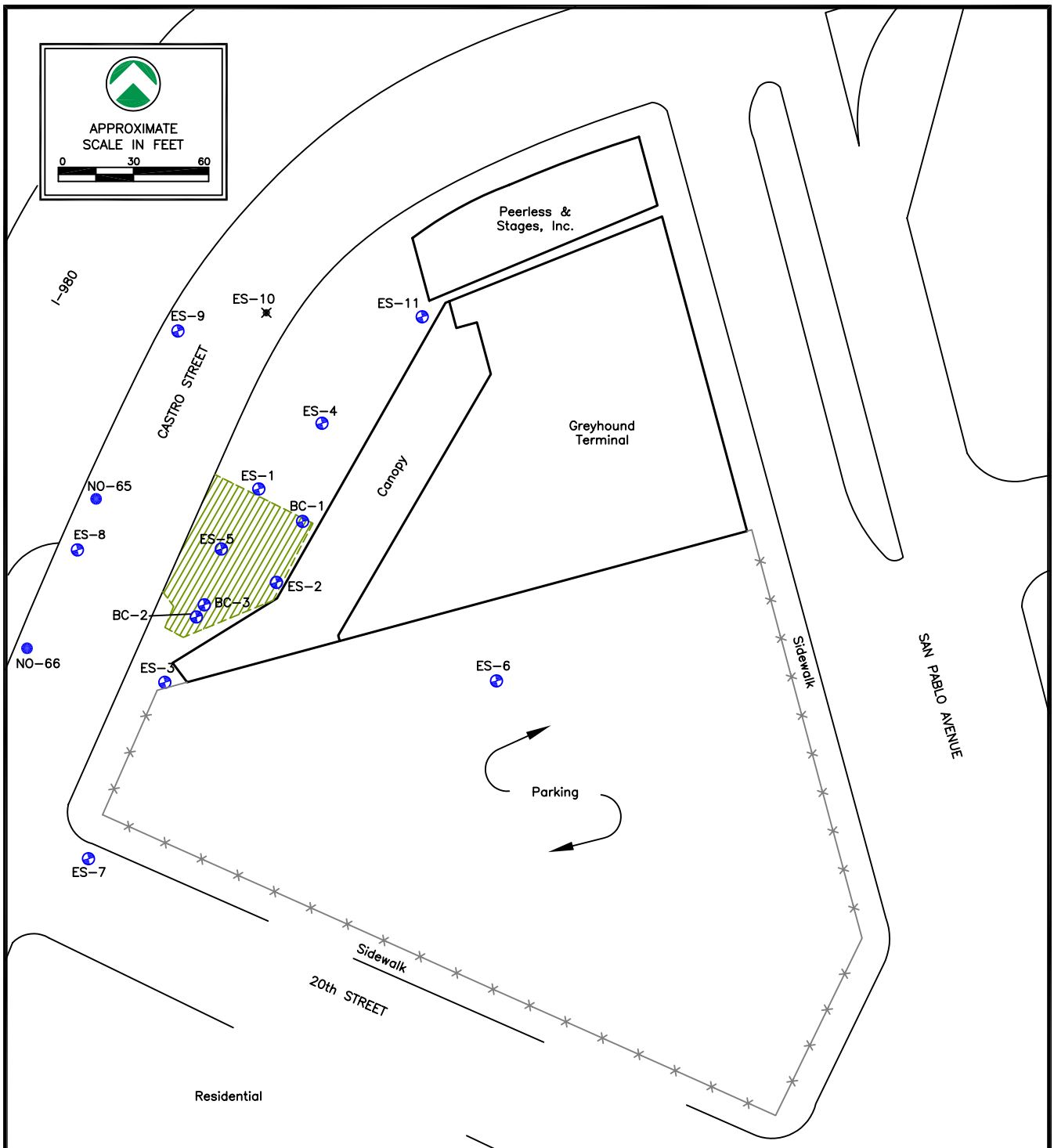
SITE LOCATION/USGS TOPOGRAPHIC MAP

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	05/04/09

PROJECT No. 09-1379



LEGEND

- Monitoring Well
- Destroyed Monitoring Well
- Non-project Monitoring Well
- Former Tank Pit
- Fence Line

09/23/08 LBA 1379

FIGURE 2a

SITE PLAN

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	07/31/09

PROJECT No. 09-1379

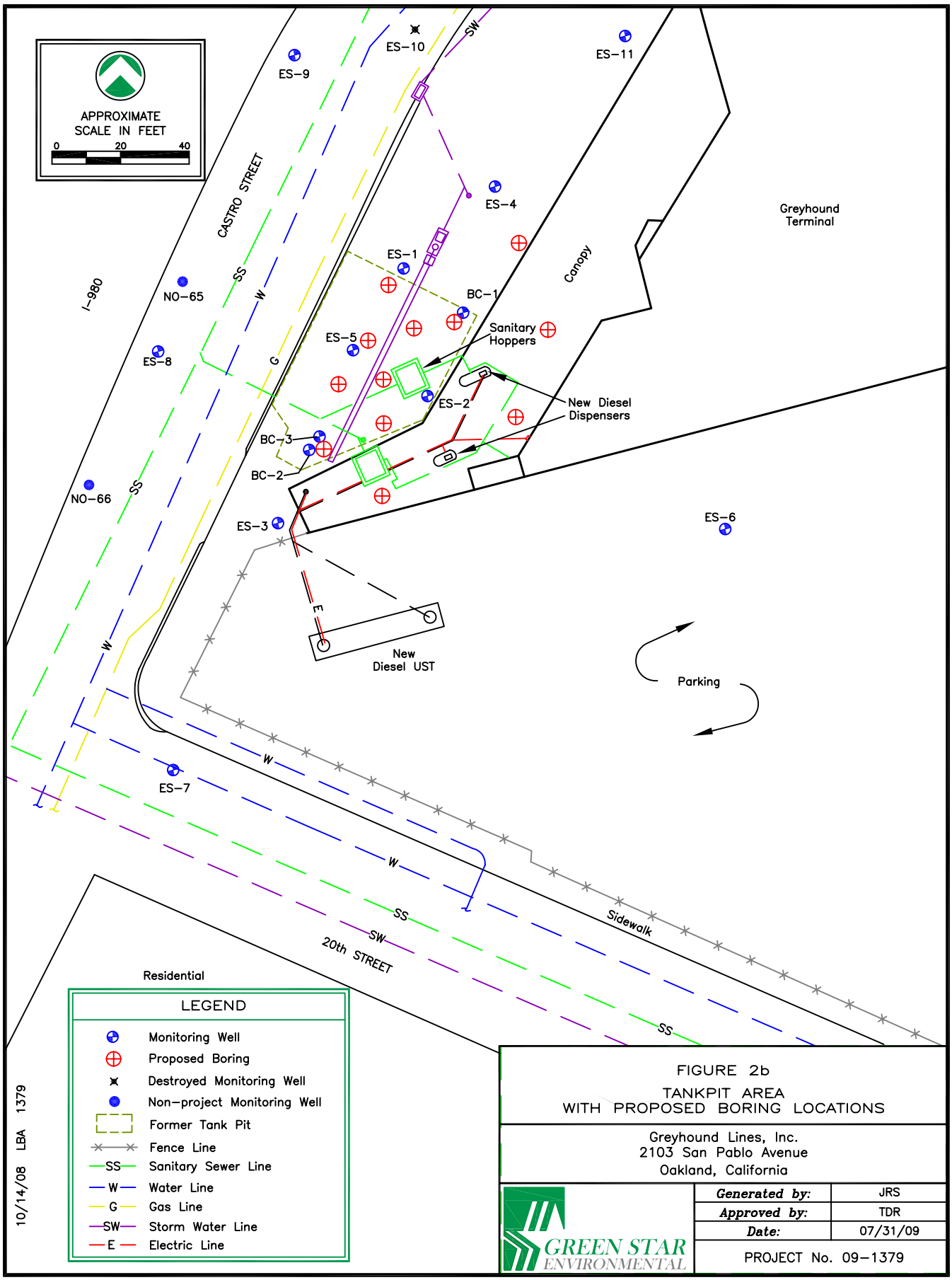


FIGURE 2b

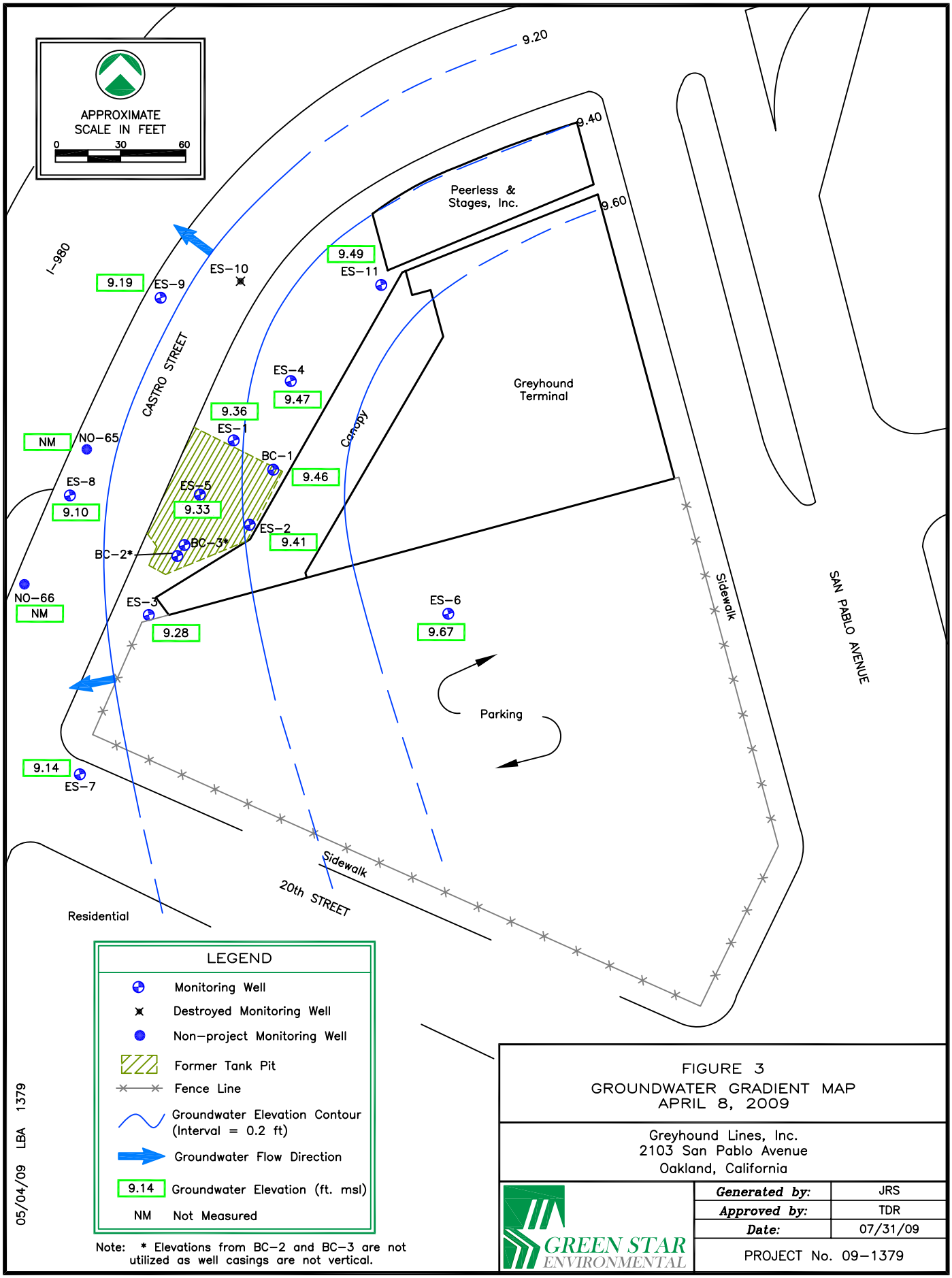
TANKPIT AREA
WITH PROPOSED BORING LOCATIONS

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	07/31/09

PROJECT No. 09-1379



Note: * Elevations from BC-2 and BC-3 are not utilized as well casings are not vertical.

05/04/09 LBA 1379

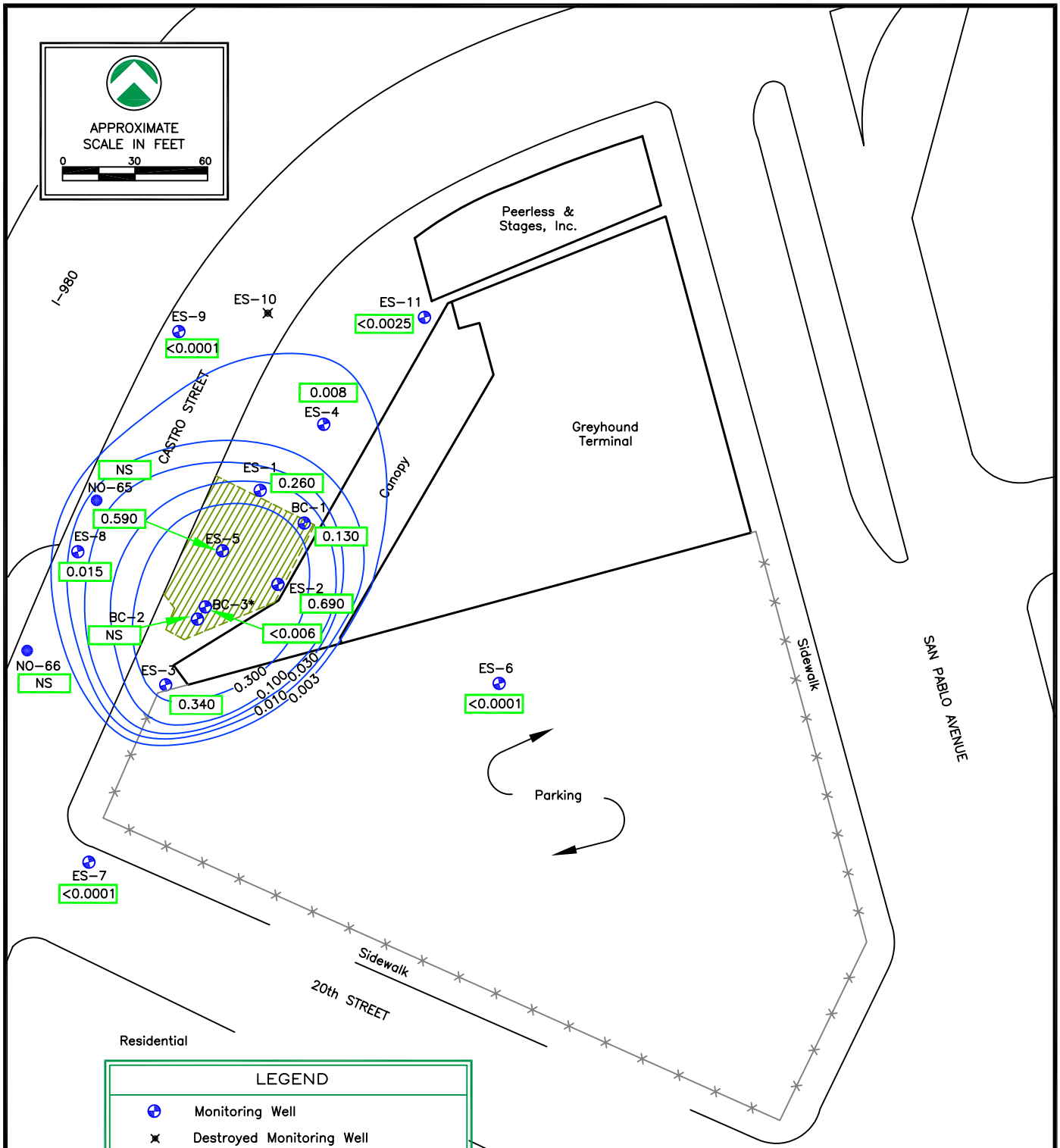
FIGURE 3
GROUNDWATER GRADIENT MAP
APRIL 8, 2009

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	07/31/09

PROJECT No. 09-1379



Note: * Concentrations in BC-3 were not used for contouring as well construction details are unknown and the well does not appear to intercept the impacted zone.

05/04/09 LBA 1379

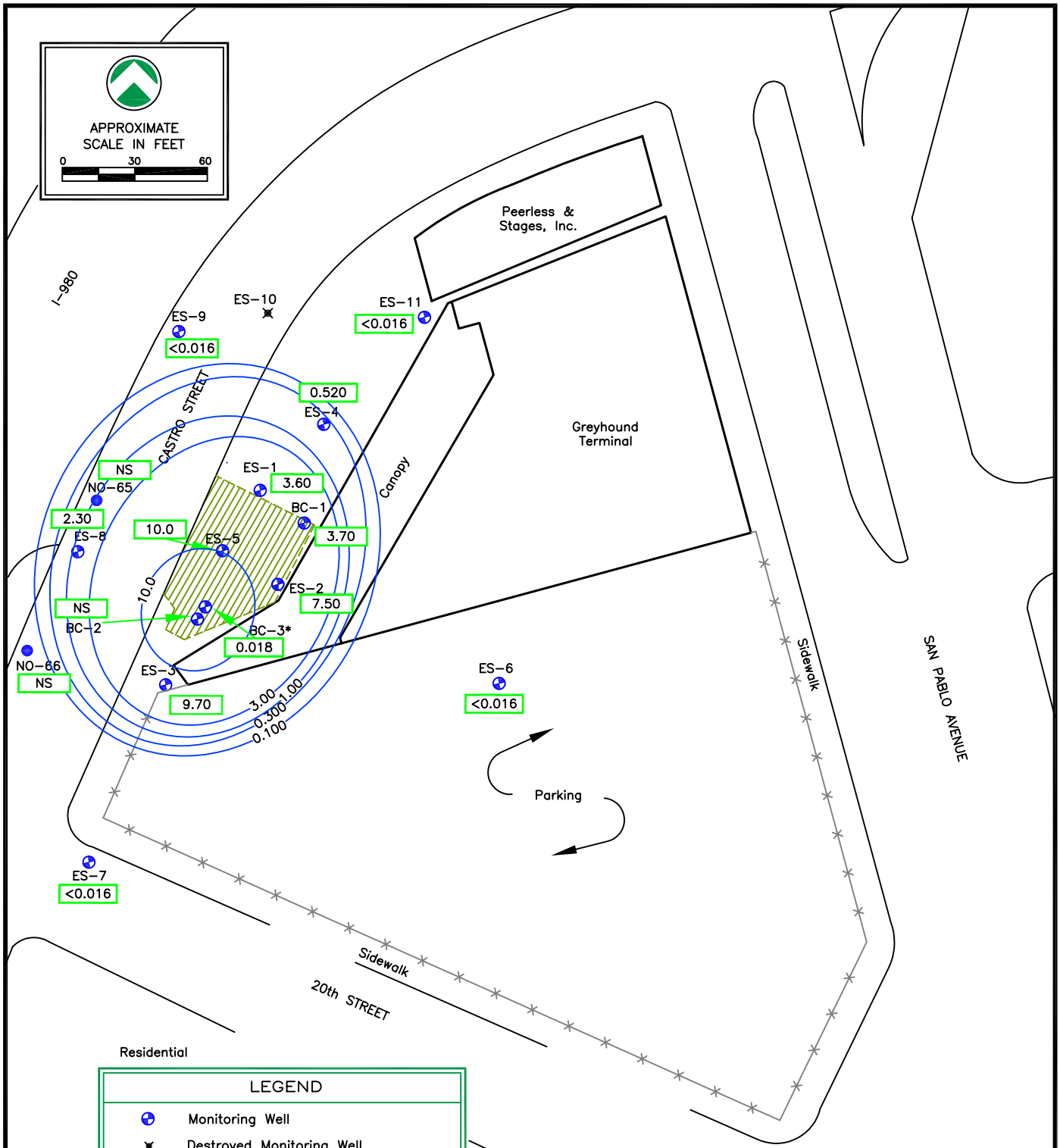
FIGURE 4
DISSOLVED-PHASE BENZENE IN GROUNDWATER
APRIL 8 & 9, 2009

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	07/31/09

PROJECT No. 09-1379



LEGEND

- Monitoring Well
- Destroyed Monitoring Well
- Non-project Monitoring Well
- Former Tank Pit
- Fence Line
- Contour Interval Logarithmic in mg/L
- 9.70 Benzene Concentration in Groundwater (mg/L)
- NS Not Sampled

Note: * Concentrations in BC-3 were not used for contouring as well construction details are unknown and the well does not appear to intercept the impacted zone.

05/04/09 LBA 1379

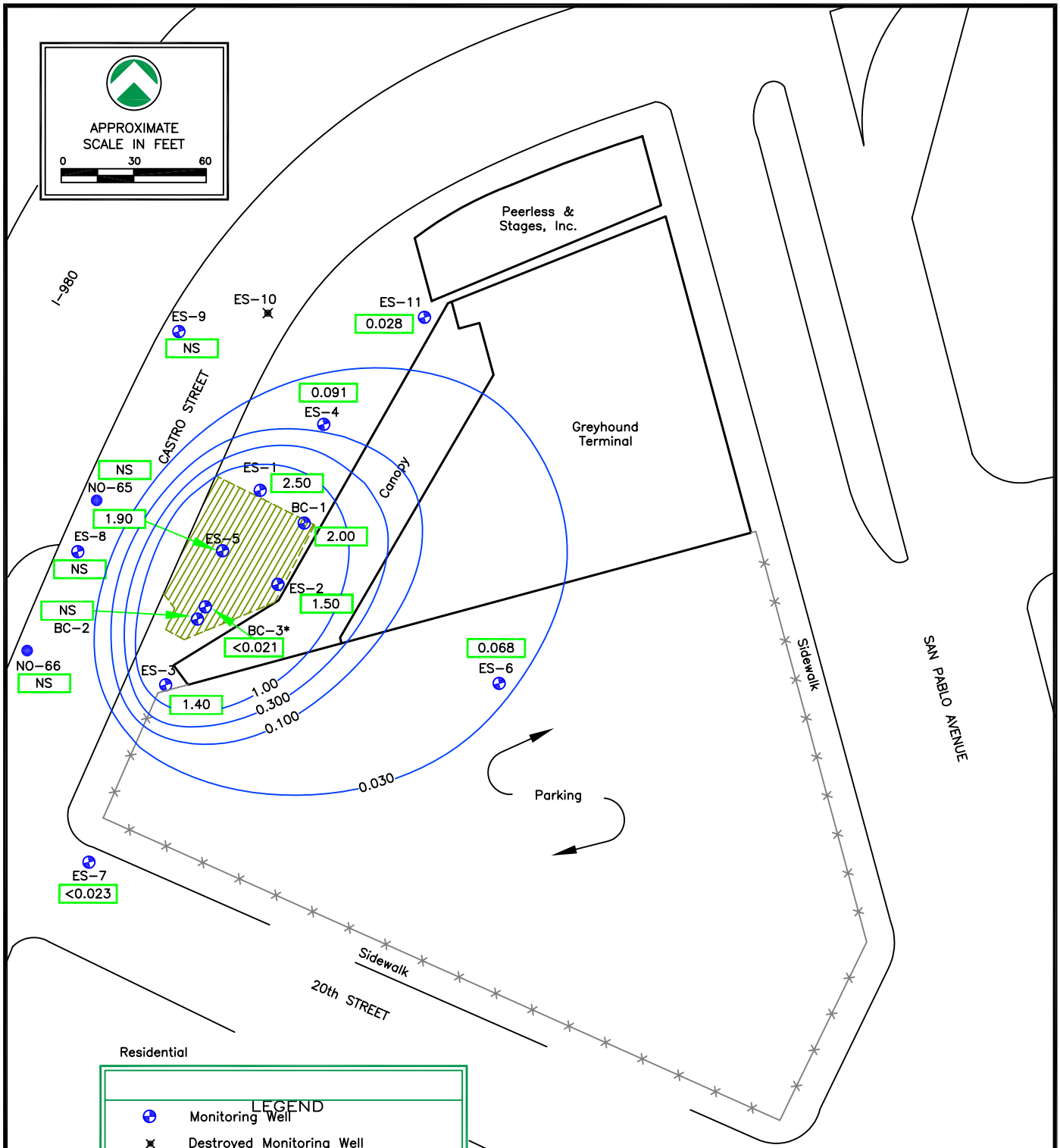
FIGURE 5
DISSOLVED-PHASE TPH-g
IN GROUNDWATER
APRIL 8 & 9, 2009

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	07/31/09

PROJECT No. 09-1379



Note: * Concentrations in BC-3 were not used for contouring as well construction details are unknown and the well does not appear to intercept the impacted zone.

FIGURE 6

DISSOLVED-PHASE TPH-d
IN GROUNDWATER
SEPTEMBER 24 & 25, 2008

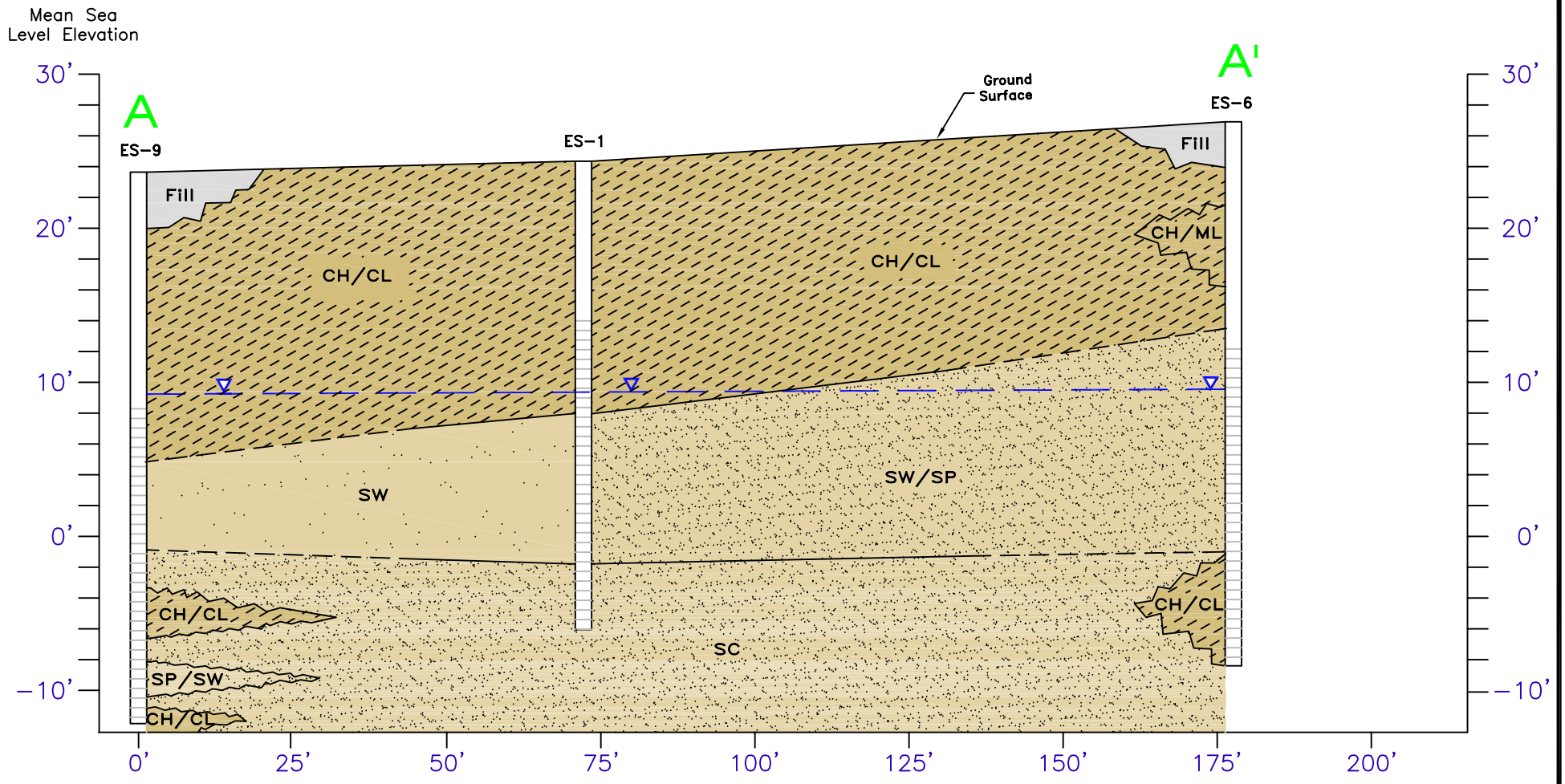
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

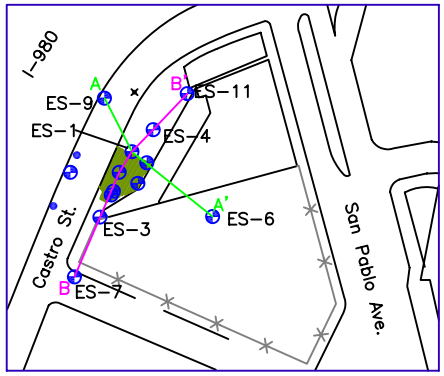
GREEN STAR ENVIRONMENTAL

Generated by:	JRS
Approved by:	TDR
Date:	07/31/09

PROJECT No. 09-1379

05/04/09 LBA 1379





1379 LBA 05/20/09

LEGEND

CH	High Plasticity Clays
CL	Low Plasticity Clays
ML	Clayey Silt
SC	Clayey Sand
SP	Poorly-Graded Sands
SW	Well-Graded Sands
▽	Groundwater Table

HORIZONTAL SCALE

0 12.5 25 FT.

VERTICAL SCALE

0 5 10 FT.

FIGURE 7

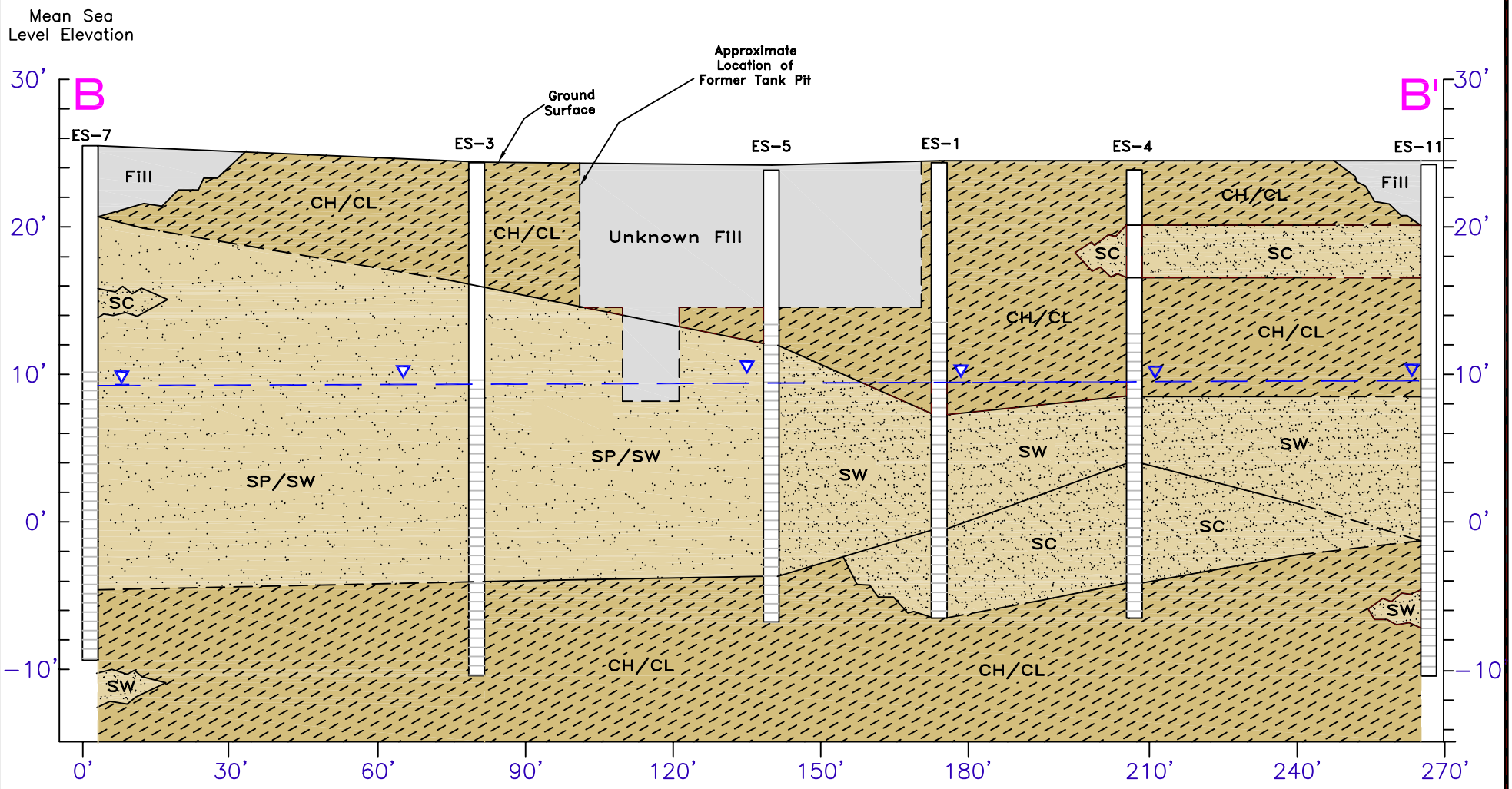
CROSS-SECTION A-A'

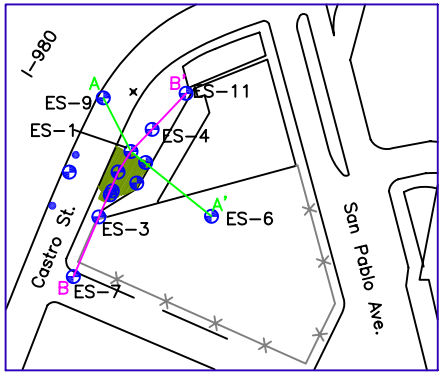
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	*TDR*
Approved by:	*TDR*
Date:	*05/20/09*

PROJECT No. 09-1379





1379 LBA 05/20/09

LEGEND	
CH	High Plasticity Clays
CL	Low Plasticity Clays
ML	Clayey Silt
SC	Clayey Sand
SP	Poorly-Graded Sands
SW	Well-Graded Sands
▽	Groundwater Table

HORIZONTAL SCALE

0 15 30 FT.

VERTICAL SCALE

0 5 10 FT.

FIGURE 8

CROSS-SECTION B-B'

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

GREEN STAR ENVIRONMENTAL

Generated by:	*TDR*
Approved by:	*TDR*
Date:	*05/20/09*

PROJECT No. 09-1379

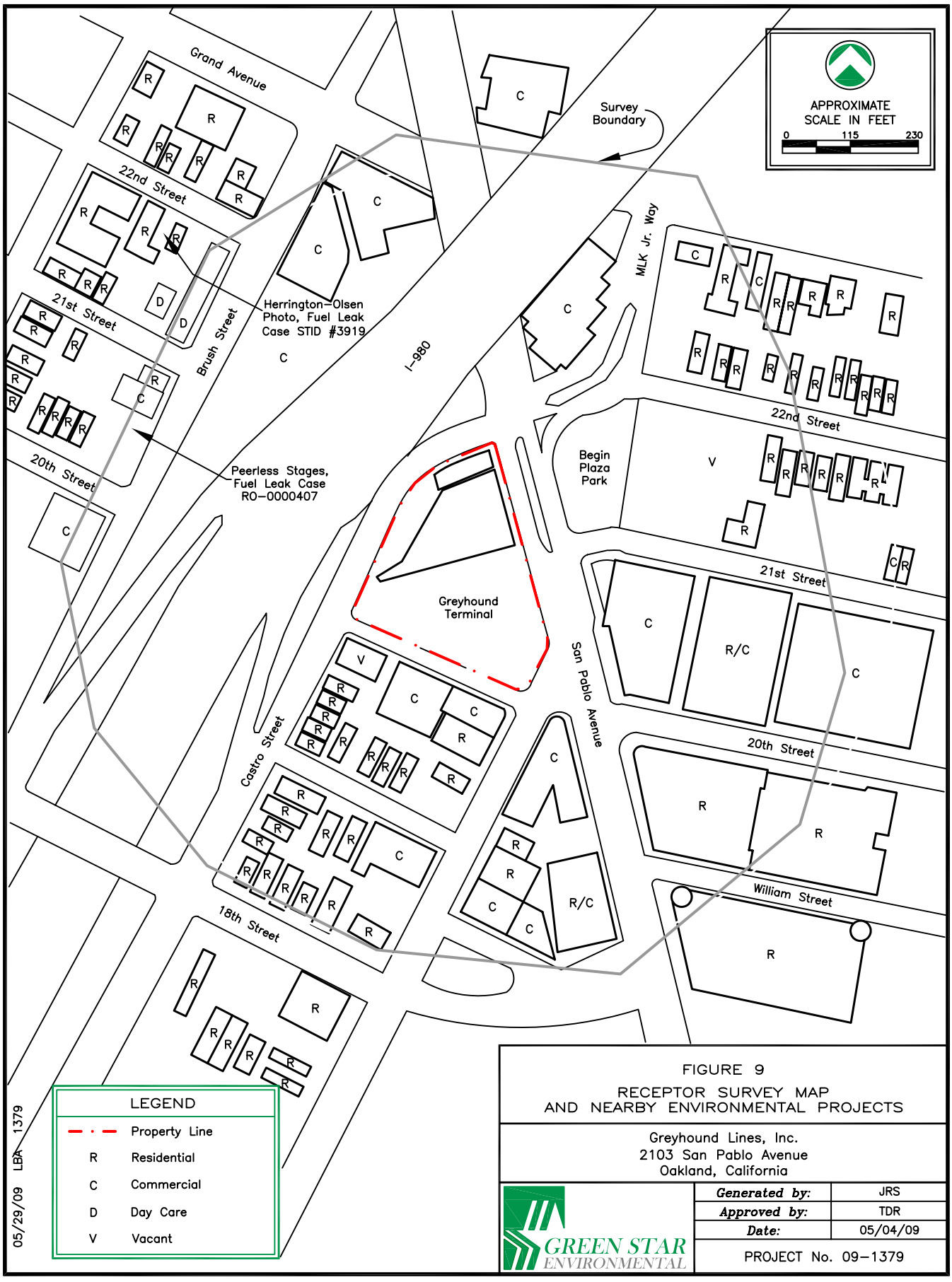


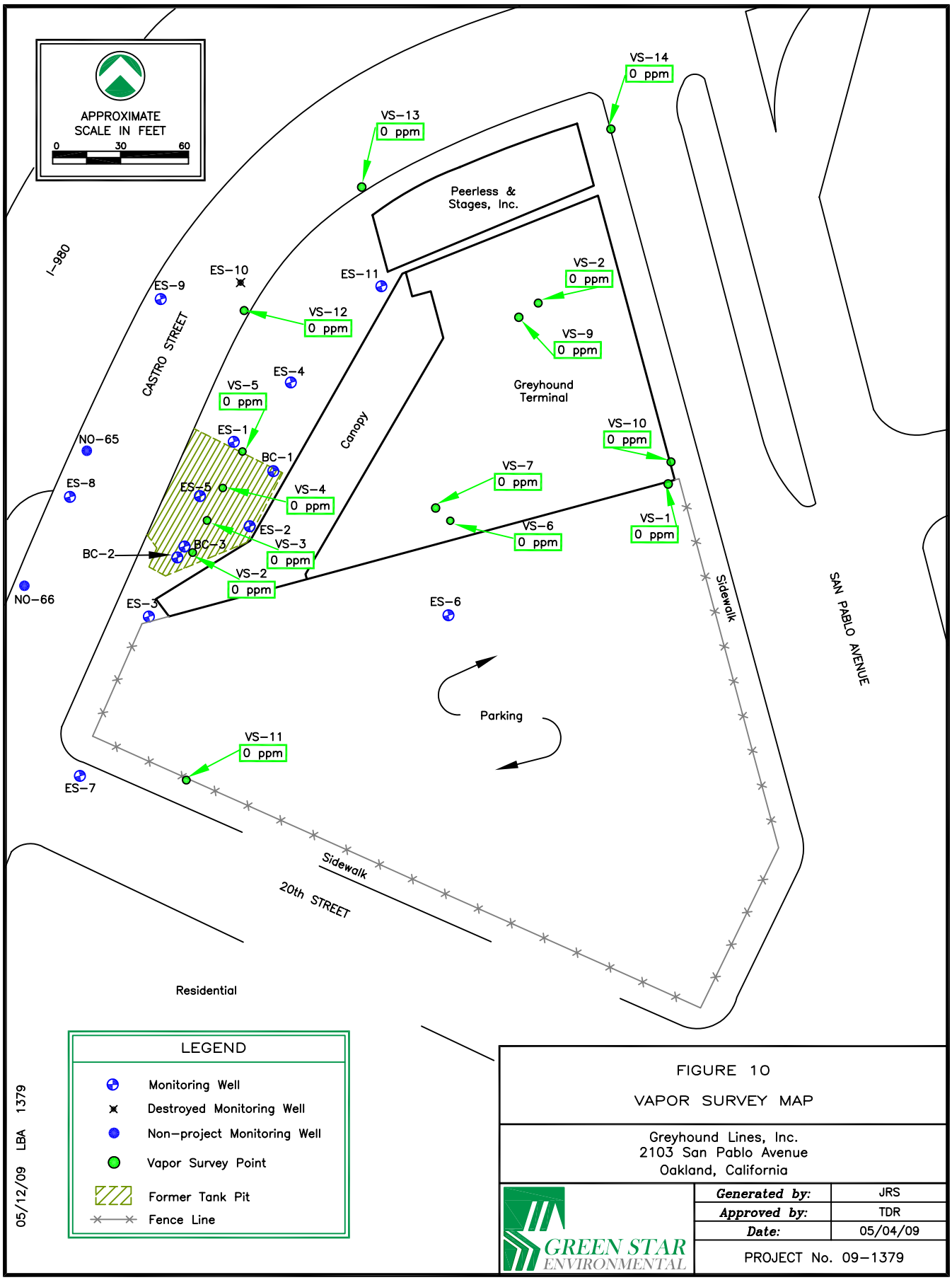
FIGURE 9

RECEPTOR SURVEY MAP
AND NEARBY ENVIRONMENTAL PROJECTS

Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California

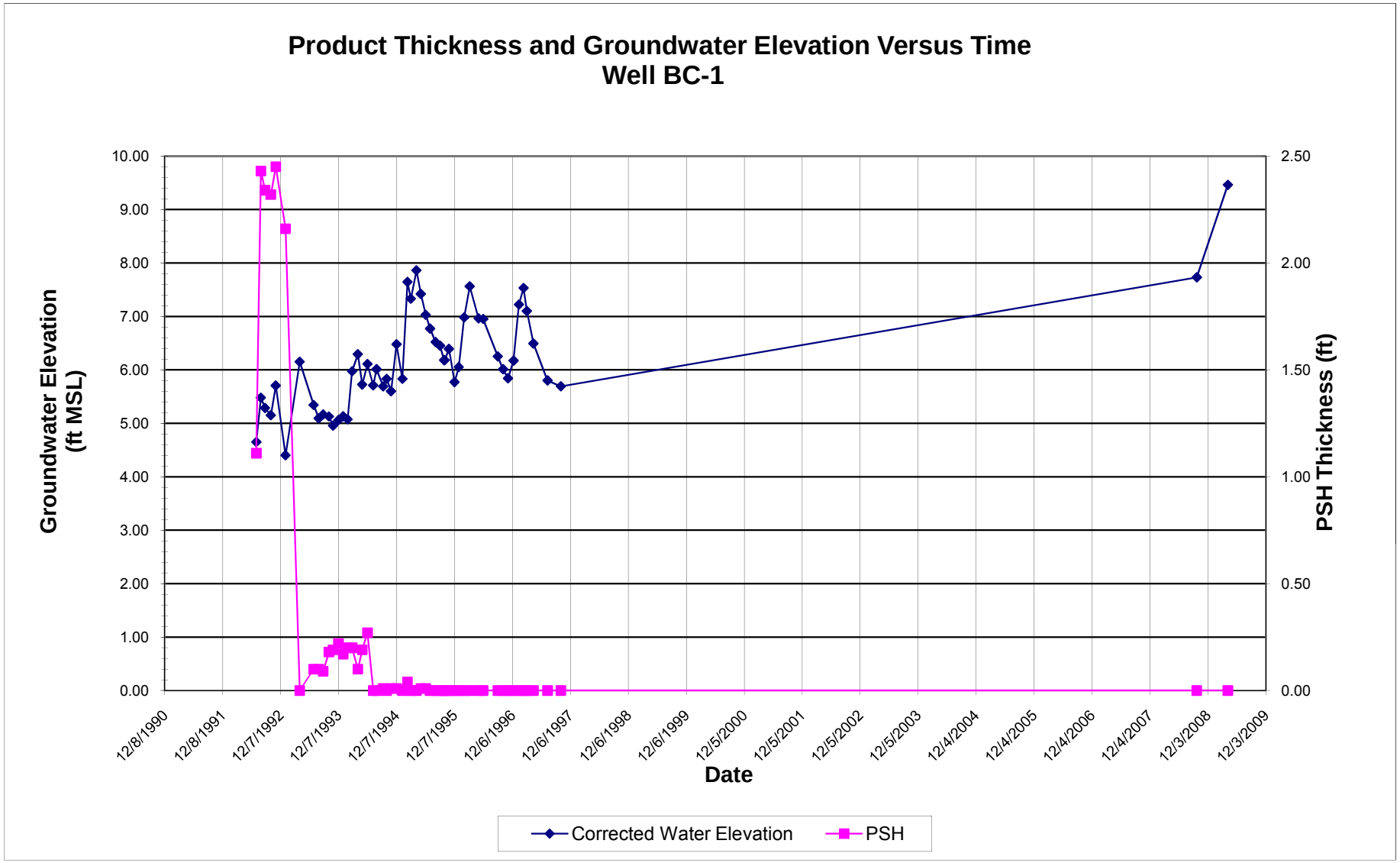
GREEN STAR ENVIRONMENTAL

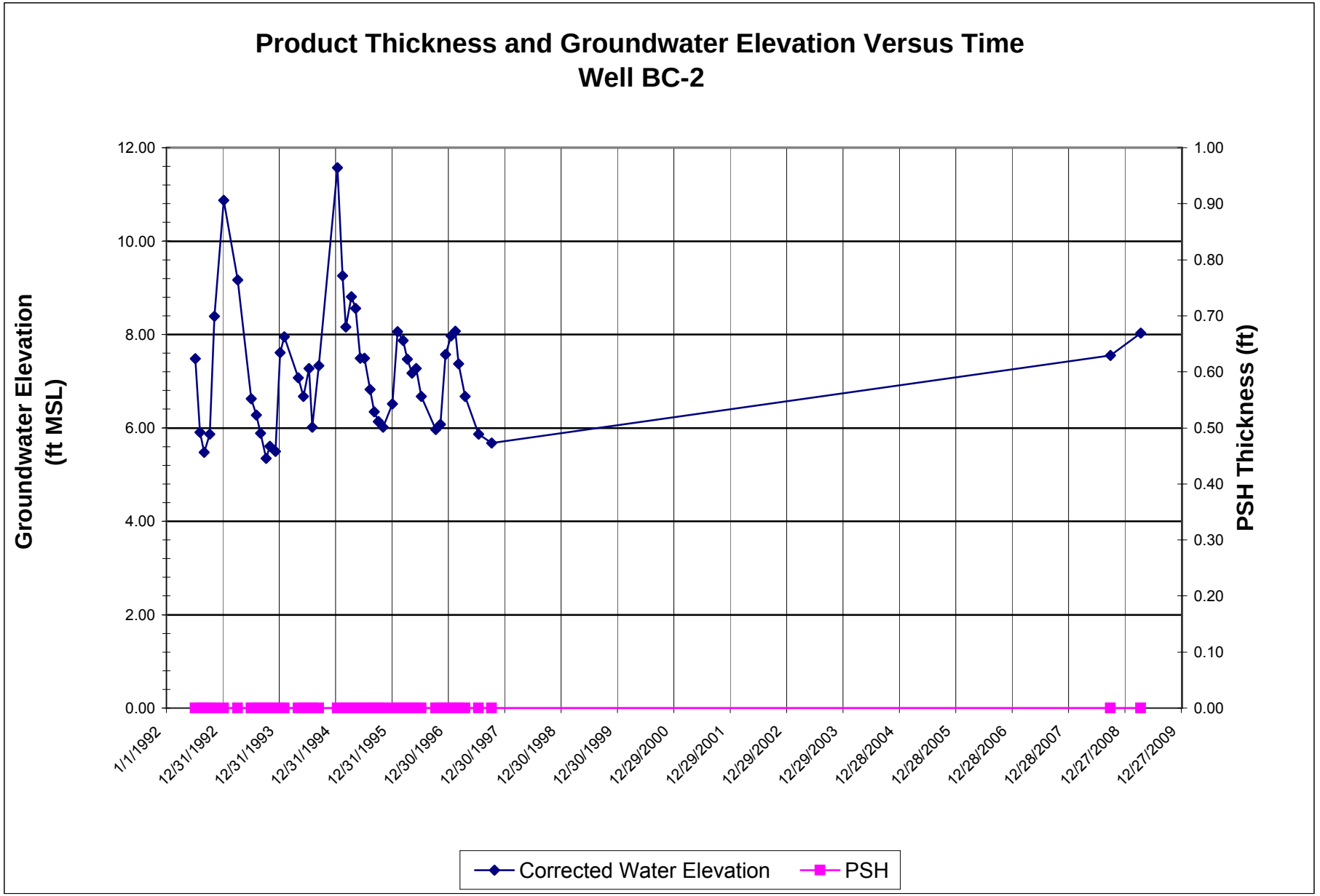
Generated by:	JRS
Approved by:	TDR
Date:	05/04/09
PROJECT No. 09-1379	

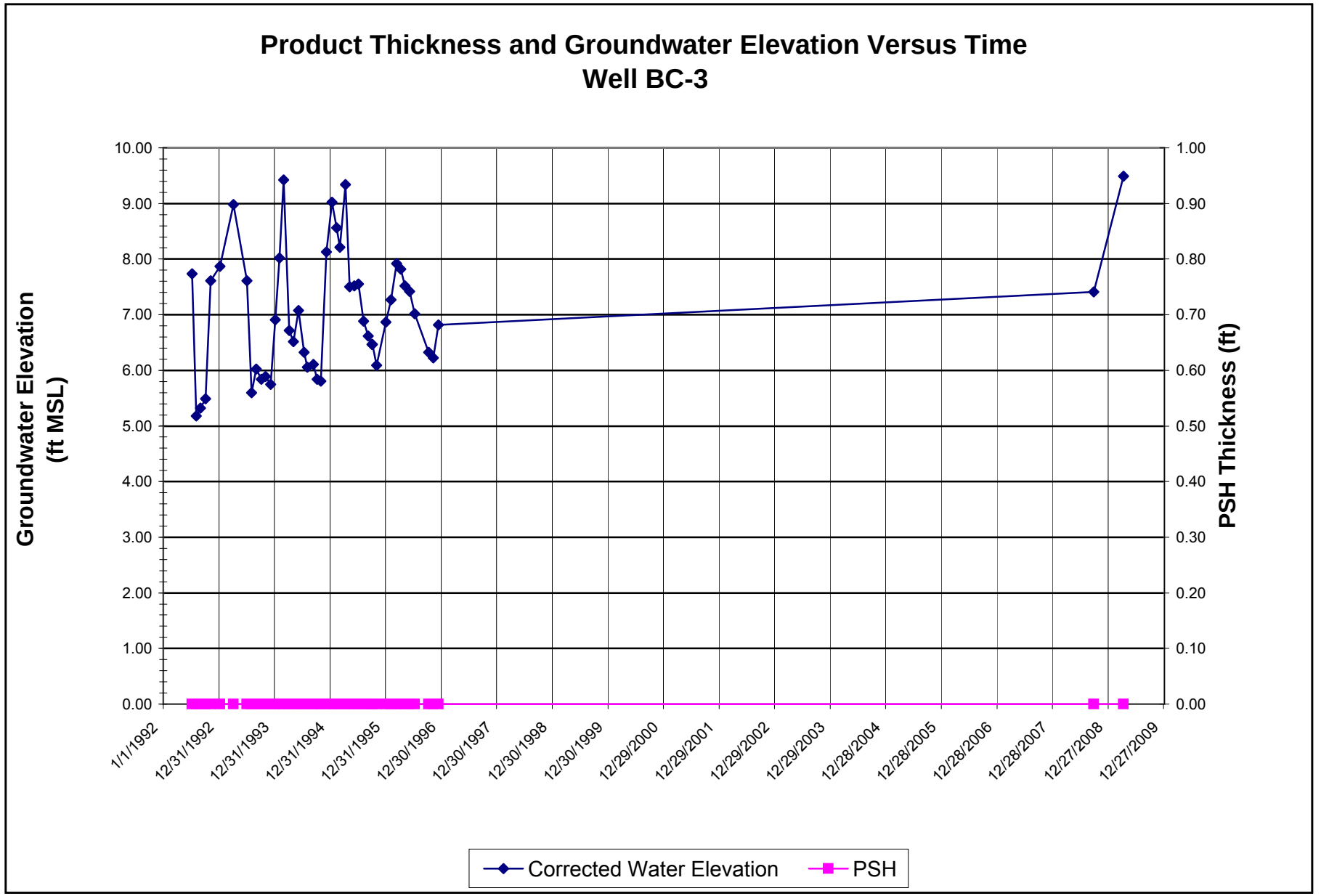

APPROXIMATE
SCALE IN FEET
0
30
60
VS-14
0 ppm
VS-13
0 ppm
Peerless &
Stages, Inc.
I-980
ES-10
ES-11
ES-9
VS-12
0 ppm
CASTRO STREET
VS-2
0 ppm
VS-9
0 ppm
ES-4
VS-5
0 ppm
Greyhound
Terminal
ES-1
Canopy
VS-10
0 ppm
NO-65
BC-1
VS-7
0 ppm
ES-8
ES-5
VS-4
0 ppm
VS-6
0 ppm
VS-1
0 ppm
ES-2
BC-2
BC-3
VS-3
0 ppm
VS-2
0 ppm
NO-66
ES-3
ES-6
Sidewalk
SAN PABLO AVENUE
Parking
VS-11
0 ppm
ES-7
Sidewalk
20th STREET
Residential
LEGEND
Monitoring Well
Destroyed Monitoring Well
Non-project Monitoring Well
Vapor Survey Point
Former Tank Pit
Fence Line
05/12/09 LBA 1379
FIGURE 10
VAPOR SURVEY MAP
Greyhound Lines, Inc.
2103 San Pablo Avenue
Oakland, California
GREEN STAR ENVIRONMENTAL
Generated by: JRS
Approved by: TDR
Date: 05/04/09
PROJECT No. 09-1379

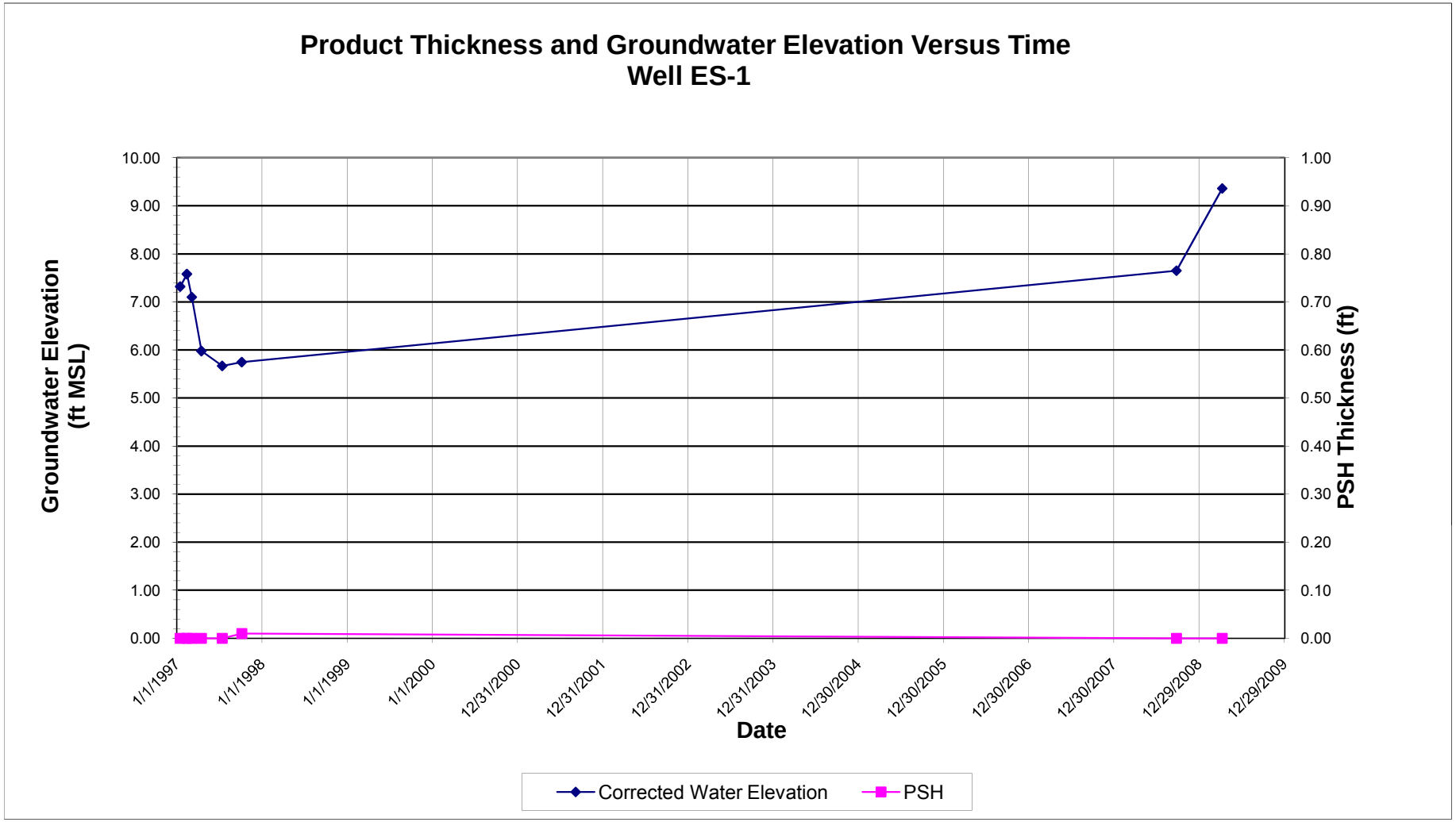
APPENDIX A

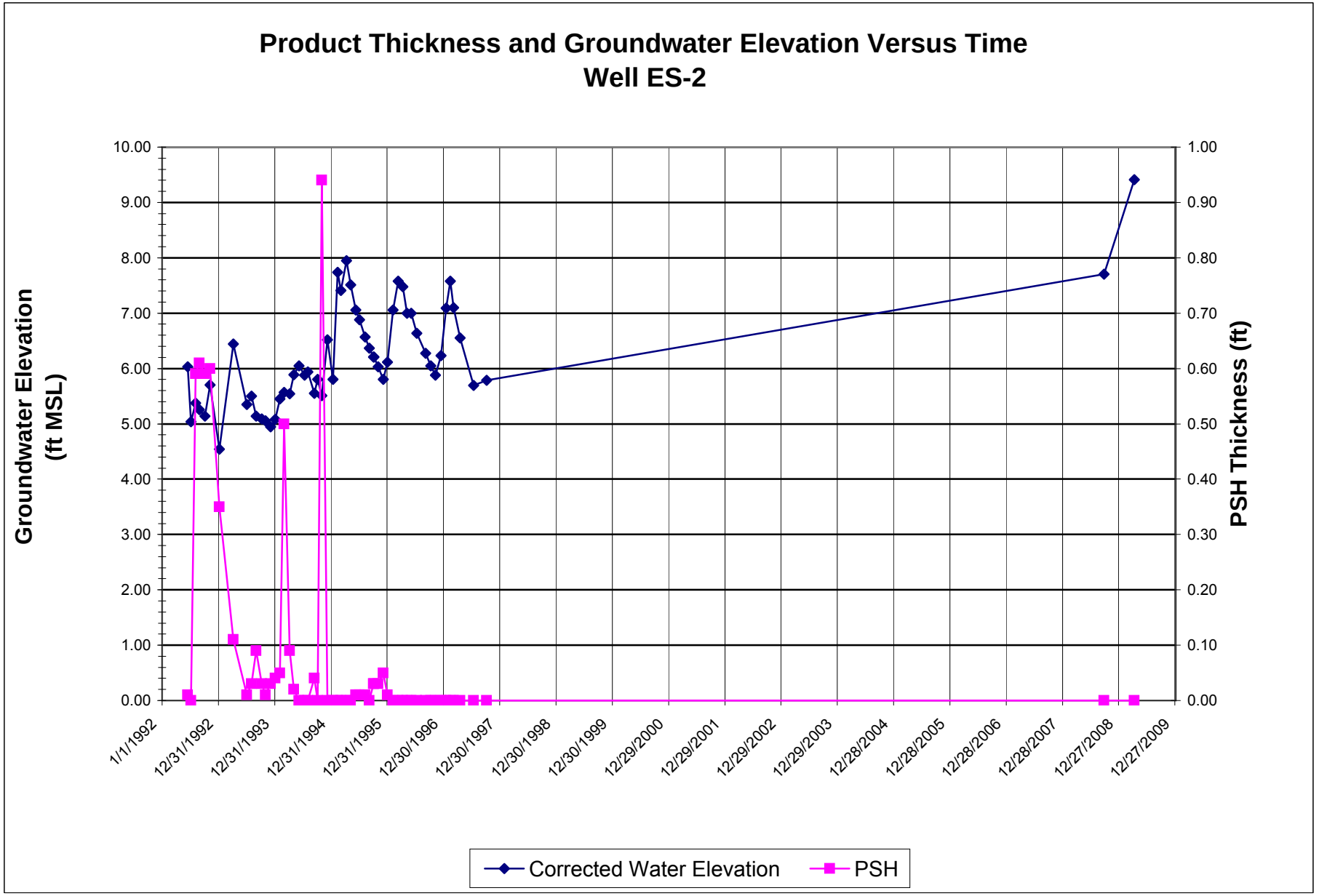
PSH Thickness and Groundwater Elevation Graphs

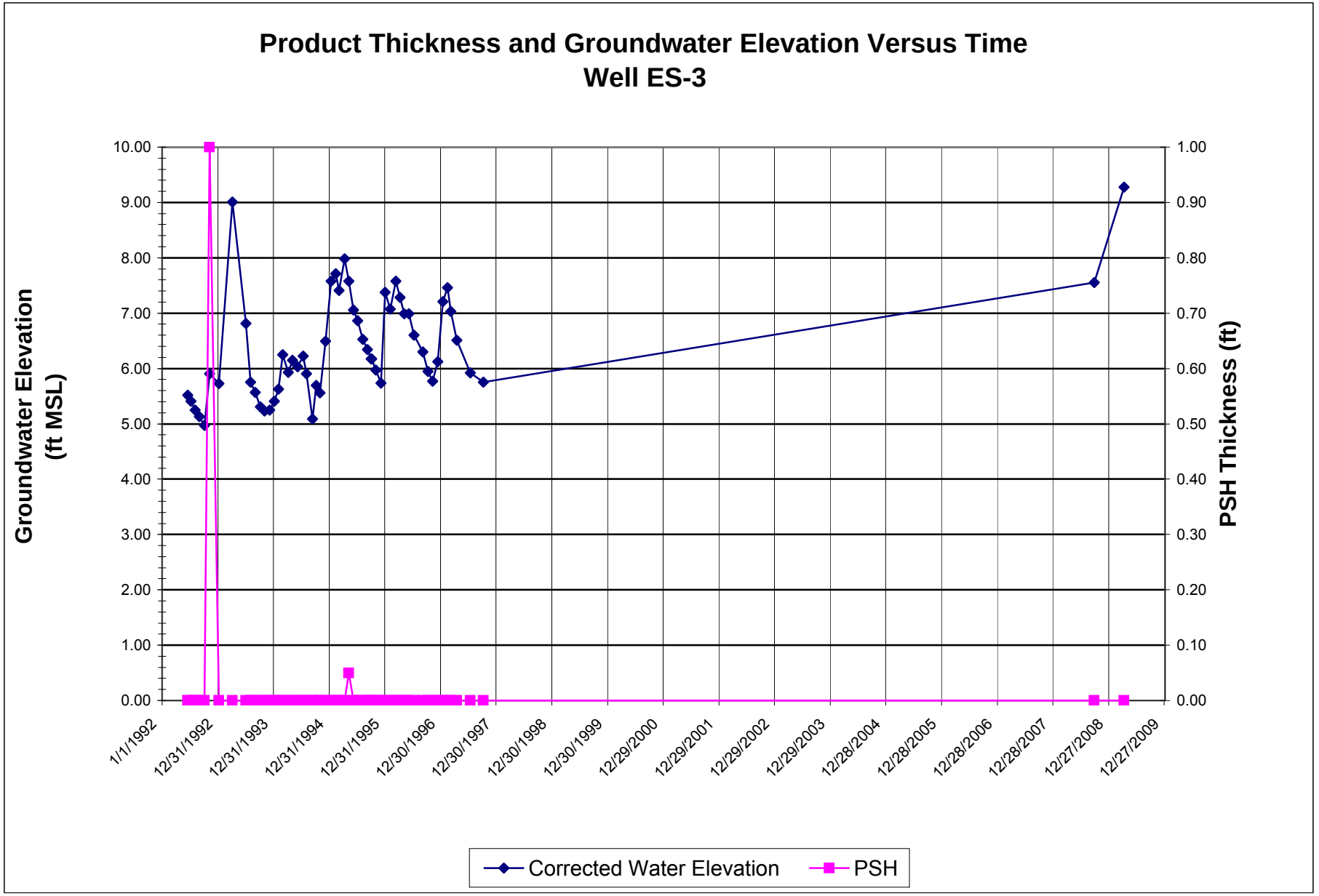

Product Thickness and Groundwater Elevation Versus Time
Well BC-1
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
Date
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
2.50
2.00
1.50
1.00
0.50
0.00
12/8/1990
12/8/1991
12/7/1992
12/7/1993
12/7/1994
12/7/1995
12/6/1996
12/6/1997
12/6/1998
12/6/1999
12/5/2000
12/5/2001
12/5/2002
12/5/2003
12/4/2004
12/4/2005
12/4/2006
12/4/2007
12/3/2008
12/3/2009
Corrected Water Elevation
PSH

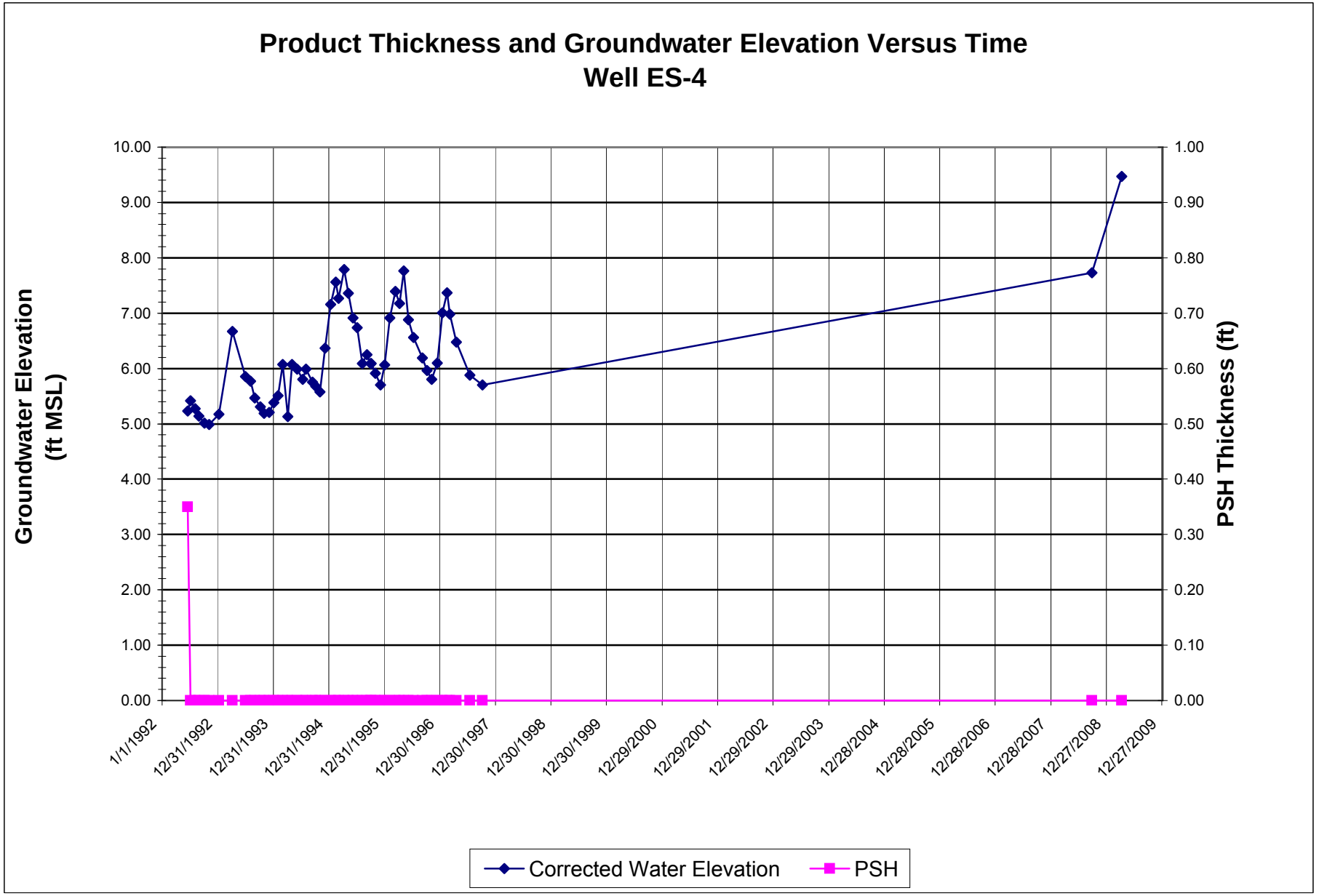

Product Thickness and Groundwater Elevation Versus Time
Well BC-2
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1992
12/31/1992
12/31/1993
12/31/1994
12/31/1995
12/30/1996
12/30/1997
12/30/1998
12/30/1999
12/29/2000
12/29/2001
12/29/2002
12/29/2003
12/28/2004
12/28/2005
12/28/2006
12/28/2007
12/27/2008
12/27/2009
Corrected Water Elevation
PSH

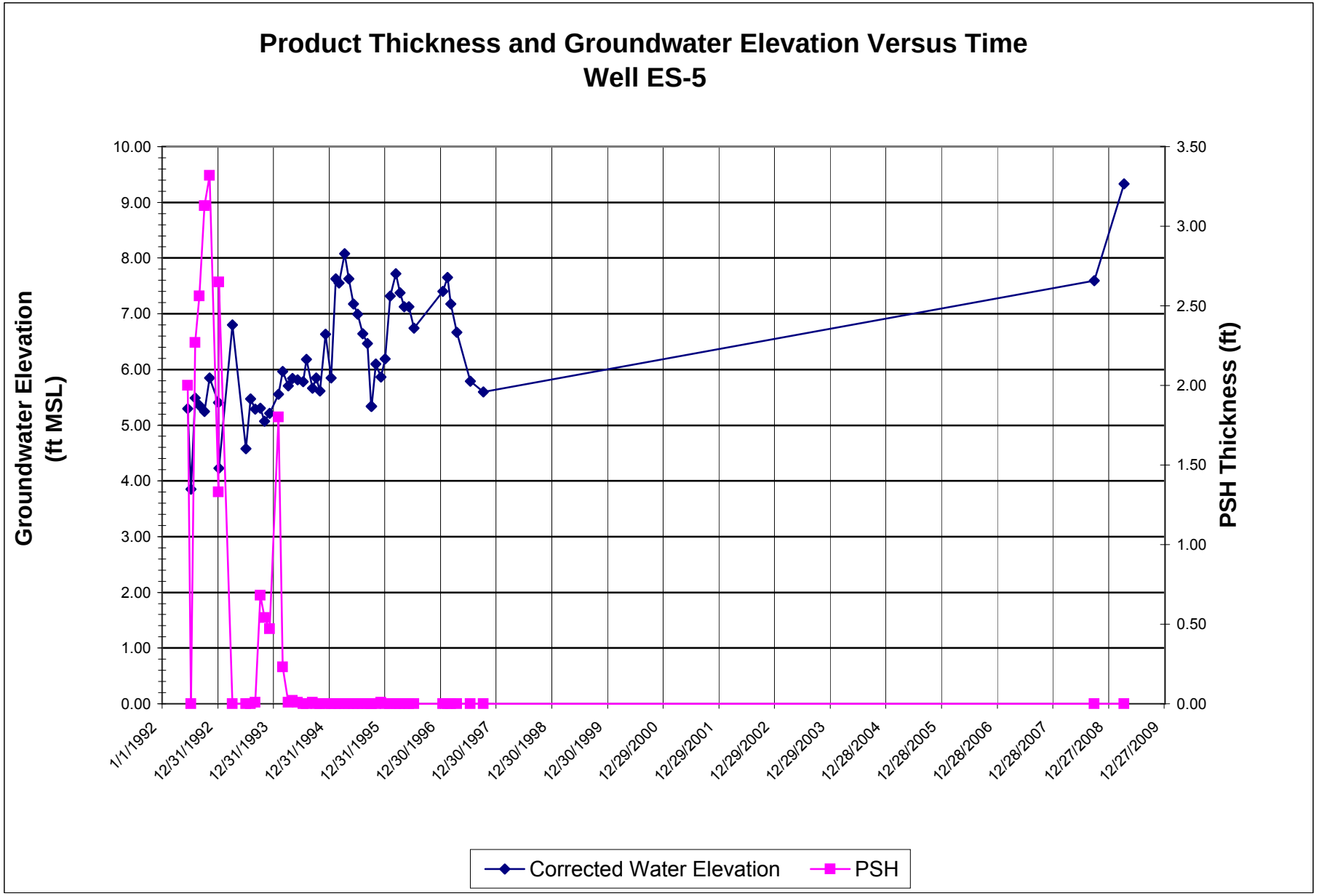

Product Thickness and Groundwater Elevation Versus Time
Well BC-3
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1992
12/31/1992
12/31/1993
12/31/1994
12/31/1995
12/30/1996
12/30/1997
12/30/1998
12/30/1999
12/29/2000
12/29/2001
12/29/2002
12/29/2003
12/28/2004
12/28/2005
12/28/2006
12/28/2007
12/27/2008
12/27/2009
Corrected Water Elevation
PSH

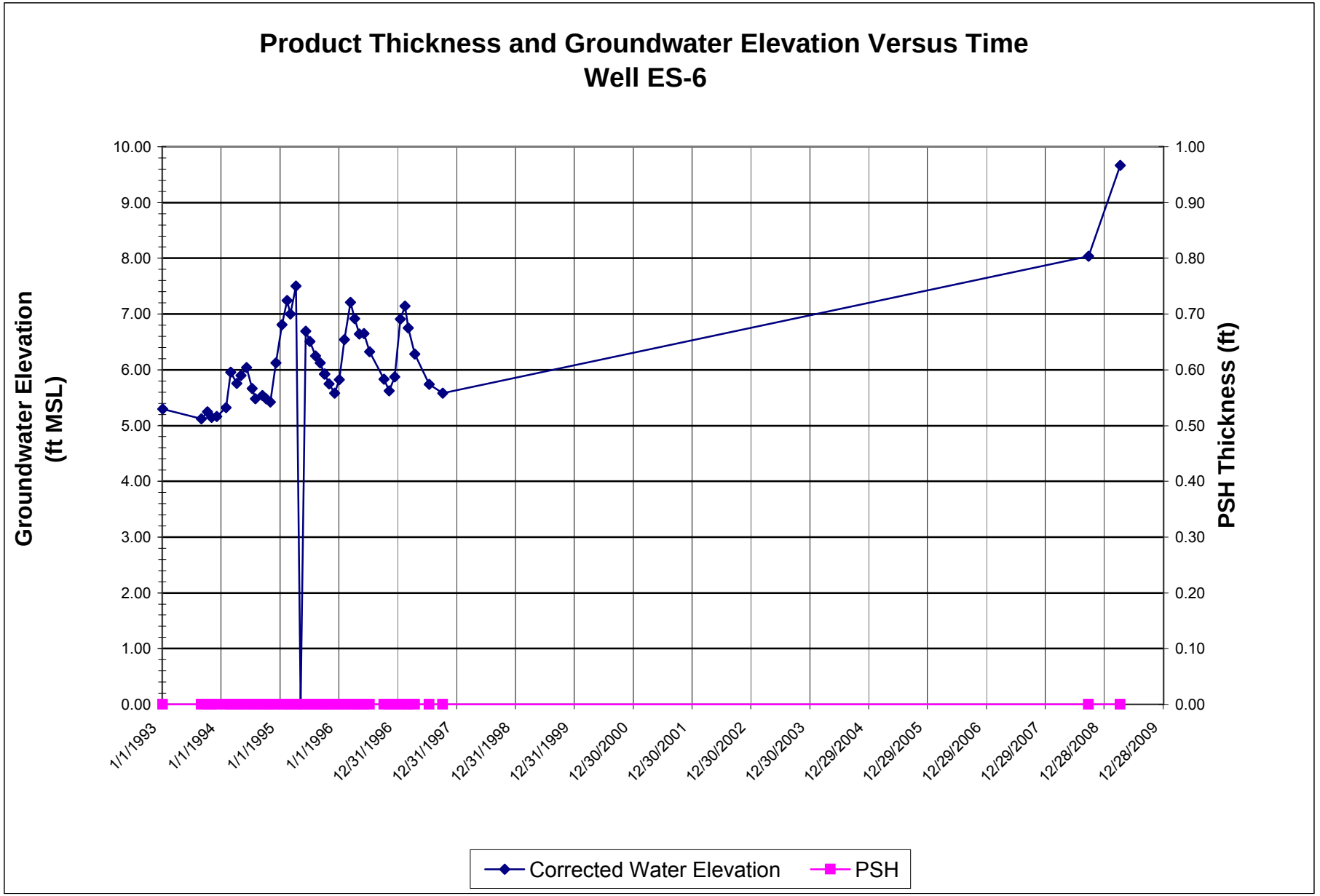

Product Thickness and Groundwater Elevation Versus Time
Well ES-1
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1997
1/1/1998
1/1/1999
1/1/2000
12/31/2000
12/31/2001
12/31/2002
12/31/2003
12/30/2004
12/30/2005
12/30/2006
12/30/2007
12/29/2008
12/29/2009
Date
Corrected Water Elevation
PSH

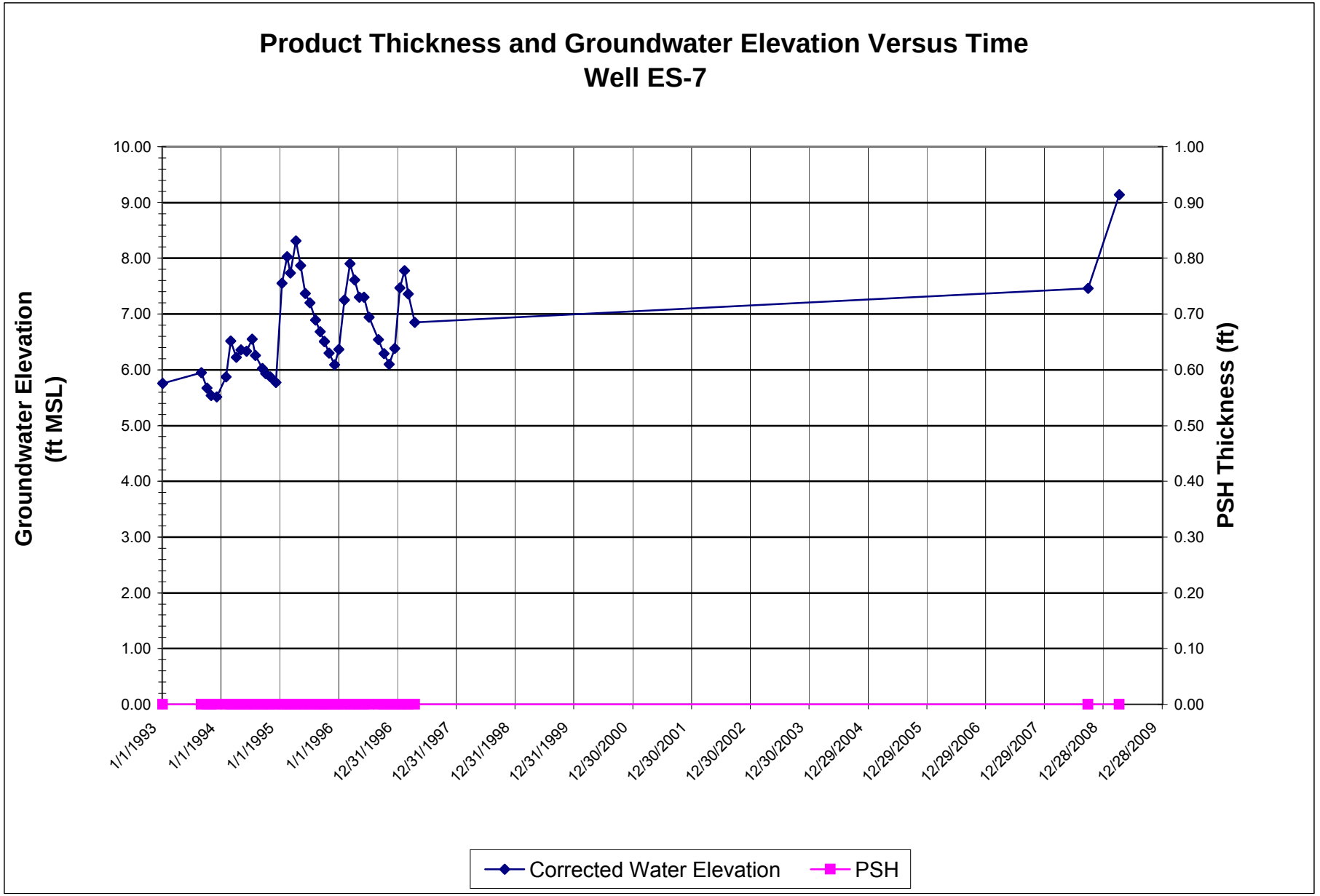

Product Thickness and Groundwater Elevation Versus Time
Well ES-2
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1992
12/31/1992
12/31/1993
12/31/1994
12/31/1995
12/30/1996
12/30/1997
12/30/1998
12/30/1999
12/29/2000
12/29/2001
12/29/2002
12/29/2003
12/28/2004
12/28/2005
12/28/2006
12/28/2007
12/27/2008
12/27/2009
Corrected Water Elevation
PSH

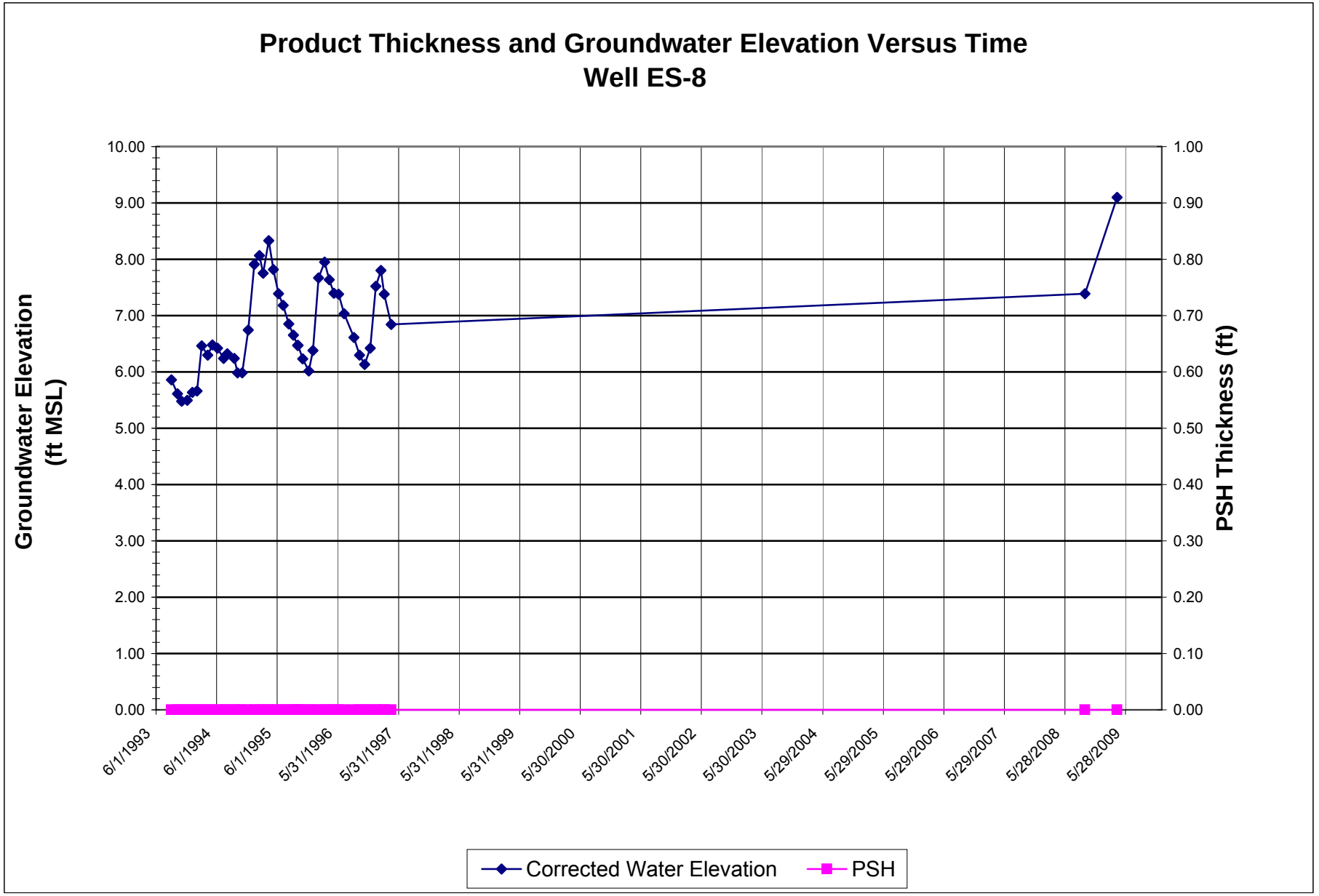

Product Thickness and Groundwater Elevation Versus Time
Well ES-3
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1992
12/31/1992
12/31/1993
12/31/1994
12/31/1995
12/30/1996
12/30/1997
12/30/1998
12/30/1999
12/29/2000
12/29/2001
12/29/2002
12/29/2003
12/28/2004
12/28/2005
12/28/2006
12/28/2007
12/27/2008
12/27/2009
Corrected Water Elevation
PSH

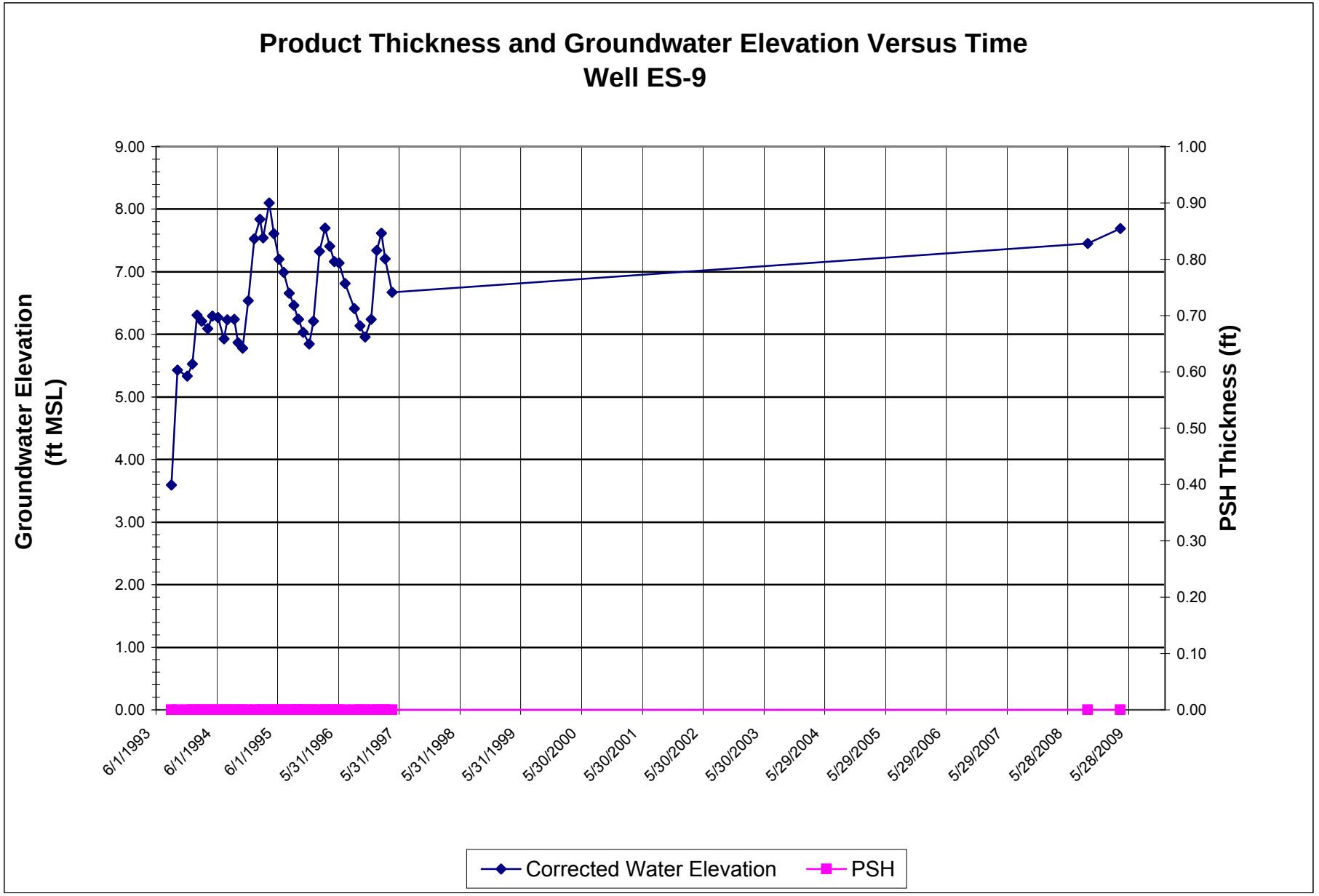

Product Thickness and Groundwater Elevation Versus Time
Well ES-4
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1992
12/31/1992
12/31/1993
12/31/1994
12/31/1995
12/30/1996
12/30/1997
12/30/1998
12/30/1999
12/29/2000
12/29/2001
12/29/2002
12/29/2003
12/28/2004
12/28/2005
12/28/2006
12/28/2007
12/27/2008
12/27/2009
Corrected Water Elevation
PSH

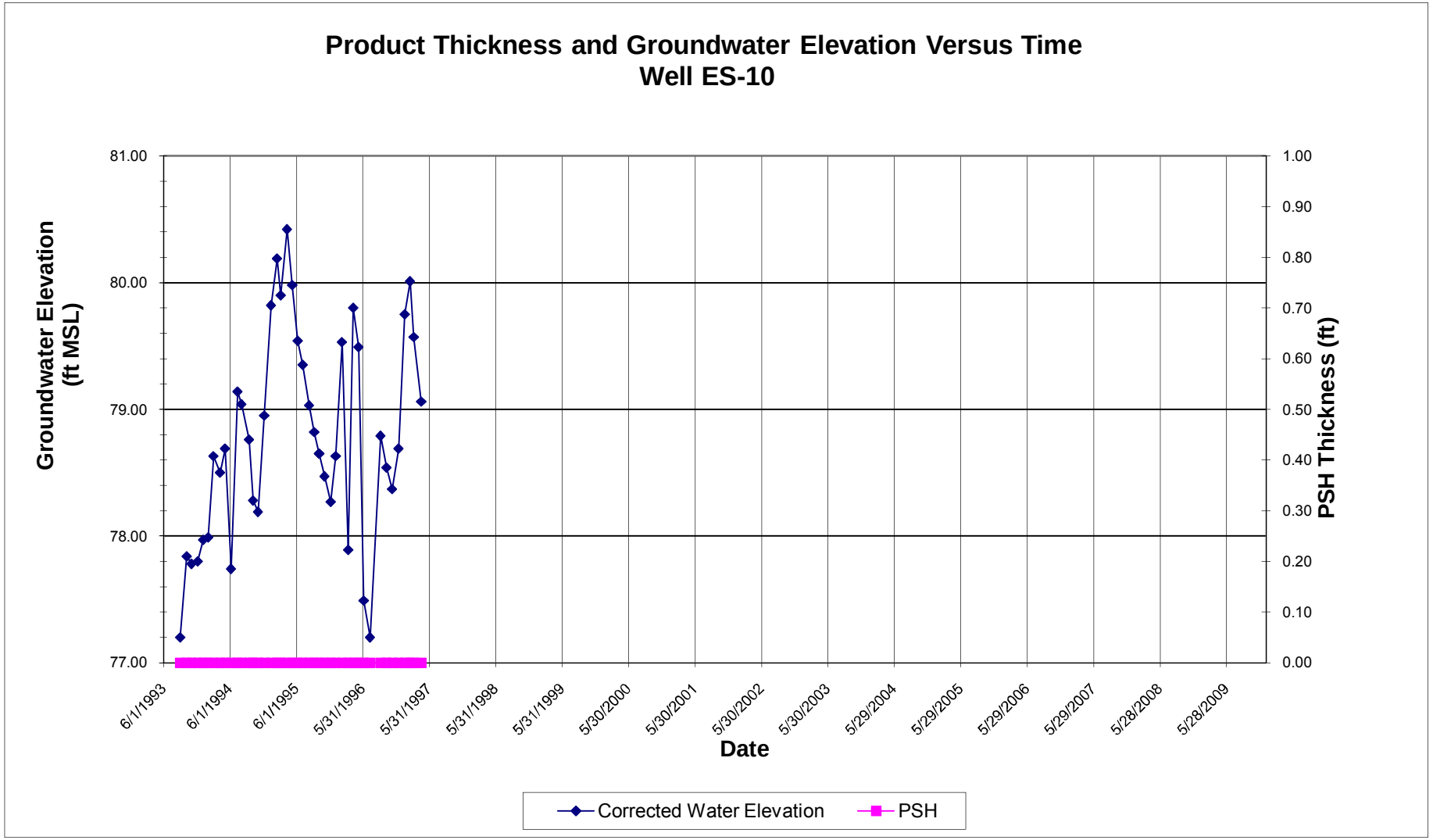

Product Thickness and Groundwater Elevation Versus Time
Well ES-5
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/1/1992
12/31/1992
12/31/1993
12/31/1994
12/31/1995
12/30/1996
12/30/1997
12/30/1998
12/30/1999
12/29/2000
12/29/2001
12/29/2002
12/29/2003
12/28/2004
12/28/2005
12/28/2006
12/28/2007
12/27/2008
12/27/2009
Corrected Water Elevation
PSH

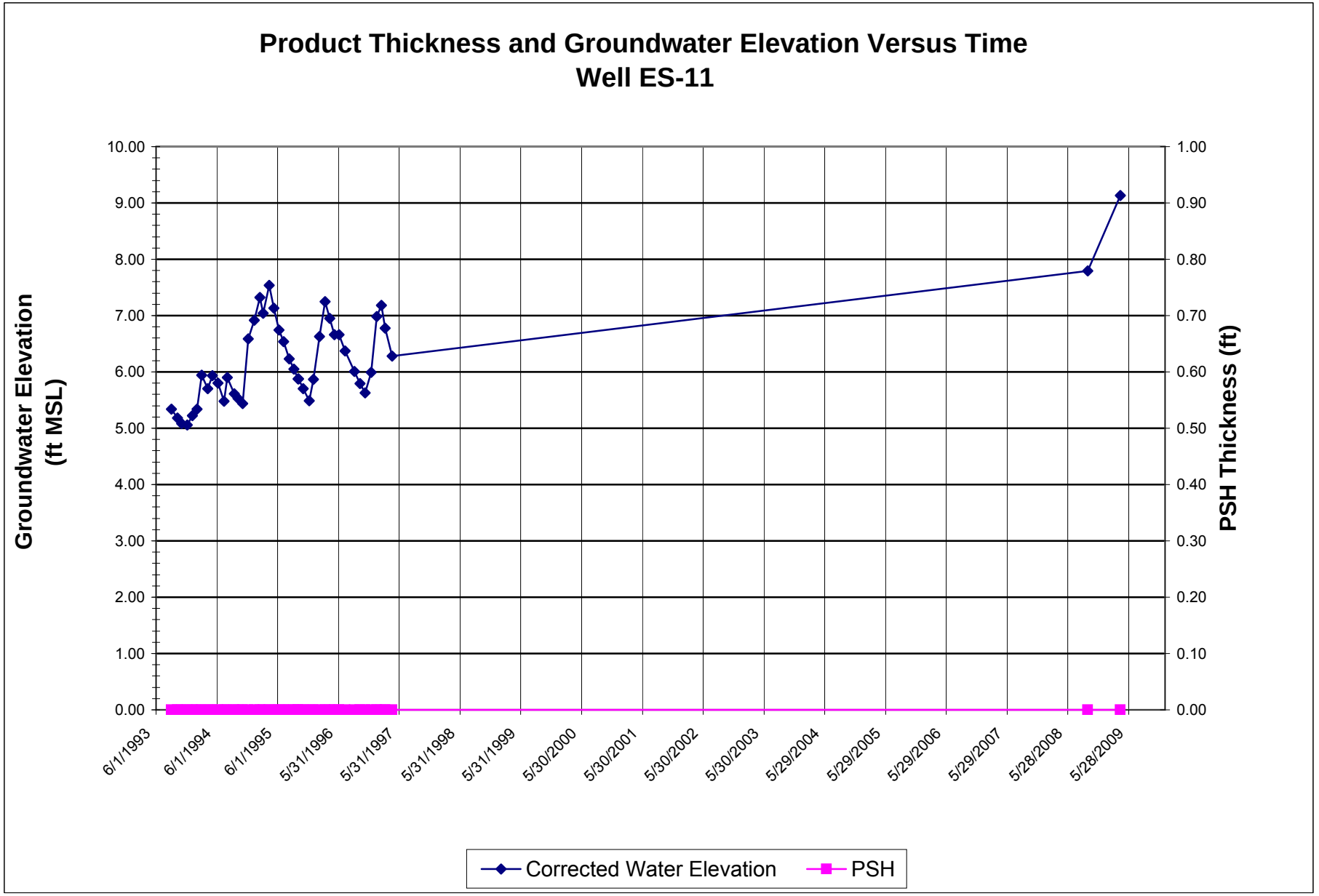

Product Thickness and Groundwater Elevation Versus Time
Well ES-6
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1993
1/1/1994
1/1/1995
1/1/1996
12/31/1996
12/31/1997
12/31/1998
12/31/1999
12/30/2000
12/30/2001
12/30/2002
12/30/2003
12/29/2004
12/29/2005
12/29/2006
12/29/2007
12/28/2008
12/28/2009
Corrected Water Elevation
PSH


Product Thickness and Groundwater Elevation Versus Time
Well ES-7
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1/1/1993
1/1/1994
1/1/1995
1/1/1996
12/31/1996
12/31/1997
12/31/1998
12/31/1999
12/30/2000
12/30/2001
12/30/2002
12/30/2003
12/29/2004
12/29/2005
12/29/2006
12/29/2007
12/28/2008
12/28/2009
Corrected Water Elevation
PSH


Product Thickness and Groundwater Elevation Versus Time
Well ES-8
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
6/1/1993
6/1/1994
6/1/1995
5/31/1996
5/31/1997
5/31/1998
5/31/1999
5/30/2000
5/30/2001
5/30/2002
5/30/2003
5/29/2004
5/29/2005
5/29/2006
5/29/2007
5/28/2008
5/28/2009
Corrected Water Elevation
PSH


Product Thickness and Groundwater Elevation Versus Time
Well ES-9
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
6/1/1993
6/1/1994
6/1/1995
5/31/1996
5/31/1997
5/31/1998
5/31/1999
5/30/2000
5/30/2001
5/30/2002
5/30/2003
5/29/2004
5/29/2005
5/29/2006
5/29/2007
5/28/2008
5/28/2009
Corrected Water Elevation
PSH

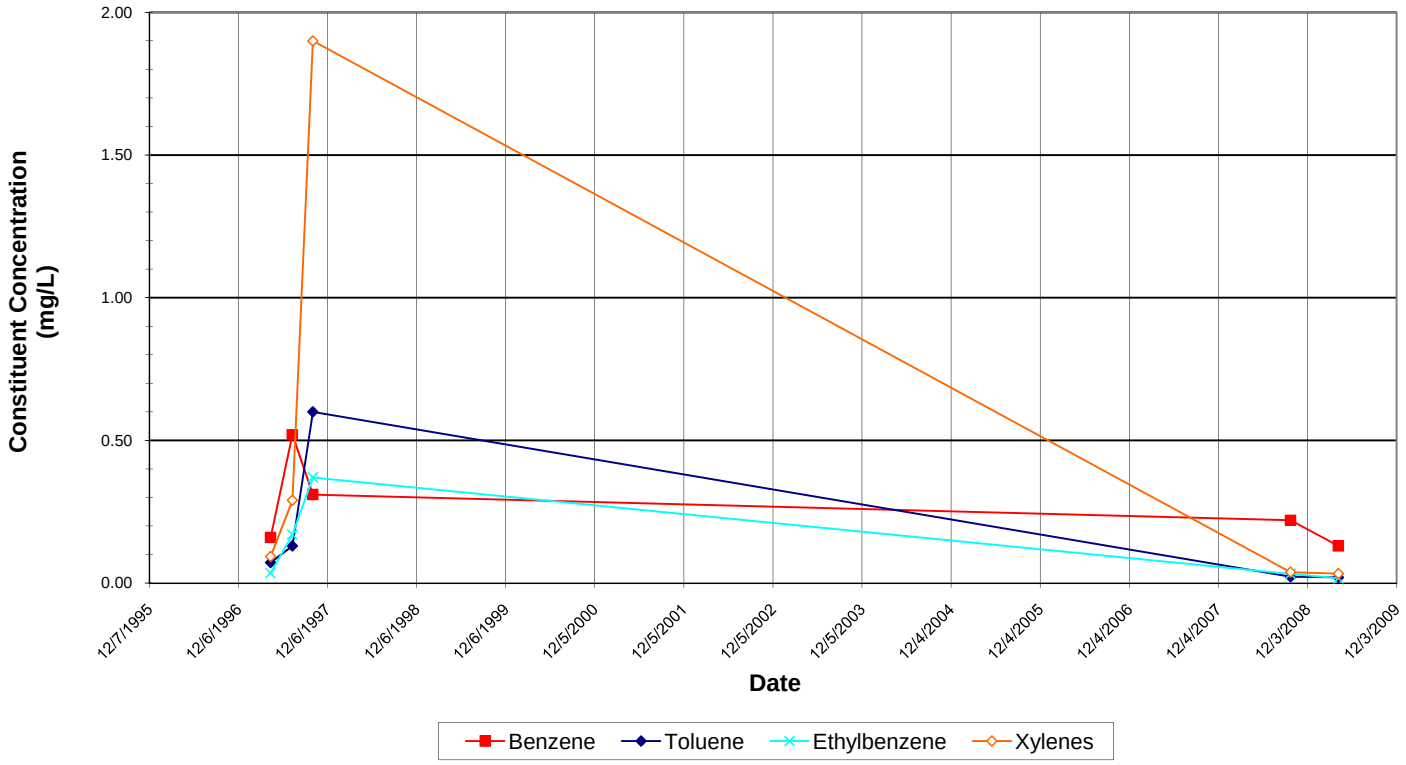

Product Thickness and Groundwater Elevation Versus Time
Well ES-10
Groundwater Elevation (ft MSL)
81.00
80.00
79.00
78.00
77.00
PSH Thickness (ft)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
6/1/1993
6/1/1994
6/1/1995
5/31/1996
5/31/1997
5/31/1998
5/31/1999
5/30/2000
5/30/2001
5/30/2002
5/30/2003
5/29/2004
5/29/2005
5/29/2006
5/29/2007
5/28/2008
5/28/2009
Date
Corrected Water Elevation
PSH


Product Thickness and Groundwater Elevation Versus Time
Well ES-11
Groundwater Elevation (ft MSL)
PSH Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
6/1/1993
6/1/1994
6/1/1995
5/31/1996
5/31/1997
5/31/1998
5/31/1999
5/30/2000
5/30/2001
5/30/2002
5/30/2003
5/29/2004
5/29/2005
5/29/2006
5/29/2007
5/28/2008
5/28/2009
Corrected Water Elevation
PSH

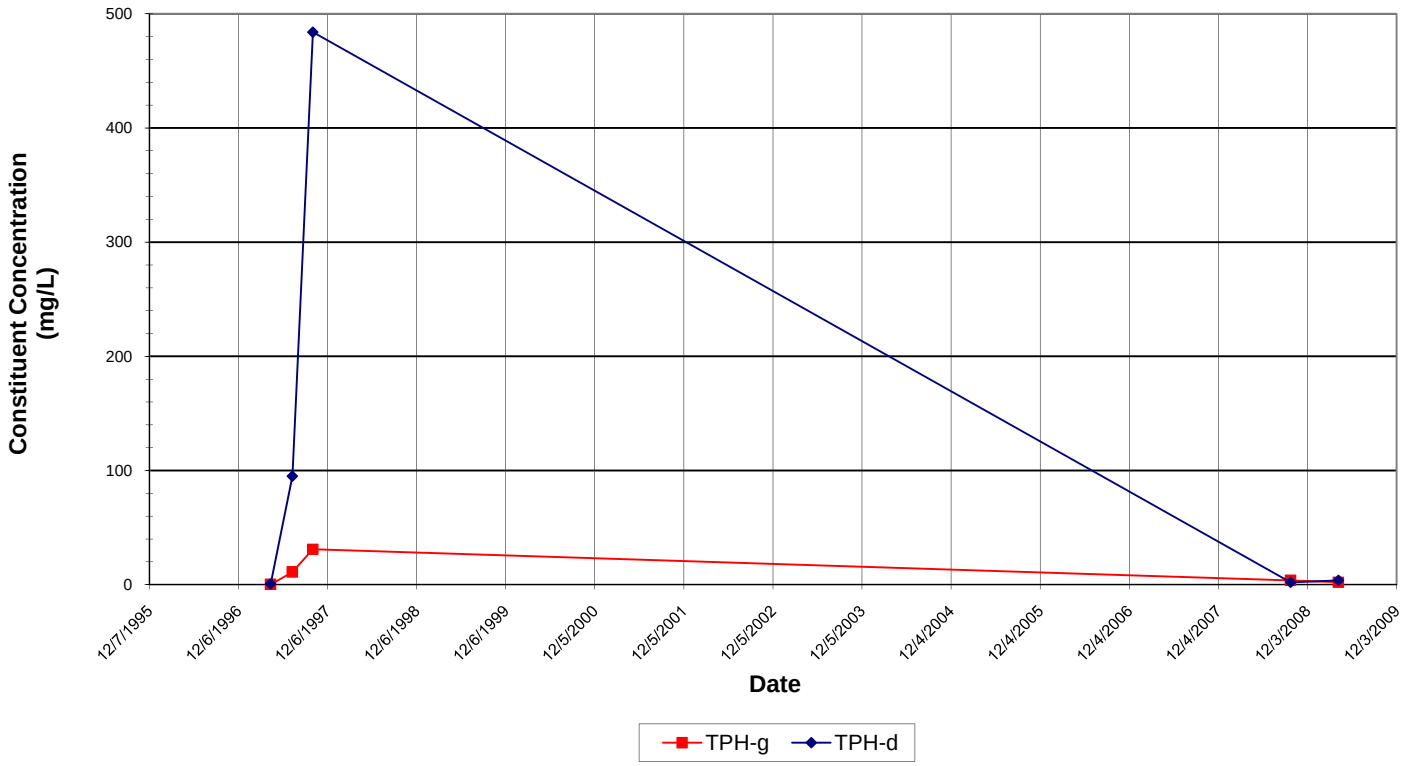
APPENDIX B

Dissolved-Phase BTEX and TPH Constituent Graphs

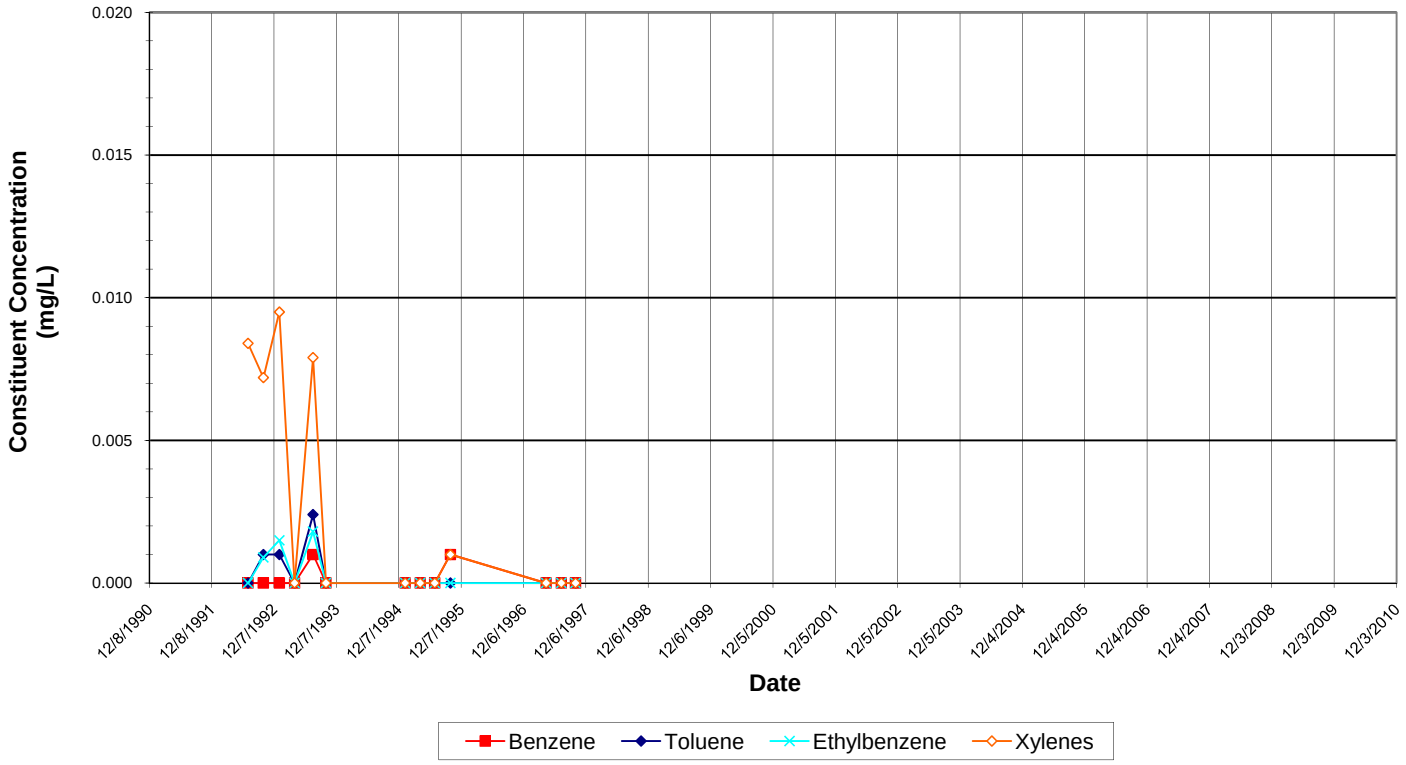
Dissolved-Phase BTEX Constituents Versus Time
Well BC-1



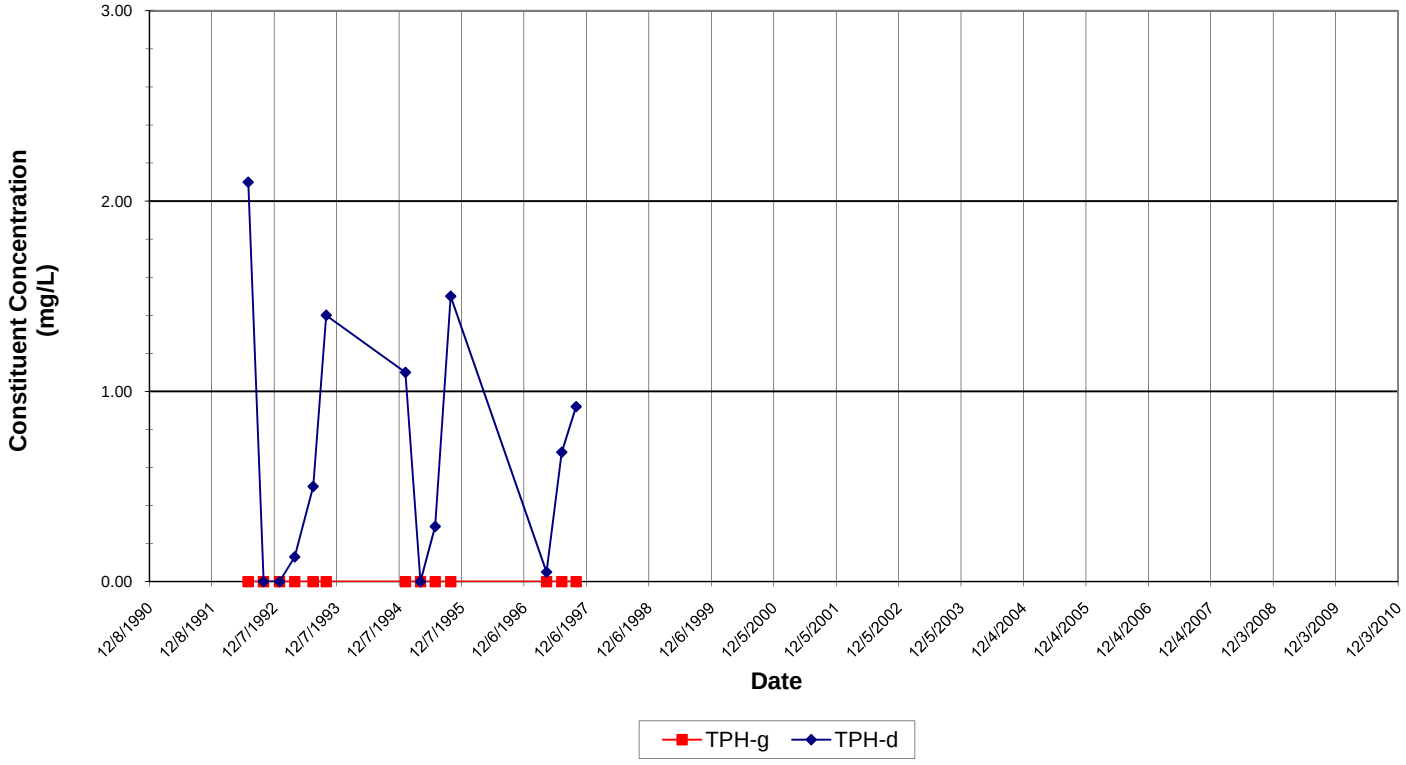
Dissolved-Phase TPH Constituents Versus Time
Well BC-1



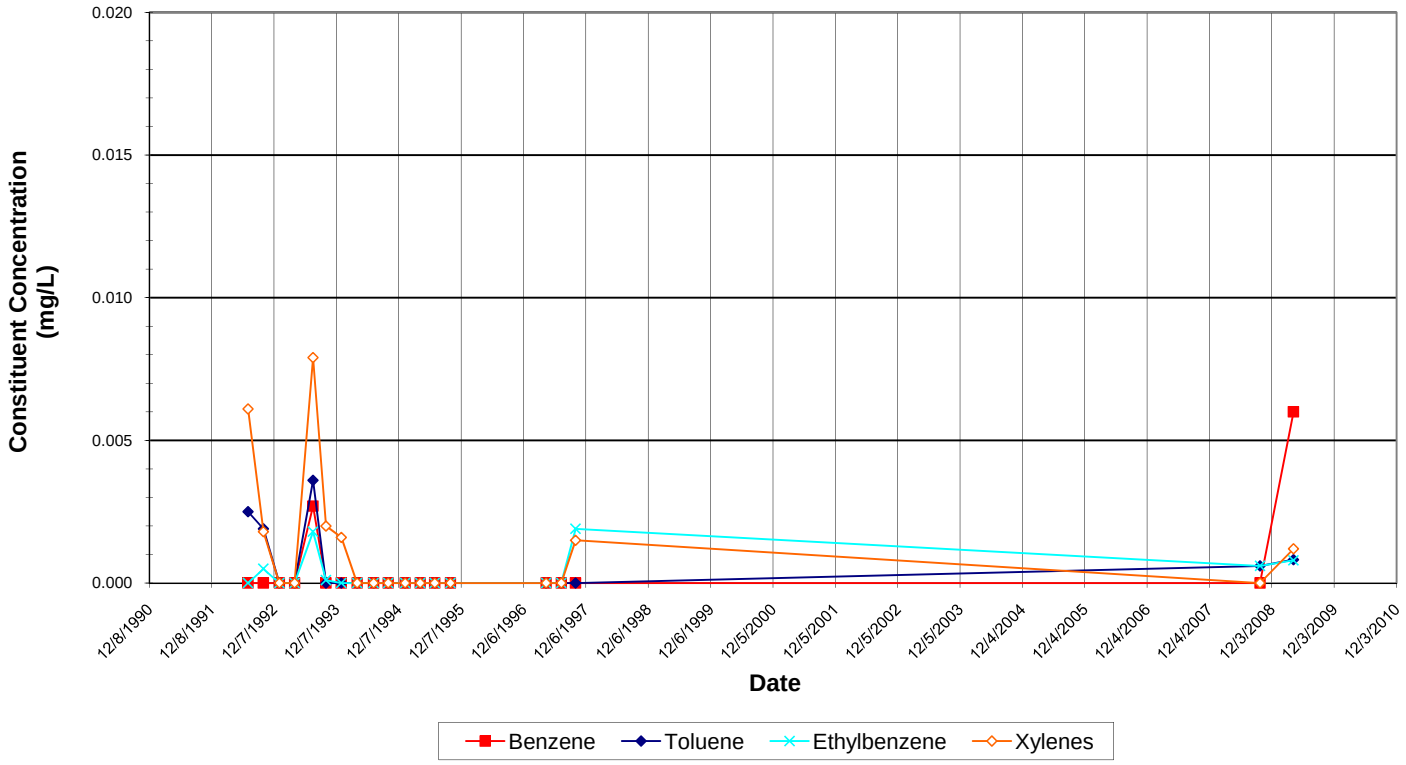
Dissolved-Phase BTEX Constituents Versus Time
Well BC-2



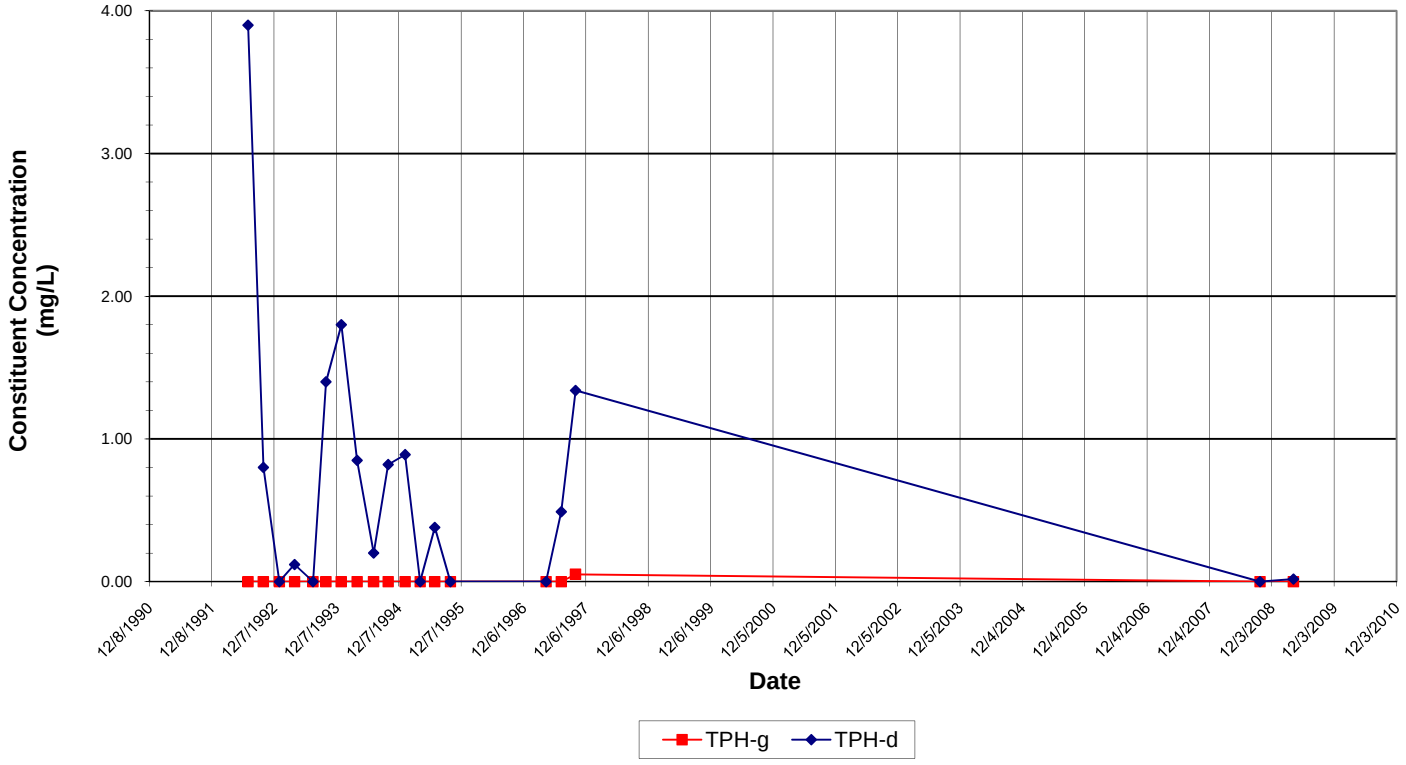
Dissolved-Phase TPH Constituents Versus Time
Well BC-2



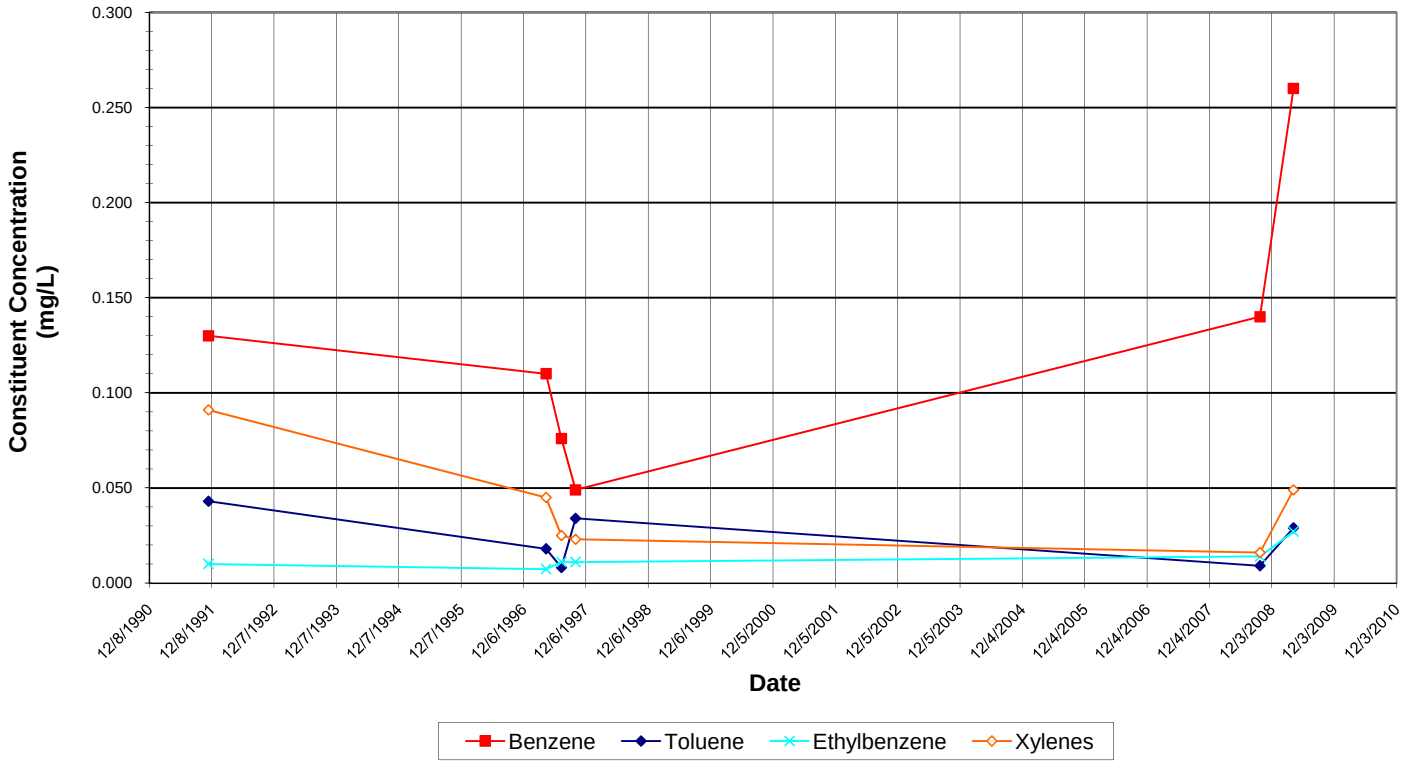
Dissolved-Phase BTEX Constituents Versus Time
Well BC-3



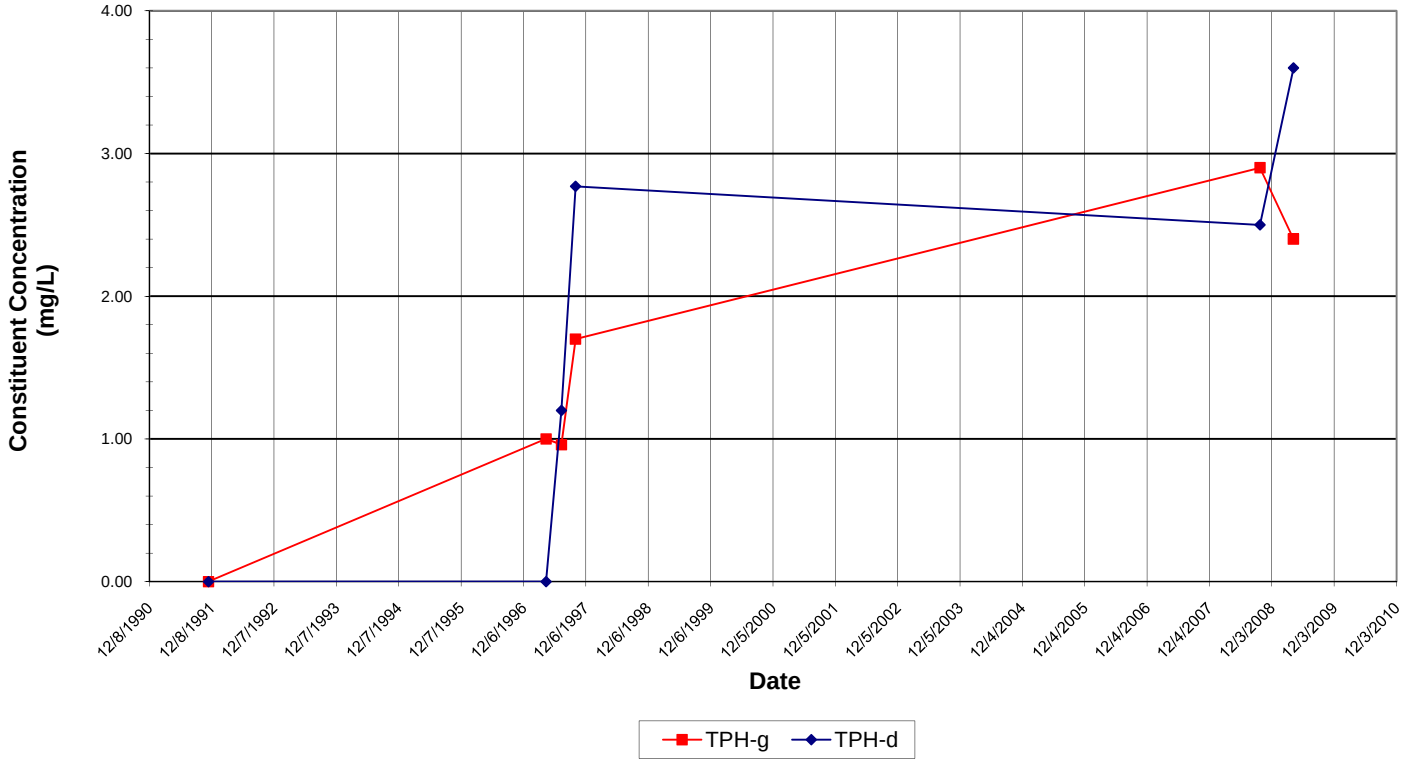
Dissolved-Phase TPH Constituents Versus Time
Well BC-3



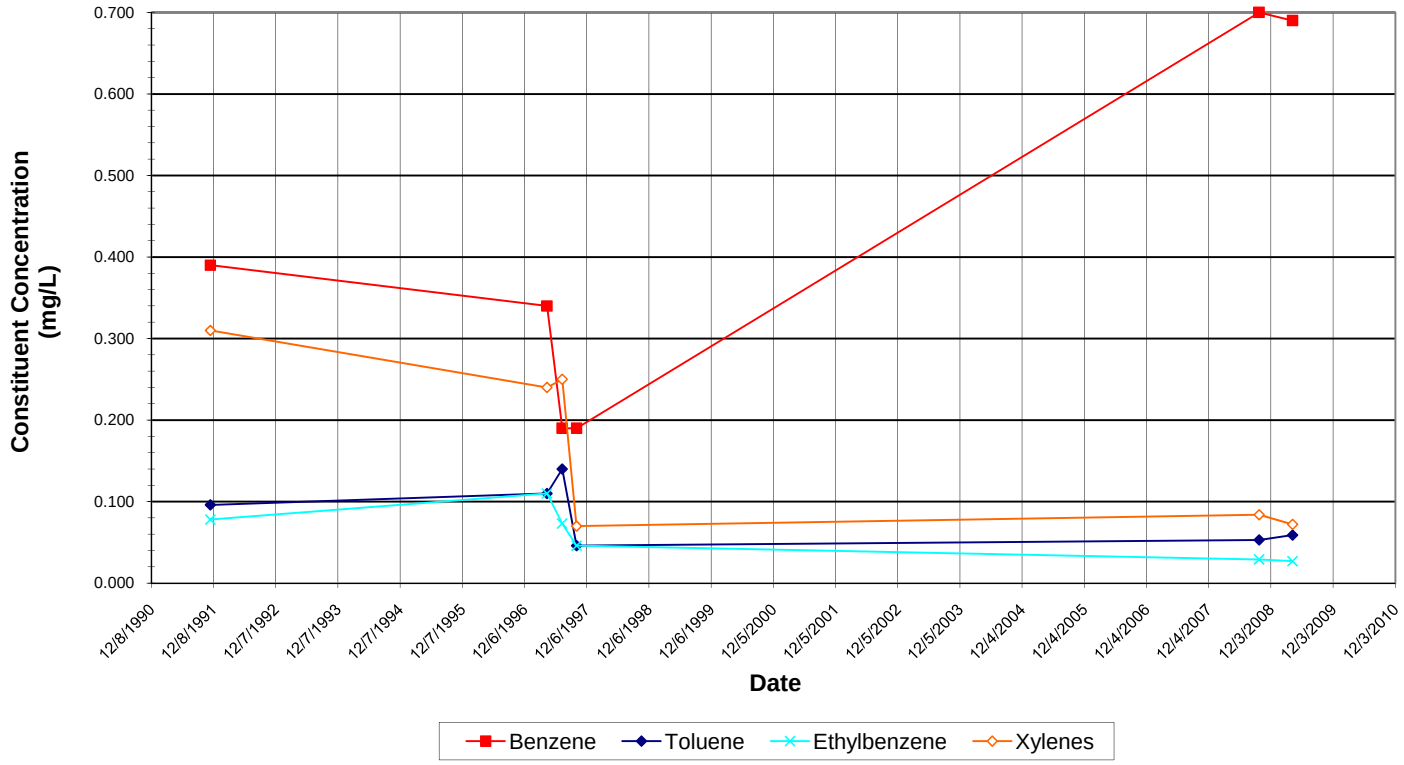
Dissolved-Phase BTEX Constituents Versus Time
Well ES-1



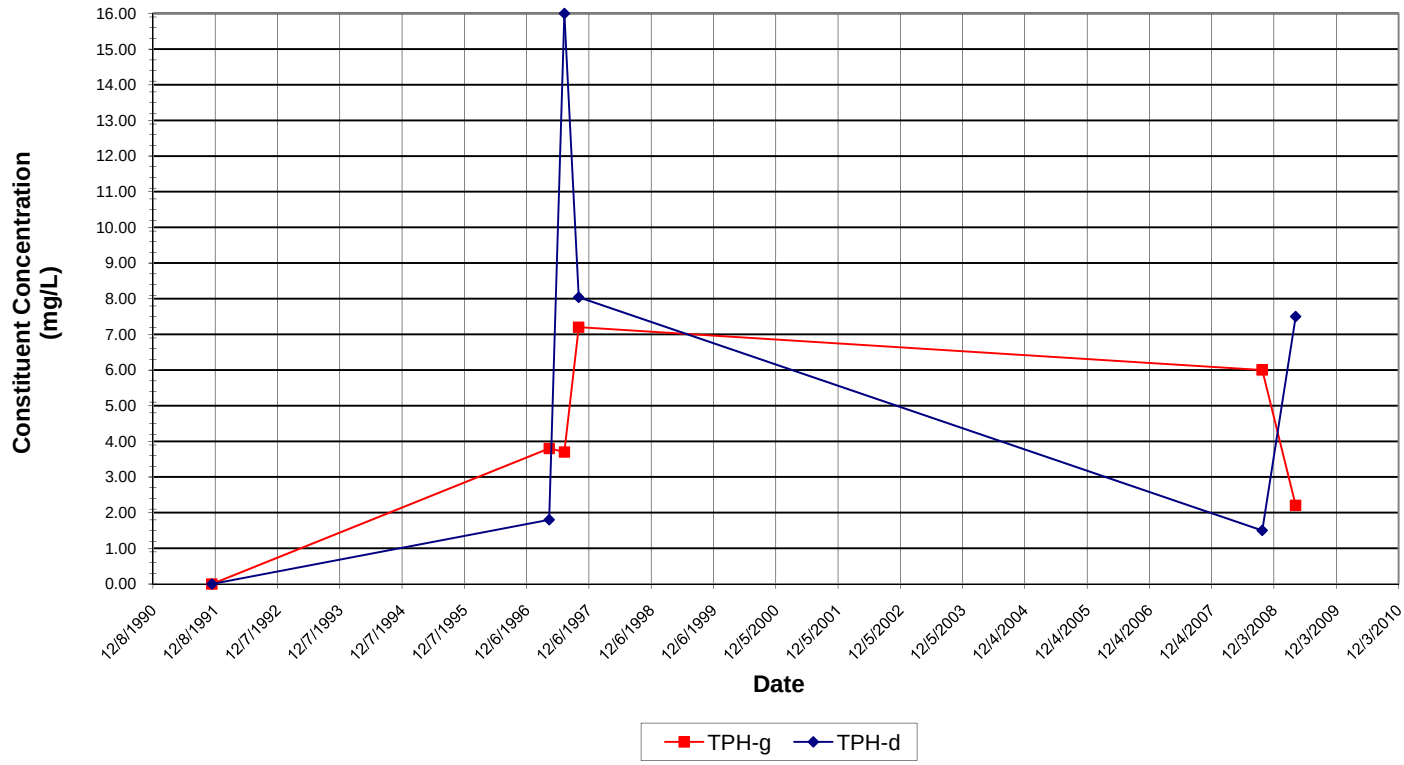
Dissolved-Phase TPH Constituents Versus Time
Well ES-1



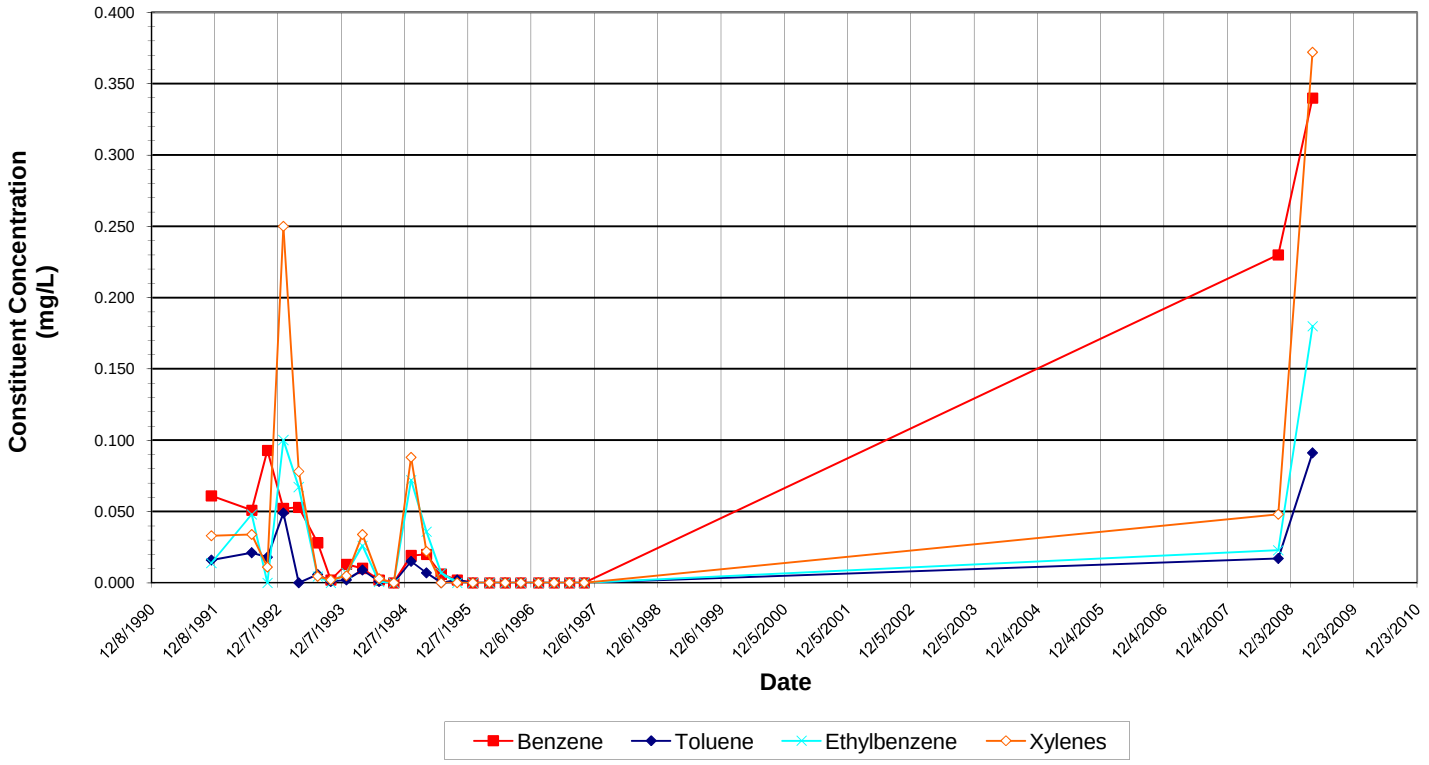
Dissolved-Phase BTEX Constituents Versus Time
Well ES-2



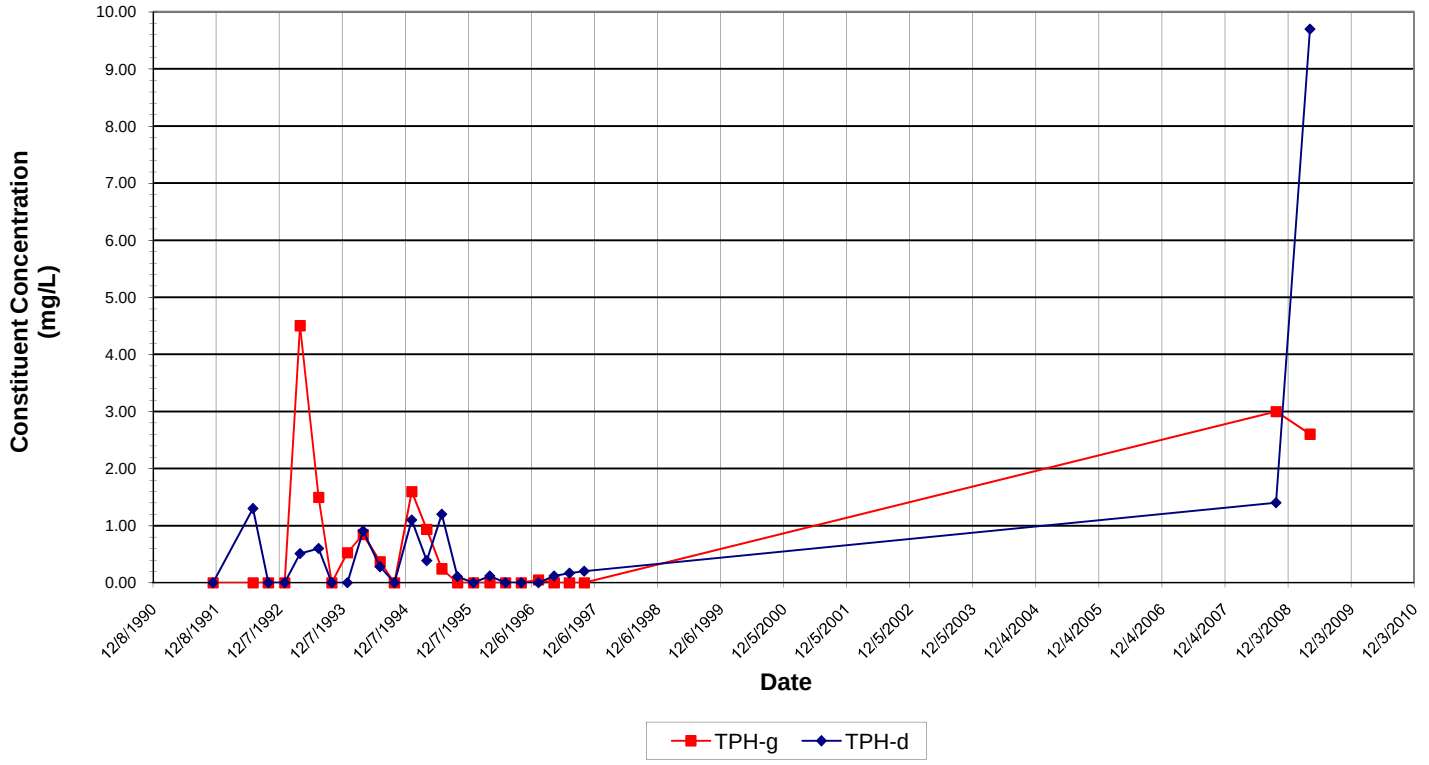
Dissolved-Phase TPH Constituents Versus Time
Well ES-2



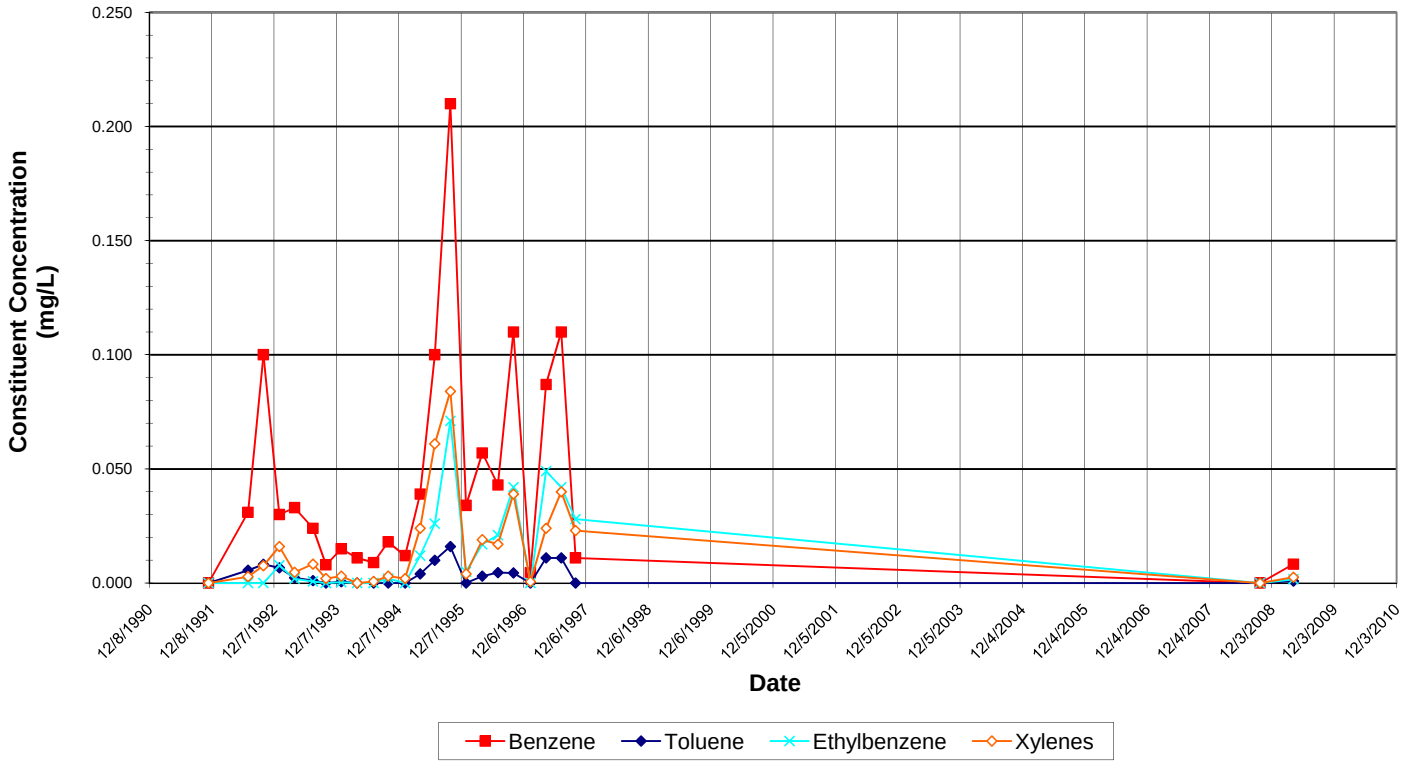
Dissolved-Phase BTEX Constituents Versus Time
Well ES-3



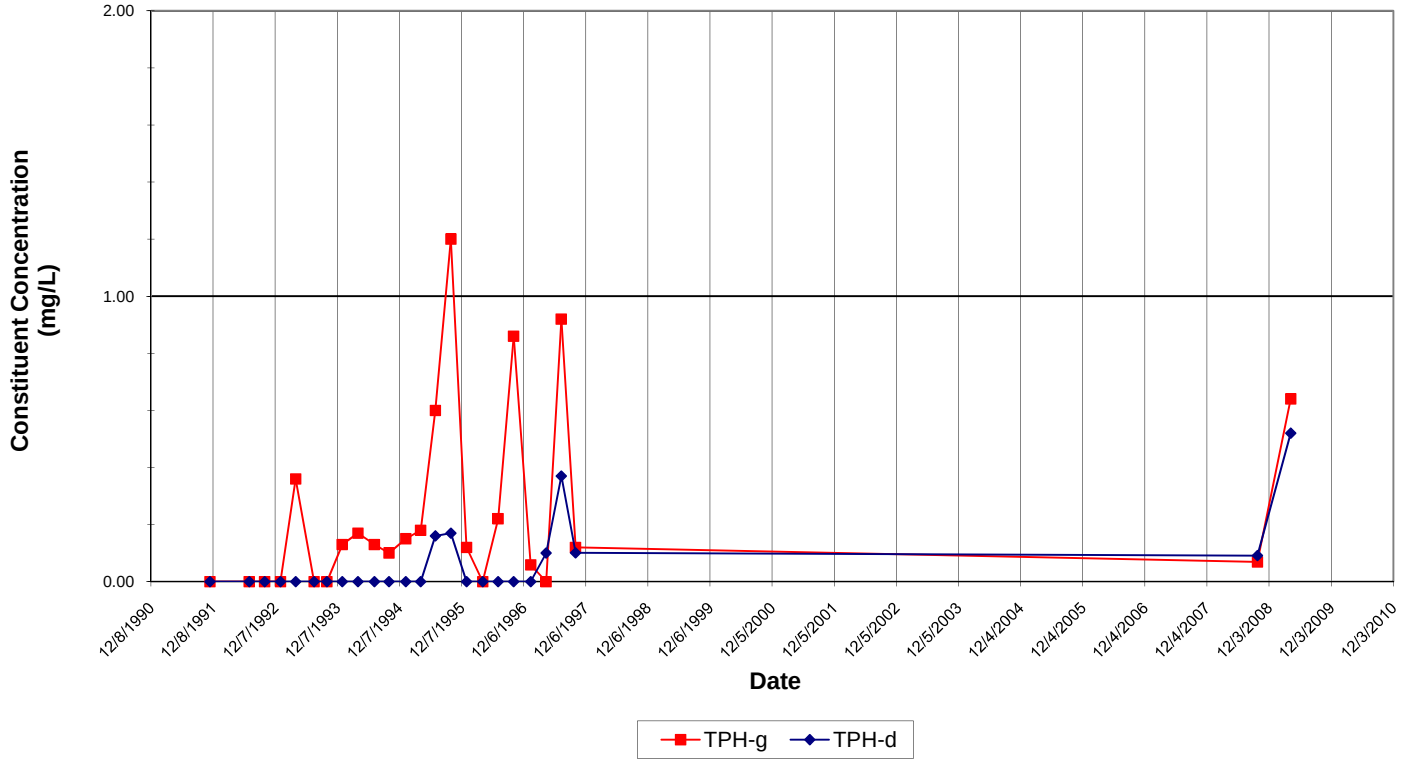
Dissolved-Phase TPH Constituents Versus Time
Well ES-3



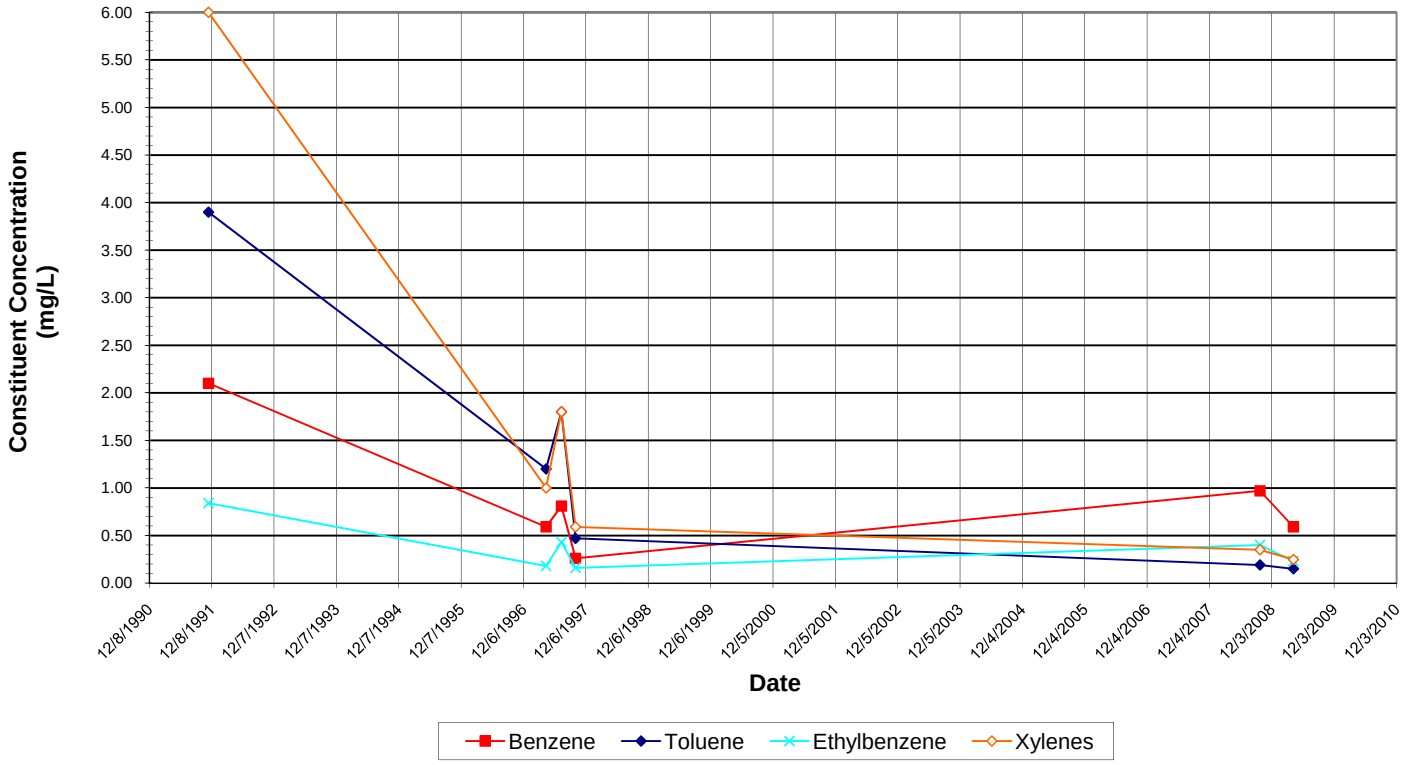
Dissolved-Phase BTEX Constituents Versus Time
Well ES-4



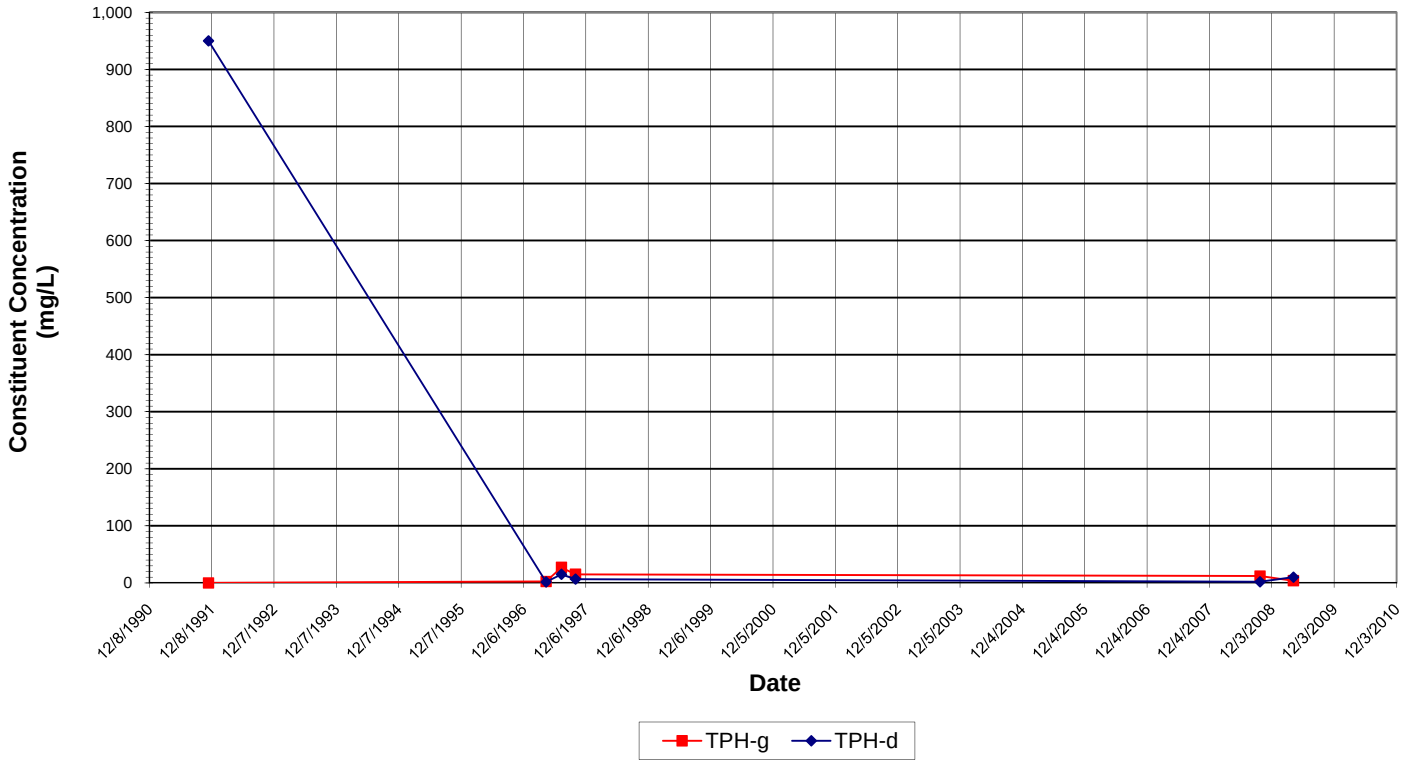
Dissolved-Phase TPH Constituents Versus Time
Well ES-4



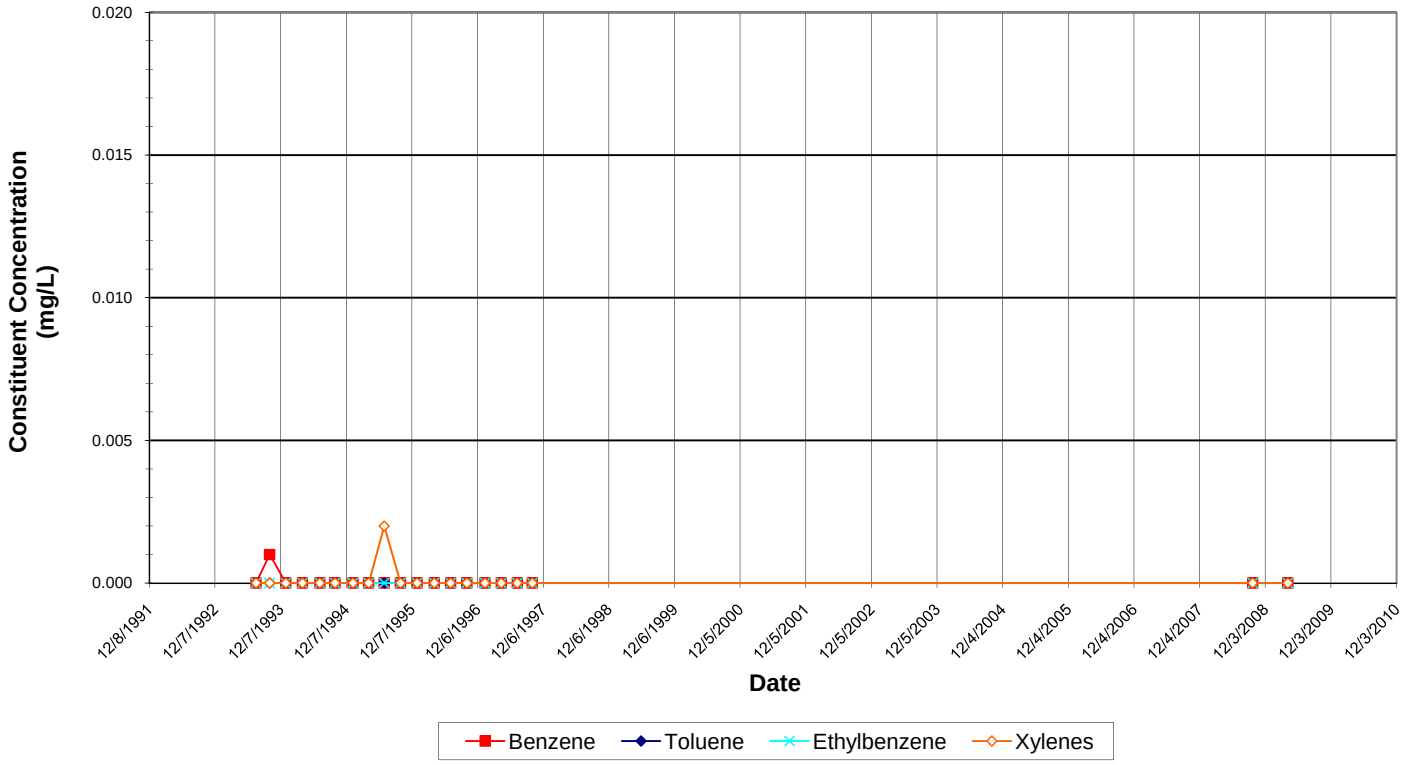
Dissolved-Phase BTEX Constituents Versus Time
Well ES-5



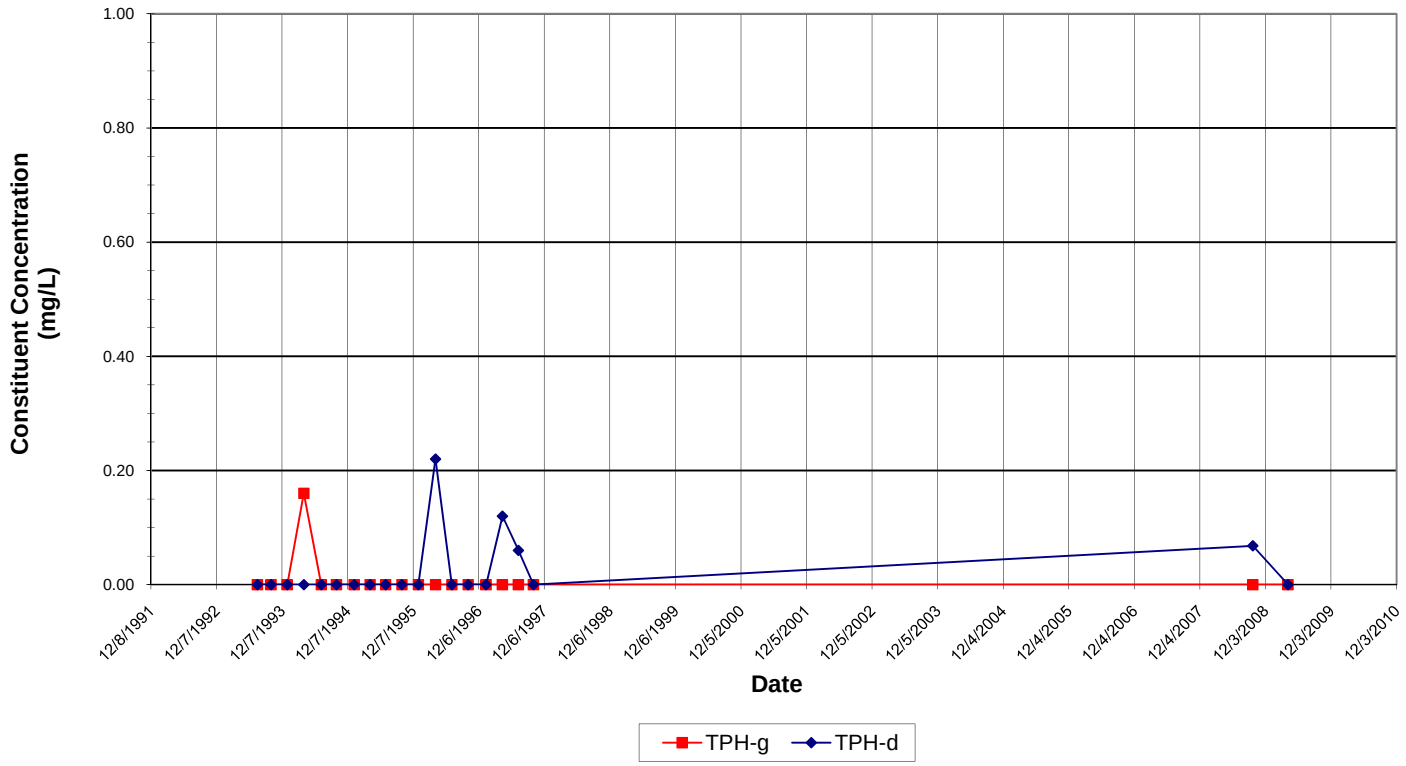
Dissolved-Phase TPH Constituents Versus Time
Well ES-5



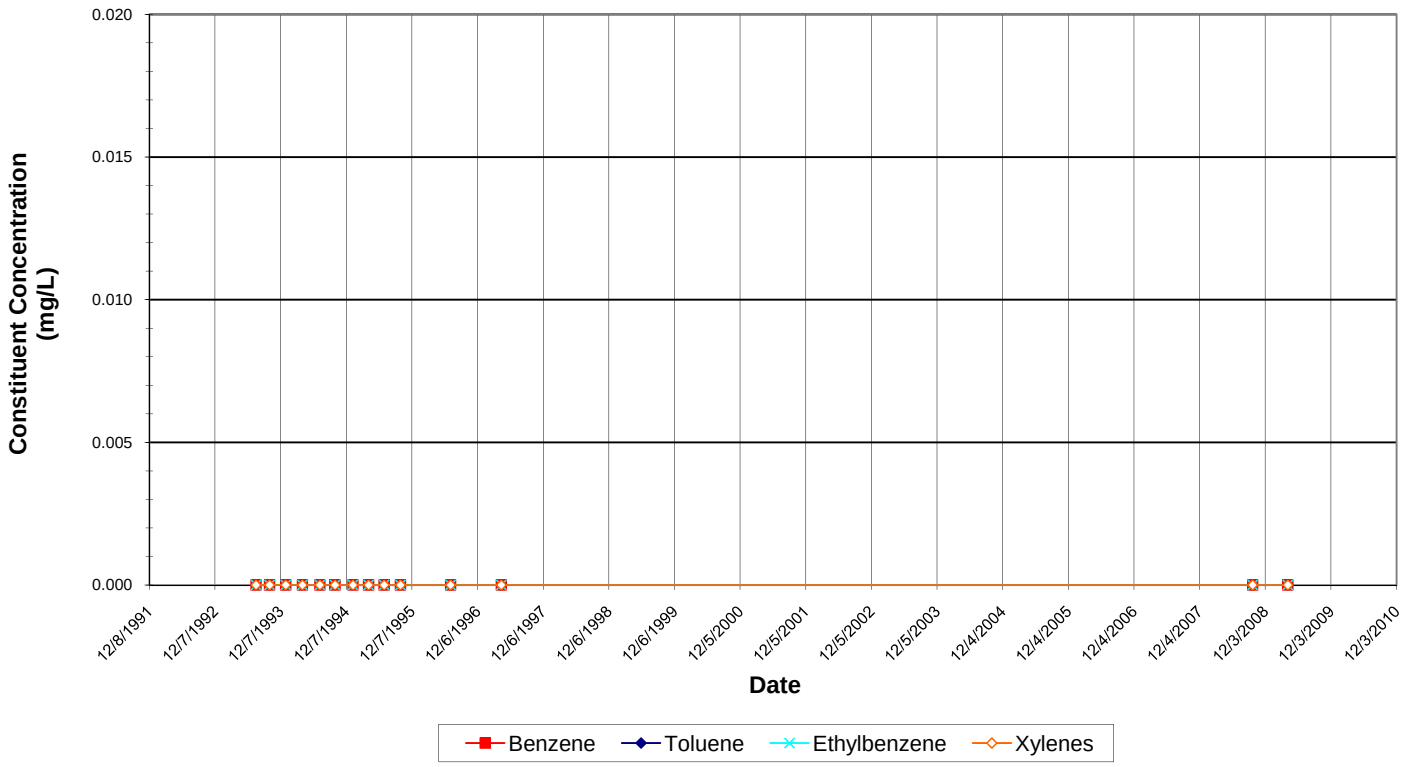
Dissolved-Phase BTEX Constituents Versus Time
Well ES-6



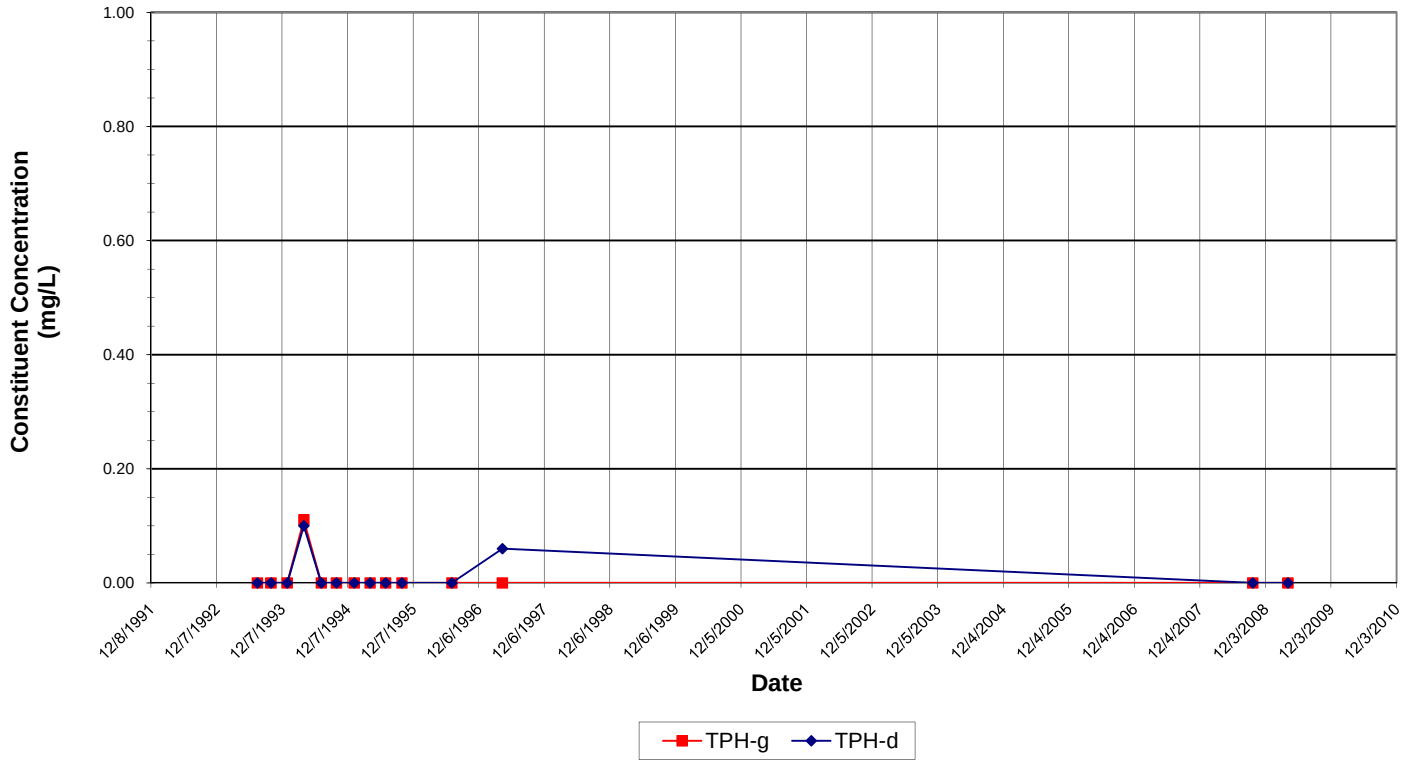
Dissolved-Phase TPH Constituents Versus Time
Well ES-6



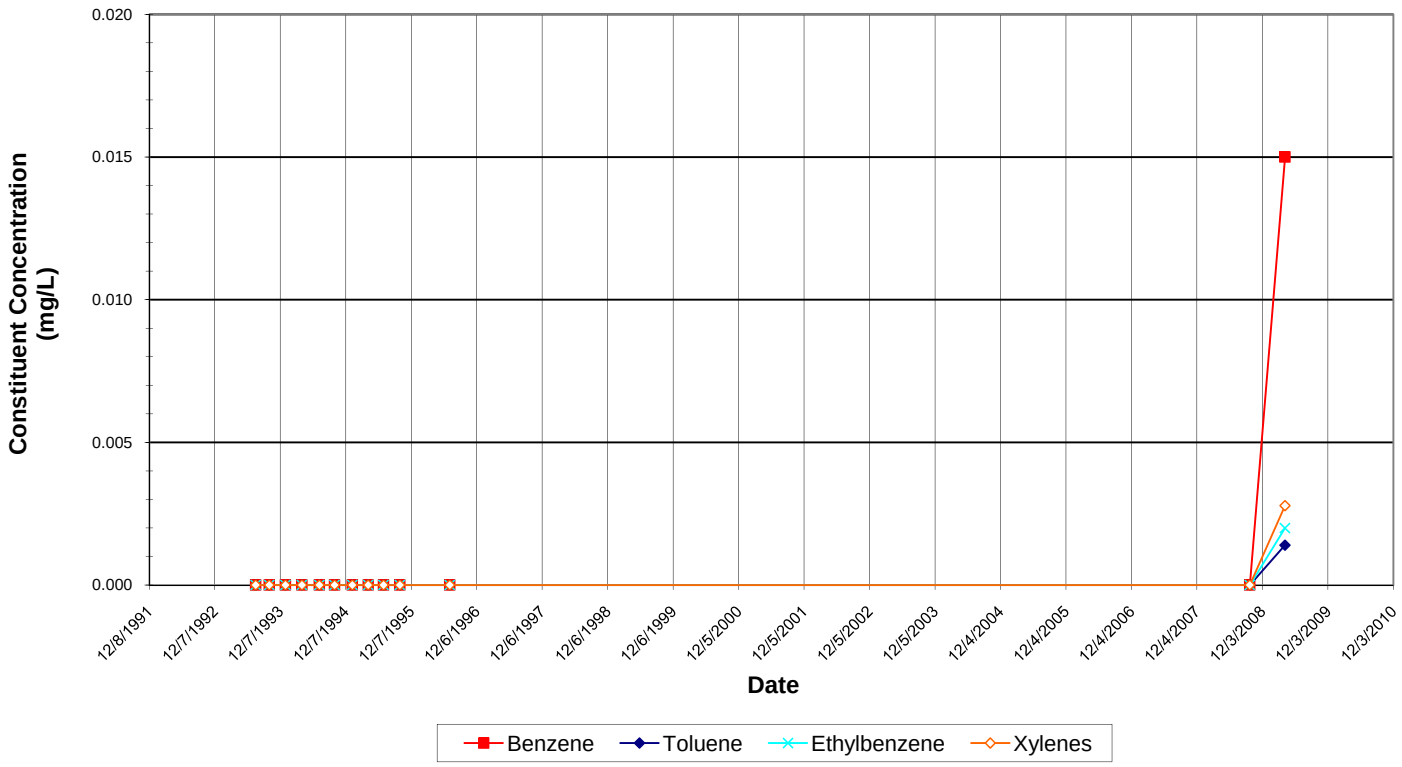
Dissolved-Phase BTEX Constituents Versus Time
Well ES-7



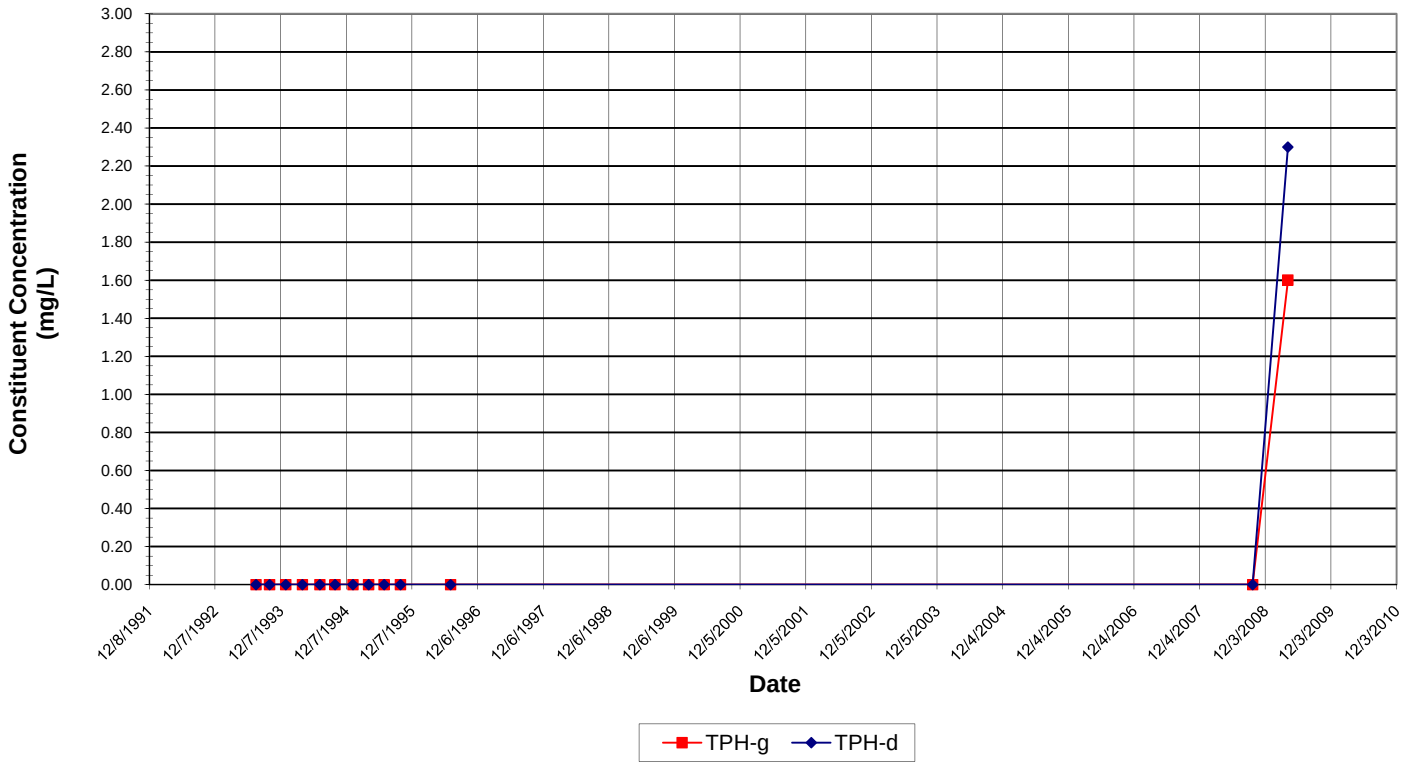
Dissolved-Phase TPH Constituents Versus Time
Well ES-7



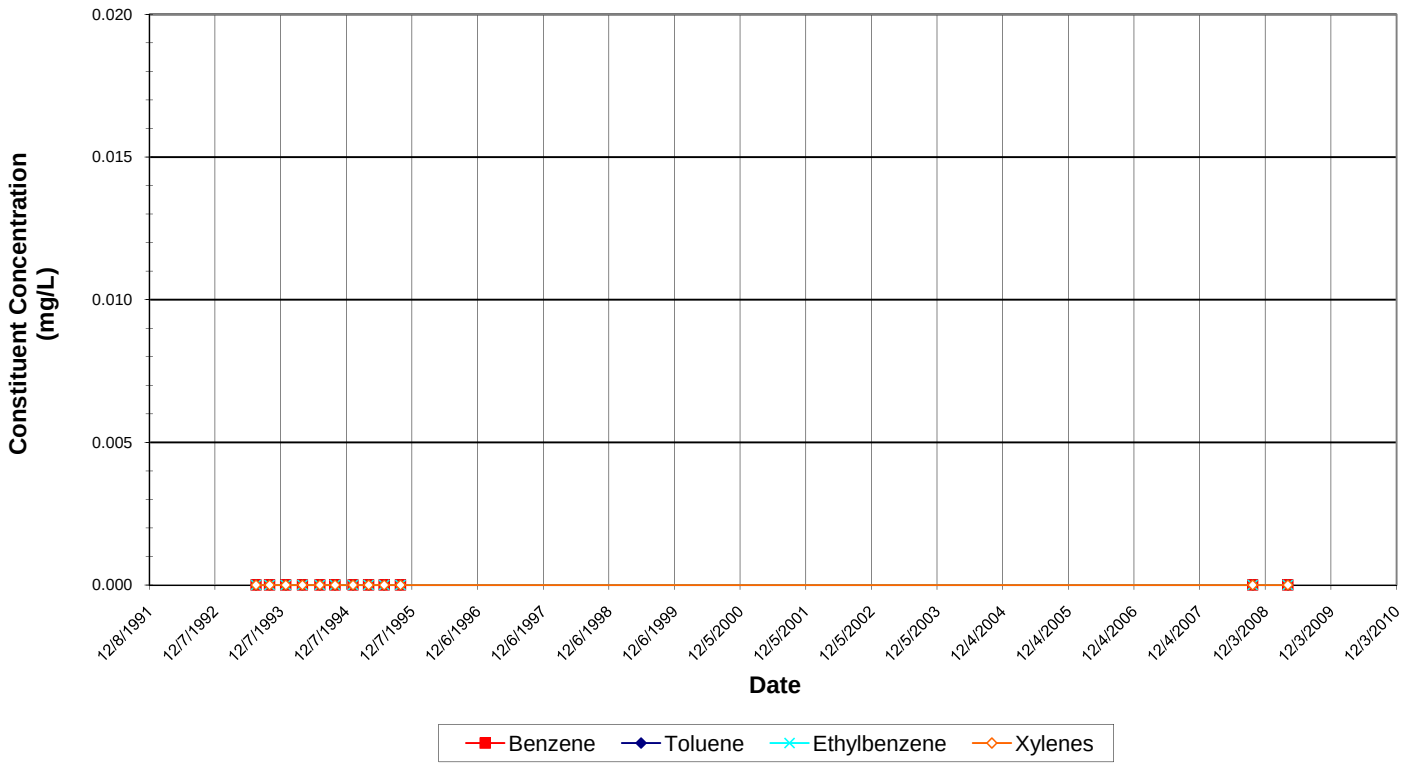
Dissolved-Phase BTEX Constituents Versus Time
Well ES-8



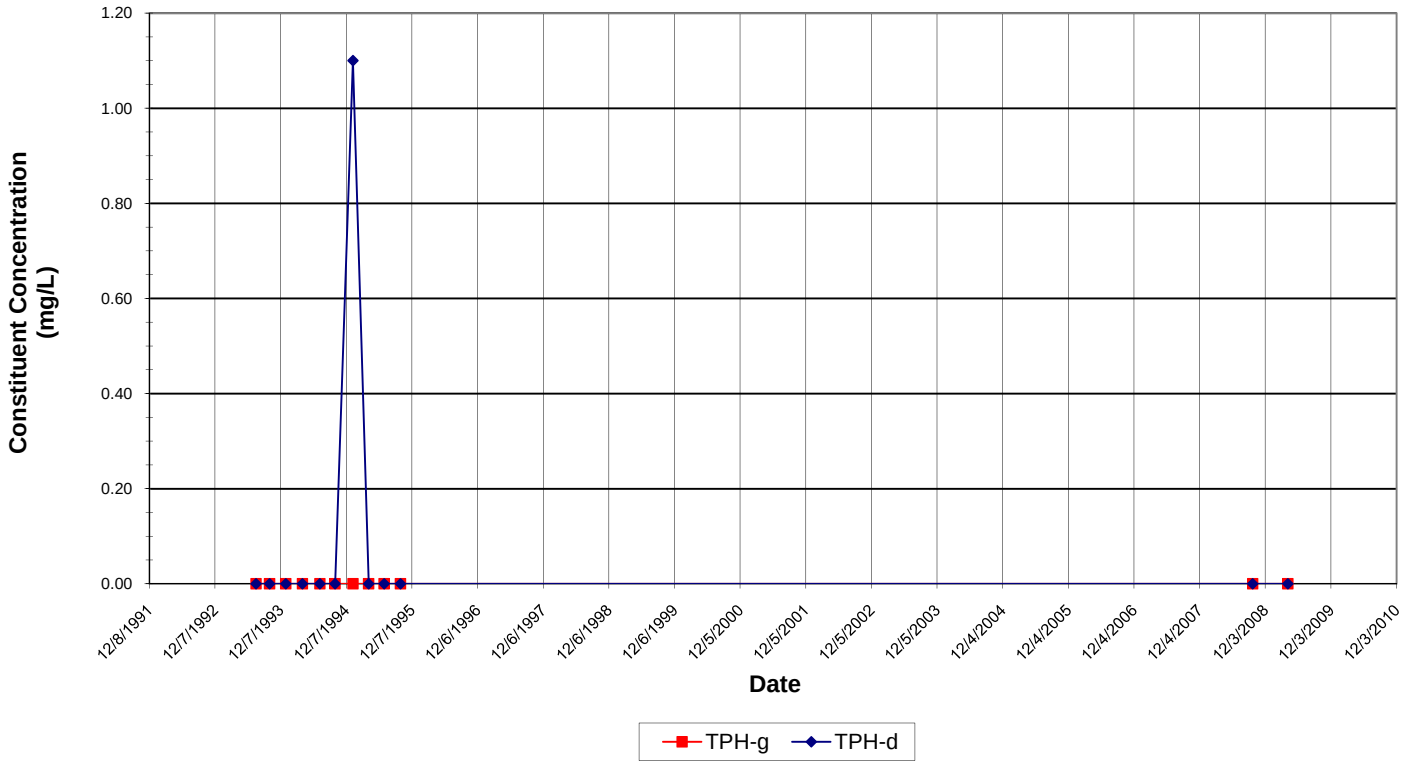
Dissolved-Phase TPH Constituents Versus Time
Well ES-8



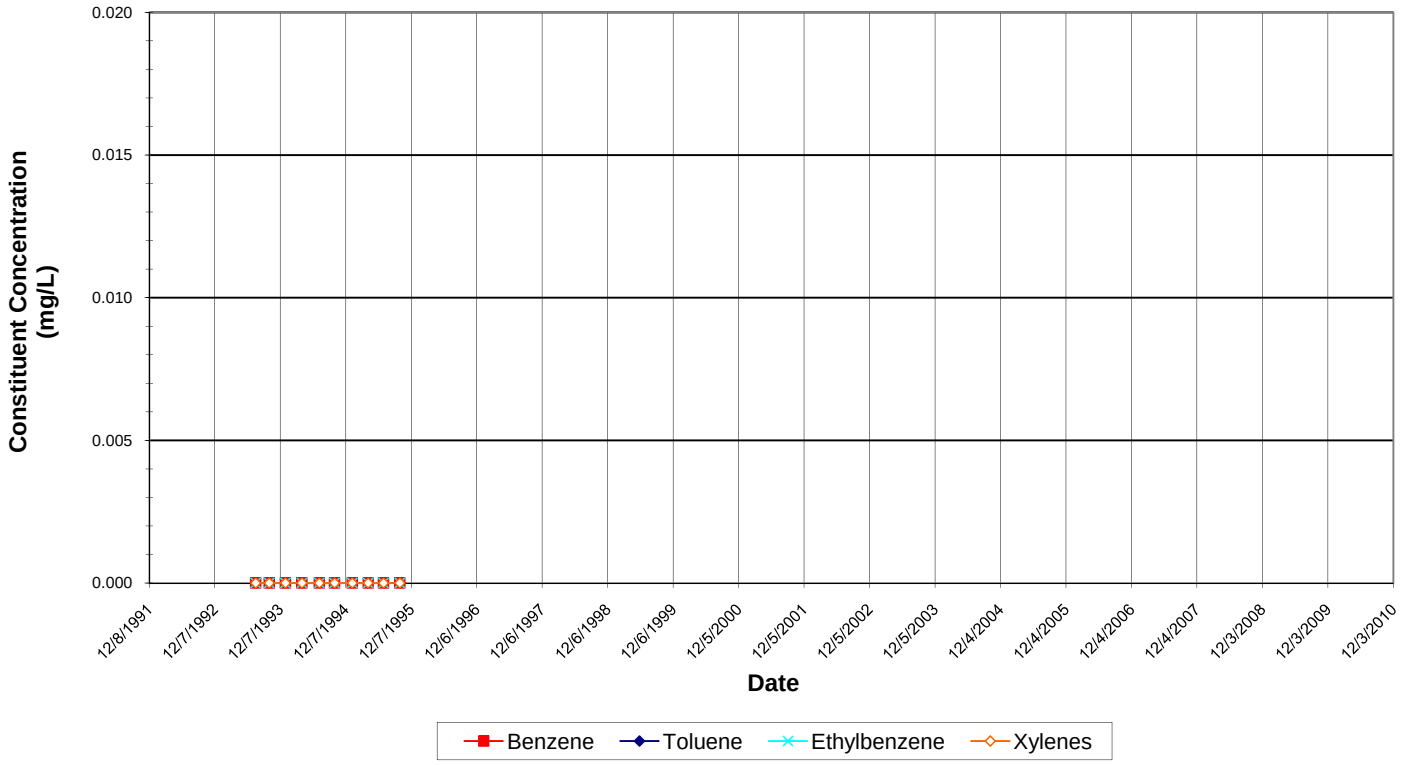
Dissolved-Phase BTEX Constituents Versus Time
Well ES-9



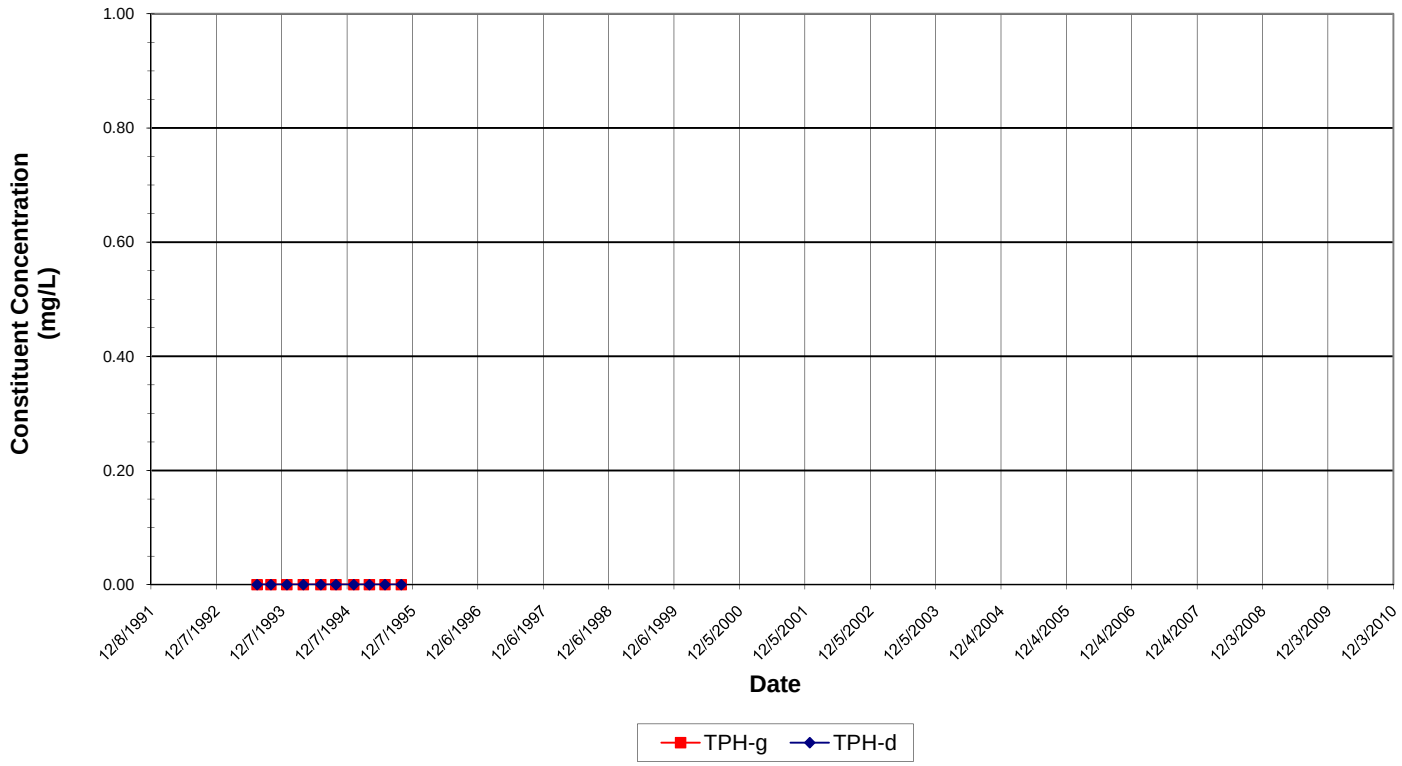
Dissolved-Phase TPH Constituents Versus Time
Well ES-9



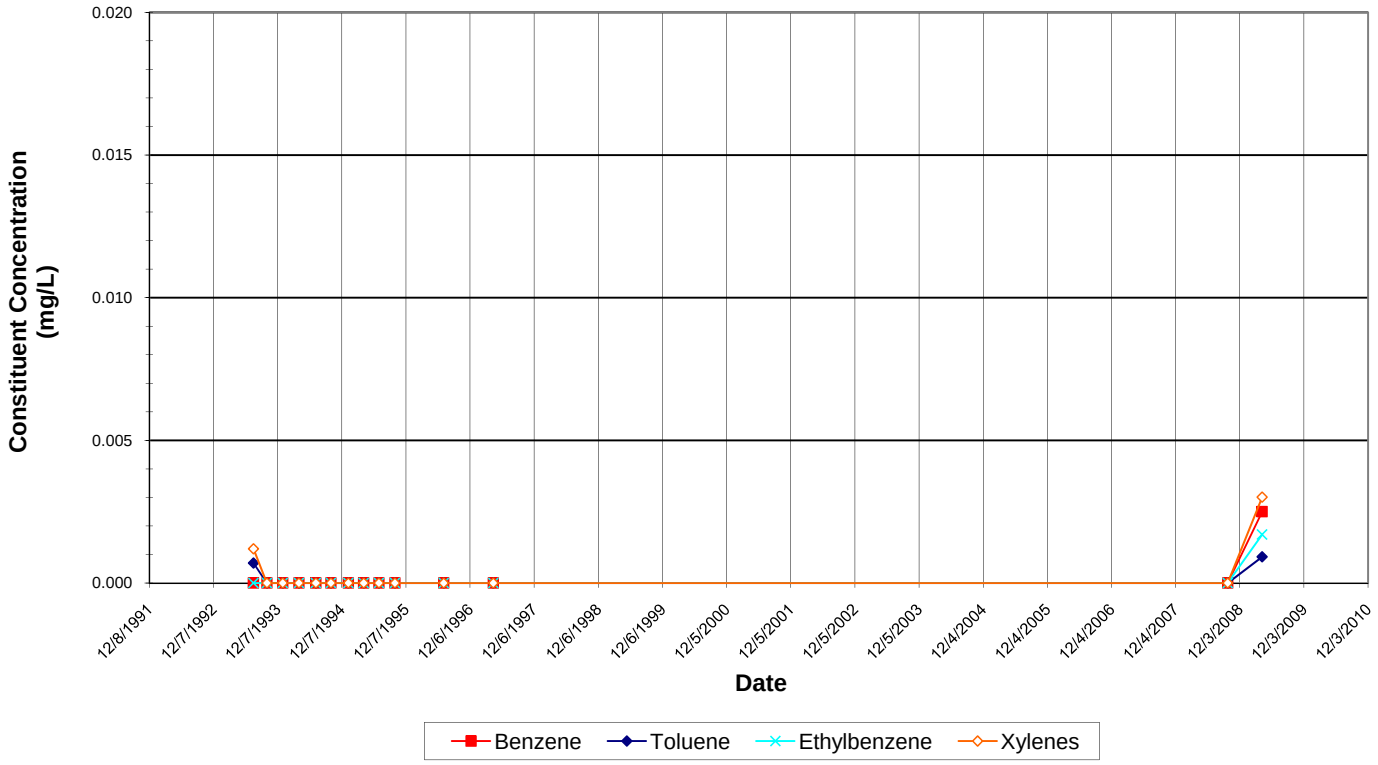
Dissolved-Phase BTEX Constituents Versus Time
Well ES-10



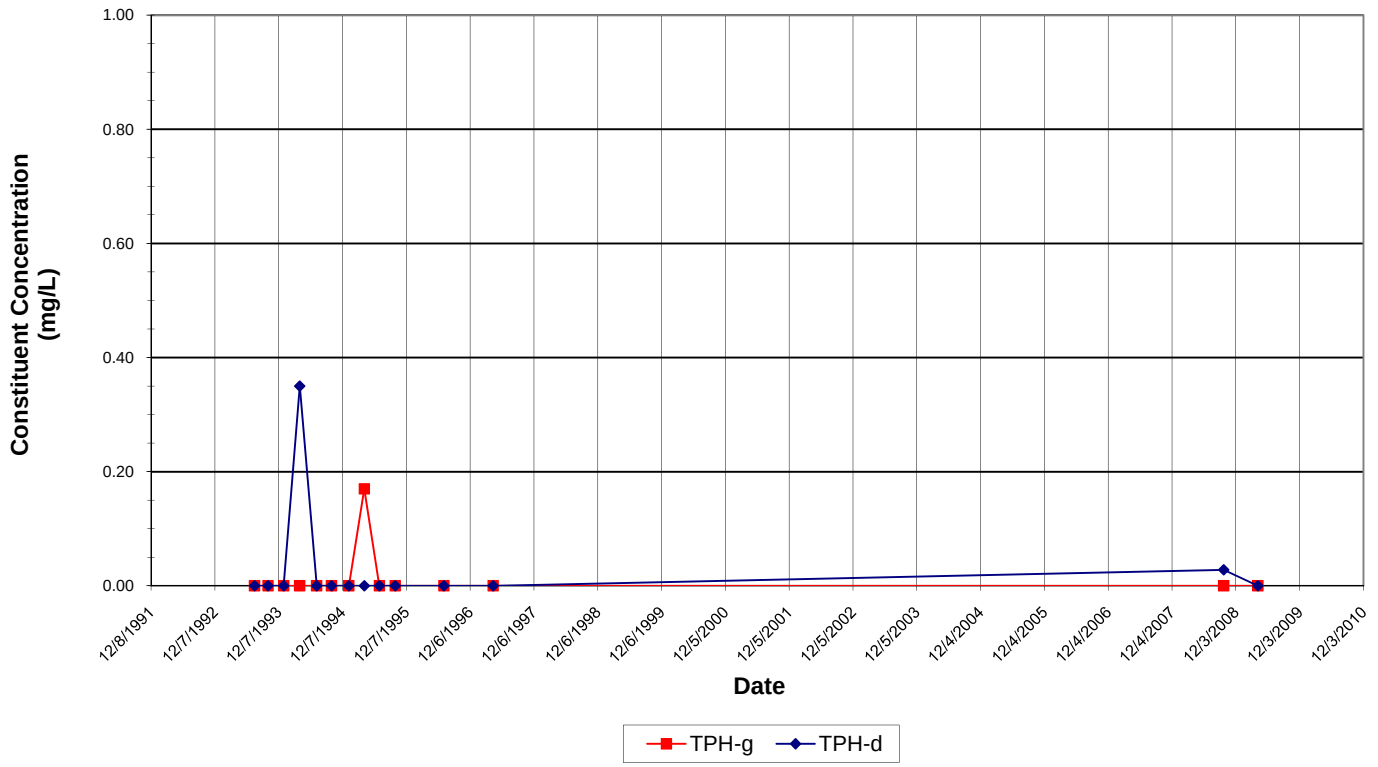
Dissolved-Phase TPH Constituents Versus Time
Well ES-10



Dissolved-Phase BTEX Constituents Versus Time
Well ES-11



Dissolved-Phase TPH Constituents Versus Time
Well ES-11



APPENDIX C

Boring Logs and Well Construction Diagrams

ES ENGINEERING - SCIENCE

CLIENT: GREYHOUND LINES, INC.

LOCATION: 2103 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

COMPLETION DATE: 11 November 1991

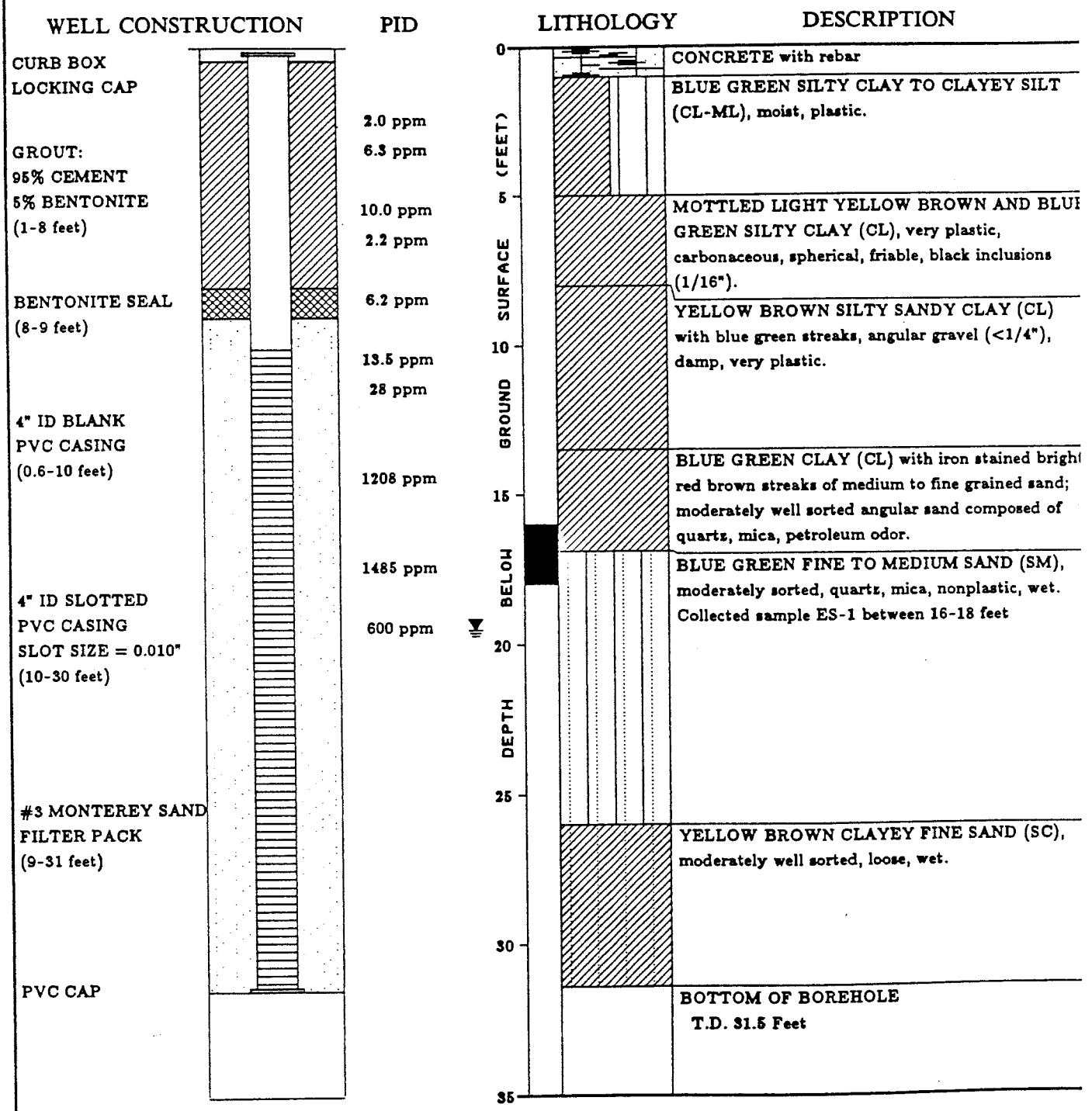
GEOLOGIST: H. PIETROPAOLI

TEST HOLE NUMBER: ES-1

DRILLER: AQUA SCIENCE ENGINEERS

DRILLING METHOD: HOLLOW-STEM AUGER

HOLE DIAMETER: 10.5-INCHES



EXPLANATION

▼ Water Level during drilling

—— Contact (approximate)

PID Photoionisation Detector Reading

■ Location of sample

ES ENGINEERING - SCIENCE

CLIENT: GREYHOUND LINES, INC.

TEST HOLE NUMBER: ES-4

LOCATION: 2103 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

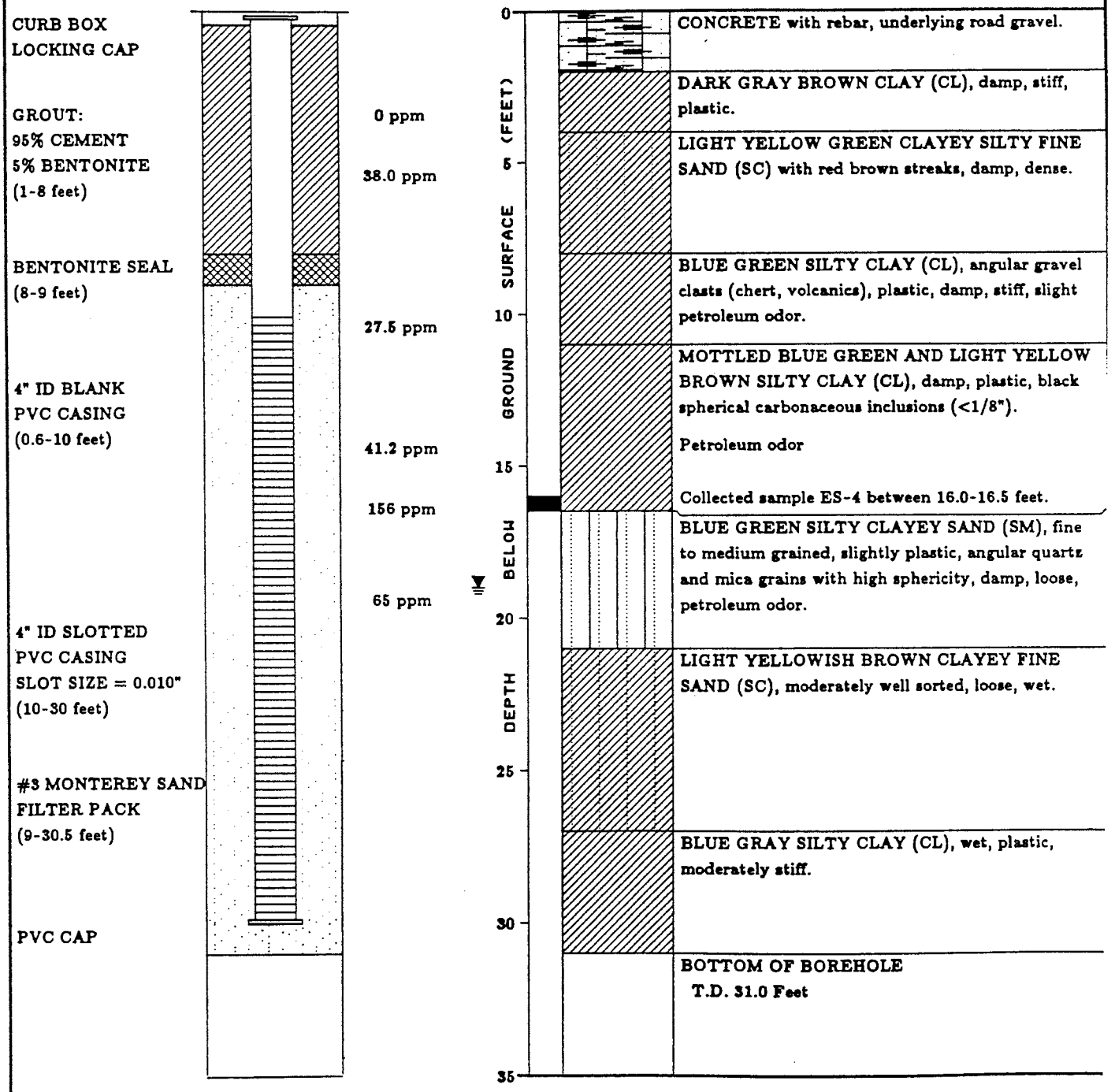
DRILLER: AQUA SCIENCE ENGINEERS

COMPLETION DATE: 13 November 1991

DRILLING METHOD: HOLLOW-STEM AUGER

GEOLOGIST: H. PIETROPAOLI

HOLE DIAMETER: 10.5-INCHES



EXPLANATION

▼ Water Level during drilling

—— Contact (approximate)

PID Photoionization Detector Reading

■ Location of sample

CLIENT: GREYHOUND LINES, INC.

TEST HOLE NUMBER: ES-5

LOCATION: 2103 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

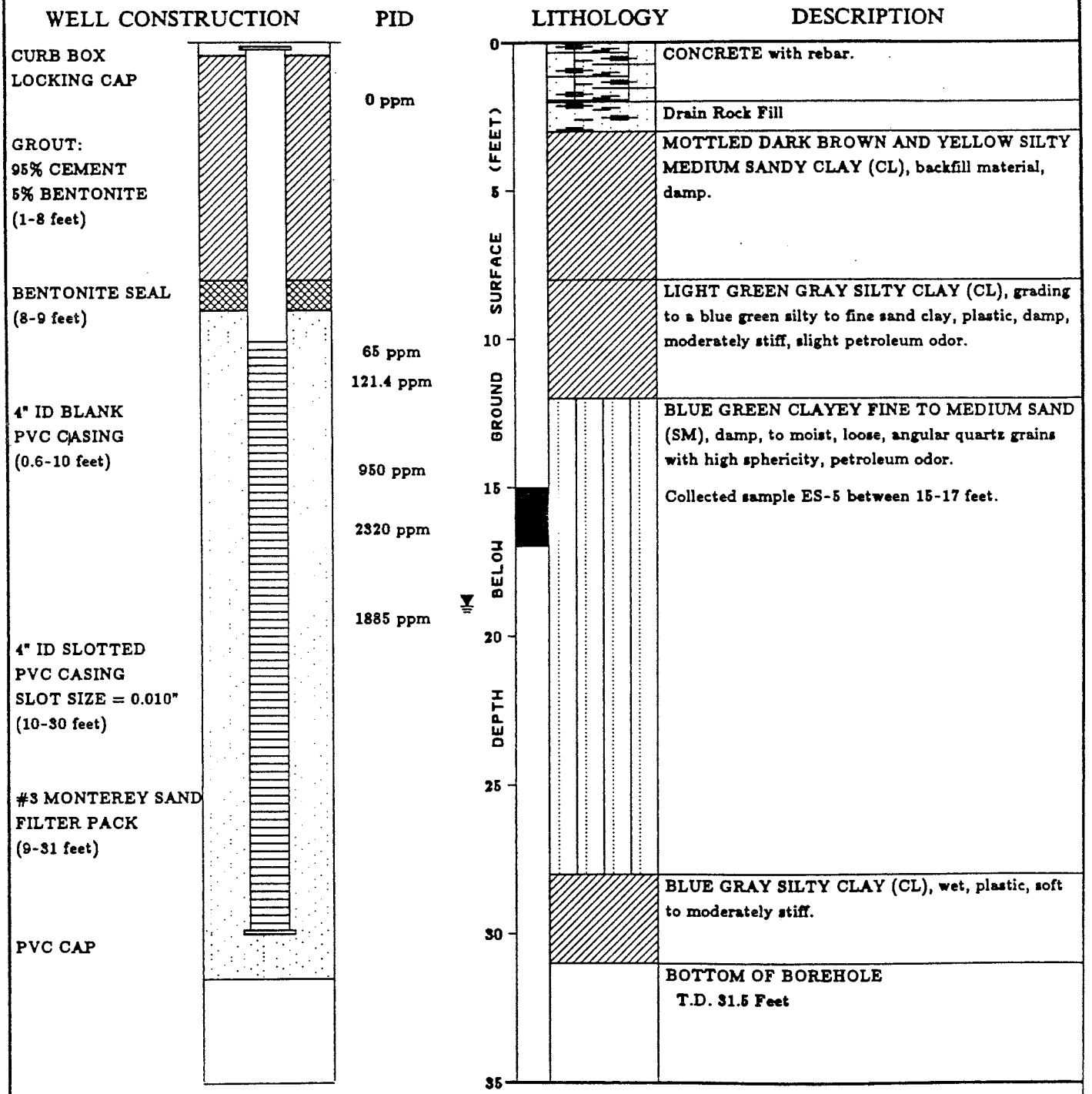
DRILLER: AQUA SCIENCE ENGINEERS

COMPLETION DATE: 14 November 1991

DRILLING METHOD: HOLLOW-STEM AUGER

GEOLOGIST: H. PIETROPAOLI

HOLE DIAMETER: 10.5-INCHES



EXPLANATION

▼ Water Level during drilling

—— Contact (approximate)

PID Photoionization Detector Reading

■ Location of sample

ENGINEERING-SCIENCE DRILLING RECORD

Contractor: Spectrum Exp.
Driller:
Inspector: JSP / LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

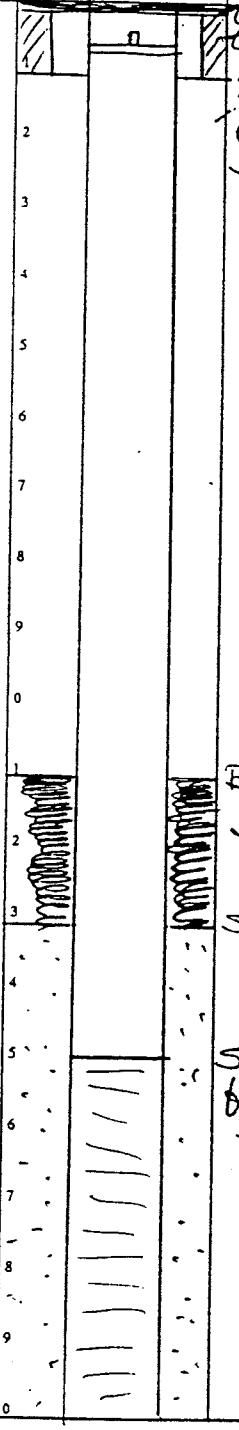
PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear Warm
Date/Time Start 7-19-93 / 1430
Date/Time Finish 7-19-93 / 1800

BORING NO ES-6
Sheet 1 of 2
Location: East of Bldg in Parking Lot

Plot Plan
Bldg
+ ES-6

Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL
		1			0-5' Fill Material.
		2			
		3			
		4			5.0'-6.5'
		5		5	Light brown silt. Trace
D.0			100	11	of clay. [ML or CL]
		6		16	
		7			
		8			
		9			10.0'-11.5'
		10		3	Light brown silt and clay.
D.0			100	5	Trace of med. Sand.
		11		10	Damp. [ML or CL]
		12			
		13			
		14			15.0'-16.5'
		15		17	Medium mottled Sand.
D.0	14.5'		100	30	No silt or clay traces. Dry.
		16		38	
		17			
		18			
		19			20.0'-21.5'
		20		12	Medium mottled Sand. [SW]

WELL CONSTRUCTION



COMMENTS
Christy Box Concrete
Bentonite Grout to 1'.
Bentonite Pellets to 11'
SAND PACK TO 13'
Screened from 35' to 15'

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7-19-93 / 1430
Date/Time Finish

BORING NO. ES-6
Sheet 2 of 2
Location: East of Bldg in Parking Lot

Plot Plan: Bldg, ES-6, MW

Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
		20		12	Saturated (Wet)		
0.0		21	100	32			
		22					
		23					
		24			25.0' - 26.5'		
		25		27	Medium mottled Sand.		
0.0			100	50	Saturated (Wet).		
		26		—			
		27					
		28					
		29			30.0' - 31.5'		
		30		3	Light grey clay. Little		
0.0			100	6	med. Sand. Moist.		
		31		10	or CL]		
		32					
		33					
		34					
		35		7	35.0'-36.0' Med. mottled Sand.		
0.0			100	10	Wet		
		36		14	36.0' - 36.5' Blue grey Clay		Bottom of well 35 ft.
		7			Little angular coarse Sand.		
		8			or CL]		
		9					
		0					

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

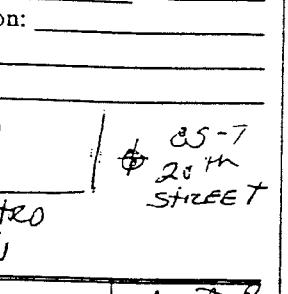
MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7-20-93 / 0730
Date/Time Finish 7-20-93 / 1200

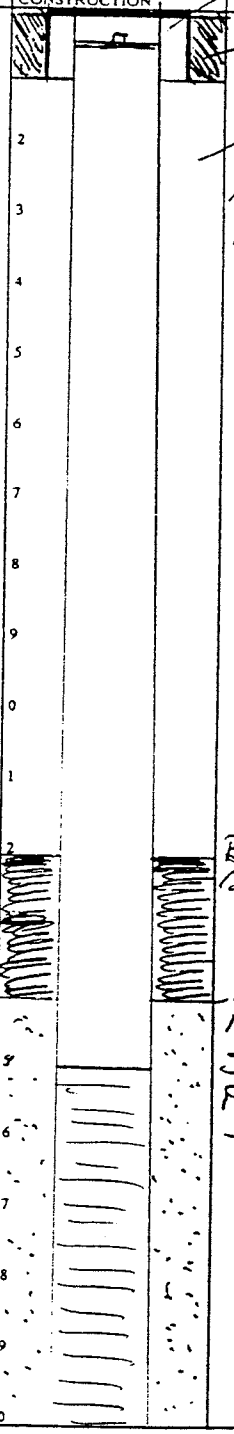
BORING NO. ES-7
Sheet 1 of 2
Location:

Plot Plan



Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL
		1			0-2" Asphalt Surface 2"-10" Concrete 10"-5' Fill Material.
		2			
		3			
		4			
		5		3	5'-6.5' Brown fine sand. Trace
0.0			60	10	g silt. Damp.
		6		18	
		7			
		8			
		9			
		10		4	10'-11.5' Brown-grey fine sand
0.0			80	11	and clay. Little Silt. Damp
		11		18	[SC]
		12			
		13			
		14			
	0949	15		10	15'-15.5' Brown-grey fine sand
0.0	[illegible]		80	21	15.5'-16.5' Grey fin sand. Damp
		16		31	
		17			
		18			
		19			
		20		19	Fine to Med. Mottled Sand. Wet.

WELL CONSTRUCTION



COMMENTS

Christy Box
Concrete
Bentonite Grout 1' to 12'
Bentonite Pellets 12'-14'.
SAND PACK 14' to 35'
SCREENED From 15' to 35'

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7/20 93 / 0730
Date/Time Finish 7-20 93 / 1200

BORING NO. ES-7
Sheet 2 of 2
Location: Corner of 20th and Castro Street (West of Sitel
Plot Plan: ES-7 @ 20' ↑ Castro ←

Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
		20.5		3 19	Fine to Med. Mottled Sand.		
0.0	0949	21	100	31 44	Wet		
		22					
		23					
		24			25.0'-26.5' Fine to med mottled Sand. [SW]		
		25		31			
0.0			100	50/5"	Wet.		
		26		—			
		27					
		28					
		29			[SW]		
		30		7	30.0'-30.5' Fine to Med. Mottled Sand.		
0.0			100	11	30.5'-31.5' Grey Clay little Sand.		
		31		17	Clay is damp. [H or CL]		
		32					
		33					
		34					
		35		12	35'-36' Clay little sand. [H or CL]		
0.0			100	17	36'-36.5' Fine to med. Sand.		Bottom of well 35'
		36		19	Wet.		
		7					
		8					
		9					
		0					

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP / LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

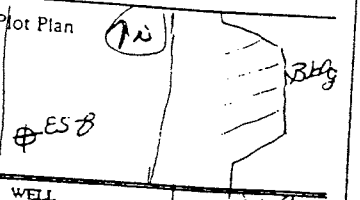
MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7-20-93 / 1300
Date/Time Finish 7-20-93 / 1630

BORING NO. ES-8
Sheet 1 of 2
Location: West of Site in Street (Coster)

Plot Plan (N)



Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
					0'-1' Asphalt.		Christy Box
		1			1'-5' Fill - Roadbase (Sand & Gravel).		CONCRETE
		2					
		3					Cement Slurry to 1'
		4					
		5		8	5'-6.5' Brown clay Some med. Sand.		
0.0		100		9	Moist. [CH or CL]		
		6		18			
		7					
		8					
		9					
		10		5	10'-11.5' Blue/Grey clay with medium		
0.0		100		8	Sand. Tight. [CH or CL]		
		11		14			
		12					Pellets to 11.4'.
		13					
		14					SAND PACK to 12.10'
		15		13	15'-16.5' Fine to medium Sand.		
0.0		100		19	Grey-brown in color. Trace of		
		16		25	Silt. No Clay. Moist.		
		17					
		18					
		19					
		20		19	20'-21.5' Fine to Med. Mottled Sand. Wet. [SW]		

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP / LMB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

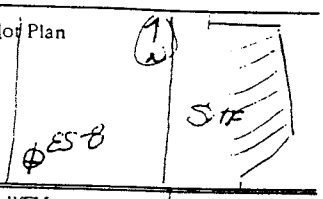
MP				
DTW from MP				
Time				
Date				

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7/20/93 / 1300
Date/Time Finish 7/20/93 / 1630

BORING NO. ES-8
Sheet 2 of 2
Location: West Side in Costa Street

Plot Plan



Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
				19	20'-21.5' Fine to Med. Mottled Sand. Wet.		
0.0	13:40	21	100	21			
				30			
		22					
		23					
		24					
					25'-25.75' Sand		
		25		11	25.75'-26.5' Mottled Clay. Little		
0.0			100	13	Sand. Wet. [CL or CL]		
		26		19			
		27					
		28					
		29					
					30'-31' Clay trace of Sand. [CL or CL]		
		30		6			
0.0			100	17	31-31.5' Medium Sand		
		31		50/5.5			
		32					
		33					
		34					
					35'-36' Medium Sand		
		35		10	36'-36.5' Grey Clay, Some Silt. [CL or CL]		
0.0			100	29			
		36		21			Bottom of Well-35'
		7					
		8					
		9					
		0					

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

ENGINEERING-SCIENCE DRILLING RECORD

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

BORING NO. ES-9
Sheet 1 of 2
Location: West of Site north of ES-8.

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06

Weather Clear, Warm

Date/Time Start 7-21-93 / 0800
Date/Time Finish 7-21-93 / 10:30

Plot Plan: ES-9 Curb ES-8 Site

WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL
					0-1' Asphalt
		1			1'-5' Fill Material
		2			
		3			
		4			
		5		7	5'-6.5' Brown clay. Medium
5.9	—		80	10	Sand throughout clay
		6		14	sample Moist Trace of
		7			Black Colored specks.
					(possible topsoil or discolored
		8			spots). [CL or CL].
		9			
		10		5	10'-11.6' Brown colored clay.
5.3	—		0	13	medium Sand throughout
		11		15	Spoon Sample. Moist.
					[CL or CL]
		12			
		13			
		14			
		15		15	15'-16.5' Brown fine to medium
6.1	1820		90	30	mottled Sand w/ clay.
		16		31	Moist. [SW or CL]
		17			
		18			
		19			
		20		21	20'-21.5' Brown fine to Med. mottled Sand. Wet. [SW]

WELL CONSTRUCTION

COMMENTS
- Christy Box
- Concrete Cap
- Grout Slurry 1 to 11.2 ft
- Bentonite Seal 11.2 to 13 ft
- Sand Pack 13 to 35 ft
- Screened 15 to 35 ft

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear Warm
Date/Time Start 7-21-93 / 0800
Date/Time Finish 7-21-93 / 10:30

BORING NO. ES-9
Sheet 2 of 2
Location: (West of Site, north of ES-8.

Plot Plan ES-9, ES-8, Site, N

Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
				21	20'-21.5' Brown fine to medium mottled Sand. Wet. [SW]		
5.3	—	21	80	32			
				41			
		22					
		23					
		24					
				7	25'-25.5' Mottled Sand. [SW]		
5.3	—	25	75%	12	25.5'-26.5' Brown mottled Clay. Trace of Sand. Wet. [H or CL]		
		26		10			
		27					
		28					
		29					
				8	30'-31' Brown to Blue/Grey mottled Clay [H or CL]		
5.0	—	30	100%	14			
				50/1	31'-31.5' Medium mottled Sand. [SW]		
		31					
		32					
		33					
		34					
				6	35'-35.5' Brown fine to med Sand.		
3.7		35	100	9	35.5-36.5' Brown Clay with		
				15	trace of Sand. [CH or CL]		
		36					Bottom of well 35ft.
		7					
		8					
		9					
		0					

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

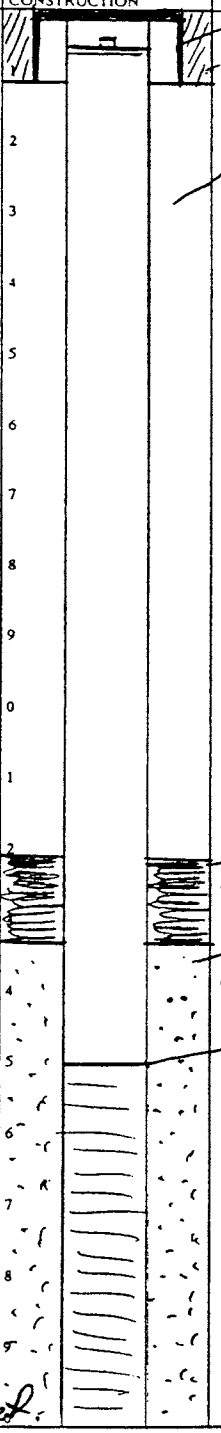
PROJECT NAME GLI- Oakland Terminal
PROJECT NO. SY356.06
Weather Clear Warm
Date/Time Start 7-21-93 / 1100
Date/Time Finish 7-21-93 / 1400

BORING NO. ES-10
Sheet 1 of 2
Location: West of Silo adjacent to West Side of Silo

Plot Plan
Castro Street
ES-10
ES-9
N

Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL
		0			0-1' Asphalt
		1			1'-5' Fill Material.
		2			
		3			
		4			
		5		4	5'-6.5' Brown clay with blue colored mottling and some sand. Damp. [CH or CL]
0.0	—		70	10	
		6		13	
		7			
		8			
		9			
		10		3	10'-11.5' Brown clay with some medium sand. No blue colored mottling. Damp to moist. [CH or CL]
0.0	—		100	6	
		11		8	
		12			
		13			
		14			
		15		16	15'-16.5' Fine & med. Sand. Grey/brown colored. Moist. No clay.
0.0	—		100	38	
		16		44	
		17			
		18			
		19			
0.0	11@	20		19	20'-21.5' Fine-Med Mottled Sand. Wet. [SW]

WELL CONSTRUCTION



COMMENTS: Bot

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spect. Fum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 0.25" HSA

WATER LEVEL MEASUREMENTS

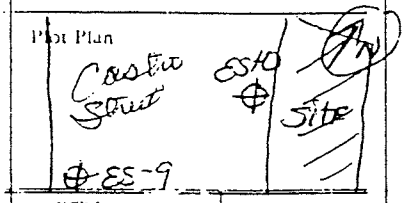
MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

PROJECT NAME CLI - Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7-21-93/1100
Date/Time Finish 7-21-93/1400

BORING NO. ES-10
Sheet 2 of 2
Location: Adjacent to West side of Site.

Plot Plan



Photovac Reading	Sample ID	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
				19	20'-21.5' Fine-Med. Sand. Mottled Sand. Wet.		
0.0	11:50	21	100	38			
				44			
		22					
		23					
		24					
					[SW]		
		25		2	25'-25.5' Fine-Med Sand. Wet		
0.0	—		100	5	25.5'-26.5' Brown Sandy Clay.		
		26		6	moist. [CL or CL]		
		27					
		28					
					[CH or CL]		
		29					
				4	30'-30.5' Grey/brown Clay.		
0.0	—	30	100	19	30.5'-31.5' Fine-Med. mottled		
				15	Sand. moist.		
		31					
		32					
		33					
		34					
—				—	NO sample collected - Rig		
		35	—	—	Shut down.		Bottom of well 35'
		36		—			
		7					
		8					
		9					
		0					

SPT = STANDARD PENETRATION TEST CAL. = CALIBRATION B.Z. = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

Contractor: Spectrum Exp.
Driller:
Inspector: JSP/LAB
Rig Type: CME 55
Drilling Method: 6.25" HSA

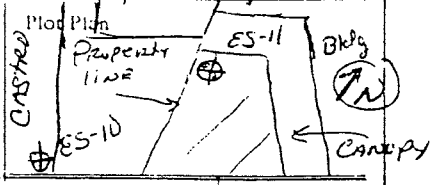
WATER LEVEL MEASUREMENTS

MP			
DTW from MP			
Time			
Date			

ENGINEERING-SCIENCE DRILLING RECORD

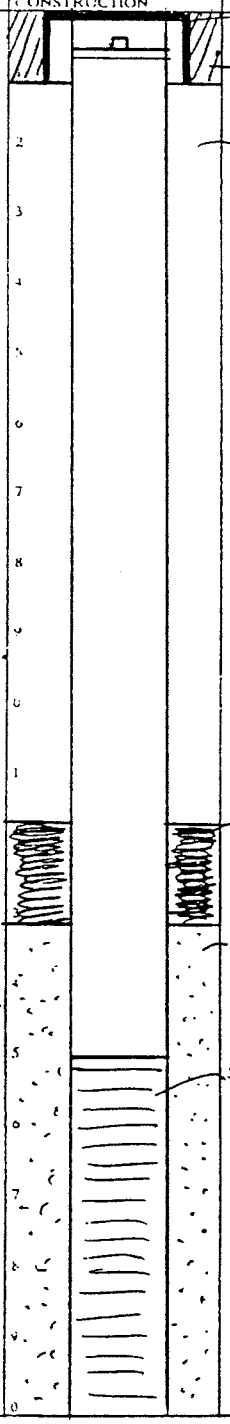
PROJECT NAME GLI - Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date/Time Start 7-21-93 / 1500
Date/Time Finish 7-21-93 / 1825

BORING NO. ES-11
Sheet 1 of 2
Location: North end of parking area - along site property line



Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL
		0			0-1' Concrete
		1			1-5' Fill Material
		2			
		3			
		4			
		5		6	5'-6.5' Brown clay and med.
0.0	—		100	14	Sand. Damp.
		6		15	
		7			
		8			
		9			
		10		4	10'-11.5' Brown-grey Sandy Clay
0.0	—		100	5	Fine Sand. Moist.
		11		10	[CH or CL]
		12			
		13			
		14			
		15		7	15'-15.8' Brown-gray clay [CH or CL]
0.0	—		100	13	15.8'-16.5' Fine-med Sand.
		16		14	Trace of Silt. Moist.
		17			
		18			
		19			
		20		22	

WELL CONSTRUCTION



COMMENTS
- Christy Box
- Concrete Cap
- Bentonite Grout/ Slurry 1 to 11.7 ft
- Bentonite Seal 11.7 to 13 ft
- Sand Pack 13 to 35 ft
- Screen 15 to 35 ft

SPT = STANDARD PENETRATION TEST CA = CALCULATION BZ = BREATHING ZONE
SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

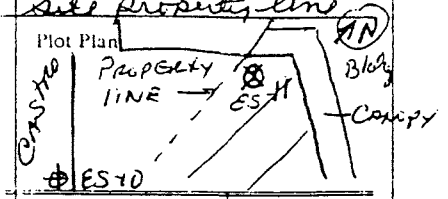
ENGINEERING-SCIENCE DRILLING RECORD

Contractor: Specialty Drill (SD)
Driller:
Inspector: JSP / LAB
Rig Type: CME 55
Drilling Method: 8.25" HSA
WATER LEVEL MEASUREMENTS
MP
DBS or MSL
Time
Date

PROJECT NAME GLI - Oakland Terminal
PROJECT NO. SY356.06
Weather Clear, Warm
Date Time Start 7-21-93 / 1500
Date Time Finish 7-21-93 / 1825

BORING NO. ES-11
Sheet 2 of 2
Location: Northend of Parking area - along site property line

Plot Plan



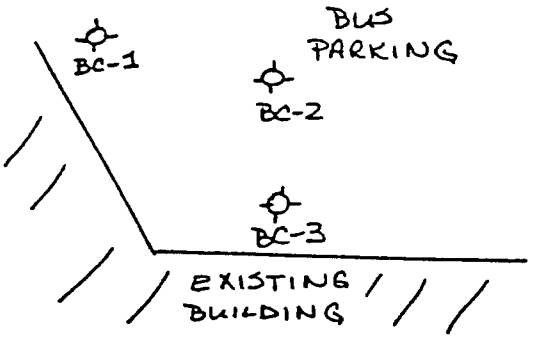
Photovac Reading	Sample I.D.	Sample Depths	% Recovery	SPT	FIELD IDENTIFICATION OF MATERIAL	WELL CONSTRUCTION	COMMENTS
				22	20'-21.5' Fine - Med. mottled Sand Saturated/Wet. Trace of Silt. No Clay. [SW]		
0.0	1100	21	100	28			
				43			
		22					
		23					
		24					
		25		14	25'-26' Fine - Med mottled Sand. [SW]		
0.0	—		80	21	26'-26.5' Brown Clay. Trace of Sand. [CH or CL]		
		26		22			
		27					
		28					
		29					
		30		6	30-30.5' Fine - Med Sand. [ ]		
0.0	—		100	11	30.5'-31.5' Blue-grey Clay. Trace of Sand. [CH or CL]		
		31		16			
		32					
		33					
		34			[CH or CL]		
		35		4	35'-35.5' Fine Sandy Clay.		
0.0	—		100	9	35.5'-36.5' Clay. Blue-grey in Color. No Sand. [CH or CL]		Bottom of Well 35 ft.
		36		15			
		7					
		8					
		9					
		0					

SPT = STANDARD PENETRATION TEST CAL = CALIBRATION BZ = BREATHING ZONE
SS = SPLIT SPOON AC = AUGER CUTTINGS C = CORED BH = BOREHOLE

SUMMARY

LOCATION OF BORING

CASTRO STREET



CLIENT Western Greyhound Lines

LOCATION Oakland

JOB NO. 4529-01

BORING NO. BC-

SHEET 1 OF

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING START TIME 0844 DATE 6/8/89 FIN TIME 09 DATE 6/8

DRILLING CONTRACTOR A. S. E.

DRILLING METHOD 8" Hollow Stem Augers

SAMPLING METHOD Cal. mod. 2", 140# / 30 in (Cr

DRILLER Chris St. Pierre

RIG Mobile Drill B-61

BY D. Covington

DATE 6/8/89 CHK'D BY

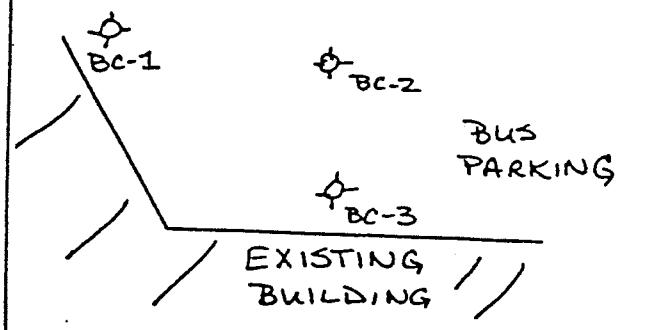
N/S E/W ELEV.

SURFACE CONDITIONS asphalt + concrete parking lot

WELL CONST. CASING	WELL CONST. ANNULUS	SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	BLOWS/6" SAMPLER	DEPTH IN FEET	SOIL CALLOUT	MATERIALS ENCOUNTERED AND DRILLING CONDITIONS
	← Backfilled with cuttings →					0		0-0.5' - CONCRETE
						1		0.5'-1.5' - clayey sand and gravel, gray, moist, strong hydrocarbon odo
						2		1.5'-4.0' - silty sand and gravel, dk. olive to gray, damp, loose TLV = 1100 ppm
						3		
						4		4.0'-6.5' - sandy clay, medium tan, dam slightly plastic, soft, TLV@~4' = 120 ppm
						5		
						6		
						7		6.5'-14' - sandy clay, greenish-gray damp, highly plastic, soft, TLV@~6.5' = 38 ppm TLV@ ~ 10' = 220 ppm
						8		
						9		
						10		
						11		
						12		
						13		
						14		14'-15' - silty med. sand, brown to rust, damp, loose, TLV = 40 ppm
		CM			9/15	15		
					27	16		15'-25' - sand, gray-brown with rust staining, damp, loose, trace silt, fine to med.-grained TLV @ 15.5' = 400 ppm TLV @ 20' = 520 ppm
						17		
						18		
						19		
						20		wet @ ~ 22'
						21		
						22		
						23		
						24		T.D = 25'
		CM			27	25		

LOCATION OF BORING

CASTRO ST.



CLIENT	Western Greyhound Lines			BORING NO. BC-2
LOCATION	Oakland		JOB NO. 4529-01	SHEET 1 OF 1
WATER LEVEL				DRILLING START TIME 1005
TIME				FINISH TIME 1050
DATE				DATE 6/8/89
CASING DEPTH				DATE 6/8/89

DRILLING CONTRACTOR A.S.E.

DRILLING METHOD 8" Hollow Stem Augers

SAMPLING METHOD Cal. Mod. 2", 140#/30 in. (cm)

DRILLER Chris St. Pierre RIG Mobile Drill B-53

BY T. Covington DATE 6/8/89 CHK'D BY

N/S E/W ELEV.

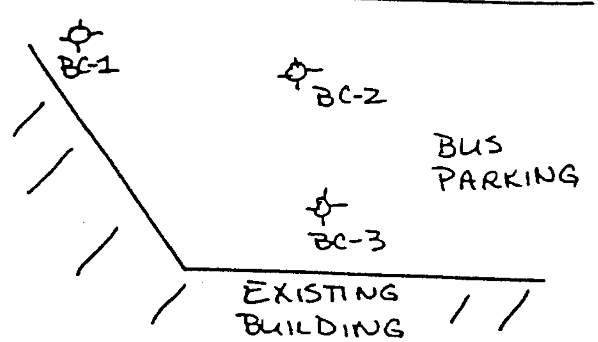
SURFACE CONDITIONS asphalt + concrete parking lot

WELL CONST. CASING	WELL CONST. ANNULUS	SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	BLOWS/6" SAMPLER	DEPTH IN FEET	SOIL CALLOUT	MATERIALS ENCOUNTERED AND DRILLING CONDITIONS
						0		concrete
						1		gravelly sand + clay
						2		1.0'-4.0' - sandy clay, olive green, damp, high plasticity, vy. soft, trace gravel
						3		
						4		4'-6.5' - sandy clay, med. tan to brown, damp, soft, high plasticity, TLV = 180 ppm
						5		
	Backfilled with cuttings					6		6.5'-9.0' - sandy clay, gray-green, soft, high plasticity TLV @ 6.5' = 12 ppm TLV @ 9' = 28 ppm
						7		
						8		9'-10' - as above with increase in sand content
						9		
						10		10'-14' - sand, orange to dk. rust, damp, loose, medium-grained, trace silt
						11		
						12		14±25' above with color change to gray
						13		
						14		TLV @ 16.5' = 560 ppm TLV @ 24' = 380 ppm
						15		saturated @ ~22'
		CM			7/16	16		
					26	17		
						18		
						19		
						20		
						21		
						22		
						23		
		CM			15/24	24		
					50(5")	25		T.D. = 25'

DRILLER Chris St. Pierre
RIG Mobile Drill B-61
DATE 6/8/89 CHK'D BY

LOCATION OF BORING

CASTRO ST.



CLIENT	Western Greyhound Lines		BORING NO. BC-3
LOCATION	Oakland	JOB NO. 4529-01	SHEET 1 OF 1
WATER LEVEL			DRILLING
TIME			START TIME 1220 / FIN. TIME 130
DATE			START DATE 6/8/89 / FIN. DATE 6/8/8
CASING DEPTH			

DRILLING CONTRACTOR A.S.E.

DRILLING METHOD 8" Hollow Stem Augers

SAMPLING METHOD Cal. mod. 2", 140# /30in (cm)

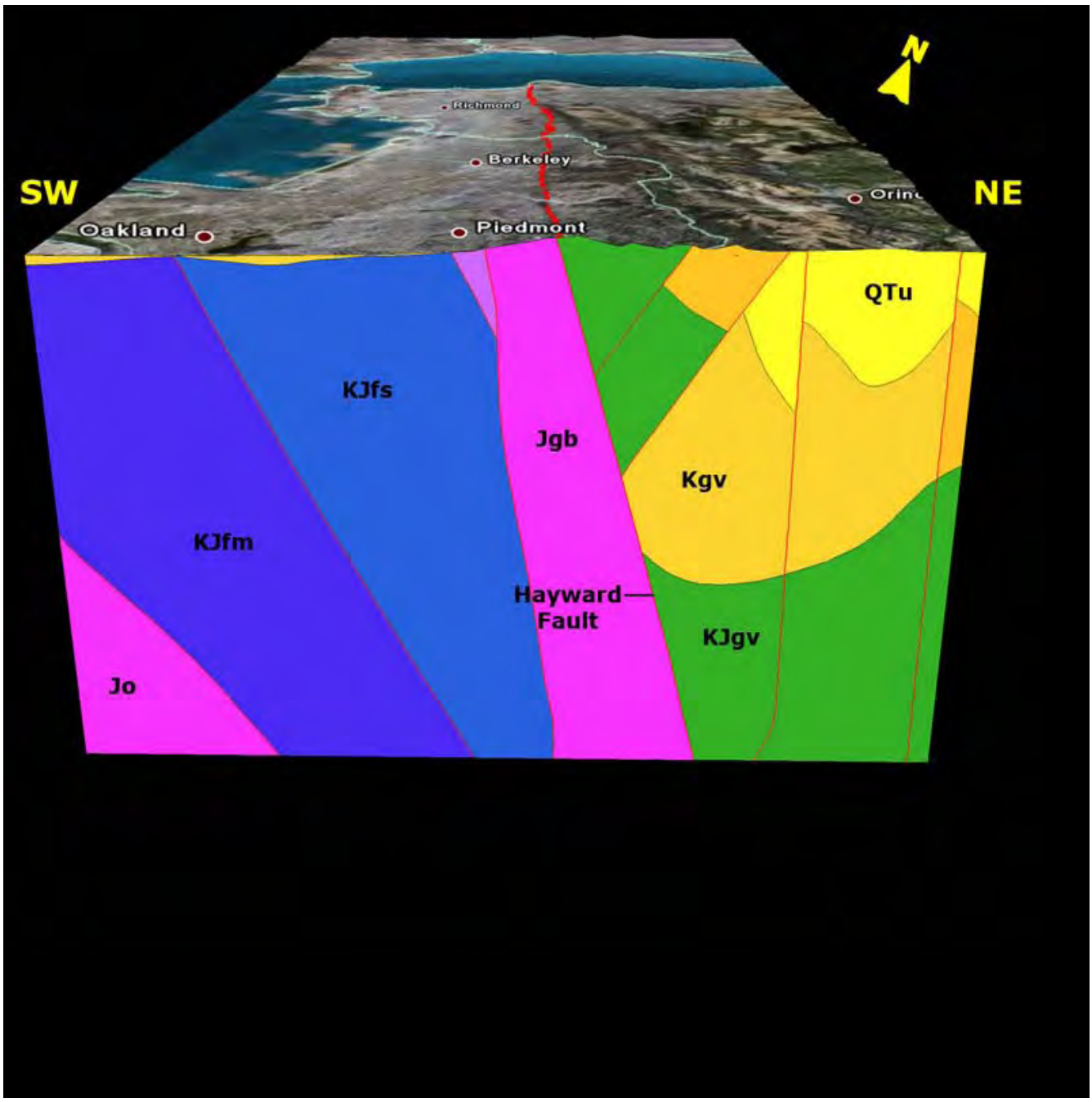
N/S | E/W | ELEV.

SURFACE CONDITIONS asphalt + concrete parking lot

WELL CONST. CASING	WELL CONST. ANNULUS	SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	BLOWS/6" SAMPLER	DEPTH IN FEET	SOIL CALLOUT	MATERIALS ENCOUNTERED AND DRILLING CONDITIONS
	Backfilled with cuttings					0		concrete
						1		sand + gravel, gray, dry, loose
						2		1.5'-2' - sand, dk. brown, damp, loose, strong hydrocarbon odor
						3		2'-4' - silty clay, dk. olive green, damp, soft, high plasticity TLV= 300 ppm
						4		
						5		4'-6.5' - silty clay, lt. gray, damp, less odor than above
						6		
						7		6.5'-14' - sandy clay, olive green, damp, soft, high plasticity TLV @ ~7'= 140 ppm
						8		
						9		14'-25' - sand, rust to brown, damp, wet at ~22', loose, medium-grained,
						10		
						1		TLV@ 14' = 110 ppm TLV@ 15.5'= 4400 ppm
						2		
						3		T.D. = 25'
						4		
		cm			11 / 18	15		
					27	6		
						7		
						18		
		cm			25 / 50	25		
						26		

APPENDIX D

USGS Cross-Section of San Leandro Area



San Leandro area (cross section between Hayward and Oakland)

Click here to open a legend of geology units.

San Leandro area (cross section between Hayward and Oakland). The cross section cuts through the East Bay Hills (on the right) and the East Bay alluvial plain next to San Francisco Bay south of Oakland (on the left). By comparison to the Mission Peak area, the Hayward Fault in the San Leandro area has a nearly vertical profile. East of the Hayward Fault, a structural basin preserves a thick accumulation of Great Valley Sequence. West of the fault, the San Leandro Gabbro (Jgb) is a large intrusive igneous body that has unique physical properties compared to the Franciscan rocks (mostly volcanic and sedimentary rocks) or the Great Valley Sequence (sedimentary rocks). Gabbro has physical properties more like granitic rocks—being both harder and more brittle than sedimentary rocks. Geologists suggest that that where the Hayward Fault is in contact with the gabbro, it may be more prone to producing higher magnitude earthquakes than in surrounding areas.

For more information about geologic names and words in the legend, see glossary definitions (including Coast Range Ophiolite, Franciscan Formation, Great Valley Sequence, geologic time scale,gabbro, serpentinite, alluvium, and more).