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Alameda County
Environmental Health

October 23, 2007
RRM Project # KCE514

900 Central Avenue Corrective Action Account
c/o Brian Kelleher
Kelleher & Associates
812 S. Winchester Blvd., Suite 130, #109
San Jose, California 95128

Re: ***Subsurface Investigation Results, Second and Third
Quarter 2007 Groundwater Monitoring Result***
900 Central Avenue
Alameda, California

Dear Mr. Kelleher:

This letter, prepared by RRM, Inc. (RRM), presents the results of the second and third quarter 2007 groundwater monitoring events and additional subsurface investigation results for the referenced site (Figure 1). All work was conducted in accordance with RRM's December 29, 2007 *Subsurface Investigation Workplan* which was approved by the Alameda County Health Care Services Agency (the County) in a letter dated January 9, 2007. RRM's workplan was prepared to satisfy the County's directives per their letter dated July 12, 2006.

The second and third quarter groundwater monitoring events were performed as a follow-up to RRM's first quarter event, which was the first monitoring event to be conducted at the site since October 2002. The additional subsurface investigation activities were performed to further characterize the extent of petroleum hydrocarbons in soil and groundwater on and off the site boundaries and included the installation of three additional groundwater monitoring wells and one recovery well which were incorporated into the quarterly groundwater monitoring program. A discussion of the site background, objectives, scope of work, conclusions, and recommendations is presented below. Field and analytical procedures are presented in Attachment A.

SITE BACKGROUND

Site Description and History – The site is located on the southeast corner of Central Avenue and Ninth Street in Alameda, California. In September 1975 the site operated as a Holland Oil Company retail gasoline station that consisted of a garage at the southwest corner, a pump island canopy in the northeast quadrant, three 550-gallon underground storage tanks (USTs) located beneath the sidewalk on Ninth Street, and a reported waste oil tank. According to Alameda Fire Department records, the original permit for the tanks was issued in 1931 to Mohawk Oil Company. A 1973 business directory

lists the operator as EZ Pickings Gas and a 1975 directory as Holland Service Station No. 1. The tanks were removed by Holland Oil Company Inc., in September 1975.

In 1976 the property was sold to the Peterson family. In 1978, the Petersons sold the property to Gary Thompson dba Oak Construction. In October 1978 Oak Construction razed the gas station structures and constructed a residential duplex. The current owners, Karen and Gary Pearce, purchased the property in May 1985. The identification of subsurface contamination in 1994 instigated a lawsuit between the past and present owners. Due to the complexity of the lawsuit, William Nagle was appointed as Special Master in 1996 to help resolve the case. In 2003, Brian Kelleher of Kelleher & Associates in San Jose, California was appointed on behalf of the litigating parties to coordinate remedial response actions and associated cost recovery work.

The site is located three blocks east of downtown Alameda and approximately 3,000 feet northeast of Robert Crown Memorial State Beach and San Francisco Bay. The site is on gently sloping terrain approximately 25 feet above mean sea level. There is a man-made lagoon system approximately 1,000 feet south of the site.

The property is located in a mixed residential/commercial area. To the west, at the southwest corner of Central Avenue and Ninth Street, was a former church that has since been converted to a movie theater. The property to the northwest (841 Central Avenue) is reportedly the location of a former gas station that operated from approximately 1947 to 1969. Both former gas station properties and the remainder of the surrounding properties are currently residential.

Site Geology and Hydrogeology - Based on interpretation of historical boring logs, the site is underlain by sandy fill to a depth of approximately 3.5 feet. Fine sandy silt and poorly graded sand was encountered beneath the fill to approximately 26 feet below ground surface (bgs), the maximum depth explored. Groundwater was encountered in the borings between 12 and 13 feet bgs. From the two years of quarterly groundwater monitoring, depth to water seasonally ranged from 6 to 13 feet bgs and flow was toward the southwest (*Lowney, "Soil and Groundwater Quality Reconnaissance" July 20, 1994; and Allwest, "Subsurface Investigation Report," August 5, 1997, and quarterly monitoring reports for 1999 and 2002*).

Historic Remedial Investigations and Groundwater Monitoring

April 1994 Subsurface Investigations - Lowney Associates (Lowney) of Mountain View, California conducted a site history review that included historic Sanborn maps and aerial photos and completed a subsurface investigation. During the investigation, three bore holes (EB-1 through EB-3) were completed to 20 feet bgs in and around the incorrectly presumed location of the former USTs and pump island; soil samples were collected at 5-foot intervals, geologic logs were prepared; grab groundwater samples were collected from each boring; all groundwater and select soil samples (15 to 16-foot interval) were analyzed for motor oil range total petroleum hydrocarbons (TPH_{mo}), diesel range TPH (TPH_d), gasoline range TPH (TPH_g), benzene, toluene, ethyl benzene, and xylenes (collectively BTEX); and a leachability test was conducted on the soil sample collected from Boring EB-1. TPH_g and benzene were detected in the soil sample collected from EB-1 at 95 parts per million (ppm) and 400 parts per billion (ppb) respectively. In the grab groundwater sample from EB-1, TPH_g and benzene were detected at

76,000 ppb and 2,200 ppb respectively (*Lowney Associates, "Soil and Groundwater Quality Reconnaissance" July 20, 1994*).

June 1997 Subsurface Investigations and RBCA Analyses - Allwest Environmental Inc. (Allwest) of San Francisco, California conducted a file review to assess potential on-site and off-site sources of subsurface contamination. They also advanced eight geoprobe-type soil borings (P-1 through P-8) to 16 feet bgs in and around the presumed location of the former USTs and pump island; collected soil samples at 5-foot intervals and field-tested the samples for total volatile hydrocarbons with an organic vapor analyzer (OVA); prepared geologic logs; collected grab groundwater samples from each boring; and analyzed 31 soil samples and eight groundwater samples for TPHg and BTEX. They reported discolored/odorous soils at 10 to 12 feet bgs in borings P-2 through P-4. TPHg was detected at 4,600 ppm in the soil sample collected at 14.5 feet bgs from Boring P-3. TPHg was detected in five of the eight grab groundwater samples with the highest concentration of 92,000 ppb at Boring P-3. Tier 1 and Tier 2 risk-based corrective-action evaluations were conducted using ASTM methodology. On the basis of the results Allwest concluded that there were no significant human health risks and no need for active remediation (*Allwest, "Subsurface Investigation Report," August 5, 1997*).

November 1998 Well Installations and Sampling – Allwest advanced three bore holes to 18 feet bgs at the northeast quadrant of the site; collected soil samples at 5-foot intervals and field tested the samples for TVH using a field OVA; prepared geologic logs; converted the borings to 2-inch diameter monitoring wells (MW-1 through MW-3) and developed, surveyed, sounded, purged and sampled the wells; and analyzed three groundwater samples for TPHg and BTEX. The depth to groundwater was approximately 12 feet bgs. TPHg and benzene was detected only in the sample from MW-1 at 360 ppb and 5.8 ppb respectively. The well installation report included a recommendation to monitor the wells quarterly for one year. This recommendation was approved by the County (*Allwest "Groundwater Monitoring Well Installation and Sampling" February 2, 1999*).

1999-Quarterly Groundwater Monitoring – From March through September 1999, Allwest conducted three quarterly groundwater monitoring events during which they sounded purged and sampled the three wells. The samples were analyzed for TPHmo, TPHd, and TPHg, and BTEX. Depth to groundwater ranged seasonally from approximately 6 to 12 feet bgs. TPHg was only detected in MW-1 at concentrations ranging from less than 50 ppb to 14,000 ppb. Based on the results, Allwest recommended conducting a risk assessment (*Allwest "Quarterly Groundwater Monitoring Reports" with the following dates: March 3, 1999; July 2, 1999; and October 14, 1999*).

2002-Quarterly Groundwater Monitoring– From March through December 2002, Allwest conducted four quarterly groundwater monitoring events during which they sounded, purged, and sampled the three wells. The samples were analyzed for TPHmo, TPHd, TPHg, and BTEX. Depth to groundwater ranged from approximately 8 to 13 feet bgs. TPHg was only detected in MW-1 at concentrations ranging from less than 50 ppb to 42,000 ppb; MTBE was not detected (*Allwest "Quarterly Groundwater Monitoring Reports" with the following dates: June 26, 2002; August 8, 2002; October 25, 2002; and "2002 Annual Groundwater Monitoring & Risk Assessment Report," January 31, 2003*).

2003-Production Well Survey, Conceptual Model and Risk Assessment – In December 2002, Allwest reviewed agency files to locate nearby water production wells and to prepare a site conceptual model consisting of

a 3-dimensional drawing showing known areas of subsurface contamination and potential sensitive receptors. Also a cursory risk assessment using risk-based screening levels (RBSLs) in recently published Regional Water Quality Control Board (RWQCB) lookup tables was conducted. Based on the risk assessment, Allwest concluded that the RBSLs for groundwater were exceeded at MW-1 for the vapor migration to indoor-air-inhalation pathway, and pose a possible risk to off site receptors. Identified off site receptors include four irrigation wells and one monitoring well located within approximately 500 feet of the site (*Allwest: "2002 Annual Groundwater Monitoring & Risk Assessment Report," January 31, 2003*).

OBJECTIVES

The objectives of the completed activities were to: 1) re-establish groundwater conditions and trends by resuming quarterly sampling following an extended period of inactivity, 2) adequately characterize the vertical and lateral extent of soil and groundwater contamination on and off the site boundaries by installing direct-push borings and three new off site groundwater monitoring wells, and 3) to provide a means for conducting soil vapor extraction and/or groundwater extraction feasibility testing by installing a source area remediation well.

SCOPE OF WORK

To meet the aforementioned objectives RRM performed the following scope of work:

- **Pre-field Activities:** Prior to starting any fieldwork, RRM obtained encroachment permits from both the City of Alameda and the California Department of Transportation (CalTrans) to work in their respective right-of-ways, obtained subsurface drilling permits from the Alameda County Public Works Agency, marked drilling locations with white paint, and contacted USA North to locate members' underground utilities. CalTrans involvement, not originally anticipated, delayed the original implementation schedule for the direct-push boring work along Central Avenue because of their permitting requirements.
- **Redevelopment and Quarterly Sampling of Existing Groundwater Monitoring Wells:** Prior to performing site investigation activities RRM redeveloped, measured for depth to groundwater, and sampled existing wells MW-1 through MW-3 to determine current groundwater conditions at the site. The wells were initially redeveloped and sampled during the first quarter 2007 and reported in RRM's April 3, 2007 *First Quarter 2007 Groundwater Monitoring Results* report. The wells were measured for depth to groundwater and sampled again during the second and third quarters of 2007. Groundwater sampling and laboratory analytical procedures are described in Attachment A. Field data sheets are included in Attachment B.
- **Direct-Push Soil Borings:** On August 9, 2007, RRM installed six exploratory soil borings (SB-1 through SB-6) using direct-push technology to depths ranging from 8 feet to 26 feet bgs. Soil borings were continuously sampled for logging purposes and to collect representative samples for laboratory analyses. Groundwater samples were not collected. The soil boring locations are shown on Figure 2. Soil boring procedures are described in Attachment A and boring logs are included in Attachment C.

- **Groundwater Monitoring Well Installation and Development:** On June 20, 2007 RRM installed three 2-inch diameter groundwater monitoring wells (MW-4 through MW-6) to a depth of approximately 18 feet bgs, and on August 13, 2007 installed one 4-inch diameter recovery well (RW-1) to approximately 20 feet bgs. Soil samples collected from the monitoring well borings were collected for logging purposes only. The monitoring wells were installed down-gradient and cross-gradient from the site across Ninth Street to further delineate the downgradient extent of contamination and monitor off-site groundwater conditions. The recovery well was installed adjacent to the former UST in the sidewalk along Central Avenue to monitor source area groundwater conditions and for conducting dual phase pilot tests as described later in this document. On August 23, 2007 the wells were properly developed using surge swab techniques. Well installation and sampling procedures are described in Attachment A, sampling field data sheets are included in Attachment B, and well construction logs are included in Attachment C.
- **Well Elevation Survey:** On August 20, 2007, Silicon Valley Land Surveying, Inc. surveyed all the new and existing wells for xy coordinates and top of casing (TOC) elevation relative to mean sea level. The new survey data indicated an approximate 1-inch-low TOC elevation discrepancy for well MW-2. RRM re-calculated groundwater elevations and prepared new gradient maps for all eight previous monitoring events conducted since November 1998 using the new elevation survey data. The well survey report is provided in Attachment C. Re-calculated historical groundwater elevation contour maps are presented in Attachment D and reveal that the gradient has been predominantly westerly to southwesterly (toward the bay), consistent with topography except during the first monitoring event (conducted November 27, 1998) when the gradient was southerly. Based in the revised historical groundwater elevation contour maps, the elevation discrepancy for well MW-2 did not produce a significant difference in the gradient contours as originally drawn for the historic monitoring events.
- **Laboratory Analyses:** Selected soil samples from the soil borings and groundwater samples collected from new and existing wells were analyzed for the presence TPHg and BTEX. Additionally, select soil and groundwater samples were analyzed for MtBE and fuel oxygenates. Select soil samples were also analyzed for total petroleum hydrocarbons as Stoddard solvent, diesel, and kerosene.

RESULTS

Second Quarter Groundwater Sampling Event

On May 4, 2007 RRM performed second quarter groundwater sampling activities. TPHg and benzene were detected only in the groundwater sample collected from MW-1 at concentrations of 28,000 ppb and 2,080 ppb, respectively. Fuel oxygenates including MtBE were not detected in any of the samples. Depth to groundwater ranged from 9.17 feet to 9.19 feet bgs with a groundwater flow direction toward the west at an approximate gradient of 0.02 foot/foot.

A groundwater elevation contour map for the May 4, 2007 monitoring event is shown on Figure 3A. Groundwater analytical data is summarized in Table 1 and shown on Figure 4A.

Third Quarter Groundwater Sampling Event

On August 23, 2007 RRM performed third quarter groundwater sampling activities at wells MW-1 through MW-6 and at RW-1. Petroleum hydrocarbons were detected only in wells MW-1 and RW-1. TPHg was detected at concentrations of 56,700 ppb and 16,000 ppb, respectively. Benzene was present only in Well RW-1 at a concentration of 2,570 ppb. Fuel oxygenates including MtBE were not detected in any of the samples. Depth to groundwater ranged from 11.23 feet to 12.23 feet bgs with a groundwater flow direction toward the west at an approximate gradient of 0.01 foot/foot.

A groundwater elevation contour map for the August 23, 2007 monitoring event is shown on Figure 3B. Groundwater analytical data is summarized in Table 1 and shown on Figure 4B. Certified analytical reports and chain-of-custody documentation are presented in Attachment D.

Soil Boring Investigation Results

Conditions encountered in the soil borings were generally consistent with previous investigations and consisted of poorly graded sand and silty sand to 26 feet bgs, the total depth explored. Groundwater was encountered in borings SB-1 through SB-3 and SB-6 at depths ranging from 12.5 feet to 14.5 feet bgs. Petroleum hydrocarbons were detected in soil samples collected from Boring SB-1 at depths ranging from 7.5 feet to 16 feet bgs and from Boring SB-4 at 8 feet bgs. TPHg was detected in Boring SB-1 at concentrations ranging from 0.79 ppm at 7.5 feet bgs to 2,600 ppm at 12 feet bgs and in Boring SB-4 at a concentration of 5.1 ppm at 8 feet bgs. Ethylbenzene was detected at concentrations of 31 ppm at 12 feet bgs and 0.31 ppm at 16 feet bgs. Xylenes concentrations ranged from 0.034 ppm at 7.5 feet bgs to 200 ppm at 12 feet bgs. Fuel oxygenates including MtBE, other volatile organic compounds, and other petroleum hydrocarbons were not detected in any of the soil samples submitted for laboratory analyses.

Specific soil samples collected between 7.5 feet and 15 feet bgs at borings SB-2 and SB-5 were noted on the geologic logs to have a petroleum hydrocarbon odor and a greenish coloring, often associated with degraded gasoline contamination. Soil sample field screening procedures using a PID did not detect measurable volatile hydrocarbons in the samples. The laboratory analytical results of those same samples also did not show any measurable petroleum hydrocarbons. An additional analysis was performed on the sample collected from Boring SB-5 at 10.5 feet using EPA Method 8260B and confirmed the initial non-detect results. Since the PID readings are consistent with the laboratory analytical results, it is RRM's opinion that the odors and soil discoloration observed during drilling are a remnant of degraded petroleum hydrocarbon compounds. This is consistent with the fact that the petroleum hydrocarbon release is believed to have occurred at least four decades ago.

Previous and current soil analytical data are summarized in Table 2 and shown on Figure 5; certified analytical reports and chain-of-custody documentation are presented in Attachment D.

CONCLUSIONS

- Vadose zone soil sample analytical results indicate that there is no significant petroleum hydrocarbon contamination within the upper 8 feet of soil across the site, including the area of the former UST at the northwest corner of the site. The only detectable petroleum hydrocarbon concentration in the vadose zone was 0.79 ppm of TPHg in sample SB-1 located adjacent to the former USTs.
- Saturated zone soil sample analytical results indicate that there is significant residual petroleum hydrocarbon contamination in the upper water-bearing zone in the immediate area of the former USTs. Contamination extends westerly to MW-1 at depths ranging from 8 feet to 18 feet bgs with a maximum TPHg concentration of 4,600 ppm at 14.5 feet bgs in Boring P-3.
- Based on soil sample results from SB-2 at 20 feet bgs, petroleum hydrocarbons have been defined to non-detection in the vertical direction in the immediate tank area.
- Groundwater sample analytical data show that dissolved petroleum hydrocarbons extend from the former UST area southwesterly beneath Ninth Street. Dissolved petroleum hydrocarbons have been defined to non-detection by well MW-2 in the easterly (upgradient) direction, by well MW-3 in the southerly (cross-gradient) direction, and wells MW-4, 5, 6 in the southwesterly (downgradient) direction.
- Due to heavily traveled Central Avenue, it is considered impractical to install a monitoring well in the roadway to define dissolved petroleum hydrocarbons in the northerly (cross-gradient) direction.
- Fuel oxygenates including MtBE were not detected in any of the soil or groundwater samples analyzed and suggest that the subsurface release occurred prior to the 1980s.
- The current and historic shallow groundwater flow direction is westerly to southwesterly when using the most recent well elevation survey data in conjunction with historic groundwater depth readings.
- Petroleum hydrocarbons in soil and groundwater have been adequately defined and characterized.
- Dissolved TPHg and benzene concentrations at wells RW-1 and MW-1 indicate the presence of residual contamination in the vicinity of the former USTs that may continue to affect groundwater quality. In addition, the TPHg and benzene concentrations at these wells exceed the San Francisco Bay Region RWQCBs RBSLs for the vapor intrusion/indoor air pathway for commercial land use.
- There is a need for active remediation of saturated soils/groundwater in the immediate area of the former USTs. The heavily impacted area is approximately 50 feet long by 20 feet wide, extends from approximately 8 feet to 18 feet from grade, and encompasses about 370 bank cubic yards of saturated soils overlain by about 300 bank cubic yards of clean overburden.

- Based on site-specific considerations (soil type, the shallow depth to groundwater, and the small area involved), there are several suitable remediation techniques that could be used. These include: remedial excavation; sparging-enhanced vapor extraction using fixed equipment (SESVE); and sparging-enhanced dual-phase extraction using a self-contained mobile treatment unit (SEDPE). Remedial excavation is complicated by the presence of the sidewalk, street and underground utilities. The second approach does not appear viable due to the residential use of the property and absence of a good location for a treatment compound. While RRM generally recommends the remedial excavation approach for this depth interval and soil volume (based on cost effectiveness and expediency), the third approach may be best suited here.

RECOMMENDATIONS

Feasibility Study

Based on the results and conclusions of the of the site investigation activities, RRM recommends the installation of an air sparging well between wells RW-1 and MW-1 and conducting one day of SEDPE using a self contained mobile treatment unit. The as-built design of wells MW-1 and RW-1 appear suitable to use with this technology. Pending County approval of this approach, RRM will prepare a SEDPE pilot test work plan.

The pilot test should be performed during low groundwater conditions, either in the fourth quarter of 2007 or second or third quarter of 2008. As part of the feasibility study, RRM also recommends mapping out the underground utilities that would need to be addressed both in a remedial excavation approach and to installing air sparge wells and associated conveyance piping.

Upon completion of the one-day test, RRM will prepare a feasibility study/corrective action plan for the site that satisfies State Water Resource Control Board requirements as set forth in CCR, Title 23, Div. 3, Chap. 16, Art. 11, Sec. 2725. The document will present pilot test results, establish proposed cleanup goals, cost out several remedial alternatives for meeting the goals including SEDPE and remedial excavation, and will identify the optimal remedial approach using an appropriate decision matrix.

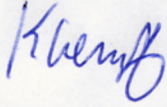
Groundwater Monitoring

Based on recent and historical groundwater monitoring data, RRM recommends the continuation of quarterly sampling and reporting for all site wells.

Should you have any questions regarding the contents of this report, please call RRM at (831) 475-8141.

Sincerely,

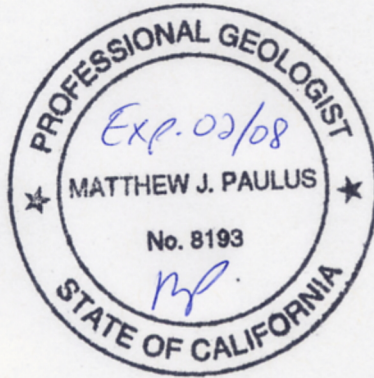
RRM, Inc.



Matt Kaempf
Project Manager



Matthew J. Paulus
Senior Geologist
PG 8193



- Attachments:
- Table 1 – Groundwater Elevation and Analytical Data
 - Table 2 – Soil Analytical Data
 - Figure 1 – Site Location Map
 - Figure 2 – Site Map
 - Figure 3A – Groundwater Elevation Contour Map, May 4, 2007
 - Figure 3B – Groundwater Elevation Contour Map, August 23, 2007
 - Figure 4A – TPHg/Benzene Groundwater Concentration Map, May 4, 2007
 - Figure 4B – TPHg/Benzene/MtBE Groundwater Concentration Map, August 23, 2007
 - Figure 5 – Soil Analytical Results
 - Attachment A – Field and Analytical Procedures
 - Attachment B – Field Data Sheets
 - Attachment C – Well Construction and Boring Logs and Survey Data
 - Attachment D – Historical Groundwater Elevation Contour Maps
 - Attachment E – Certified Analytical Reports and Chain-of-Custody Documentation

Table 1
Groundwater Elevation and Analytical Data

900 Central Avenue
Alameda, California

| Sample ID | Date Gauged & Sampled | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) | TPHg (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Total Xylenes (ppb) | MtBE (ppb) | TPHd (ppb) | TPHmo (ppb) | Notes | |
|-----------|-----------------------|----------------------------|----------------------------|-----------------------------------|---------------|---------------------------|------------------|---------------------|---------------------|------------------|------------------|-------------|-----------|---|
| MW-1 | 11/27/98 | 25.17 | 11.77 | 13.40 | 360 | 5.8 | 5.5 | 9.2 | 40 | <5.0 | <50 | <500 | | |
| | 03/12/99 | | 6.59 | 18.58 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 06/01/99 | | 8.71 | 16.46 | 930 | <0.50 | 19 | 52 | 230 | <5.0 | 540 | <500 | | |
| | 09/03/99 | | 11.79 | 13.38 | 14,000 | 300 | 1,900 | 890 | 5,600 | <5.0 | 2,100 | <500 | | |
| | 03/29/02 | | 8.32 | 16.85 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 61 | <610 | | |
| | 07/15/02 | | 11.39 | 13.78 | 39,000 | 1,700 | 2,900 | 1,800 | 7,800 | <10 | 4,200 | <5000 | | |
| | 10/03/02 | | 12.88 | 12.29 | 42,000 | 2,600 | 3,300 | 1,800 | 10,000 | <500 | 8,400 | <2500 | | |
| | 02/05/07 | | 10.40 | 14.77 | 26,000 | 2,550 | 2,010 | 1,140 | 4,870 | <0.5 | NA | NA | 1 | |
| | 05/04/07 | | 9.77 | 15.40 | 28,000 | 2,080 | 1,820 | 739 | 5,500 | NA | NA | NA | 1 | |
| | 08/23/07 | | 28.27 | 12.23 | 16.04 | 56,700³ | 2,570 | 2,370 | 1,120 | 9,560 | <11 | NA | NA | 1 |
| MW-2 | 11/27/98 | 25.12 | 11.76 | 13.41 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 03/12/99 | | 6.53 | 18.64 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 06/01/99 | | 8.56 | 16.61 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 09/03/99 | | 11.60 | 13.57 | <50 | <0.50 | <0.50 | <0.50 | 1.8 | <5.0 | <50 | <500 | | |
| | 03/29/02 | | 8.10 | 17.07 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 07/15/02 | | 10.92 | 14.25 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 10/03/02 | | DRY | -- | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| | 02/05/07 | | 10.15 | 15.02 | 89 | <0.5 | <0.5 | <0.5 | <1.5 | <0.5 | NA | NA | 1,2 | |
| | 05/04/07 | | 9.43 | 15.74 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | NA | NA | NA | 1 | |
| | 08/23/07 | | 28.31 | 11.94 | 16.37 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | <0.500 | NA | NA | 1 |
| MW-3 | 11/27/98 | 24.58 | 11.41 | 13.76 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 03/12/99 | | 6.01 | 19.16 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 06/01/99 | | 8.16 | 17.01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 09/03/99 | | 11.27 | 13.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 03/29/02 | | 7.78 | 17.39 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 07/15/02 | | 10.82 | 14.35 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | 110 | <500 | | |
| | 10/03/02 | | 12.28 | 12.89 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <500 | | |
| | 02/05/07 | | 9.85 | 15.32 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <0.5 | NA | NA | 1 | |
| | 05/04/07 | | 9.19 | 15.98 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | NA | NA | NA | 1 | |
| | 08/23/07 | | 27.69 | 11.63 | 16.06 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | <0.500 | NA | NA | 1 |
| MW-4 | 08/23/07 | 27.37 | 11.73 | 15.64 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | <0.500 | NA | NA | 1 | |
| MW-5 | 08/23/07 | 27.25 | 11.56 | 15.69 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | <0.500 | NA | NA | 1 | |
| MW-6 | 08/23/07 | 27.24 | 11.52 | 15.72 | <50 | <0.500 | <0.500 | <0.500 | <1.5 | <0.500 | NA | NA | 1 | |

Table 1
Groundwater Elevation and Analytical Data

900 Central Avenue
 Alameda, California

| Sample ID | Date Gauged & Sampled | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) | TPHg (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Total Xylenes (ppb) | MtBE (ppb) | TPHd (ppb) | TPHmo (ppb) | Notes |
|-----------|-----------------------|----------------------------|----------------------------|-----------------------------------|---------------------|---------------|---------------|---------------------|---------------------|------------|------------|-------------|-------|
| RW-1 | 08/23/07 | 27.43 | 11.23 | 16.20 | 16,000 ³ | <4.40 | 38.9 | 571 | 2,660 | <4.40 | NA | NA | 1 |

Notes:

MSL = relative to mean sea level
 TOC = top of casing
 TPHg = gasoline range total petroleum hydrocarbons
 TPHd = diesel range total petroleum hydrocarbons
 TPHmo = motor oil range total petroleum hydrocarbons
 TBA = tert-Butanol
 MtBE = Methyl tert-Butyl Ether
 ppb = parts per billion (micrograms per liter)
 < = none detected at or above reported detection limit
 NS = not sampled
 NA = not analyzed
 1 = also sampled for the fuel oxygenates ethyl tert-butyl ether (ETBE), isopropyl ether (DIPE), t-butyl alcohol (t-butanol) (TBA), and tert-amyl methyl ether (TAME); none of these compounds detected above the laboratory limit.
 2 = the laboratory reported value due to discrete peaks present within the TPH as gasoline quantitation range (heavy end); not typical gasoline.
 3 = the laboratory reported results are elevated due to non-target compounds within the gasoline range

Table 2
Soil Analytical Data

900 Central Avenue
Alameda, California

| Sample ID | Date | Depth (feet, bgs) | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | MtBE (mg/kg) | TPHd (mg/kg) | TPHmo (mg/kg) | TPHss (mg/kg) | TPHk (mg/kg) | VOCs (mg/kg) |
|-----------|----------|-------------------|--------------|-----------------|-----------------|-----------------------|-----------------------|--------------|--------------|---------------|---------------|--------------|--------------|
| SB-1-7.5 | 08/09/07 | 7.5 | 0.79 | <0.010 | <0.010 | <0.010 | 0.034 | NA | NA | NA | NA | NA | NA |
| SB-1-12 | 08/09/07 | 12 | 2,600 | <3.3 | <3.3 | 31 | 200 | NA | NA | NA | NA | NA | NA |
| SB-1-16 | 08/09/07 | 16 | 11 | <0.010 | <0.010 | 0.31 | 1.7 | NA | NA | NA | NA | NA | NA |
| SB-1-20 | 08/09/07 | 20 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-1-24 | 08/09/07 | 24 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-2-8 | 08/09/07 | 8 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-2-11.5 | 08/09/07 | 11.5 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | <5.0 | <10 | <5.0 | <5.0 | NA |
| SB-2-16 | 08/09/07 | 16 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-2-20 | 08/09/07 | 20 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-2-24 | 08/09/07 | 24 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-3-8 | 08/09/07 | 8 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-3-12 | 08/09/07 | 12 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-3-16 | 08/09/07 | 16 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-4-8 | 08/09/07 | 8 | 5.1 | <0.050 | <0.050 | <0.050 | <0.100 | <0.050 | <5.0 | <10 | <5.0 | <5.0 | ND |
| SB-5-8 | 08/09/07 | 8 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | | | |
| SB-5-10.5 | 08/09/07 | 10.5 | <0.10 | <0.005 | <0.005 | <0.005 | <0.010 | <0.0050 | <5.0 | <10 | <5.0 | <5.0 | ND |
| SB-6-8 | 08/09/07 | 8 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-6-12 | 08/09/07 | 12 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| SB-6-16 | 08/09/07 | 16 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-4-6 | 06/22/07 | 6 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-4-10.5 | 06/22/07 | 10.5 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-4-16.5 | 06/22/07 | 16.5 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-5-7.5 | 06/22/07 | 8 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-5-10.5 | 06/22/07 | 10.5 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-5-15 | 06/22/07 | 15.0 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |

Table 2
Soil Analytical Data

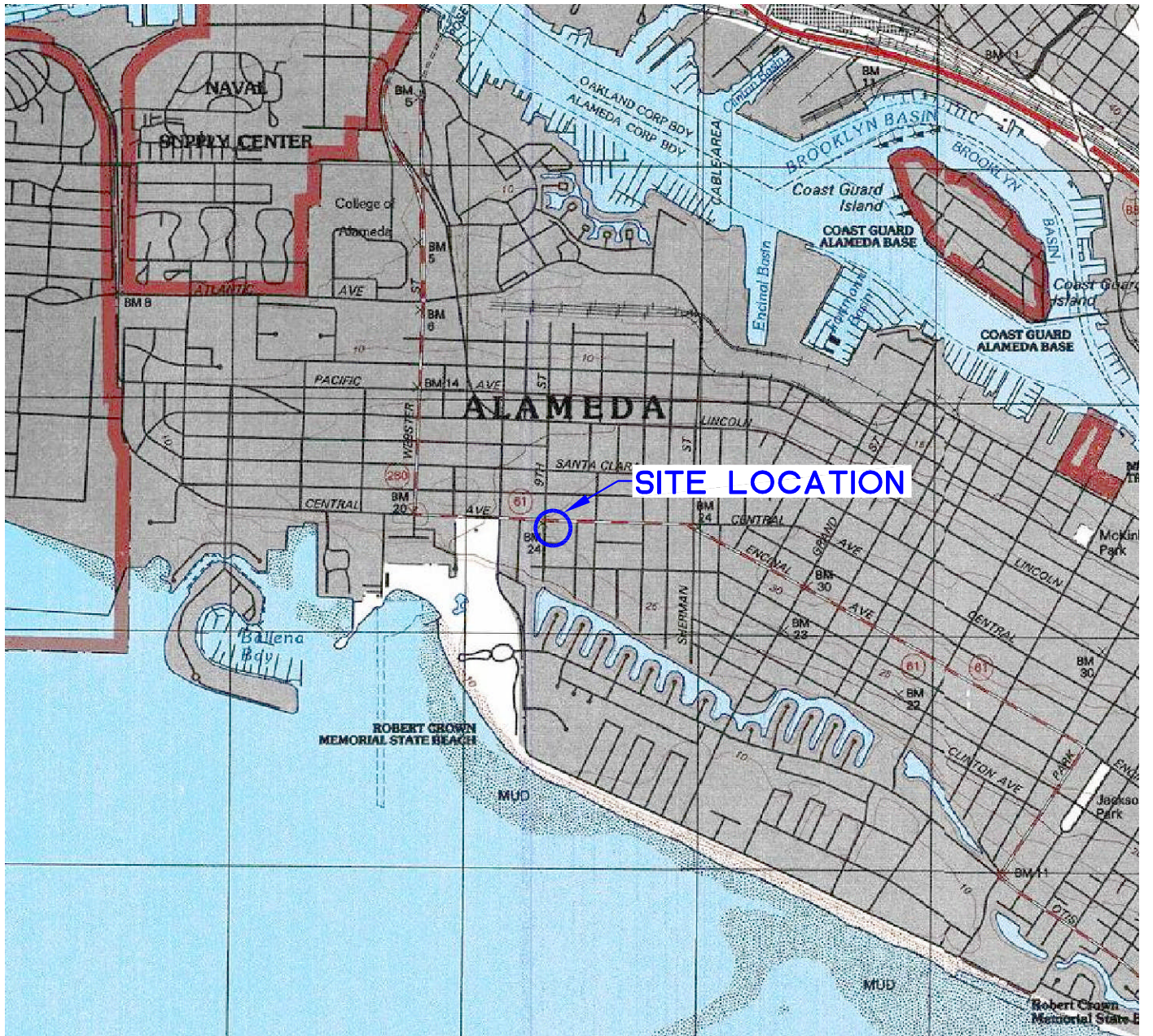
900 Central Avenue
Alameda, California

| Sample ID | Date | Depth (feet, bgs) | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | MtBE (mg/kg) | TPHd (mg/kg) | TPHmo (mg/kg) | TPHss (mg/kg) | TPHk (mg/kg) | VOCs (mg/kg) |
|-----------------------|----------|-------------------|--------------|-----------------|-----------------|-----------------------|-----------------------|--------------|--------------|---------------|---------------|--------------|--------------|
| MW-6-5 | 06/22/07 | 5 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-6-10.5 | 06/22/07 | 10.5 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| MW-6-17 | 06/22/07 | 17 | <0.50 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA | NA | NA |
| EB-1 ^a | 04/20/94 | 14.5 | 95 | 0.4 | 0.5 | 0.9 | 5.2 | NA | 39 | <10 | NA | NA | NA |
| EB-2 ^a | 04/20/94 | 16.5 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | NA | <5 | <10 | NA | NA | NA |
| EB-3 ^a | 04/20/94 | 14.5 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | NA | <5 | <10 | NA | NA | ND |
| P-1-11 ^b | 06/97 | 11 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-2-10.5 ^b | 06/97 | 10.5 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-2-12.5 ^b | 06/97 | 12.5 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-3-11 ^b | 06/97 | 11 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-3-14.5 ^b | 06/97 | 14.5 | 4,600 | ND | 15 | 110 | 590 | NA | NA | NA | NA | NA | NA |
| P-4-13 ^b | 06/97 | 13 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-4-15.5 ^b | 06/97 | 15.5 | 1.1 | 0.011 | 0.0092 | 0.03 | 0.066 | NA | NA | NA | NA | NA | NA |
| P-5-11.5 ^b | 06/97 | 11.5 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-6-10.5 ^b | 06/97 | 10.5 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-7-9.5 ^b | 06/97 | 9.5 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |
| P-8-9.5 ^b | 06/97 | 9.5 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA |

Notes:

TPHg = gasoline range total petroleum hydrocarbons
 TPHd = diesel range total petroleum hydrocarbons
 TPHmo = motor oil range total petroleum hydrocarbons
 TPHss = Stoddard range total petroleum hydrocarbons
 TPHk = kerosene total petroleum hydrocarbons
 MtBE = Methyl tert-Butyl Ether
 a = Work performed by Lowney Associates on April 4, 1994.
 b = Work performed by Allwest in 1997.

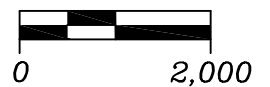
mg/kg = milligrams per kilogram
 bgs = below ground surface
 < = none detected at or above reported detection limit
 ND = not detected
 NA = not analyzed



QUADRANGLE LOCATION



SCALE IN FEET



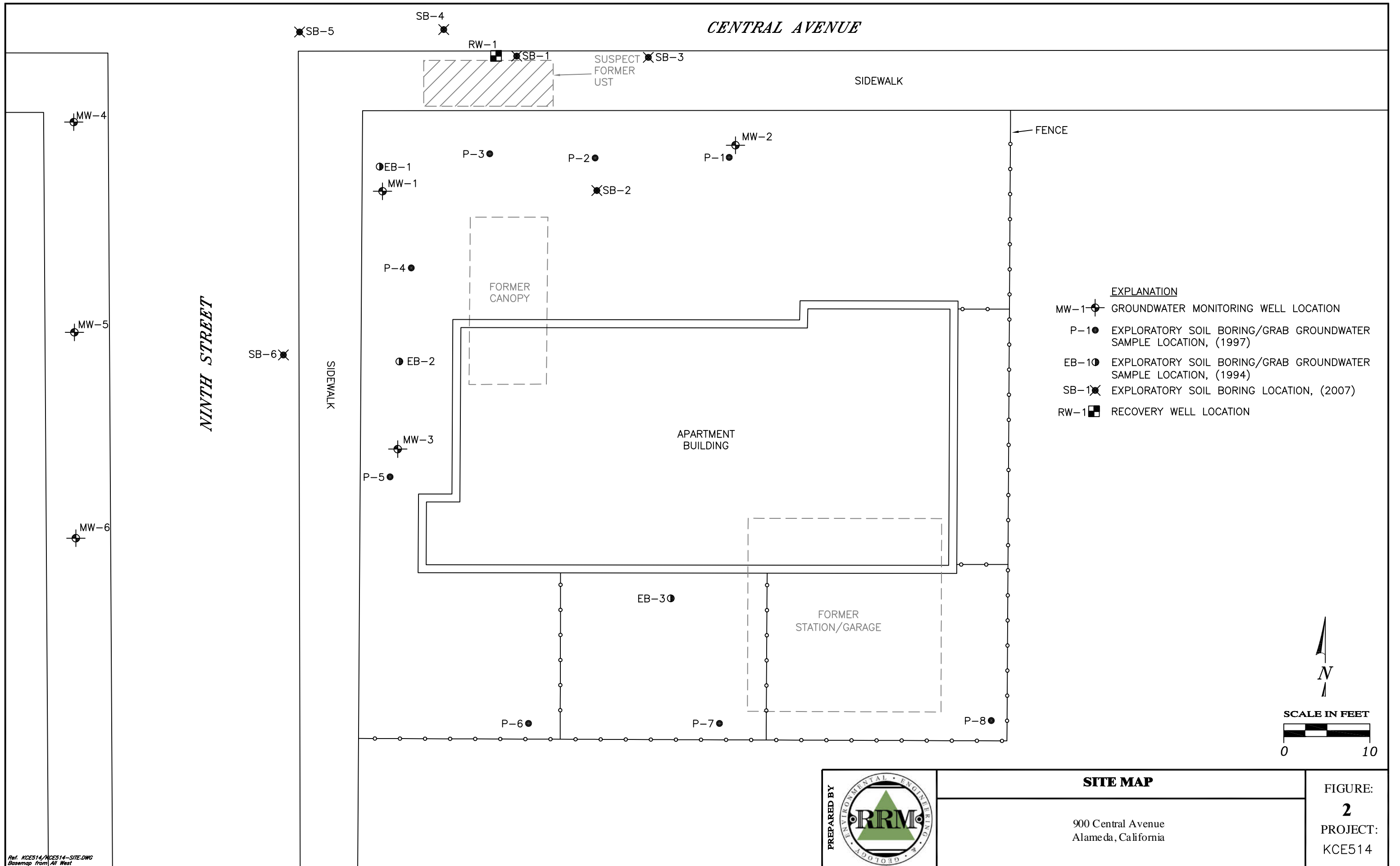
Ref. KCE514/KCE514-SLM.DWG
Base Map from TOPOI.NGH

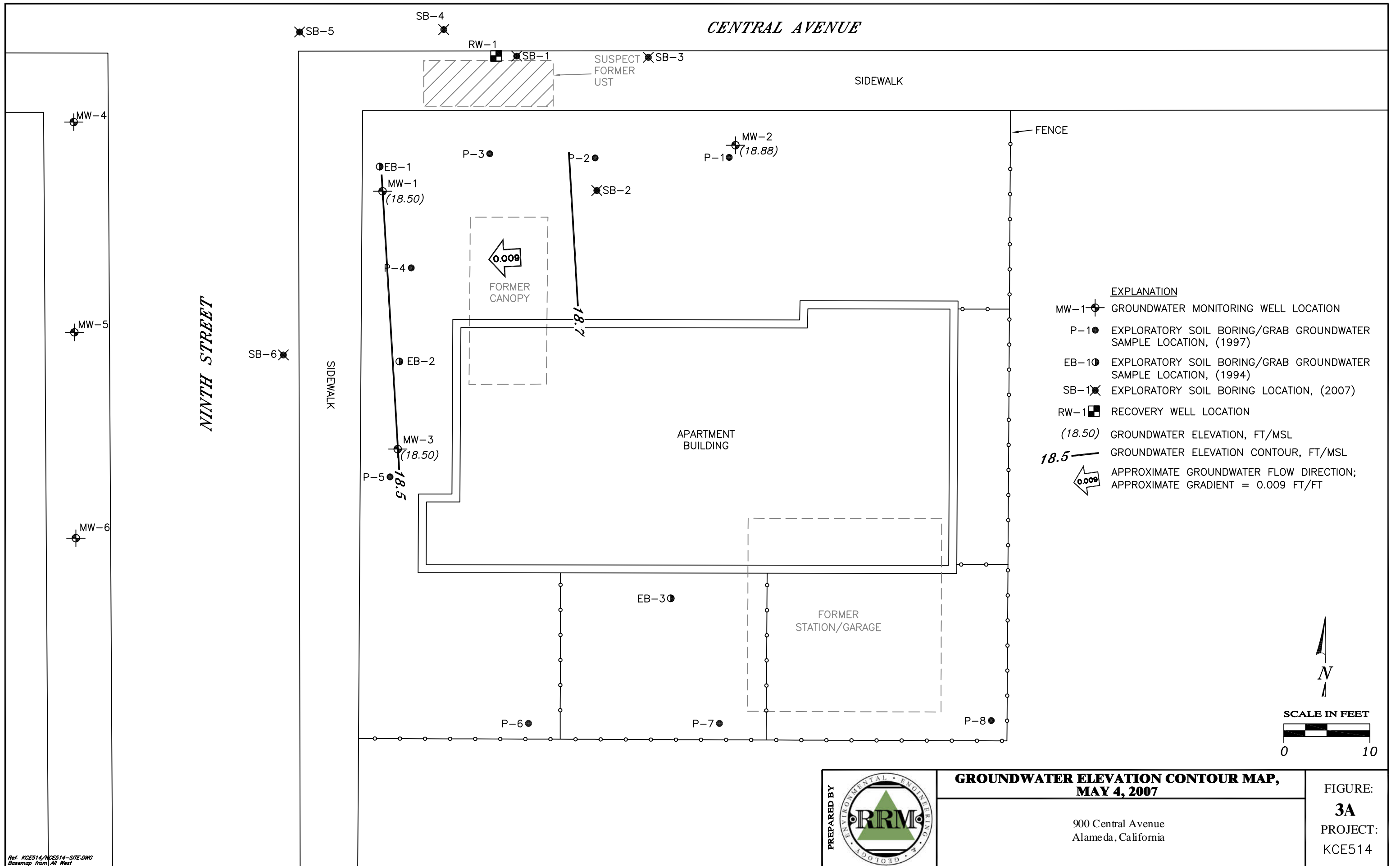
SITE LOCATION MAP

900 Central Avenue
Alameda, California

FIGURE:
1
PROJECT:
KCE514







CENTRAL AVENUE

NINTH STREET

SUSPECT FORMER UST

SIDEWALK

FENCE

SIDEWALK

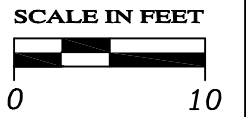
APARTMENT BUILDING

FORMER STATION/GARAGE

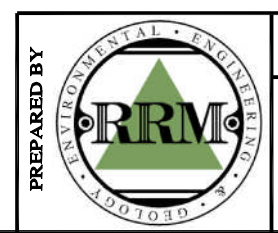
FORMER CANOPY

EXPLANATION

- MW-1 GROUNDWATER MONITORING WELL LOCATION
- P-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
- EB-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
- SB-1 EXPLORATORY SOIL BORING LOCATION, (2007)
- RW-1 RECOVERY WELL LOCATION
- (18.50) GROUNDWATER ELEVATION, FT/MSL
- 18.5 GROUNDWATER ELEVATION CONTOUR, FT/MSL
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.009 FT/FT



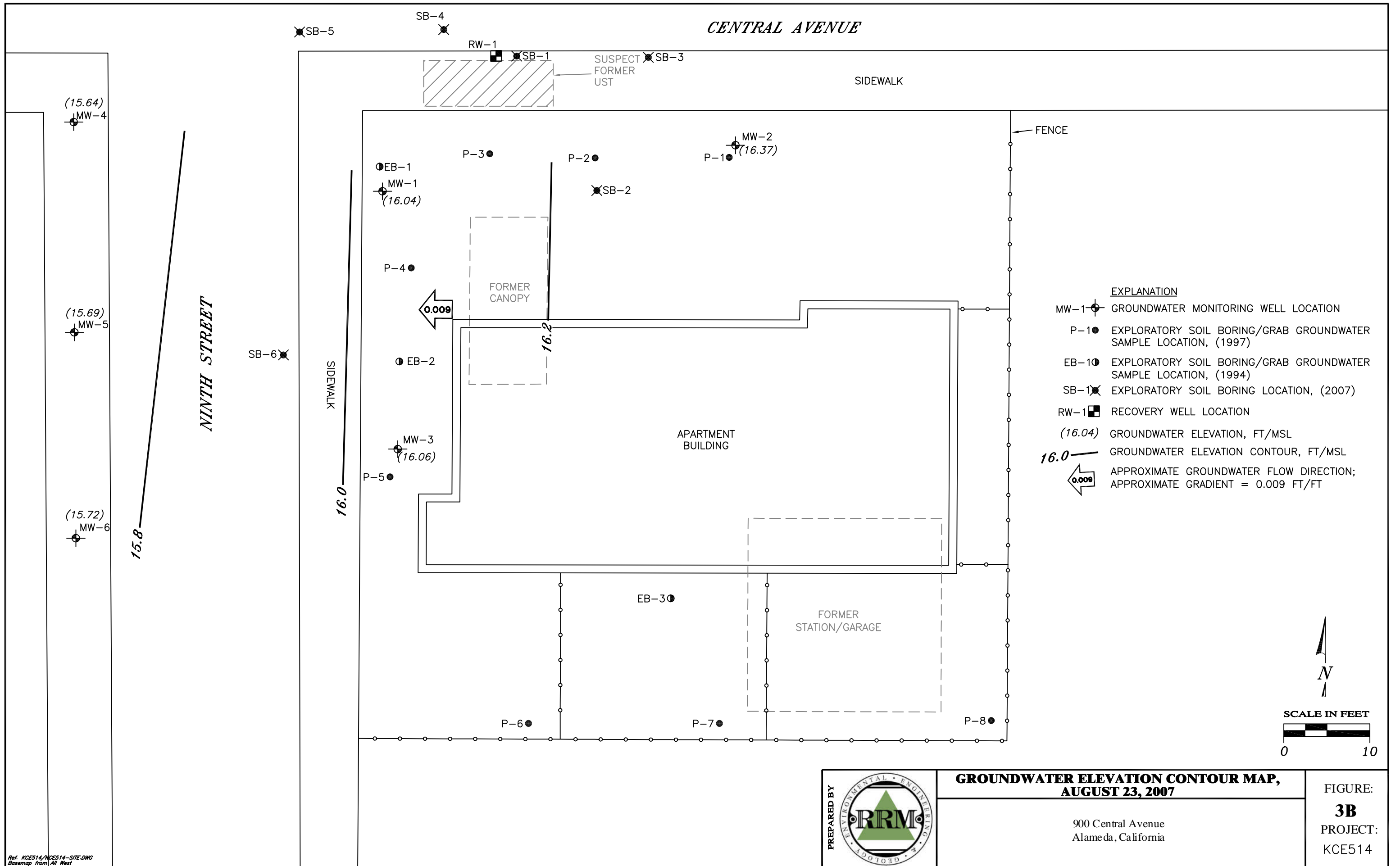
Ref. KCE514/KCE514-SITE.DWG
Base map from All West

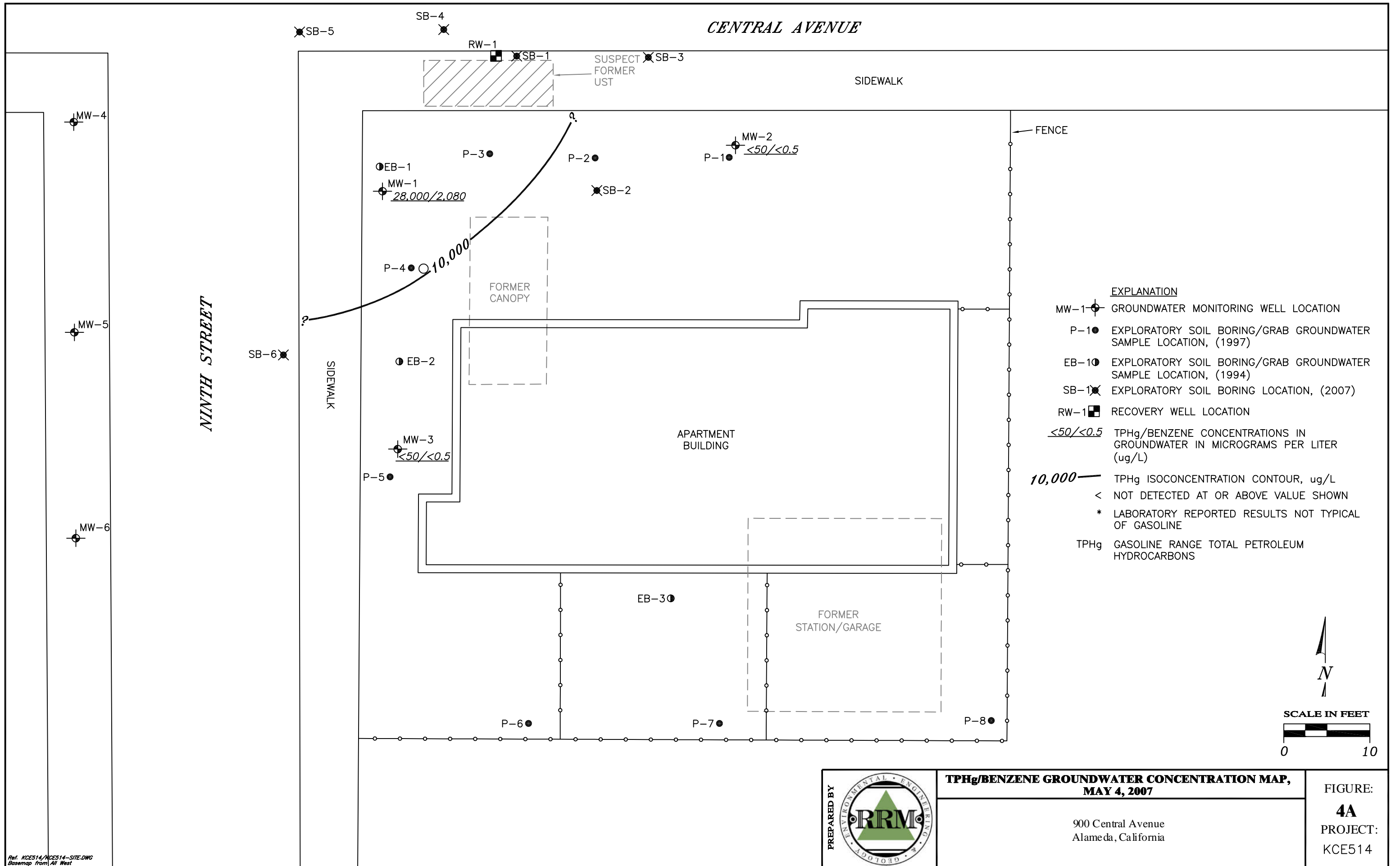


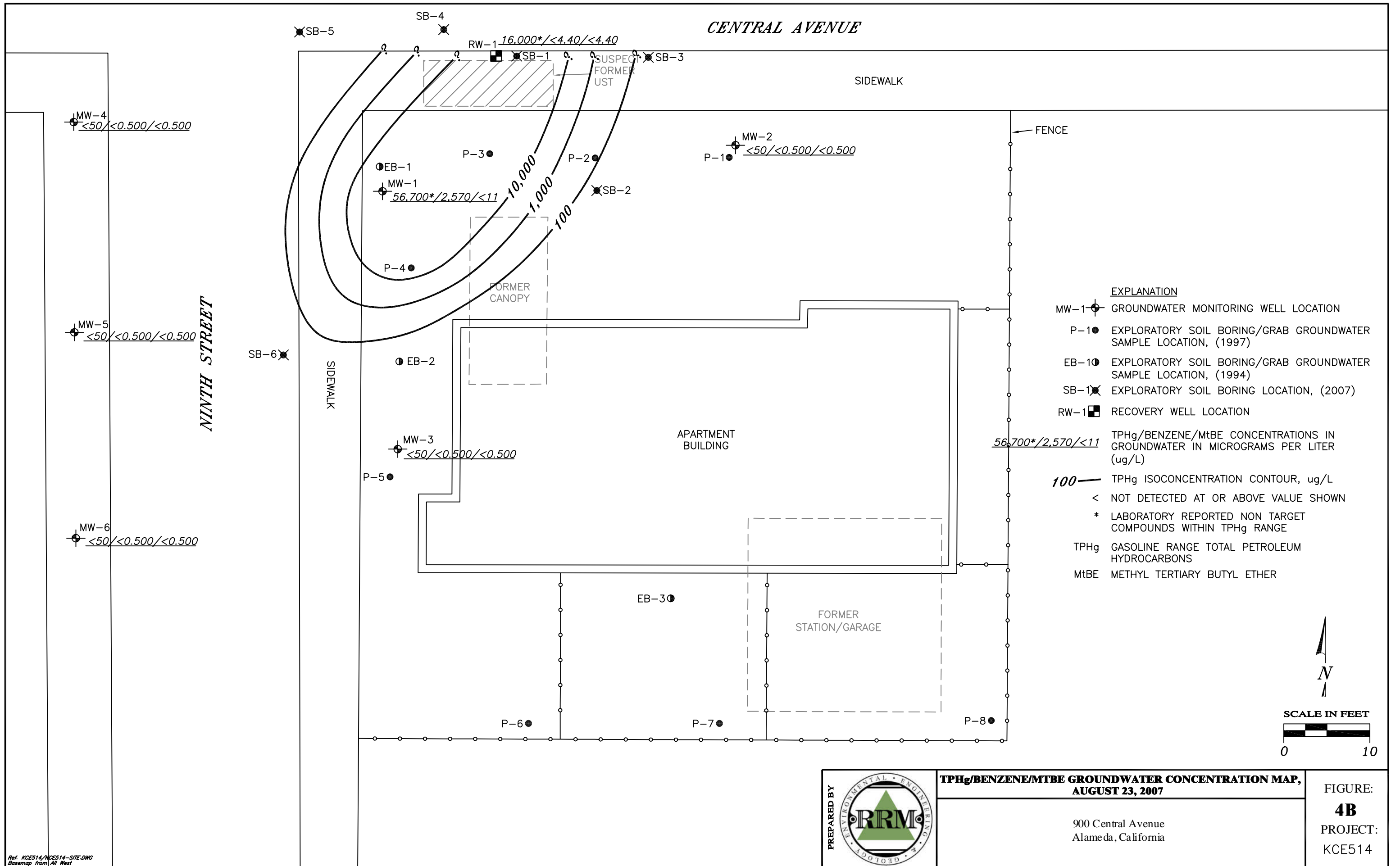
**GROUNDWATER ELEVATION CONTOUR MAP,
MAY 4, 2007**

900 Central Avenue
Alameda, California

FIGURE:
3A
PROJECT:
KCE514







CENTRAL AVENUE

NINTH STREET

SIDEWALK

FENCE

APARTMENT BUILDING

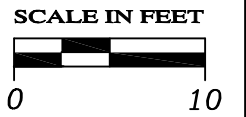
FORMER STATION/GARAGE

FORMER CANOPY

SUSPECT FORMER UST

EXPLANATION

- MW-1 GROUNDWATER MONITORING WELL LOCATION
 - P-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
 - EB-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
 - SB-1 EXPLORATORY SOIL BORING LOCATION, (2007)
 - RW-1 RECOVERY WELL LOCATION
- 56,700*/2,570/<11 TPHg/BENZENE/MTBE CONCENTRATIONS IN GROUNDWATER IN MICROGRAMS PER LITER (ug/L)
- 100 TPHg ISOCONCENTRATION CONTOUR, ug/L
- < NOT DETECTED AT OR ABOVE VALUE SHOWN
- * LABORATORY REPORTED NON TARGET COMPOUNDS WITHIN TPHg RANGE
- TPHg GASOLINE RANGE TOTAL PETROLEUM HYDROCARBONS
- MTBE METHYL TERTIARY BUTYL ETHER

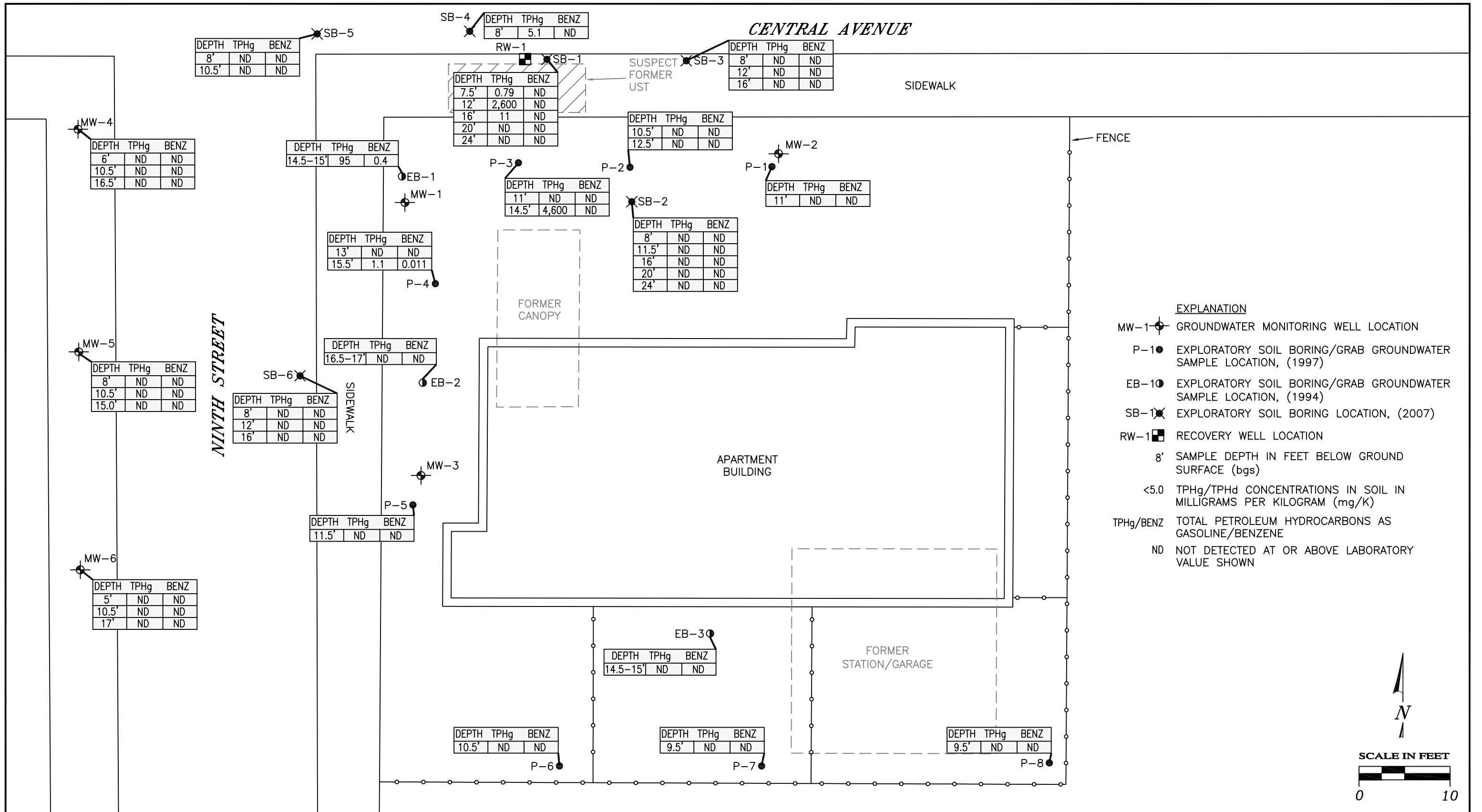


TPHg/BENZENE/MTBE GROUNDWATER CONCENTRATION MAP, AUGUST 23, 2007

900 Central Avenue
Alameda, California

FIGURE:
4B
PROJECT:
KCE514

Ref. KCE514/KCE514-SITE.DWG
Base map from All West



SOIL ANALYTICAL RESULTS

900 Central Avenue
Alameda, California

FIGURE:
5
PROJECT:
KCE514

A

FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A

FIELD AND ANALYTICAL PROCEDURES

Direct-Push Boring Procedures

The soil borings will were drilled using 2-inch diameter direct-push drilling equipment. An RRM, Inc. geologist logged the soil borings using the Unified Soil Classification System and standard geologic techniques. Under the direction of a State of California Registered Geologist, descriptive information noted on the boring logs included soil and groundwater information. Soil samples were collected for lithologic description and chemical analysis by advancing a 2-inch diameter core sampler with either 48-inch or 24-inch long acetate liners into undisturbed soil during drilling. The selected sample intervals retained for chemical analysis were capped with Teflon® tape and plastic end caps, and then placed in sealed plastic bags. These samples were placed on ice for transport to a state-certified laboratory, accompanied by chain-of-custody documentation. Upon completion of all sampling activities, the borings were backfilled with cement grout. Drilling and sampling equipment was steam-cleaned or cleaned with tri-sodium phosphate solution prior to and between uses. When completed, the boreholes were filled with cement grout from the bottom of the boring to the ground surface.

Well Installation

Wells were permitted and installed in accordance with state and local guidelines using a state licensed well driller. Soil borings intended to be 2-inch diameter groundwater monitoring wells were drilled using 8-inch diameter hollow-stem augers to a maximum depth of 26 feet below ground surface (bgs). A RRM, Inc. geologist logged each boring from soil samples and auger cuttings. Under the direction of a State of California Registered Geologist, descriptive information denoted on the boring log includes soil and groundwater information. Drilling and sampling equipment was steam-cleaned or cleaned with tri-sodium phosphate prior to and between uses. The soil boring advanced for the purpose of constructing the 4-inch diameter recovery well was drilled using 12-inch diameter hollow-stem augers to 20 feet bgs.

Soil samples for chemical analysis and logging purposes were collected at minimum 5-foot depth intervals or changes in lithology. Soil samples for chemical analyses were collected from 2-inch diameter split-spoon samplers equipped with 4-inch or 6-inch brass liners. The brass liners were capped with Teflon, plastic end caps, and placed in sealable plastic bags. The brass liners were then stored in iced coolers and transported to a state certified laboratory, with chain-of-custody documentation.

Monitoring Well Installation

Groundwater monitoring wells were constructed to monitor discrete water bearing strata. Well construction information was denoted on the boring log in the field. Well construction materials consisted of a cement grout or bentonite bottom seal (if necessary), 2-inch diameter flush-threaded Schedule 40 PVC casing and 0.020-inch factory-slotted screen, RMC 2 x 12 graded sand pack, a bentonite and cement grout surface seal, and a locking cap and protective vault box. The recovery well was constructed at similar depth intervals using 4-inch diameter PVC casing and screen.

The well screen extends from the maximum depth of the well to approximately 5 feet or 8 feet bgs, with solid casing extending to the ground surface. The sand pack was placed from the bottom of the boring and extends approximately 6-inches above the well screen. A 6-inch thick bentonite seal was placed on top of the sand pack, followed by cement grout extending to the ground surface. A traffic-rated vault box was placed over each well. Following well completion, all new and existing wells were surveyed to the nearest 0.01 feet relative to mean sea level datum by a licensed surveyor.

Well Development/Groundwater Sampling

Well development of new wells or redevelopment of existing wells was performed utilizing surge block/swab and groundwater extraction techniques. Well development was performed until the majority of suspended fines are removed or until approximately ten casing volumes were removed. Well development documentation consists of recording data including: time, groundwater and total well depth, turbidity, gallons removed, and well stabilization parameters (pH, conductivity, temperature). Development and purge waters were stored on site in 55-gallon drums pending proper disposal at a State-licensed facility.

Groundwater sampling procedures consisted of initially measuring and documenting the water level in the well and checking the well for the presence of separate-phase hydrocarbon (SPH) using an oil/water interface probe or a clear Teflon bailer. If the well did not contain SPH, it was purged a minimum of three casing volumes or until dry. During purging, well stabilization parameters (temperature, pH, and electrical conductivity) were monitored. After 80% recovery of the water levels, a groundwater sample was collected with a clean Teflon bailer and placed into the appropriate EPA-approved containers. Sampling equipment was cleaned with tri-sodium phosphate between uses. The samples were labeled and transported under iced storage to the laboratory using appropriate chain-of-custody documentation.

Field Hydrocarbon Screening Procedures

Soil samples collected during soil boring activities were screened in the field for total volatile hydrocarbons (TVH) using a photo-ionization detector (PID). The procedure consisted of obtaining approximately 30 grams of soil and placing it into a clean container. The container was then warmed for 20 minutes and the headspace within the jar was measured for TVH, in parts per million by volume (ppmv). The PID was calibrated in the field prior to use using a 100 ppmv isobutylene in nitrogen standard.

Laboratory Analytical Procedures

Select soil and all groundwater samples collected from new and existing wells were analyzed in the laboratory for the presence of gasoline range total petroleum hydrocarbons; benzene, toluene, ethylbenzene, and total xylenes using GC/MS and EPA Methods 8260B, 8015B, and 8021B. Select groundwater samples were analyzed for methyl tertiary butyl ether and other oxygenates including: ethyl tertiary butyl ether, tertiary butanol, diisopropyl ether, and tertiary amyl methyl ether using EPA Method 8260B.

B

FIELD DATA AND SAMPLING SHEETS

Field Data Sheet
Depth to Water Data Form



2560 Soquel Ave. #202
Santa Cruz, CA 95062
(831) 475-8141

| | | |
|-------------------------------------|-------------------|--------------------------|
| 900 Central Ave. Project Address | 650467 Date | KCE514 Project Number |
| Alameda City | Alameda County | California State |

Water Level Equipment

Electronic Indicator

Oil Water Interface Probe

Other (specify) _____

Measured By: *[Signature]*
name _____

Notes: _____

| DTW Order | Well ID | Time (24:00) | Total Depth | First DTW | Total Depth | Depth to SPH | SPH Thickness | Notes (describe SPH): |
|-----------|---------|--------------|-------------|--------------|-------------|--------------|---------------|-----------------------|
| | | | | (toc or tob) | | | | |
| #3 | MW-1 | 11:37 | 18.73' | 9.77 | | | | |
| #2 | MW-2 | 11:34 | 18.40' | 9.43 | | | | |
| #1 | MW-3 | 11:32 | 18.70' | 9.19 | | | | |
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Signature: *[Signature]*

1/6

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-1 KCE514
Project Address Well/Sample Point ID Project Number

Alameda Alameda California
City County State

Purge Information

Water Level Equipment
 Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment
 Bailer Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 18.73
 depth to water = 9.77
 linear feet of water = 8.96
 gallons per linear foot X 1.7
 gallons per casing = 1.52
 number of casings X 3
 calculated purge = 4.57

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: [Signature]
name

Purge Notes:

Purged Dry?: N circle Y Sampling Delay?: N circle Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|--------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | 1220 | 0 | | | | | | |
| volume 1 | 1223 | 1.50 | 7.40 | 154 | 17.2 | brown | hvy. | mod. |
| volume 2 | 1225 | 3.00 | 7.11 | 206 | 16.9 | " | mod. | strongly |
| volume 3 | 1227 | 4.75 | 7.06 | 217 | 16.8 | " | " | " |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type
 Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment
 Bailer Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

| | | |
|--------------|---------------|--------------|
| Sample ID | Date | Time (24:00) |
| <u>mw-1</u> | <u>050402</u> | <u>1240</u> |
| Dupe # _____ | | 12:00 |

Sampled By: [Signature]
name

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| 3 | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8270) <input checked="" type="checkbox"/> Fuel Oxy (8270) <u>no mibe</u> <input type="checkbox"/> Other (specify) _____ | 40 ml VOA | HCl |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: [Signature]

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-2 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

| | |
|---------------------------|-------|
| total depth = | 18.40 |
| depth to water = | 9.43 |
| linear feet of water = | 8.97 |
| gallons per linear foot X | .17 |
| gallons per casing = | 1.52 |
| number of casings X | 3 |
| calculated purge = | 4.57 |

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: W
 name _____

Purge Notes:

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle 10) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|--------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | 1200 | 0 | | | | | | |
| volume 1 | 1203 | 1.50 | 7.31 | 113 | 16.0 | brown | hazy | mod. |
| volume 2 | 1205 | 3.00 | 7.02 | 116 | 15.6 | " | " | " |
| volume 3 | 1208 | 4.75 | 6.94 | 121 | 15.6 | " | " | " |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

| | | |
|--------------|--------|--------------|
| Sample ID | Date | Time (24:00) |
| MW-2 | 050407 | 1220 |
| Dupe # _____ | | 12:00 |

Sampled By: W
 name _____

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| 3 | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8270) <input checked="" type="checkbox"/> Fuel Oxy (8270) <i>no mibe</i> <input type="checkbox"/> Other (specify) _____ | 40 ml VOA | HCl |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: W

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-3 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailer Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 18.70
 depth to water = 9.19
 linear feet of water = 9.51
 gallons per linear foot X .17
 gallons per casing = 1.62
 number of casings X 3
 calculated purge = 4.85

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name _____

Purge Notes:

Purged Dry?: N circle Y Sampling Delay?: N circle Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|--------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | 1145 | 0 | | | 19 | | | |
| volume 1 | 1148 | 1.50 | 8.56 | 208 | 18.0 | brown | mod. | slight |
| volume 2 | 1150 | 3.25 | 8.09 | 202 | 17.6 | " | " | " |
| volume 3 | 1152 | 5.00 | 7.76 | 197 | 17.5 | " | hvy. | " |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailer Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID MW-3 Date 050407 Time (24:00) 1200
 Dupe # _____ 12:00

Sampled By: [Signature]
 name _____

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MtBE (8270) <input checked="" type="checkbox"/> Fuel Oxy (8270) <u>no MtBE</u> <input type="checkbox"/> Other (specify) _____ | <u>40 ml</u> <u>VOA</u> | <u>HCl</u> |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: [Signature]



2560 SOQUEL AVENUE, SUITE E
SANTA CRUZ, CALIFORNIA 95062
TEL: 831.475.8141
FAX: 831.475.8249

**FIELD
DATA SHEET**

| | |
|--|-------------------|
| Client: Former Holland Oil | Project #: KCE514 |
| Job Address: 900 Central Ave., Alameda | Date: 050407 |
| Weather Conditions: overcast | Personnel: (LWS) |
| Equipment on site: sm truck, sampling equipment. | |
| Arrival Time: 1120 | |
| Departure Time: 1250 | |

FIELD NOTES:

Review STSP upon arrival, prepare for work.


1130 Begin DTW measurements

1140 Begin purge calculations

1145 Begin Sampling.

1240 Finish " , begin cleanup and water transfer

One full drum on site

Signature: 



483 Sinclair Frontage Road
 Milpitas, CA 95035
 Phone: 408.263.5258
 FAX: 408.263.8293
 www.torrentlab.com

CHAIN OF CUSTODY

LAB WORK ORDER NO

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

Company Name: RRM, Inc. Location of Sampling: KCE514, 900 Central Ave, Alameda
 Address: 2560 Soquel Ave #202 Purpose: QGWs
 City: Santa Cruz State: CA Zip Code: 95062 Special Instructions / Comments: No M+BE please.
 Telephone: 831 475 8141 FAX: 831 475 8249 P.O. #: KCE514 EMAIL: matt@rrmsc.com / labdata@rrmsc.com
 REPORT TO: Matt Kaempf SAMPLER: Will Bachan 8260B

TURNAROUND TIME:

- 10 Work Days
- 7 Work Days
- 5 Work Days
- 3 Work Days
- 2 Work Days
- 1 Work Day
- Noon - Nxt Day
- 2 - 8 Hours
- Other

SAMPLE TYPE:

- Storm Water
- Waste Water
- Ground Water
- Soil
- Air
- Other

REPORT FORMAT:

- QC Level IV
- EDF
- Excel / EDD

- EPA 8260B - Full List
- EPA 8260B - 8010 List
- THP gas
- BTEX
- Oxygenates
- MTBE
- THP Diesel
- Motor Oil
- Si-Gel
- Pesticide - 8081
- PCB - 8082
- Metals CAM - 17
- LUFT 5
- 7 Metals
- 8270 Full List
- PAHs Only



ANALYSIS REQUESTED

| LAB ID | CLIENT'S SAMPLE I.D. | DATE / TIME SAMPLED | MATRIX | # OF CONT | CONT TYPE | EPA 8260B - Full List | EPA 8260B - 8010 List | THP gas | BTEX | Oxygenates | MTBE | THP Diesel | Motor Oil | Si-Gel | Pesticide - 8081 | PCB - 8082 | Metals CAM - 17 | LUFT 5 | 7 Metals | 8270 Full List | PAHs Only | REMARKS |
|--------|----------------------|---------------------|--------|-----------|-----------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------|
| | MW-1 | 050407/1240 | L | 3 | HCL VOAs | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | MW-2 | ↓ 1220 | ↓ | ↓ | ↓ | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | MW-3 | ↓ 1200 | ↓ | ↓ | ↓ | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

1 Relinquished By: Will Bachan Print: Will Bachan Date: 050407 Time: 1:35 Received By: [Signature] Print: Fulgum Date: 5-4-07 Time: 1:35 PM

2 Relinquished By: _____ Print: _____ Date: _____ Time: _____ Received By: _____ Print: _____ Date: _____ Time: _____

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment drop off Sample seals intact? Yes NO N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: _____ Date: _____ Log In Reviewed By: _____ Page 1 of 1



2560 SOQUEL AVENUE, SUITE E
 SANTA CRUZ, CALIFORNIA 95062
 TEL: 831.475.8141
 FAX: 831.475.8249

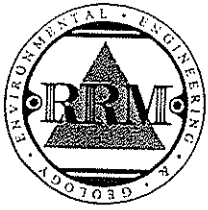
**FIELD
 DATA SHEET**

Client: Keller Project #: KCE514
 Job Address: 900 Central Ave Date: 6-20-07
 Weather Conditions: Foggy in AM / Sun in PM Personnel: Cate Townsend
 Equipment on site: RRM Vehicle / soil sampling - logging equip
 Arrival Time: 0730 Subcontractors: Del Secco
 Departure Time: 1700 Exploration Geoserv.

FIELD NOTES:

Arrive on site. Tag DTW in wells on 900 Central and conduct Safety Meeting.
 [MW-3) 10.43 / 0745 MW-2) 10.53 / 0747 MW-1) 10.83 / 0749]
 Meet w/ rep (Concrete letter) from Del Secco and direct location of first
 well (northwest corner of Ninth st w/ being in CA-61 ROW). After all
 well locations are set, haul away to 4' bags to clear for utilities. Drill
 MW-5 first, sampling continuously. Log samples for lithology and retain for
 analysis. Meet with well inspector (Vicky Hankin) and ACEHD rep
 Stephen Plunkett. Install MW-4 in same manner as MW-5, logging continuously.
 Install MW-6, logging samples every 5 feet. Set well - 10' screen,
 18-6' sand, 2' Britonite, 4' cement grout. Measure DTW in wells after
 casing is set. Collect composite samples from 3 drums of soil cuttings
 stored on-site. Ensure that sidewalk/work area where wells are installed
 is properly cleaned before leaving site.

Signature:



2560 SOQUEL AVENUE, SUITE E
 SANTA CRUZ, CALIFORNIA 95062
 TEL: 831.475.8141
 FAX: 831.475.8249

**FIELD
 DATA SHEET**

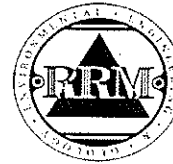
| | |
|--|-------------------------------|
| Client: <u>Kelleher</u> | Project #: <u>KCES14</u> |
| Job Address: <u>900 Central Ave</u> | Date: <u>8-9-07</u> |
| Weather Conditions: <u>Sunny</u> | Personnel: <u>C. Townsend</u> |
| Equipment on site: <u>RRM Truck tools; sampling equip; traffic control equip</u> | |
| Arrival Time: <u>0730</u> | |
| Departure Time: <u>0530</u> | <u>233</u> |

FIELD NOTES:

Arrive on site; locate proposed SB; set up traffic control signs/cones. Meet w/ driller and conduct safety meeting; sign SHTP. Set up on SB-1, hand auger to 4'; drill to 24'. Note sheep contact (color) in sample line from 7.5 to 8 interval. Could indicate staining from hydrocarbons - SPD throughout until $\approx 20'$. Drill SB-2 in location adjacent to hedge in front of opt. building. Refused @ hand auger @ 4' - indicate pipe. Move location 7-8' south and re-drill. SPD and soil staining noted @ 10.5-11.5 and throughout sample until $\approx 18.5'$ when impact appears to be less. Drill to 26' to confirm soil is not further impacted beyond 19'. Drill step-out location adjacent to driveway south of SB-1. Soil appears to not be impacted - no staining or SPD to 16'. Drill step-out location in street in front of SB-1. Note impacted soil @ 7.5-8' bgs. Drill SB-5 a - corner of sidewalk approx 14' west of SB-4. Hit refusal @ $\approx 1'$ bgs and move a foot away and drill to 12'. Sheep contact in color and odor in soil @ 9.5' to depth of boring. Per ACCENTS request, locate point between PM-EB2 and drill SB-6 adjacent to curb in 9th St. Drill to 16'; no visible impact or odors in soil to depth of boring. Wrap up work and clean site; backfill soil bumps of next contact.

Signature:

Field Data Sheet
Depth to Water Data Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

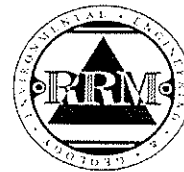
| | |
|--|---|
| Site Information | |
| 900 Central Ave. <small>Project Address</small> | 082307 <small>Date</small> |
| Alameda <small>City</small> | California <small>State</small> |
| Alameda <small>County</small> | KCE514 <small>Project Number</small> |

| | |
|--|---|
| Water Level Equipment <input checked="" type="checkbox"/> Electronic Indicator <input type="checkbox"/> Oil Water Interface Probe <input type="checkbox"/> Other (specify) _____ | Measured By: <u>[Signature]</u> name _____ Notes: _____ |
|--|---|

| DTW Order | Well ID | Time (24.00) | Total Depth | First DTW (toc or tob) | Total Depth (toc or tob) | Depth to SPH (toc or tob) | SPH Thickness (toc or tob) | Notes (describe SPH): |
|-----------|---------|--------------|-------------|---------------------------|-----------------------------|------------------------------|-------------------------------|--------------------------------|
| #4 | MW-1 | 12:52 | 18.73' | 12.23 | | | | |
| #2 | MW-2 | 12:50 | 18.40' | 11.94 | | | | |
| #1 | MW-3 | 12:48 | 18.70' | 11.63 | | | | |
| #5 | MW-4 | 13:00 | 17.95 | 11.73 | | | | 18.00 |
| #6 | MW-5 | 13:04 | 17.95 | 11.56 | | | | 18.0 |
| #7 | MW-6 | 13:08 | 17.10 | 11.52 | | | | 17.90 |
| #3 | RW-1 | 12:54 | 19.05 | 11.23 | | | | (4") 19.85 |
| | | | | | | | | Total depth after development. |

Signature: [Signature]

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-1 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 10.73
 depth to water = 12.23
 linear feet of water = 6.50
 gallons per linear foot X .47
 gallons per casing = 4.0
 number of casings X 3
 calculated purge = 3.32

| casing diameter | | gallons per linear foot |
|-----------------------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |
| 1 cubic foot = 7.48 gallons | | |

Purged By: [Signature]
 name _____

Purge Notes: _____

Purged Dry?: N circle Y Sampling Delay?: N circle Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle 6) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|--------------|------------------|-------------|-----------------|--------------------|-------------------|------------------------------|------------------|
| start | <u>1355</u> | <u>0</u> | | | | | | |
| volume 1 | <u>1357</u> | <u>1.25</u> | <u>6.75</u> | <u>157</u> | <u>22.6</u> | <u>cloudy</u> | <u>mod.</u> | <u>strong</u> |
| volume 2 | <u>1359</u> | <u>2.50</u> | <u>6.79</u> | <u>141</u> | <u>20.3</u> | <u>0</u> | <u>"</u> | <u>"</u> |
| volume 3 | <u>1401</u> | <u>3.50</u> | <u>6.80</u> | <u>138</u> | <u>19.7</u> | <u>2</u> | <u>high</u> | <u>"</u> |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID MW-1 Date 082307 Time (24:00) 1410

Dupe # _____ 12:00

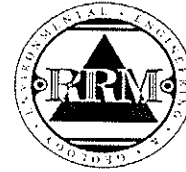
Sampled By: [Signature]
 name _____

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|--|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MtBE (8270) <input checked="" type="checkbox"/> Fuel Oxys, no MtBE (8270) <input type="checkbox"/> Other (specify) _____ | <u>40 ml</u> <u>VOA</u> | <u>HCl</u> |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes: _____

Signature: [Signature]

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-2 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 18.40
 depth to water = 11.94
 linear feet of water = 6.46
 gallons per linear foot X .17
 gallons per casing = 1.10
 number of casings X 3
 calculated purge = 3.29

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name _____

Purge Notes:

Purged Dry?: N circle Y Sampling Delay?: N circle Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|--------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | 1340 | 0 | | | | | | |
| volume 1 | 1343 | 1.25 | 7.18 | 82 | 21.5 | brown | hvy. | havy |
| volume 2 | 1345 | 2.50 | 6.91 | 83 | 20.5 | " | " | " |
| volume 3 | 1347 | 3.50 | 6.83 | 82 | 19.9 | " | " | " |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear neavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID MW-2 Date 082307 Time (24:00) 1355

Dupe # _____ 12:00

Sampled By: [Signature]
 name _____

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| 3 | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MIBE (8270) <input checked="" type="checkbox"/> Fuel Oxy. no MIBE (8270) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA | HCl |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: [Signature]

10

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-3 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment
 Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 18.70
 depth to water = 11.63
 linear feet of water = 7.07
 gallons per linear foot X .17
 gallons per casing = 1.20
 number of casings X 3
 calculated purge = 3.60

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name _____

Purge Notes:

Purged Dry?: N circle Y Sampling Delay?: N circle Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|--------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | 1325 | 0 | | | | | | |
| volume 1 | 1329 | 1.25 | 7.49 | 146 | 23.6 | brown | mod. | none |
| volume 2 | 1331 | 2.50 | 7.45 | 134 | 22.0 | " | " | " |
| volume 3 | 1333 | 3.75 | 6.94 | 131 | 20.8 | " | Hvy. | " |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type
 Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

| | | |
|--------------|---------------|--------------|
| Sample ID | Date | Time (24:00) |
| <u>MW-3</u> | <u>082307</u> | <u>1340</u> |
| Dupe # _____ | | 12:00 |

Sampled By: [Signature]
 name _____

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|--|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MtBE (8270) <input checked="" type="checkbox"/> Fuel Oxys, no MtBE (8270) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA | HCl |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₂ |

Sampling Notes:

Signature: [Signature]

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-4 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment
 Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 17.95
 depth to water = 11.73
 linear feet of water = 6.22
 gallons per linear foot X .17
 gallons per casing = 1.06
 number of casings X 10
 calculated purge = 3.17 ¹⁰⁰¹

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name

Purge Notes:
Development sheet attached

Purged Dry?: N Y Sampling Delay?: N Y

| | time (24:00) | gallons (purged) | pH (units) | EC (µs @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|------------------------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | <u>1450</u> | 0 | | | | | | |
| volume 1 | | | | | | | | |
| volume 2 | <u>See development sheet</u> | | | | | | | |
| volume 3 | | | | | | | | |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate sight, none

Groundwater Sampling Information

Sample Type
 Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID MW-4 Date 082307 Time (24:00) 1525

Dupe # _____ 12:00

Sampled By: [Signature]
 name

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MtBE (8270) <input checked="" type="checkbox"/> Fuel Oxy. no MtBE (8270) <input type="checkbox"/> Other (specify) _____ | <u>40 ml</u> <u>VOA</u> | <u>HCl</u> |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

| | | | |
|--------------------------------|-----------------------|------------------------------|--|
| Date: 082307 | Well ID: MW-4 | Well Diameter: 2" | Estimated Purge: 10.81 |
| Station / Project #: KCE514 | Well Material: PVC | Well Total Depth: 17.95 | Actual Purge: 10.75 |
| Site Address: 900 Central Ave. | Screen Interval: | Well Type: | Groundwater Monitoring Well: <input checked="" type="checkbox"/> |
| City: Alameda | Filter Pack Interval: | Groundwater Extraction Well: | Sparge/Dual Purpose Well: |
| County / State: Alameda, CA | Filter Pack Material: | | |
| Field Technician: Will B. | | | |

Well Development Method

Submersible Pump
 Bailer
 Surge Block / Swab
 Other

Well Development Data

| TIME | DEPTH | | GALLONS | | MEASUREMENTS | | | | |
|-----------|---------|----------|-----------|--------|--------------|------------------------|--------------|-------|-----------|
| | Start | To Water | To Bottom | Pumped | Total | pH | Conductivity | Temp. | Turbidity |
| 1450/1453 | 11.73 | 17.95 | 1.00 | 1.00 | 7.07 | 145 | 24.1 | Hkx. | none |
| 1459 | | | 1.00 | 2.00 | 7.13 | 126 | 21.8 | " | " |
| 1501 | | | 1.00 | 3.00 | 7.10 | 20.4 123 | 20.4 | " | " |
| 1503 | | | 1.00 | 4.00 | 7.03 | 115 | 20.1 | " | " |
| 1505 | | | 1.00 | 5.00 | 7.00 | 114 | 19.9 | " | " |
| 1507 | | | 1.00 | 6.00 | 6.96 | 115 | 19.7 | " | " |
| 1509 | | | 1.00 | 7.00 | 6.94 | 112 | 19.7 | " | " |
| 1511 | | | 1.00 | 8.00 | 6.97 | 113 | 19.9 | " | " |
| 1513 | | | 1.25 | 9.25 | 6.95 | 114 | 19.7 | " | " |
| 1515 | | 18.00 | 1.50 | 10.75 | 6.94 | 112 | 19.6 | " | " |
| 1525 | Sampled | | | | | | | | |

Signature: _____

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-5 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailer Disposable Teflon #: _____
 Submersible Pump: type: _____
 Other (specify) _____

Purged By: CO
 name

Purge Notes:
Development sheet attached.

Purge Calculation

total depth = 17.95
 depth to water = 11.56
 linear feet of water = 6.40
 gallons per linear foot X .17
 gallons per casing = 1.09
 number of casings X 10
 calculated purge = 3.26 ^{10.92}

| casing diameter | | gallons per linear foot |
|-----------------------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |
| 1 cubic foot = 7.48 gallons | | |

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|------------------------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | <u>1525</u> | <u>0</u> | | | | | | |
| volume 1 | | | | | | | | |
| volume 2 | <u>See Development Sheet</u> | | | | | | | |
| volume 3 | | | | | | | | |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailer Disposable Teflon #: _____
 Submersible Pump: type: _____
 Sampling Port
 Other (specify) _____

Sample ID MW-5 Date 082307 Time (24:00) 1600

Dupe # _____ 12:00

Sampled By: CO
 name

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MtBE (8270) <input checked="" type="checkbox"/> Fuel Oxy. no MtBE (8270) <input type="checkbox"/> Other (specify) _____ | <u>40 ml</u> <u>VOA</u> | <u>HCl</u> |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

| | | | |
|--------------------------------|-----------------------|------------------------------|--|
| Date: 082307 | Well ID: MW-5 | Well Diameter: 2" | Estimated Purge: 10.92 |
| Station / Project #: KCES14 | Well Material: PVC | Well Total Depth: 17.95 | Actual Purge: 11.00 |
| Site Address: 700 Central Ave. | Screen Interval: | Well Type: | Groundwater Monitoring Well: <input checked="" type="checkbox"/> |
| City: Alameda | Filter Pack Interval: | Groundwater Extraction Well: | Sparge/Dual Purpose Well: |
| County / State: Alameda, CA | Filter Pack Material: | | |
| Field Technician: W. H. B. | | | |

Well Development Method

Submersible Pump _____ Bailer Surge Block / Swab _____ Other _____

1525

Well Development Data

| TIME | DEPTH | | GALLONS | | MEASUREMENTS | | | | |
|------|----------|-----------|---------|-------|--------------|--------------|-------|-----------|---------|
| | To Water | To Bottom | Pumped | Total | pH | Conductivity | Temp. | Turbidity | Notes |
| 1530 | 11.56 | 17.95 | 1.00 | 1.00 | 6.88 | 121 | 21.5 | H/Ly. | No odor |
| 1532 | | | 1.25 | 2.25 | 6.84 | 117 | 20.7 | " | " |
| 1534 | | | 2.25 | 3.50 | 6.84 | 114 | 20.4 | " | " |
| 1537 | | | 1.00 | 4.50 | 6.86 | 109 | 20.3 | " | " |
| 1539 | | | 1.00 | 5.50 | 6.84 | 107 | 20.3 | " | " |
| 1541 | | | 1.00 | 6.50 | 6.85 | 105 | 20.3 | " | " |
| 1544 | | | 1.25 | 7.75 | 6.82 | 103 | 20.3 | " | " |
| 1546 | | | 1.00 | 8.75 | 6.83 | 101 | 20.3 | " | " |
| 1548 | | | 1.25 | 10.00 | 6.87 | 100 | 20.4 | " | " |
| 1550 | 1630 | 18.00 | 1.00 | 11.00 | 6.89 | 99 | 20.4 | " | " |
| 1600 | Sampled | | | | | | | | |

Signature: W. H. B.

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. MW-6 KCE514
 Project Address Well/Sampto Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment
 Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth = 17.10
 depth to water = 11.52
 linear feet of water = 5.58
 gallons per linear foot X .17
 gallons per casing = 0.95
 number of casings X 10
 calculated purge = 284.954

| casing diameter | | gallons per linear foot |
|-----------------|-------------------------------------|-------------------------|
| 0.75 in. | <input type="checkbox"/> | 0.023 |
| 1 in. | <input type="checkbox"/> | 0.04 |
| 2 in. | <input checked="" type="checkbox"/> | 0.17 |
| 4 in. | <input type="checkbox"/> | 0.67 |
| 6 in. | <input type="checkbox"/> | 1.5 |
| other | <input type="checkbox"/> | calculate |

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name

Purge Notes:
Development sheet attached

Purged Dry?: N Y Sampling Delay?: N Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbity (NTU or see below) | odor (see below) |
|----------|-------------------------------|------------------|------------|-----------------|---------------------|-------------------|----------------------------|------------------|
| start | 1800 | 0 | | | | | | |
| volume 1 | | | | | | | | |
| volume 2 | <u>See development sheet.</u> | | | | | | | |
| volume 3 | | | | | | | | |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type
 Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

| Sample ID | Date | Time (24:00) |
|--------------|---------------|--------------|
| <u>MW-6</u> | <u>082307</u> | <u>1615</u> |
| Dupe # _____ | | 12:00 |

Sampled By: [Signature]
 name

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|---|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MIBE (8270) <input checked="" type="checkbox"/> Fuel Oxy. no MtBE (8270) <input type="checkbox"/> Other (specify) _____ | <u>40 ml</u> <u>VOA</u> | <u>HCl</u> |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes: _____

Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

| | | | |
|--------------------------------|---------------|-------------------------|--|
| Date: 082307 | Well ID: MW-6 | Well Diameter: 2" | Estimated Purge: 9.54 |
| Station / Project #: KCE5-4 | | Well Material: PVC | Actual Purge: ~4 gal. |
| Site Address: 900 Central Ave. | | Well Total Depth: 17.10 | Well Type: |
| City: Alameda | | Screen Interval: | Groundwater Monitoring Well: <input checked="" type="checkbox"/> |
| County / State: Alameda, CA | | Filter Pack Interval: | Groundwater Extraction Well: |
| Field Technician: Will B | | Filter Pack Material: | Sparge/Dual Purpose Well: |

Well Development Method

Submersible Pump Bailer Surge Block / Swab Other

1600

Well Development Data

| TIME | DEPTH | | GALLONS | | MEASUREMENTS | | | | |
|------|--------------------------|-----------|---------|-------|--------------|--------------|-------|-----------|---------|
| | To Water | To Bottom | Pumped | Total | pH | Conductivity | Temp. | Turbidity | Notes |
| 1605 | 11.52 | 17.10 | 1.00 | 1.00 | 6.78 | 130 | 24.1 | mud. | no odor |
| 1607 | | | 1.00 | 2.00 | 6.80 | 121 | 22.2 | hvy. | " |
| 1609 | | | 1.00 | 3.00 | 6.89 | 121 | 21.7 | " | " |
| 1604 | | 17.90 | 1.00 | 4.00 | 6.98 | 120 | 21.3 | " | " |
| | well purged dry at ~4.00 | | | | | | | | |
| 1615 | Sampled | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Signature: _____

Field Data Sheet
Groundwater Sampling Form



2560 Soquel Ave. #202
 Santa Cruz, CA 95062
 (831) 475-8141

Site Information

900 Central Ave. RW-1 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment
 Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: Keck
 Other (specify) _____

Purge Calculation

total depth = 19.05
 depth to water = 11.23
 linear feet of water = 7.82
 gallons per linear foot X .67
 gallons per casing = 5.24
 number of casings X 10
 calculated purge = 52.39

| casing diameter | gallons per linear foot |
|-----------------|-------------------------|
| 0.75 in. | 0.023 |
| 1 in. | 0.04 |
| 2 in. | 0.17 |
| 4 in. | 0.67 |
| 6 in. | 1.5 |
| other | calculate |

1 cubic foot = 7.48 gallons

Purged By: LO
 name

Purge Notes:
Development sheet attached.

Purged Dry?: N circle Y Sampling Delay?: N circle Y

| | time (24:00) | gallons (purged) | pH (units) | EC (us @ 25° C) | temp (°F circle °C) | color (see below) | turbidity (NTU or see below) | odor (see below) |
|----------|------------------------------|------------------|------------|-----------------|---------------------|-------------------|------------------------------|------------------|
| start | 1410 | 0 | | | | | | |
| volume 1 | | | | | | | | |
| volume 2 | <u>See development sheet</u> | | | | | | | |
| volume 3 | | | | | | | | |
| volume 4 | | | | | | | | |
| complete | | | | | | | | |

brown, yellow heavy, moderate
 cloudy, clear light, trace
 strong, moderate
 slight, none

Groundwater Sampling Information

Sample Type
 Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) Recovery Well

Sampling Equipment
 Bailor Disposable Teflon #: _____
 Submersible Pump; type: Keck
 Sampling Port
 Other (specify) _____

Sample ID RW-1 Date 082307 Time (24:00) 1540

Dupe # _____ 12:00

Sampled By: LO
 name

| # of Cont. | Analyses (check and circle) | Container/Size | Preservative |
|------------|--|--|---------------------------------|
| <u>3</u> | <input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8260B) <input type="checkbox"/> MiBE (8270) <input checked="" type="checkbox"/> Fuel Oxys, no MiBE (8270) <input type="checkbox"/> Other (specify) _____ | <u>40 ml</u> <u>VOA</u> | <u>HCl</u> |
| | <input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____ | 40 ml VOA 1 liter amber 500 ml plastic | HCl none HNO ₃ |

Sampling Notes:

Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

| | | | |
|--------------------------------|-----------------------|------------------------------|------------------------------|
| Date: 08/23/07 | Well ID: RW-1 | Well Diameter: 4" | Estimated Purge: 52.39 |
| Station / Project #: KCF514 | Well Material: PVC | Well Total Depth: 19.05 | Actual Purge: 52.50 |
| Site Address: 500 Central Ave. | Screen Interval: | Well Type: Recovery Well | Groundwater Monitoring Well: |
| City: Alameda | Filter Pack Interval: | Groundwater Extraction Well: | Sparge/Dual Purpose Well: |
| County / State: Alameda / CA | Filter Pack Material: | | |
| Field Technician: Will B. | | | |

Well Development Method

Submersible Pump Bailer _____ Surge Block / Swab _____ Other _____

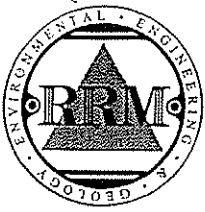
Well Development Data

| TIME | DEPTH | | GALLONS | | MEASUREMENTS | | | | | |
|------|---------|----------|-----------|--------|--------------|------|--------------|-------|-----------|-------------|
| | Start | To Water | To Bottom | Pumped | Total | pH | Conductivity | Temp. | Turbidity | Notes |
| 1410 | | 11.23 | | 5.25 | 5.25 | 6.38 | 199 | 23.5 | Heavy | strong odor |
| 1414 | | | | 6.25 | 10.50 | 6.68 | 186 | 21.1 | " | mod odor |
| 1417 | | 17.20 | | 5.25 | 15.75 | 6.85 | 175 | 19.8 | " | " |
| 1420 | | | | 5.25 | 21.00 | 6.83 | 172 | 19.7 | " | strong odor |
| 1423 | | 18.80 | | 5.25 | 26.25 | 6.85 | 161 | 19.9 | " | " |
| 1426 | | | | 5.25 | 31.50 | 6.84 | 160 | 19.8 | " | " |
| 1429 | | 19.10 | 19.80 | 5.25 | 36.75 | 6.82 | 155 | 19.9 | mod. | " |
| 1432 | | | | 5.25 | 42.00 | 6.82 | 155 | 19.9 | " | " |
| 1435 | | 19.12 | | 5.25 | 47.25 | 6.81 | 151 | 19.9 | " | " |
| 1438 | | | 19.85 | 5.25 | 52.50 | 6.79 | 147 | 20.0 | light | " |
| 150 | Sampled | | | | | | | | | |

Signature: _____

RRM, Inc.

60



2560 SOQUEL AVENUE, SUITE E
SANTA CRUZ, CALIFORNIA 95062
TEL: 831.475.8141
FAX: 831.475.8249

**FIELD
DATA SHEET**

| | |
|---|--------------------------|
| Client: <u>Holland Oil</u> | Project #: <u>KCE514</u> |
| Job Address: <u>900 Central Ave / Alameda</u> | Date: <u>082307</u> |
| Weather Conditions: <u>Clear, HOT</u> | Personnel: <u>WJ</u> |
| Equipment on site: <u>truck, sampling equipment</u> | |
| Arrival Time: <u>1200</u> | |
| Departure Time: <u>1635</u> | |

FIELD NOTES:

Inspect site and close off wells upon arrival.
1220 Begin DTW measurements
Pause to get ice.
1245 Begin DTW measurements
1310 Begin ~~DTW~~ purge calculations.
1325 Begin sampling.
1620 Finish " and developing wells, begin clean up and water transfer

Drums: 6 soil and 2 water on site

Signature: WJ

C

**WELL CONSTRUCTION AND BORING LOGS
AND SURVEY DATA**

GeoTracker_XY Report for
Monitoring Wells Surveyed at 900 Central Ave, Alameda, CA.
by Silicon Valley Land Surveying, Inc. for Remediation Risk Management, Inc.

| FIELD_PT_NAME | XY_SURVEY_DATE | LATITUDE | LONGTITUDE | XY_METHOD | XY_DATUM | XY_AC | XY_SURVEY_ORG | GPS_EQUIP_TYPE |
|---------------|----------------|------------|-------------|-----------|----------|-------|------------------------------------|----------------|
| MW1 | 8/20/2007 | 37.7710314 | 122.2704785 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |
| MW2 | 8/20/2007 | 37.7711463 | 122.2703142 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |
| MW3 | 8/20/2007 | 37.7711114 | 122.2704706 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |
| MW4 | 8/20/2007 | 37.7711496 | 122.2706539 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |
| MW5 | 8/20/2007 | 37.7710806 | 122.2706549 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |
| MW6 | 8/20/2007 | 37.7710168 | 122.2706580 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |
| RW1 | 8/20/2007 | 37.7711744 | 122.2704010 | GPS | NAD83 | 2 | Silicon Valley Land Surveying Inc. | L530 |

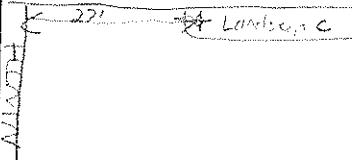
GeoTracker_Z Report for
Monitoring Wells Surveyed at 900 Central Ave, Alameda, CA.
by Silicon Valley Land Surveying, Inc. for Remediation Risk Management, Inc.

| FIELD_PT | ELEV_SUR | ELEVATION | ELEV_M | ELEV | ELEV | ELEV_SURVEY_ORG | RISER_HT | ELEV_DESC |
|----------|-----------|-----------|--------|------|------|------------------------------------|----------|------------------------------------|
| MW1 | 8/20/2007 | 28.273 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.176 | NGS BM HT-0865 Adjusted to NAVD 88 |
| MW2 | 8/20/2007 | 28.306 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.18 | NGS BM HT-0865 Adjusted to NAVD 88 |
| MW3 | 8/20/2007 | 27.688 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.296 | NGS BM HT-0865 Adjusted to NAVD 88 |
| MW4 | 8/20/2007 | 27.368 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.354 | NGS BM HT-0865 Adjusted to NAVD 88 |
| MW5 | 8/20/2007 | 27.252 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.32 | NGS BM HT-0865 Adjusted to NAVD 88 |
| MW6 | 8/20/2007 | 27.238 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.259 | NGS BM HT-0865 Adjusted to NAVD 88 |
| RW1 | 8/20/2007 | 27.434 | DIG | 88 | 2 | Silicon Valley Land Surveying Inc. | -0.43 | NGS BM HT-0865 Adjusted to NAVD 88 |

WELL/BORING LOCATION MAP



CENTRAL AVE



Remediation Risk Management, Inc.

WELL/BORING: SB-1

DATE: 8-9-07

DRILLING METHOD: Geoprobe

PROJECT: KCE514

SAMPLING METHOD: Hydraulic

CLIENT: Kelleher

BORING DIAMETER: 2"

LOCATION: 900 Central Ave

BORING DEPTH: 24'

CITY: Alameda

WELL CASING: N/A

CO./STATE: Alameda/CA

WELL SCREEN: N/A

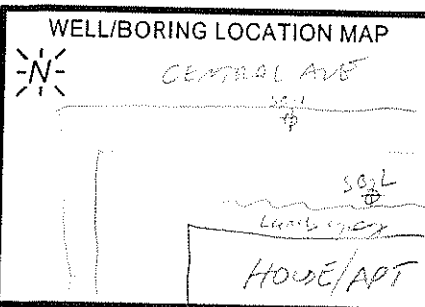
DRILLER: Uironex

SAND PACK: N/A

| WELL/BORING COMPLETION | FIRST STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | TIME: | DATE: | DESCRIPTION LOGGED BY: |
|------------------------|------------------|----------|--------------------|----------------------|---------------------|--------------|--------------------------|---------|-------------|--------------|-------|-------|---|
| | | | | | | 1 | | | | | | | ≈ 6" top soil |
| | | | | | | 2 | | | SM | | | | Silt. Sand Dark Brn; 7.5 YR - 4/4; 15% silt; 85% fine sand; loose; dry; roots; NPO |
| | | | | | | 3 | | | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 5 | | | SM | | | | Silt. Sand; Dark Brn; 7.5 YR - 4/4; 10-15% silt; 85-90% fine sand; color change @ 7.5' to Min Grm 5Y-4/2 - NPO until ≈ 7.5' - SPO - appears to be stratified color change |
| | | | | 1.1 | SB-1 7.5 0850 | 7 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 10 | | | | | | | |
| | | | | | | 11 | | | SM | | | | Silt. Sand; Dark Greenish Gray; 5G-4/1; 15% silt; 85% fine sand; very moist; SPO |
| | | | | 5.8 | SB-1-12 1900 | 12 | | | | | | | |
| | | | | | | 13 | | | | | | | |
| | | | | | | 14 | | | SP | | | | Poorly Graded Sand; varies (moist) from Dark Greenish Gray; 5G-4/1 to Dark Brn; 7.5 YR - 4/4; 5% fine sand/silt; 95% medium sand; wet; SPO |
| | | | | 0.9 | SB-1 0824 | 15 | | | | | | | |
| | | | | | | 16 | | | | | | | |
| | | | | | | 17 | | | | | | | |
| | | | | | | 18 | | | SP | | | | same as above; color not varied; Dark Greenish Gray; 5G-4/1; wet |
| | | | | | | 19 | | | | | | | |
| | | | | 0 | SB-1 0931 | 20 | | | | | | | |
| | | | | | | 21 | | | | | | | |
| | | | | | | 22 | | | SP | | | | Poorly Graded Sand; Dark Brn 7.5 YR 4/4; 5% silt/fine sand; 95% medium to coarse sand; loose; wet; SPO - shoe of drill |
| | | | | | | 23 | | | | | | | sharpened NPO |
| | | | | | | 24 | | | | | | | BOTTOM OF BORING 24' |

REINFORCED GROUT

11.0 SB-1
24'
0940



Remediation Risk Management, Inc. WELL/BORING: SB-2

DATE: 8-9-07 DRILLING METHOD: Geoprobe

PROJECT: KCE514 SAMPLING METHOD: Hydraulic

CLIENT: Ketcher BORING DIAMETER: 2"

LOCATION: 900 Central Ave BORING DEPTH: 26'

CITY: Alameda WELL CASING: N/A

CO./STATE: Alameda / CA WELL SCREEN: N/A

DRILLER: Virocex SAND PACK: N/A

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | | | | |
|------------------------|-------|------------|----------|--------------------|----------------------|---------------|--------------|----------|-----------------|---------|-------------|-------------------------------------|--|--|--|--|
| | | | | | | | | | | | | TIME: | | | | |
| | | | | | | | | | | | | DATE: | | | | |
| | | | | | | | | | | | | DESCRIPTION/LOGGED BY: Pat Townsend | | | | |
| | | | | | | | 1 | | | | | | | | | |
| | | | | | | | 2 | | | | | | | | | |
| | | | | | | | 3 | | | | | | | | | |
| | | | | | | | 4 | | | | | | | | | |
| | | | | | | | 5 | | | | | | | | | |
| | | | | | | | 6 | | | | | | | | | |
| | | | | | | | 7 | | | | | | | | | |
| | | | | | | | 8 | | | | | | | | | |
| | | | | | | | 9 | | | | | | | | | |
| | | | | | | | 10 | | | | | | | | | |
| | | | | | | | 11 | | | | | | | | | |
| | | | | | | | 12 | | | | | | | | | |
| | | | | | | | 13 | | | | | | | | | |
| | | | | | | | 14 | | | | | | | | | |
| | | | | | | | 15 | | | | | | | | | |
| | | | | | | | 16 | | | | | | | | | |
| | | | | | | | 17 | | | | | | | | | |
| | | | | | | | 18 | | | | | | | | | |
| | | | | | | | 19 | | | | | | | | | |
| | | | | | | | 20 | | | | | | | | | |
| | | | | | | | 21 | | | | | | | | | |
| | | | | | | | 22 | | | | | | | | | |
| | | | | | | | 23 | | | | | | | | | |
| | | | | | | | 24 | | | | | | | | | |

CEMENT GROUT

SM Silty Sand: Yellowish Red silt. 7/6
10% silt; 90% sand; damp; NPO

SM Silty Sand: Olive Brn; 25% 4/3 - 15%
silt/fine sand; 85% sand; color change
@ 10.5-11' to Dark Green (gray)
59-4%; damp; SPO @ 11'

SP Poorly Graded Sand: Dark Green
(gray); 36% 4/1 5% silt/fine sand;
95% medium sand; moist; SPO

SP As above

color change - to Olive Brn 25% 4/3;
SPO to ~ 18.5'; NPO @ 19 to 20'

SM Silty Sand: Olive Brn; 25% 4/3
10% fine; 90% medium sand
damp; NPO

SB-2
24'
120

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc.

WELL/BORING: SB-2

| | |
|------------|------------------|
| DATE: | DRILLING METHOD: |
| PROJECT: | SAMPLING METHOD: |
| CLIENT: | BORING DIAMETER: |
| LOCATION: | BORING DEPTH: |
| CITY: | WELL CASING: |
| CO./STATE: | WELL SCREEN: |
| DRILLER: | SAND PACK: |

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | TIME: | DATE: |
|------------------------|-------|-------------------------------------|----------|--------------------|----------------------|---------------|--------------|----------|-----------------|---------|-------------|--|-------|-------|
| | | | | | | | | | | | | DESCRIPTION LOGGED BY: | | |
| | | <input checked="" type="checkbox"/> | | | | | 25 | | | | | | | |
| | | | | | | | 26 | | | | | SP Well Great Soil, some color a above WET, APO | | |
| | | | | | | | 26' | | | | | | | |

WELL/BORING LOCATION MAP



SEE SITE MAP

Remediation Risk Management, Inc.

WELL/BORING: SB-3

| | |
|---------------------------|------------------------------|
| DATE: 8-9-07 | DRILLING METHOD: Inexpensive |
| PROJECT: KCE511 | SAMPLING METHOD: Hand-dug |
| CLIENT: Kullcher | BORING DIAMETER: 2" |
| LOCATION: 900 Central Ave | BORING DEPTH: 16' |
| CITY: Alameda | WELL CASING: N/A |
| CO./STATE: Alameda / CA | WELL SCREEN: N/A |
| DRILLER: Ironex | SAND PACK: N/A |

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | GRAPHIC | USCS SYMBOL | WATER LEVEL | TIME | DATE | DESCRIPTION LOGGED BY: |
|------------------------|-------|------------|----------|--------------------|----------------------|---------------------|--------------|----------|---------|-------------|-------------|------|------|--|
| | | | | | | | 1 | | | | | | | 304 top soil |
| | | | | | | | 2 | | | | | | | N/A |
| | | | | | | | 3 | | | SC | | | | Orange Sand; Dark Brn 75% - 44; 25% mpf; 75% fine sand; NPD |
| | | | | | | SB-3 45' 1300 | 4 | | | | | | | |
| | | | | | | | 5 | | | SM | | | | Silty Sand; Dark Brn 7.5% - 44; 10% silt 90% fine sand; lower damp NPD |
| | | | | | | | 6 | | | | | | | |
| | | | | | | | 7 | | | | | | | |
| | | | | | | SB-3 8' 1310 | 8 | | | | | | | |
| | | | | | | | 9 | | | SP | | | | Poorly Graded Sand; Dark Yellowish Brn 10% - 2/4; 5% fines; 95% fine to medium sand; damp; lower NPD |
| | | | | | | | 10 | | | | | | | |
| | | | | | | | 11 | | | | | | | |
| | | | | | | SB-3 12' 1315 | 12 | | | | | | | |
| | | | | | | | 13 | | | | | | | |
| | | | | | | | 14 | | | SM | | | | Silty Sand; Dark Yellowish Brn 10% - 44; 10-15% fines/silt; 85-90% sand; wet; lower NPD |
| | | | | | | | 15 | | | | | | | |
| | | | | | | SB-3 16' 1320 | 16 | | | | | | | Bottom of Gray 16' |

WELL/BORING LOCATION MAP



SEE SITE MAP

Remediation Risk Management, Inc.

WELL/BORING: SB-4

DATE: 8-9-07

DRILLING METHOD: Geoprobe

PROJECT: KCCS14

SAMPLING METHOD: 1.5' diameter

CLIENT: Kelleher

BORING DIAMETER: 2"

LOCATION: 900 Central Ave

BORING DEPTH: 8'

CITY: Alameda

WELL CASING: N/A

CO./STATE: Alameda/CA

WELL SCREEN: N/A

DRILLER: V/DONX

SAND PACK: N/A

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | | DESCRIPTION/LOGGED BY: Cate Towne | |
|---------------------------------------|-------|------------|----------|--------------------|----------------------|---------------|--------------------|----------|-----------------|---------|-------------|--------------|-------|-----------------------------------|--|
| | | | | | | | | | | | | TIME: | DATE: | | |
| 2' CEMENT SAND 8' BOTTOM OF BORING | | | | | | | 1 | | | | | | | | |
| | | | | | | | 2 | | | | | | | | |
| | | | | | | | 3 | | | | | | | | |
| | | | | | | | 4 | | | | | | | | SM Silty Sand; Dark Yellowish Brn to YR-OR 15% silt / 5% clay; 25% sand; 10% gravel NPD; NPD |
| | | | | | | | 5 | | | | | | | | |
| | | | | | | | 6 | | | | | | | | |
| | | | | | | | 7 | | | | | | | | |
| | | | | | 7.4 | | 18.4 1400 81 | 8 | | | | | | | SM - color change to Dark Greenish Gray 5% clay NPD until x 7.5, SPD @ 7.5-8' |

WELL/BORING LOCATION MAP



SEE ITEM MAP

Remediation Risk Management, Inc.

WELL/BORING: SB-5

| | |
|---------------------------|---------------------------|
| DATE: 8-9-07 | DRILLING METHOD: Geoprobe |
| PROJECT: KCE514 | SAMPLING METHOD: |
| CLIENT: KULCO | BORING DIAMETER: 2" |
| LOCATION: 900 Central Ave | BORING DEPTH: 12' |
| CITY: Alameda | WELL CASING: N/A |
| CO./STATE: Alameda / CA | WELL SCREEN: N/A |
| DRILLER: Vitonex | SAND PACK: N/A |

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | | | DESCRIPTION LOGGED BY: C Townsend |
|------------------------|-------|------------|----------|--------------------|----------------------|-----------------|--------------|----------|-----------------|---------|-------------|--------------|--|--|--|
| | | | | | | | | | | | | TIME: | | | |
| | | | | | | | 1 | | | | | | | | 6" asphalt |
| | | | | | | | 2 | | | | | | | | |
| | | | | | | | 3 | | | | | | | | |
| | | | | | | SB-5-41 1500 | 4 | | | | | | | | SM Salty Sand; Dark Yellowish Brn; 10% 10-15% silt; 15-20% clay; the sand loose; no NPD |
| | | | | | | | 5 | | | | | | | | |
| | | | | | | | 6 | | | | | | | | SM Same as above, iron-oxide staining clump; NPD |
| | | | | | | | 7 | | | | | | | | |
| | | | | | | SB-5-42 1510 | 8 | | | | | | | | |
| | | | | | | | 9 | | | | | | | | |
| | | | | | | SB-5-43 1520 | 10 | | | | | | | | SM As above. Sharp color change @ 9.5' from Dark Yellowish Brn to Dark Green Gray; SPO @ 9.5-10' |
| | | | | | | | 11 | | | | | | | | |
| | | | | | | | 12 | | | | | | | | |

CENTRAL AVE

PORTION OF BORING 12'

WELL/BORING LOCATION MAP



SEE SITE MAP

Remediation Risk Management, Inc.

WELL/BORING: SB-6

DATE: 8-9-07

DRILLING METHOD: Gr. probe

PROJECT: KLE514

SAMPLING METHOD:

CLIENT: Kellard

BORING DIAMETER: 2"

LOCATION: 900 Central Ave

BORING DEPTH: 16'

CITY: Alameda

WELL CASING: N/A

CO./STATE: Alameda / CA

WELL SCREEN: N/A

DRILLER: Vibrex

SAND PACK: N/A

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | | | DESCRIPTION LOGGED BY: Cate Townsend | | |
|------------------------|-------|------------|----------|--------------------|----------------------|---------------------|--------------|----------|-----------------|---------|-------------|--------------|--|--|--------------------------------------|--|--|
| | | | | | | | | | | | | TIME | | | | | |
| | | | | | | | 1 | | | | | | | | | | |
| | | | | | | | 2 | | | | | | | | | | |
| | | | | | | | 3 | | | | | | | | | | |
| | | | | | | SB-6 41 1540 | 4 | | | | | | | | | | |
| | | | | | | | 5 | | | | | | | | | | |
| | | | | | | | 6 | | | | | | | | | | |
| | | | | | | | 7 | | | | | | | | | | |
| | | | | | | SB-6 1548 | 8 | | | | | | | | | | |
| | | | | | | | 9 | | | | | | | | | | |
| | | | | | | | 10 | | | | | | | | | | |
| | | | | | | | 11 | | | | | | | | | | |
| | | | | | | SB-6 121 1600 | 12 | | | | | | | | | | |
| | | | | | | | 13 | | | | | | | | | | |
| | | | | | | | 14 | | | | | | | | | | |
| | | | | | | | 15 | | | | | | | | | | |
| | | | | | | SB-6 161 1610 | 16 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

EMERGENCY

6' BOTTOM OF BURNING 16'

≈ 6" asphalt

SM Silty Sand - Dark yellowish Br - 10% R-4/10
15% silt 15%; 85% fine sand; loose; iron oxide staining; NPO

SM Silty Sand - Dark yellowish Br - 10% R-4/6
sand as above; NPO

SM Same as above

SP As above - color
5% fines; 95% Sand; very moist
NPO

SEND DWG TO

AK
PW
JUN
VIT

| | | | |
|-------------------------------------|-----------------------------------|----------------------|-------------------|
| WELL/BORING LOCATION MAP | Remediation Risk Management, Inc. | | WELL/BORING: RW-1 |
| | DATE: 8/3-07 | DRILLING METHOD: HSA | |
| | PROJECT: K0514 | SAMPLING METHOD: SS | |
| | CLIENT: Kellehr | BORING DIAMETER: 12" | |
| | LOCATION: 900 Central Ave | BORING DEPTH: | |
| | CITY: Alameda | WELL CASING: | |
| | CO./STATE: Alameda / CA | WELL SCREEN: | |
| DRILLER: Expl. Geo | SAND PACK: | | |

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | SAMPLE INTERVAL | GRAPHIC | USCS SYMBOL | WATER LEVEL: | TIME: | DATE: | DESCRIPTION/LOGGED BY: |
|------------------------|-------------------------------------|-------------------------------------|----------|--------------------|----------------------|---------------|--------------|--------------|-----------------|---------|-------------|--------------|-------|---------|---|
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | 1 | | | | | 1138 | 1033 | 8-13-07 | See log for SB-1 Note a 10' run within change notes from dark grey to yellowish grey; sand with sand |
| | | | | | | | 2 | | | | | | | | |
| | | | | | | | 3 | | | | | | | | |
| | | | | | | | 4 | | | | | | | | |
| | | | | | | RW-1 0930 | 5 | | | | | | | | |
| | | | | | | | 748 | RW-1 0940 | 9' | | | | | | |
| | | | | | | | 200 | BW-1 15' | 15' | | | | | | |
| | | | | | | | 938 | BW-1 20' | 20' | | | | | | |
| | | | | | | | 1207 | 1207 | 20' | | | | | | |

Comp-1 0930

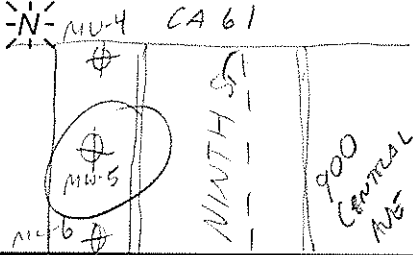
| | | | | | |
|--------------------------|--|-----------------------------------|--|--------------------------|--|
| WELL/BORING LOCATION MAP | | Remediation Risk Management, Inc. | | WELL/BORING: MW-4 | |
| | | DATE: 6-20-07 | | DRILLING METHOD: HSA | |
| | | PROJECT: K05514 | | SAMPLING METHOD: SS | |
| | | CLIENT: Kalcher | | BORING DIAMETER: 8" | |
| | | LOCATION: 900 Central Ave | | BORING DEPTH: 18' | |
| | | CITY: Alameda | | WELL CASING: 2" PVC | |
| | | CO./STATE: Alameda / CA | | WELL SCREEN: 18-8' 0.020 | |
| | | DRILLER: Explor. Geoserv. | | SAND PACK: 18-6' #3 | |

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | GRAPHIC | USCS SYMBOL | DESCRIPTION | LOGGED BY: |
|------------------------|-------------------------------------|-------------------------------------|----------|--------------------|----------------------|---------------|--------------|----------|---------|-------------|---|------------|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | 4" concrete | |
| | | | D | | | | 1 | | | | ML Silty sand, 7.5 YR - 4/4 - Dark Brown; 15' very fine sand; 85' silt; occasional clast/pebble (sub-rounded) roots; dry loose; NPO | |
| | | | D | 5.711 | 1.0 | MW-4-1375 | 5 | | | | ML Sandy Silt, 10 YR - 4/6 - Dark Yellowish Brown 30-40% silt; 60-70% fine sand; Dry; loose; iron oxide staining; NPO | |
| | | | D | 10.814 | 0.0 | MW-4-1326 | 6 | | | | Same as above - color - 10 YR 4/4 Dark Yellowish Brown | |
| | | | DP | 13.20 | 24 | 0.1 | MW-4-751 | 8 | | | SM Silty Sand, 10 YR - 4/4 Dark Yellowish Brown 30% silt; 70% fine to medium sand; damp; NPO | |
| | | | DP | 8.12 | 15 | 0.0 | MW-4-1348 | 9 | | | SM Same as above | |
| | | <input checked="" type="checkbox"/> | M | 14.20 | 21 | 0.5 | MW-4-1300 | 10 | | | SM Same as above - Moist | |
| | | | W | 20.21 | 23 | 0.0 | MW-4-1315 | 12 | | | SM Silty Sand, 7.5 YR - 4/6 - Brown Brown 15% silt / fine sand; 75% medium sand wet; NPO | |
| | | | W | 21 | 22 | | | 14 | | | N/D RECOVERY | |
| | | | W | 8.13 | 20 | 0.0 | MW-4-1327 | 15 | | | SM Same as above (115-13') | |
| | | | W | 12.15 | 20 | 0.1 | MW-4-1349 | 17 | | | SP Poorly Graded Sand, 10 YR - 4/4 - Dark Yellowish Brown; 5% silt / sand; 75% medium sand; wet; NPO | |
| | | | | | | | 18 | | | | | |
| | | | | | | | 19 | | | | | |
| | | | | | | | 20 | | | | | |

4/20/05

→ BOTTOM OF BORING

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc.

WELL/BORING: MW-5

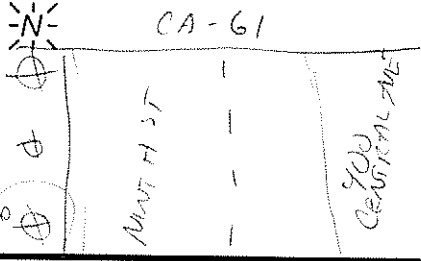
| | |
|---------------------------|--------------------------|
| DATE: 6-20-07 | DRILLING METHOD: HSA |
| PROJECT: KLE514 | SAMPLING METHOD: SS |
| CLIENT: Kelleher | BORING DIAMETER: 8" |
| LOCATION: 900 Central Ave | BORING DEPTH: 18' |
| CITY: Alameda | WELL CASING: 2" PVC |
| CO./STATE: Alameda / CA | WELL SCREEN: 18-8 10.020 |
| DRILLER: Expl. Ground | SAND PACK: 18-6 #3 |

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | GRAPHIC | USCS SYMBOL | WATER LEVEL | TIME | DATE | DESCRIPTION LOGGED BY: |
|------------------------|-------|------------|----------|--------------------|----------------------|---------------|--------------|----------|---------|-------------|-------------|------|---------|--|
| | | | | | | | | | | | 10.5 | 11.1 | 6-20-07 | Cate Townsend |
| | | | | | | | | | | | | | | 4" Concrete |
| | | | | | | | 1 | | | ML | | | | Slightly Silty; 10YR 3/4 Dark Yellowish Brown; 30% fine sand; 70% silt; roots; loose; dry; NPO |
| | | | | | | | 2 | | | | | | | |
| | | | | | | | 3 | | | SM | | | | Silty Sand; 10YR 5/4 Yellowish Brown; 15% silt / fine sand; 85% sand; dry; loose; NPO |
| | | | | | | | 4 | | | | | | | |
| | | | D 4.4 | 10 | 3.6 | MW-5-4.5 | 5 | | | SP | | | | Poorly Grained; 10YR 5/4 Yellowish Brown; 5% MPF; 10% fine sand; 85% med sand; loose; dry; NPO |
| | | | | | | | 6 | | | SP | | | | Poorly Grained Sand; Same color as above; 5% silt; 10% med; 85% sand; damp; no odor; some iron oxide staining; NPO |
| | | | | | | | 7 | | | | | | | |
| | | | DP 12.2 | 25 | 0 | MW-5-10.5 | 8 | | | SM | | | | Silty Sand; 10YR - 4/4 Dark Yellowish Brown; 30% silt / fine sand; 70% sand; damp; roots; loose; NPO |
| | | | | | | | 9 | | | SM | | | | Same as above; numerous roots |
| | | | | | | | 10 | | | | | | | |
| | | | | | | | 11 | | | M | | | | Same as above - 10YR - 4/3 Dark Brown; Wet; roots; NPO |
| | | | | | | | 12 | | | GP | | | | Poorly Grained Silty; 10YR - 4/4 Dark Yellowish Brown; 5% fine sand / silt; 95% medium sand; wet; NPO |
| | | | | | | | 13 | | | | | | | |
| | | | | | | | 14 | | | SP | | | | Same as above |
| | | | | | | | 15 | | | | | | | |
| | | | | | | | 16 | | | SP | | | | Same as above |
| | | | | | | | 17 | | | | | | | NO RECOVERY |
| | | | | | | | 18 | | | | | | | |
| | | | | | | | 19 | | | | | | | |
| | | | | | | | 20 | | | | | | | |

Bottom of Borehole

12'

WELL/BORING LOCATION MAP



Remediation Risk Management, Inc.

WELL/BORING: MW-6

DATE: 6-20-07

DRILLING METHOD: HSA

PROJECT: KLE574

SAMPLING METHOD: SS

CLIENT: Kelleher

BORING DIAMETER: 8" I

LOCATION: 900 Central Ave

BORING DEPTH: 18'

CITY: Alameda

WELL CASING: 2" PVC

CO./STATE: Alameda / CA

WELL SCREEN: 18-8', 0.020

DRILLER: Expl. Geov. U.

SAND PACK: 18-6' #3

| WELL/BORING COMPLETION | FIRST | STABILIZED | MOISTURE | DENSITY BLOWS / FT | FIELD TEST PID (ppm) | SAMPLE NUMBER | DEPTH (FEET) | RECOVERY | GRAPHIC | USCS SYMBOL | DESCRIPTION/LOGGED BY: |
|------------------------|-------|------------|----------|--------------------|----------------------|---------------|--------------|----------|---------|-------------|---|
| | | | | | | | 1 | | | | 4" concrete |
| | | | | | | | 2 | | | ML | Silt w/ sand; 15-20% very fine sand; 85-90% silt; dry; loose; roots; NPD |
| | | | | | | | 3 | | | | |
| | | | | | | | 4 | | | | |
| | | | | | | | 5 | | | SM | Silty Sand; 10 YR - 7/4 Dark Yellowish Brn; 20-20% silt; 70-80% very fine sand; loose; damp; roots; NPD |
| | | | | | | | 6 | | | | |
| | | | | | | | 7 | | | | |
| | | | | | | | 8 | | | | |
| | | | | | | | 9 | | | | |
| | | | | | | | 10 | | | SM | Silty Sand; 10 YR - 3/4 Dark Yellowish Brn; 20% silt; 80% fine to med sand; wet; NPD |
| | | | | | | | 11 | | | | |
| | | | | | | | 12 | | | | |
| | | | | | | | 13 | | | | |
| | | | | | | | 14 | | | | |
| | | | | | | | 15 | | | SM | Same as above |
| | | | | | | | 16 | | | | |
| | | | | | | | 17 | | | SM | Same as above |
| | | | | | | | 18 | | | | |
| | | | | | | | 19 | | | | |
| | | | | | | | 20 | | | | |

BOTTOM OF BOREHOLE 18'

DP 5710 0.0 MW-6 1570

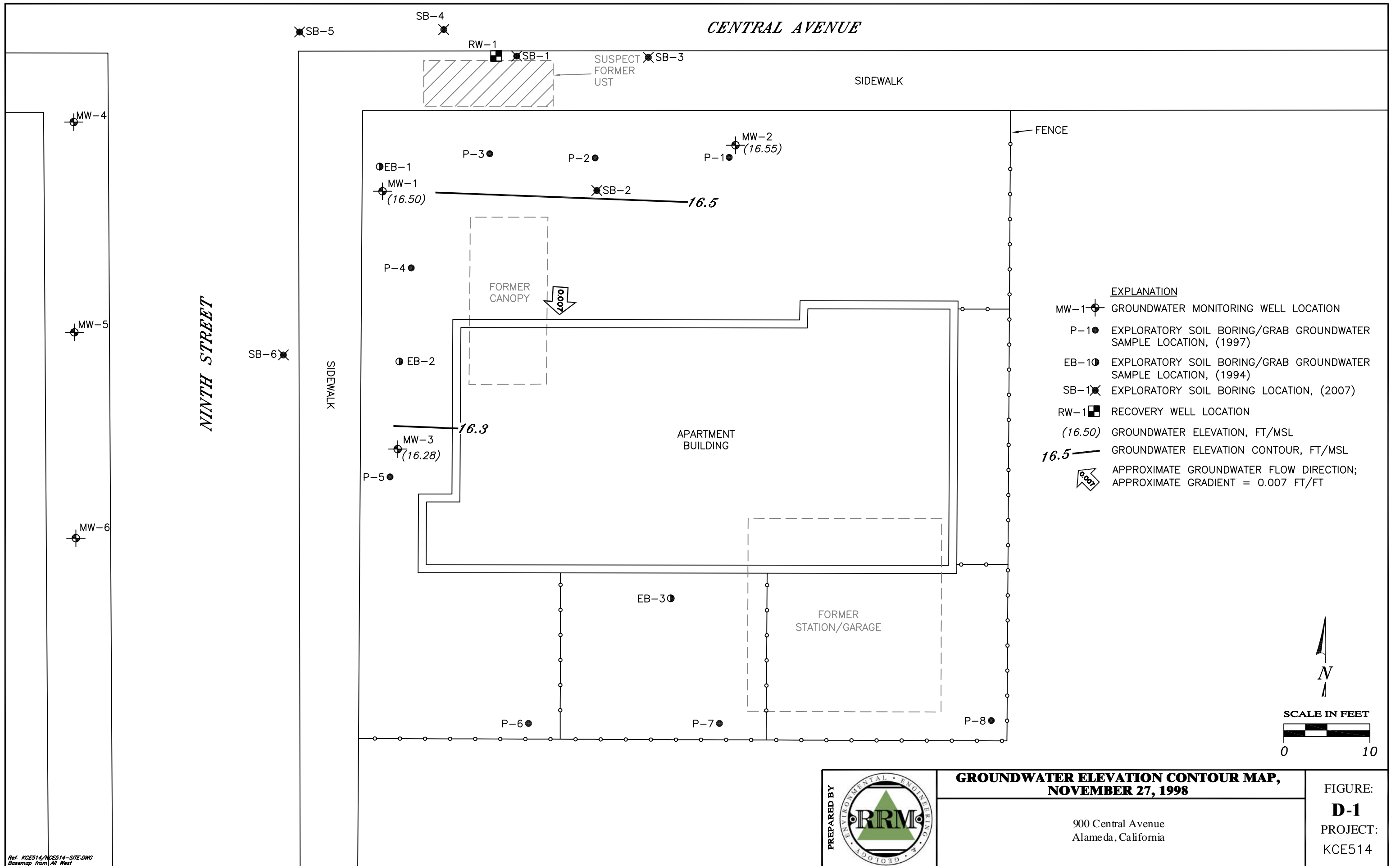
W 18,26,26 0.0 MW-6 1572

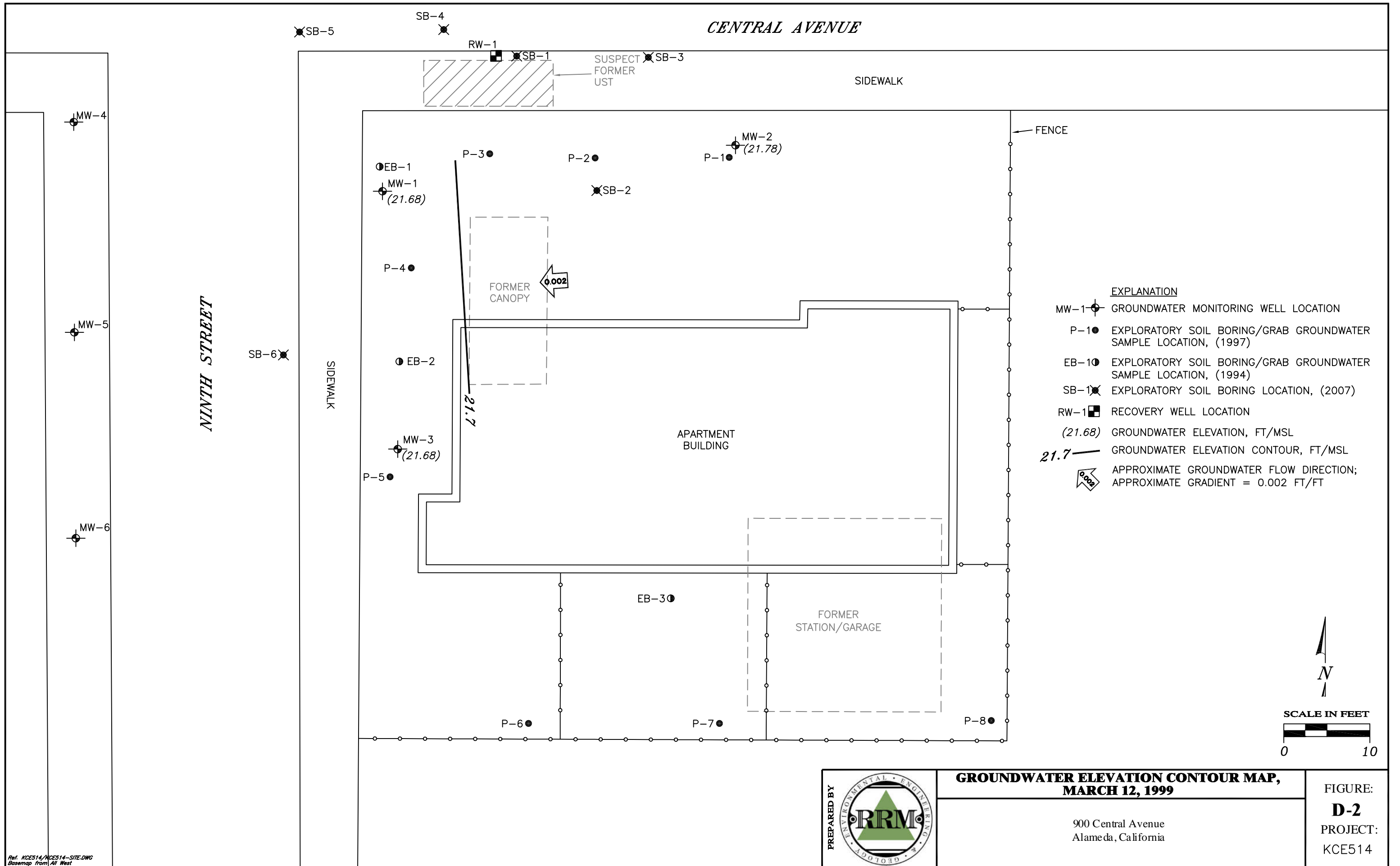
W 18,26,26 0.0 MW-6 1530

W 17,28,28 0.0 MW-6 1530

D

**HISTORICAL GROUNDWATER ELEVATION
CONTOUR MAPS**

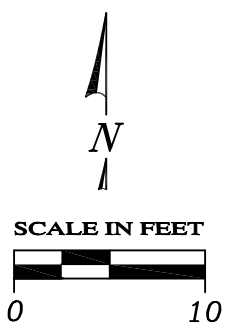





CENTRAL AVENUE

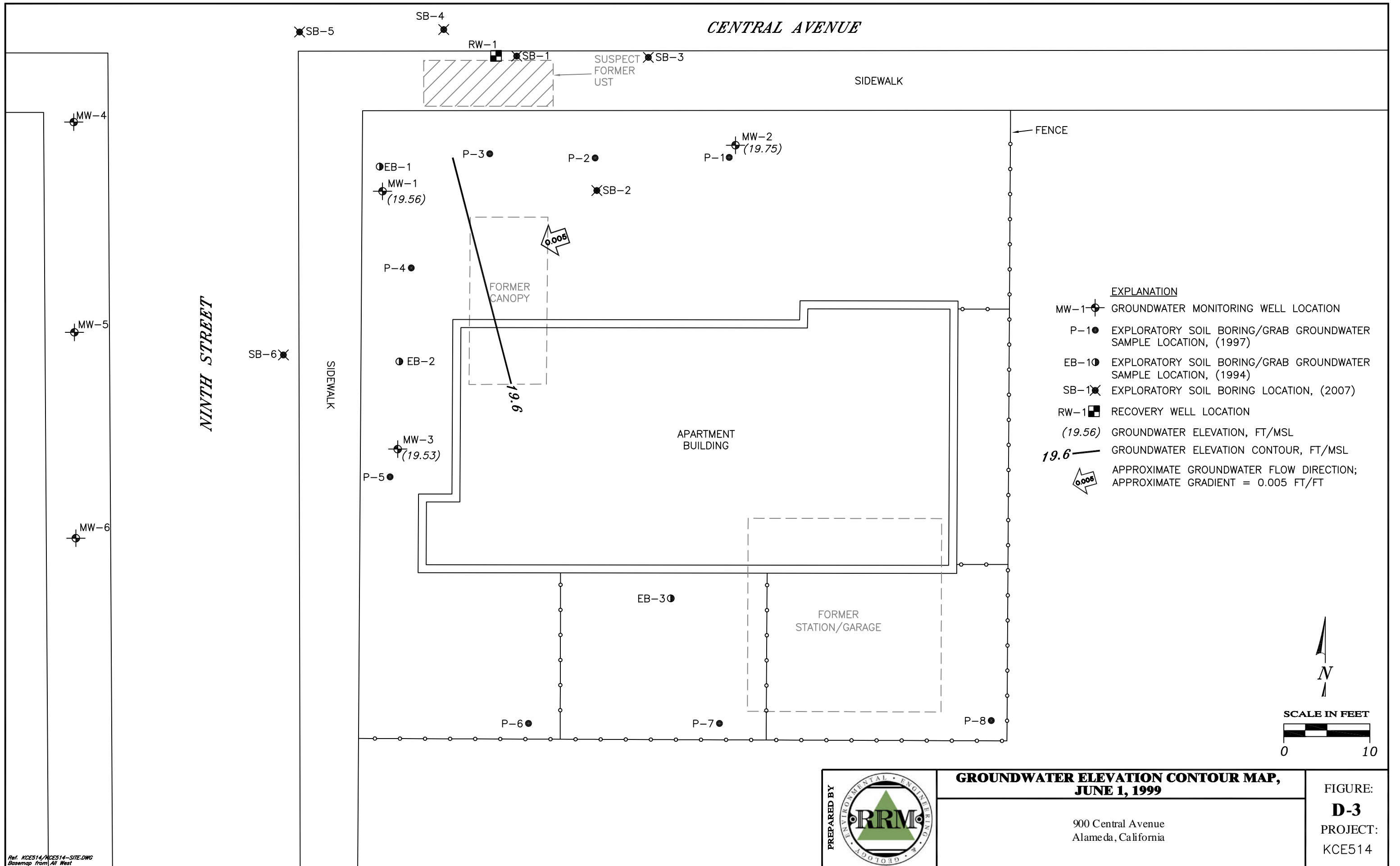
NINTH STREET

- EXPLANATION**
- MW-1-⊕ GROUNDWATER MONITORING WELL LOCATION
 - P-1● EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
 - EB-1● EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
 - SB-1⊗ EXPLORATORY SOIL BORING LOCATION, (2007)
 - RW-1⊞ RECOVERY WELL LOCATION
 - (21.68) GROUNDWATER ELEVATION, FT/MSL
 - 21.7— GROUNDWATER ELEVATION CONTOUR, FT/MSL
 - ↗0.002 APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.002 FT/FT



Ref. KCE514/KCE514-SITE.DWG
Base map from All West

| | | |
|--|--|---|
| PREPARED BY  | GROUNDWATER ELEVATION CONTOUR MAP, MARCH 12, 1999 | FIGURE: D-2 PROJECT: KCE514 |
| | 900 Central Avenue Alameda, California | |



CENTRAL AVENUE

NINTH STREET

SUSPECT FORMER UST

SIDEWALK

FENCE

SIDEWALK

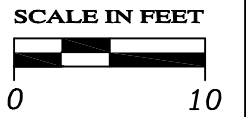
APARTMENT BUILDING

FORMER STATION/GARAGE

FORMER CANOPY

EXPLANATION

- MW-1 GROUNDWATER MONITORING WELL LOCATION
- P-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
- EB-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
- SB-1 EXPLORATORY SOIL BORING LOCATION, (2007)
- RW-1 RECOVERY WELL LOCATION
- (19.56) GROUNDWATER ELEVATION, FT/MSL
- 19.6 GROUNDWATER ELEVATION CONTOUR, FT/MSL
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.005 FT/FT



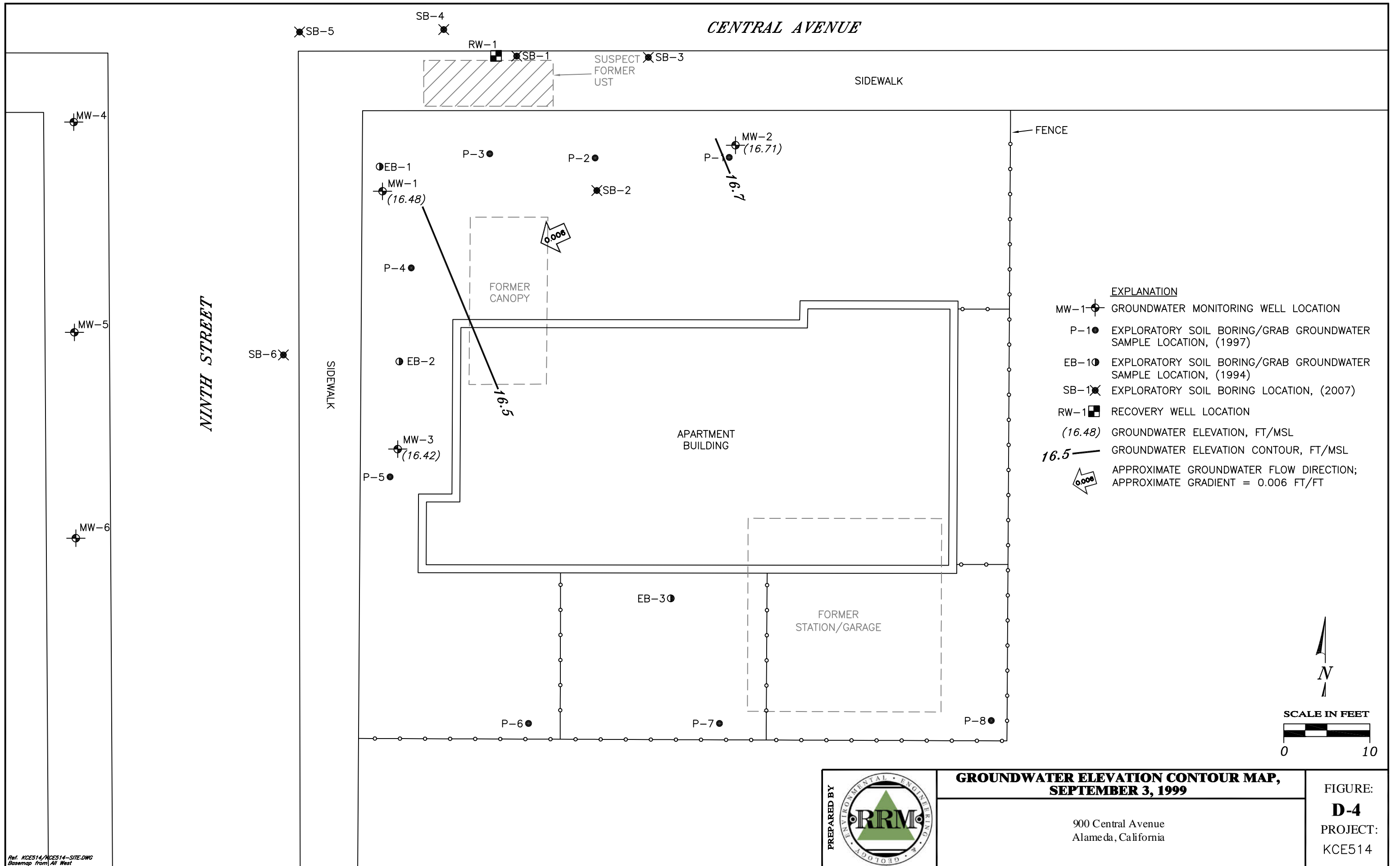
Ref. KCE514/KCE514-SITE.DWG
Base map from All West



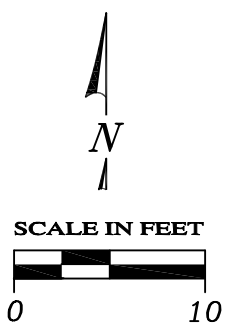
**GROUNDWATER ELEVATION CONTOUR MAP,
JUNE 1, 1999**

900 Central Avenue
Alameda, California

FIGURE:
D-3
PROJECT:
KCE514

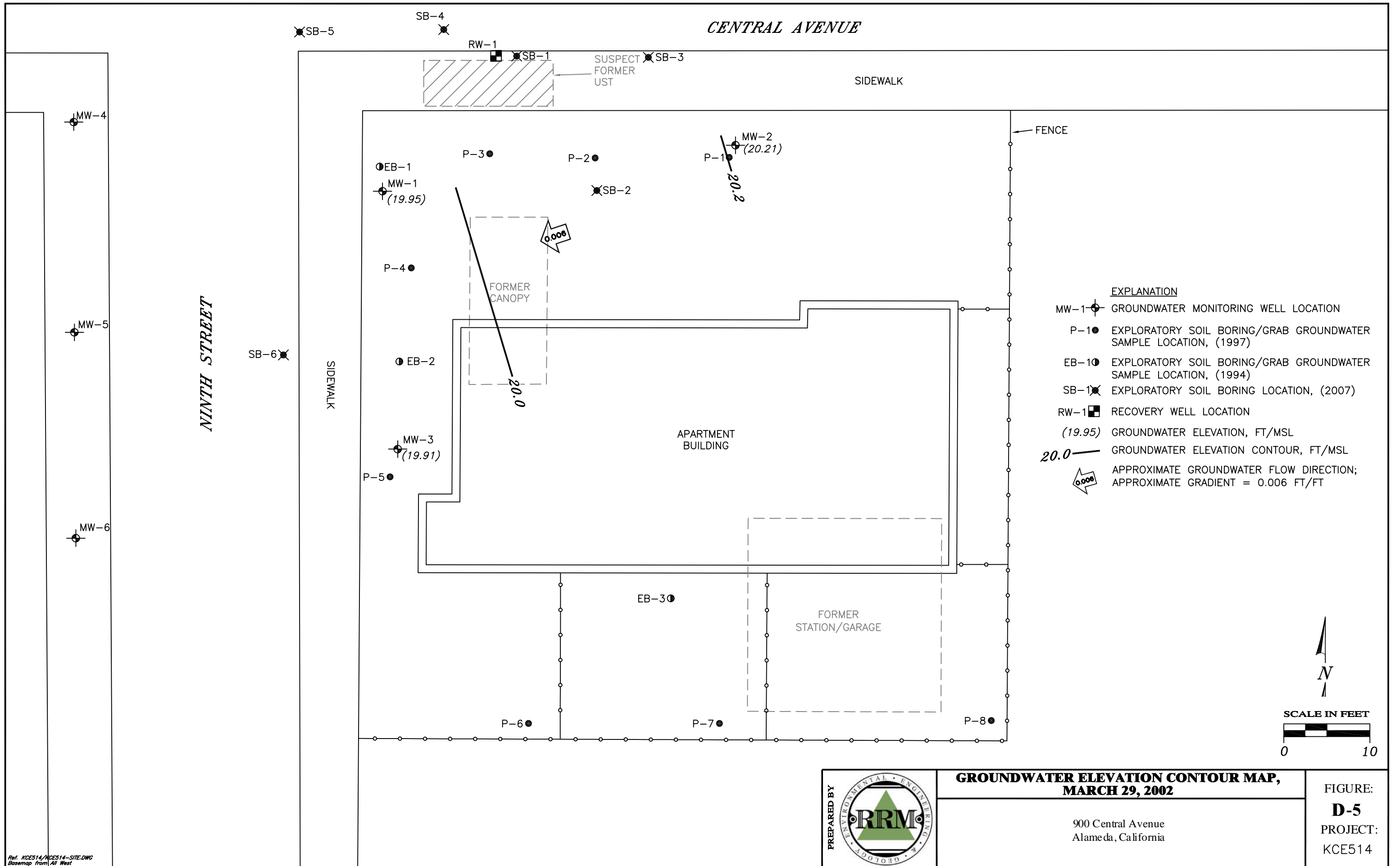


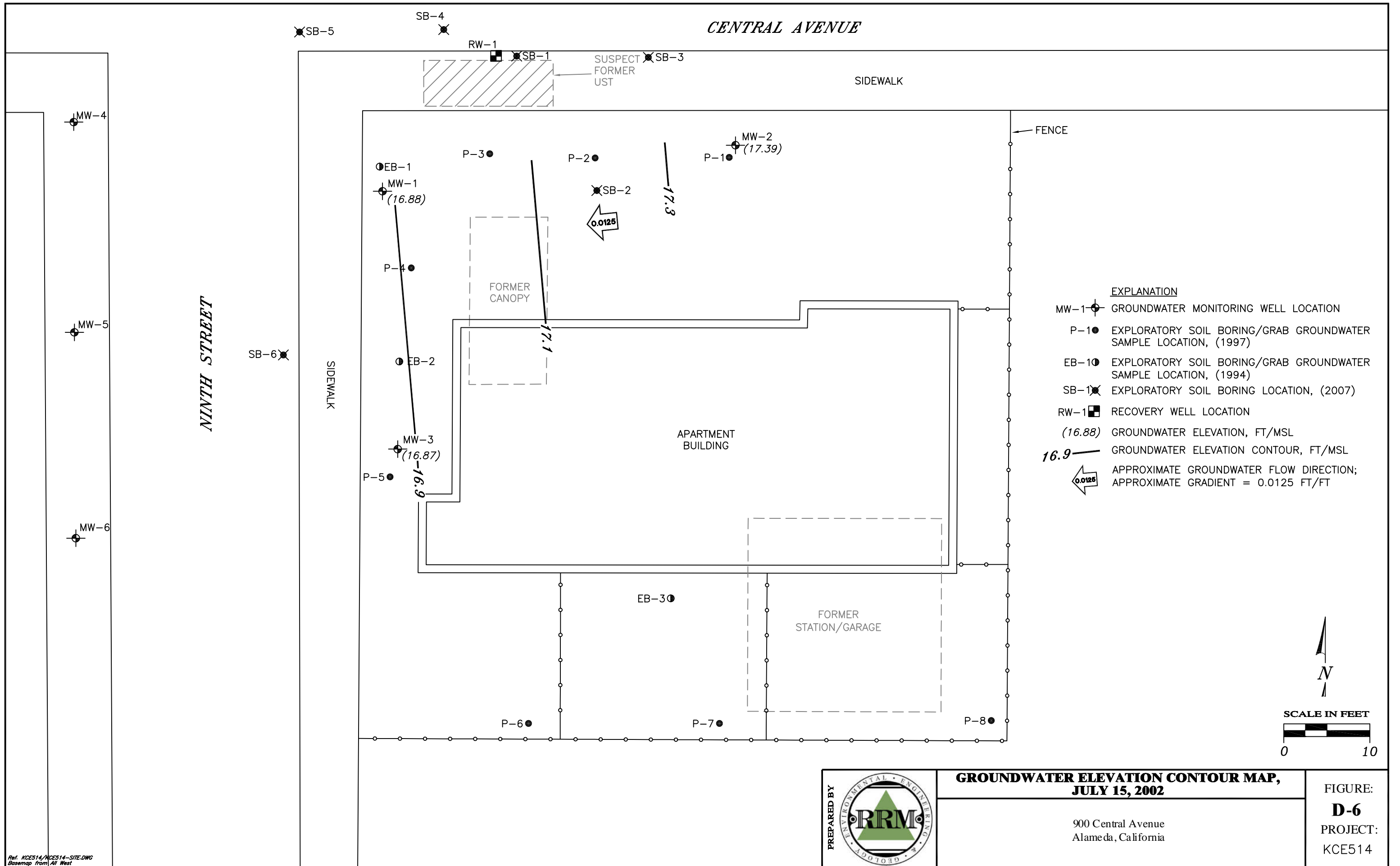
- EXPLANATION**
- MW-1 GROUNDWATER MONITORING WELL LOCATION
 - P-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
 - EB-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
 - SB-1 EXPLORATORY SOIL BORING LOCATION, (2007)
 - RW-1 RECOVERY WELL LOCATION
 - (16.48) GROUNDWATER ELEVATION, FT/MSL
 - 16.5 GROUNDWATER ELEVATION CONTOUR, FT/MSL
 - APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.006 FT/FT



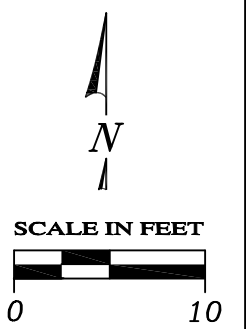
Ref. KCE514/KCE514-SITE.DWG
Base map from All West

| | | |
|-----------------|--|---|
| PREPARED BY | GROUNDWATER ELEVATION CONTOUR MAP, SEPTEMBER 3, 1999 | FIGURE: D-4 PROJECT: KCE514 |
| | 900 Central Avenue Alameda, California | |



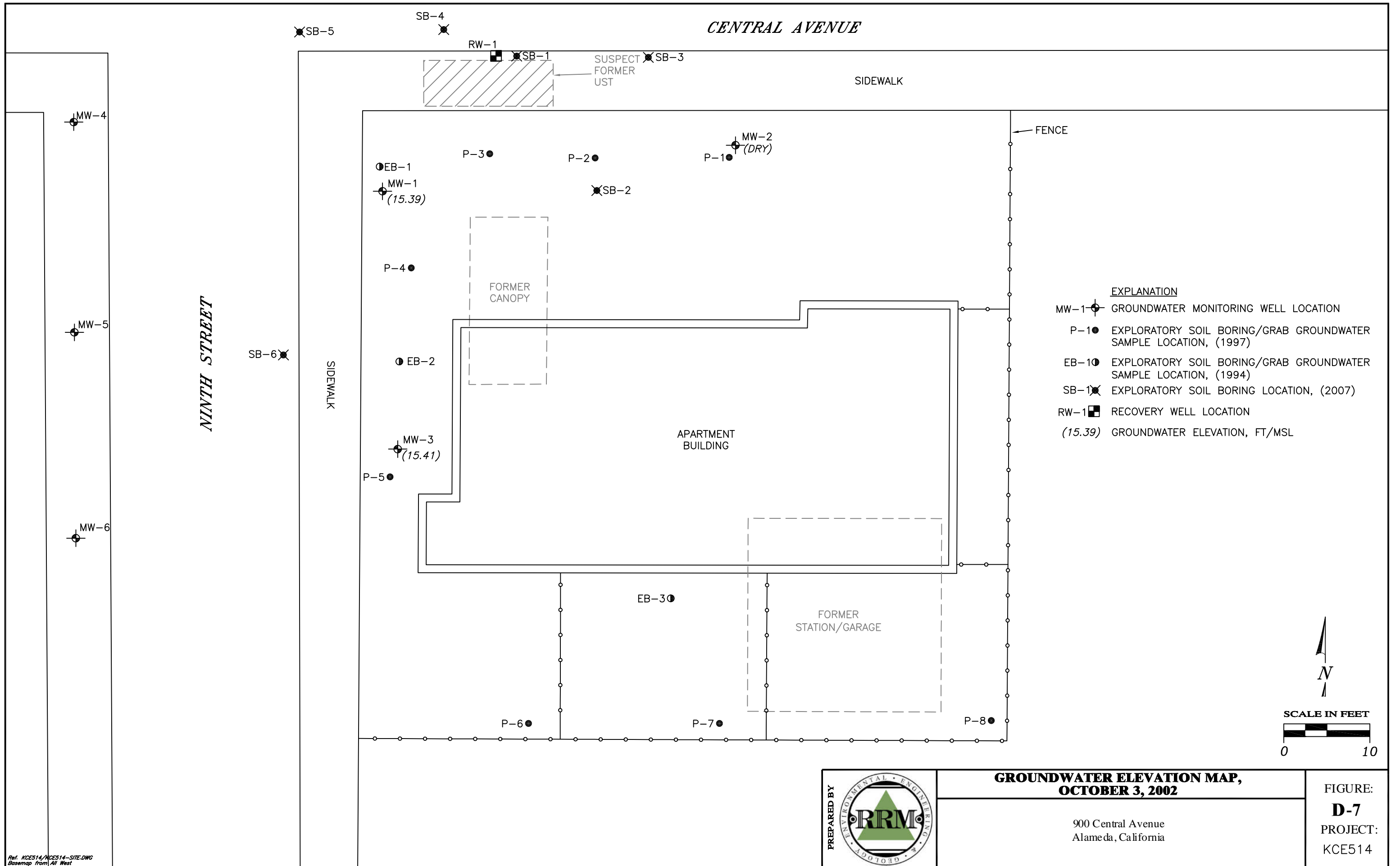


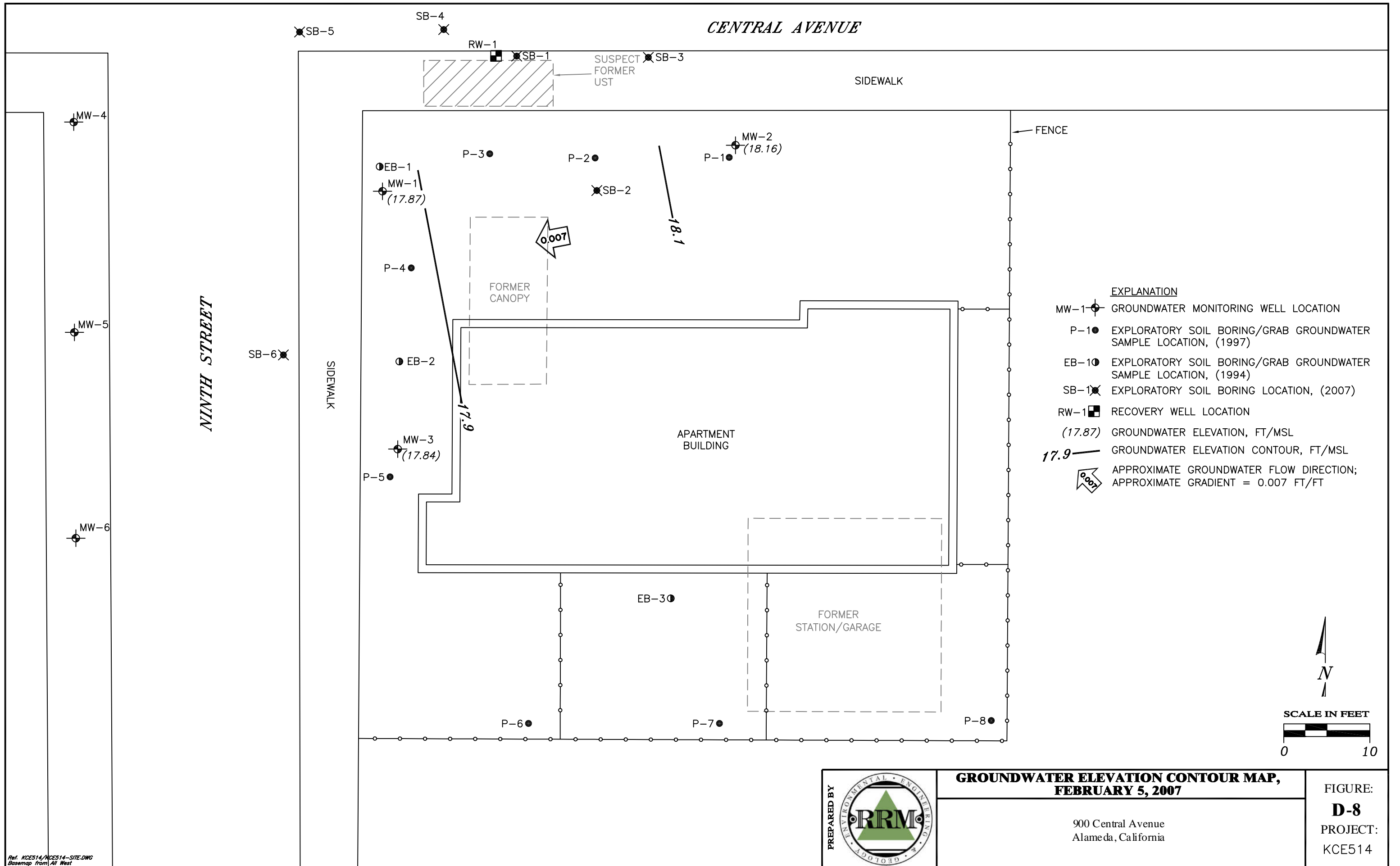
- EXPLANATION**
- MW-1 GROUNDWATER MONITORING WELL LOCATION
 - P-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
 - EB-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
 - SB-1 EXPLORATORY SOIL BORING LOCATION, (2007)
 - RW-1 RECOVERY WELL LOCATION
 - (16.88) GROUNDWATER ELEVATION, FT/MSL
 - 16.9 GROUNDWATER ELEVATION CONTOUR, FT/MSL
 - APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.0125 FT/FT



| | | |
|--|---|---|
| | GROUNDWATER ELEVATION CONTOUR MAP, JULY 15, 2002 | FIGURE: D-6 PROJECT: KCE514 |
| | 900 Central Avenue Alameda, California | |

Ref. KCE514/KCE514-SITE.DWG
Base map from All West





E

**CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Matt Kaempf

Remediation Risk Management-SC

2560 Soquel Ave., Suite 202

Santa Cruz, CA 95062

Lab Certificate Number: 56754

Issued: 10/26/2007

Global ID: T0600102089

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

Certificate of Analysis - Revision

Note: This revision includes all originally requested analyses and subsequent requests.

On August 15, 2007, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

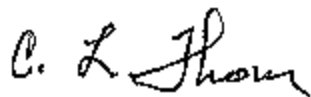
| <u>Matrix</u> | <u>Test / Comments</u> |
|---------------|--|
| Solid | VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B Hold TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS TPH-Extractable: EPA 3545A / EPA 8015B(M) VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B |

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).

Subcontracted work is the responsibility of the subcontract laboratory, this includes turn-around-time and data quality.

If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

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Fax: (408) 588-0201

Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-001 Sample ID: SB-1-7.5 Matrix: Solid Sample Date: 8/9/2007 8:50 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | 0.79 | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 126 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | 0.034 | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 102 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

Entech Analytical Labs, Inc.

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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-002 Sample ID: SB-1-12 Matrix: Solid Sample Date: 8/9/2007 9:00 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| TPH as Gasoline | 2600 | | 330 | 170 | mg/Kg | N/A | N/A | 8/22/2007 | SGCA070820A |

| Surrogate | Surrogate Recovery | Control Limits (%) | |
|-----------|--------------------|--------------------|--|
|-----------|--------------------|--------------------|--|

| | | | |
|----------------------|---------|----------|--|
| 4-Bromofluorobenzene | 358 *** | 65 - 135 | |
|----------------------|---------|----------|--|

*** Surrogate % recovery is out of QC limits due to sample matrix interference.

Analyzed by: JAbidog

Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| Benzene | ND | | 330 | 3.3 | mg/Kg | N/A | N/A | 8/22/2007 | SGCA070820A |
| Toluene | ND | | 330 | 3.3 | mg/Kg | N/A | N/A | 8/22/2007 | SGCA070820A |
| Ethyl Benzene | 31 | | 330 | 3.3 | mg/Kg | N/A | N/A | 8/22/2007 | SGCA070820A |
| Xylenes, Total | 200 | | 330 | 3.3 | mg/Kg | N/A | N/A | 8/22/2007 | SGCA070820A |

| Surrogate | Surrogate Recovery | Control Limits (%) | |
|-----------|--------------------|--------------------|--|
|-----------|--------------------|--------------------|--|

| | | | |
|----------------------|-----|----------|--|
| 4-Bromofluorobenzene | 108 | 65 - 135 | |
|----------------------|-----|----------|--|

Analyzed by: JAbidog

Reviewed by: EricKum

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2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-003 Sample ID: SB-1-16 Matrix: Solid Sample Date: 8/9/2007 9:24 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| TPH as Gasoline | 11 | | 10 | 5.0 | mg/Kg | N/A | N/A | 8/20/2007 | SGCA070820A |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 107 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| Benzene | ND | | 10 | 0.10 | mg/Kg | N/A | N/A | 8/20/2007 | SGCA070820A |
| Toluene | ND | | 10 | 0.10 | mg/Kg | N/A | N/A | 8/20/2007 | SGCA070820A |
| Ethyl Benzene | 0.31 | | 10 | 0.10 | mg/Kg | N/A | N/A | 8/20/2007 | SGCA070820A |
| Xylenes, Total | 1.7 | | 10 | 0.10 | mg/Kg | N/A | N/A | 8/20/2007 | SGCA070820A |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 109 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-004 Sample ID: SB-1-20 Matrix: Solid Sample Date: 8/9/2007 9:31 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 91.1 | 65 - 135 |

Analyzed by: Javidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 99.7 | 65 - 135 |

Analyzed by: Javidog
Reviewed by: EricKum

Entech Analytical Labs, Inc.

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2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-005 Sample ID: SB-1-24 Matrix: Solid Sample Date: 8/9/2007 9:40 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 92.1 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 95.6 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

Entech Analytical Labs, Inc.

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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-006 Sample ID: SB-2-8 Matrix: Solid Sample Date: 8/9/2007 11:13 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 91.2 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 93.5 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

Entech Analytical Labs, Inc.

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Phone: (408) 588-0200

Fax: (408) 588-0201

Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-007 Sample ID: SB-2-11.5 Matrix: Solid Sample Date: 8/9/2007 11:30 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/22/2007 | SGC070822 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JAbidog | |
| 4-Bromofluorobenzene | 93.5 | | 65 | - 135 | | | | Reviewed by: EricKum | |

TPH-Extractable: EPA 3545A / EPA 8015B(M)

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| TPH as Diesel | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Motor Oil | ND | | 1.0 | 10 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Mineral Spirits (Stoddard) | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Kerosene | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JHsiang | |
| n-Hexacosane | 73.8 | | 50 | - 150 | | | | Reviewed by: mtran | |

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/22/2007 | SGC070822 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/22/2007 | SGC070822 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/22/2007 | SGC070822 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/22/2007 | SGC070822 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JAbidog | |
| 4-Bromofluorobenzene | 97.9 | | 65 | - 135 | | | | Reviewed by: EricKum | |

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Remediation Risk Management-SC
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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-008 Sample ID: SB-2-16 Matrix: Solid Sample Date: 8/9/2007 11:40 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 90.3 | 65 - 135 |

Analyzed by: Javidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 103 | 65 - 135 |

Analyzed by: Javidog
Reviewed by: EricKum

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Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-009 Sample ID: SB-2-20 Matrix: Solid Sample Date: 8/9/2007 11:50 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 87.1 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 95.6 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

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Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-010 Sample ID: SB-2-24 Matrix: Solid Sample Date: 8/9/2007 12:05 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 88.6 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 91.6 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

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Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-012 Sample ID: SB-3-8 Matrix: Solid Sample Date: 8/9/2007 1:10 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 85.0 | 65 - 135 |

Analyzed by: JAbidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 92.7 | 65 - 135 |

Analyzed by: JAbidog
Reviewed by: EricKum

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GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-013 Sample ID: SB-3-12 Matrix: Solid Sample Date: 8/9/2007 1:15 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 83.4 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 89.4 | 65 - 135 |

Analyzed by: JABidog
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Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-014 Sample ID: SB-3-16 Matrix: Solid Sample Date: 8/9/2007 1:30 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 85.4 | 65 - 135 |

Analyzed by: JAbidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/17/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 92.9 | 65 - 135 |

Analyzed by: JAbidog
Reviewed by: EricKum

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Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab # : 56754-016 Sample ID: SB-4-8 Matrix: Solid Sample Date: 8/9/2007 2:00 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| 1,1,1,2-Tetrachloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1,1-Trichloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1,2-Trichloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1-Dichloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1-Dichloroethene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1-Dichloropropene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,3-Trichlorobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,3-Trichloropropane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,4-Trichlorobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,4-Trimethylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dibromoethane (EDB) | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dichlorobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dichloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dichloropropane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,3,5-Trimethylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,3-Dichlorobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,3-Dichloropropane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,4-Dichlorobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,4-Dioxane | ND | | 10 | 2000 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2,2-Dichloropropane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Butanone (MEK) | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Chloroethyl-vinyl Ether | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Chlorotoluene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Hexanone | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 4-Chlorotoluene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 4-Methyl-2-Pentanone(MIBK) | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acetone | ND | | 10 | 1000 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acetonitrile | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acrolein | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acrylonitrile | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Benzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Benzyl Chloride | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromochloromethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromodichloromethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromoform | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromomethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Carbon Disulfide | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Carbon Tetrachloride | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chlorobenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chloroform | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chloromethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

10/26/2007 1:56:32 PM - dba

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Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Lab # : 56754-016 Sample ID: SB-4-8 Matrix: Solid Sample Date: 8/9/2007 2:00 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| cis-1,2-Dichloroethene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| cis-1,3-Dichloropropene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Cyclohexanone | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Dibromochloromethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Dibromomethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Dichlorodifluoromethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Diisopropyl Ether | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Ethyl Benzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Freon 113 | ND | | 10 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Hexachlorobutadiene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Iodomethane | ND | | 10 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Isopropanol | ND | | 10 | 1000 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Isopropylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Methyl-t-butyl Ether | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Methylene Chloride | ND | | 10 | 500 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| n-Butylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| n-Propylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Naphthalene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| p-Isopropyltoluene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Pentachloroethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| sec-Butylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Styrene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Amyl Methyl Ether | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Butanol (TBA) | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Butyl Ethyl Ether | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Butylbenzene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Tetrachloroethene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Tetrahydrofuran | ND | | 10 | 400 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Toluene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| trans-1,2-Dichloroethene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| trans-1,3-Dichloropropene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| trans-1,4-Dichloro-2-butene | ND | | 10 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Trichloroethene | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Trichlorofluoromethane | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Vinyl Acetate | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Vinyl Chloride | ND | | 10 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Xylenes, Total | ND | | 10 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |

The reporting limits are raised due to presence of hydrocarbons in the sample.

| Surrogate | Surrogate Recovery | Control Limits (%) | Analyzed by: MaiChiTu |
|----------------------|--------------------|--------------------|-----------------------|
| 4-Bromofluorobenzene | 97.5 | 60 - 130 | Reviewed by: TFulton |
| Dibromofluoromethane | 102 | 60 - 130 | |
| Toluene-d8 | 101 | 60 - 130 | |

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

10/26/2007 1:56:32 PM - dba

Entech Analytical Labs, Inc.

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Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-016 Sample ID: SB-4-8 Matrix: Solid Sample Date: 8/9/2007 2:00 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JAbidog | |
| 4-Bromofluorobenzene | 107 | | 65 | - 135 | | | | Reviewed by: EricKum | |

TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|-----------------------|-------------|
| TPH as Gasoline | 5100 | | 10 | 1000 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: MaiChiTu | |
| 4-Bromofluorobenzene | 101 | | 60 | - 130 | | | | Reviewed by: TFulton | |
| Dibromofluoromethane | 99.0 | | 60 | - 130 | | | | | |
| Toluene-d8 | 108 | | 60 | - 130 | | | | | |

TPH-Extractable: EPA 3545A / EPA 8015B(M)

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| TPH as Diesel | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Motor Oil | ND | | 1.0 | 10 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Mineral Spirits (Stoddard) | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Kerosene | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JHsiang | |
| n-Hexacosane | 73.1 | | 50 | - 150 | | | | Reviewed by: mtran | |

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JAbidog | |
| 4-Bromofluorobenzene | 100 | | 65 | - 135 | | | | Reviewed by: EricKum | |

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Remediation Risk Management-SC
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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-018 Sample ID: SB-5-8 Matrix: Solid Sample Date: 8/9/2007 3:10 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 86.8 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 93.2 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab # : 56754-019 Sample ID: SB-5-10.5 Matrix: Solid Sample Date: 8/9/2007 3:20 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1,1-Trichloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1,2-Trichloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1-Dichloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1-Dichloroethene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,1-Dichloropropene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,3-Trichloropropane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dichlorobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dichloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,2-Dichloropropane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,3-Dichlorobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,3-Dichloropropane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,4-Dichlorobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 1,4-Dioxane | ND | | 1.0 | 200 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2,2-Dichloropropane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Butanone (MEK) | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Chloroethyl-vinyl Ether | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Chlorotoluene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 2-Hexanone | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 4-Chlorotoluene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| 4-Methyl-2-Pentanone(MIBK) | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acetone | ND | | 1.0 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acetonitrile | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acrolein | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Acrylonitrile | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Benzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Benzyl Chloride | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromochloromethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromodichloromethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromoform | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Bromomethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Carbon Disulfide | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Carbon Tetrachloride | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chlorobenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chloroform | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Chloromethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

10/26/2007 1:56:33 PM - dba

Entech Analytical Labs, Inc.

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Remediation Risk Management-SC
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Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Lab # : 56754-019 Sample ID: SB-5-10.5 Matrix: Solid Sample Date: 8/9/2007 3:20 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-------------|
| cis-1,2-Dichloroethene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| cis-1,3-Dichloropropene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Cyclohexanone | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Dibromochloromethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Dibromomethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Dichlorodifluoromethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Diisopropyl Ether | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Ethyl Benzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Freon 113 | ND | | 1.0 | 10 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Hexachlorobutadiene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Iodomethane | ND | | 1.0 | 10 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Isopropanol | ND | | 1.0 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Isopropylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Methyl-t-butyl Ether | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Methylene Chloride | ND | | 1.0 | 50 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| n-Butylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| n-Propylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Naphthalene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| p-Isopropyltoluene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Pentachloroethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| sec-Butylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Styrene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Amyl Methyl Ether | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Butanol (TBA) | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Butyl Ethyl Ether | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| tert-Butylbenzene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Tetrachloroethene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Tetrahydrofuran | ND | | 1.0 | 40 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Toluene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| trans-1,2-Dichloroethene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| trans-1,3-Dichloropropene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| trans-1,4-Dichloro-2-butene | ND | | 1.0 | 10 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Trichloroethene | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Trichlorofluoromethane | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Vinyl Acetate | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Vinyl Chloride | ND | | 1.0 | 5.0 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Xylenes, Total | ND | | 1.0 | 10 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 95.3 | 60 - 130 |
| Dibromofluoromethane | 104 | 60 - 130 |
| Toluene-d8 | 98.8 | 60 - 130 |

Analyzed by: MaiChiTu

Reviewed by: TFulton

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Remediation Risk Management-SC
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Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-019 Sample ID: SB-5-10.5 Matrix: Solid Sample Date: 8/9/2007 3:20 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JAbidog | |
| 4-Bromofluorobenzene | 88.1 | | 65 | - 135 | | | | Reviewed by: EricKum | |

TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|-----------------------|-------------|
| TPH as Gasoline | ND | | 1.0 | 100 | µg/Kg | N/A | N/A | 9/5/2007 | SM3E070905E |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: MaiChiTu | |
| 4-Bromofluorobenzene | 98.8 | | 60 | - 130 | | | | Reviewed by: TFulton | |
| Dibromofluoromethane | 100 | | 60 | - 130 | | | | | |
| Toluene-d8 | 106 | | 60 | - 130 | | | | | |

TPH-Extractable: EPA 3545A / EPA 8015B(M)

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| TPH as Diesel | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Motor Oil | ND | | 1.0 | 10 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Mineral Spirits (Stoddard) | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| TPH as Kerosene | ND | | 1.0 | 5.0 | mg/Kg | 8/30/2007 | SD070830A | 8/31/2007 | SD070830A |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JHsiang | |
| n-Hexacosane | 77.3 | | 50 | - 150 | | | | Reviewed by: mtran | |

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|----------------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: JAbidog | |
| 4-Bromofluorobenzene | 96.6 | | 65 | - 135 | | | | Reviewed by: EricKum | |

Entech Analytical Labs, Inc.

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Phone: (408) 588-0200

Fax: (408) 588-0201

Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Lab #: 56754-021 Sample ID: SB-6-8 Matrix: Solid Sample Date: 8/9/2007 3:48 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 87.7 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 98.6 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

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Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-022 Sample ID: SB-6-12 Matrix: Solid Sample Date: 8/9/2007 4:00 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 85.7 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 93.4 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

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Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Kaempf

Project Name: KCE514
Project Location: 900 Central Ave. Alameda, CA
GlobalID: T0600102089

Certificate of Analysis - Data Report

Samples Received: 08/15/2007
Sample Collected by: Client

Lab #: 56754-023 Sample ID: SB-6-16 Matrix: Solid Sample Date: 8/9/2007 4:10 PM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 0.50 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 86.3 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------|--------|------|-------|-----------------|-------|-----------|------------|---------------|-----------|
| Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Toluene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Ethyl Benzene | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |
| Xylenes, Total | ND | | 1.0 | 0.010 | mg/Kg | N/A | N/A | 8/18/2007 | SGC070817 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|----------------------|--------------------|--------------------|
| 4-Bromofluorobenzene | 92.2 | 65 - 135 |

Analyzed by: JABidog
Reviewed by: EricKum

Entech Analytical Labs, Inc.

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Method Blank - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC/Prep Batch ID: SD070830A

Validated by: mtran - 08/30/07

QC/Prep Date: 8/30/2007

| Parameter | Result | DF | PQLR | Units |
|-----------------------------------|-------------------|-----------------------|------|-------|
| TPH as Diesel | ND | 1 | 5.0 | mg/Kg |
| TPH as Kerosene | ND | 1 | 5.0 | mg/Kg |
| TPH as Mineral Spirits (Stoddard) | ND | 1 | 5.0 | mg/Kg |
| TPH as Motor Oil | ND | 1 | 10 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| n-Hexacosane | 82.4 | 50 - 150 | | |

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070817

Validated by: EricKum - 08/21/07

QC Batch Analysis Date: 8/20/2007

| Parameter | Result | DF | PQLR | Units |
|----------------------------|-------------------|-----------------------|------|-------|
| TPH as Gasoline | ND | 1 | 0.50 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| 4-Bromofluorobenzene | 89.6 | 65 - 135 | | |

Method Blank - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070817

Validated by: EricKum - 08/21/07

QC Batch Analysis Date: 8/20/2007

| Parameter | Result | DF | PQLR | Units |
|----------------------------|-------------------|-----------------------|-------|-------|
| Benzene | ND | 1 | 0.010 | mg/Kg |
| Ethyl Benzene | ND | 1 | 0.010 | mg/Kg |
| Toluene | ND | 1 | 0.010 | mg/Kg |
| Xylenes, Total | ND | 1 | 0.010 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| 4-Bromofluorobenzene | 101 | 65 - 135 | | |

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070822

Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/22/2007

| Parameter | Result | DF | PQLR | Units |
|----------------------------|-------------------|-----------------------|------|-------|
| TPH as Gasoline | ND | 1 | 0.50 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| 4-Bromofluorobenzene | 92.9 | 65 - 135 | | |

Method Blank - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070822

Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/22/2007

| Parameter | Result | DF | PQLR | Units |
|----------------------------|-------------------|-----------------------|-------|-------|
| Benzene | ND | 1 | 0.010 | mg/Kg |
| Ethyl Benzene | ND | 1 | 0.010 | mg/Kg |
| Toluene | ND | 1 | 0.010 | mg/Kg |
| Xylenes, Total | ND | 1 | 0.010 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| 4-Bromofluorobenzene | 99.8 | 65 - 135 | | |

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGCA070820A

Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/20/2007

| Parameter | Result | DF | PQLR | Units |
|----------------------------|-------------------|-----------------------|------|-------|
| TPH as Gasoline | ND | 10 | 5.0 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| 4-Bromofluorobenzene | 97.5 | 65 - 135 | | |

Method Blank - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGCA070820A

Validated by: EricKum - 08/22/07

QC Batch Analysis Date: 8/20/2007

| Parameter | Result | DF | PQLR | Units |
|----------------------------|-------------------|-----------------------|------|-------|
| Benzene | ND | 10 | 0.10 | mg/Kg |
| Ethyl Benzene | ND | 10 | 0.10 | mg/Kg |
| Toluene | ND | 10 | 0.10 | mg/Kg |
| Xylenes, Total | ND | 10 | 0.10 | mg/Kg |
| Surrogate for Blank | % Recovery | Control Limits | | |
| 4-Bromofluorobenzene | 105 | 65 - 135 | | |

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Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E070905E

Validated by: TFulton - 09/05/07

QC Batch Analysis Date: 9/5/2007

| Parameter | Result | DF | PQLR | Units |
|-----------------------------|--------|----|------|-------|
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5.0 | µg/Kg |
| 1,1,1-Trichloroethane | ND | 1 | 5.0 | µg/Kg |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5.0 | µg/Kg |
| 1,1,2-Trichloroethane | ND | 1 | 5.0 | µg/Kg |
| 1,1-Dichloroethane | ND | 1 | 5.0 | µg/Kg |
| 1,1-Dichloroethene | ND | 1 | 5.0 | µg/Kg |
| 1,1-Dichloropropene | ND | 1 | 5.0 | µg/Kg |
| 1,2,3-Trichlorobenzene | ND | 1 | 5.0 | µg/Kg |
| 1,2,3-Trichloropropane | ND | 1 | 5.0 | µg/Kg |
| 1,2,4-Trichlorobenzene | ND | 1 | 5.0 | µg/Kg |
| 1,2,4-Trimethylbenzene | ND | 1 | 5.0 | µg/Kg |
| 1,2-Dibromo-3-Chloropropane | ND | 1 | 5.0 | µg/Kg |
| 1,2-Dibromoethane (EDB) | ND | 1 | 5.0 | µg/Kg |
| 1,2-Dichlorobenzene | ND | 1 | 5.0 | µg/Kg |
| 1,2-Dichloroethane | ND | 1 | 5.0 | µg/Kg |
| 1,2-Dichloropropane | ND | 1 | 5.0 | µg/Kg |
| 1,3,5-Trimethylbenzene | ND | 1 | 5.0 | µg/Kg |
| 1,3-Dichlorobenzene | ND | 1 | 5.0 | µg/Kg |
| 1,3-Dichloropropane | ND | 1 | 5.0 | µg/Kg |
| 1,4-Dichlorobenzene | ND | 1 | 5.0 | µg/Kg |
| 1,4-Dioxane | ND | 1 | 200 | µg/Kg |
| 2,2-Dichloropropane | ND | 1 | 5.0 | µg/Kg |
| 2-Butanone (MEK) | ND | 1 | 40 | µg/Kg |
| 2-Chloroethyl-vinyl Ether | ND | 1 | 5.0 | µg/Kg |
| 2-Chlorotoluene | ND | 1 | 5.0 | µg/Kg |
| 2-Hexanone | ND | 1 | 40 | µg/Kg |
| 4-Chlorotoluene | ND | 1 | 5.0 | µg/Kg |
| 4-Methyl-2-Pentanone(MIBK) | ND | 1 | 40 | µg/Kg |
| Acetone | ND | 1 | 100 | µg/Kg |
| Acetonitrile | ND | 1 | 40 | µg/Kg |
| Acrolein | ND | 1 | 5.0 | µg/Kg |
| Acrylonitrile | ND | 1 | 5.0 | µg/Kg |
| Benzene | ND | 1 | 5.0 | µg/Kg |
| Benzyl Chloride | ND | 1 | 5.0 | µg/Kg |
| Bromobenzene | ND | 1 | 5.0 | µg/Kg |
| Bromochloromethane | ND | 1 | 5.0 | µg/Kg |
| Bromodichloromethane | ND | 1 | 5.0 | µg/Kg |
| Bromoform | ND | 1 | 5.0 | µg/Kg |
| Bromomethane | ND | 1 | 5.0 | µg/Kg |
| Carbon Disulfide | ND | 1 | 5.0 | µg/Kg |
| Carbon Tetrachloride | ND | 1 | 5.0 | µg/Kg |
| Chlorobenzene | ND | 1 | 5.0 | µg/Kg |
| Chloroethane | ND | 1 | 5.0 | µg/Kg |
| Chloroform | ND | 1 | 5.0 | µg/Kg |
| Chloromethane | ND | 1 | 5.0 | µg/Kg |
| cis-1,2-Dichloroethene | ND | 1 | 5.0 | µg/Kg |
| cis-1,3-Dichloropropene | ND | 1 | 5.0 | µg/Kg |
| Cyclohexanone | ND | 1 | 40 | µg/Kg |
| Dibromochloromethane | ND | 1 | 5.0 | µg/Kg |
| Dibromomethane | ND | 1 | 5.0 | µg/Kg |
| Dichlorodifluoromethane | ND | 1 | 5.0 | µg/Kg |

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Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E070905E

Validated by: TFulton - 09/05/07

QC Batch Analysis Date: 9/5/2007

| Parameter | Result | DF | PQLR | Units |
|-----------------------------|--------|----|------|-------|
| Diisopropyl Ether | ND | 1 | 5.0 | µg/Kg |
| Ethyl Benzene | ND | 1 | 5.0 | µg/Kg |
| Freon 113 | ND | 1 | 10 | µg/Kg |
| Hexachlorobutadiene | ND | 1 | 5.0 | µg/Kg |
| Iodomethane | ND | 1 | 10 | µg/Kg |
| Isopropanol | ND | 1 | 100 | µg/Kg |
| Isopropylbenzene | ND | 1 | 5.0 | µg/Kg |
| Methylene Chloride | ND | 1 | 50 | µg/Kg |
| Methyl-t-butyl Ether | ND | 1 | 5.0 | µg/Kg |
| Naphthalene | ND | 1 | 5.0 | µg/Kg |
| n-Butylbenzene | ND | 1 | 5.0 | µg/Kg |
| n-Propylbenzene | ND | 1 | 5.0 | µg/Kg |
| Pentachloroethane | ND | 1 | 5.0 | µg/Kg |
| p-Isopropyltoluene | ND | 1 | 5.0 | µg/Kg |
| sec-Butylbenzene | ND | 1 | 5.0 | µg/Kg |
| Styrene | ND | 1 | 5.0 | µg/Kg |
| tert-Amyl Methyl Ether | ND | 1 | 5.0 | µg/Kg |
| tert-Butanol (TBA) | ND | 1 | 40 | µg/Kg |
| tert-Butyl Ethyl Ether | ND | 1 | 5.0 | µg/Kg |
| tert-Butylbenzene | ND | 1 | 5.0 | µg/Kg |
| Tetrachloroethene | ND | 1 | 5.0 | µg/Kg |
| Tetrahydrofuran | ND | 1 | 40 | µg/Kg |
| Toluene | ND | 1 | 5.0 | µg/Kg |
| trans-1,2-Dichloroethene | ND | 1 | 5.0 | µg/Kg |
| trans-1,3-Dichloropropene | ND | 1 | 5.0 | µg/Kg |
| trans-1,4-Dichloro-2-butene | ND | 1 | 10 | µg/Kg |
| Trichloroethene | ND | 1 | 5.0 | µg/Kg |
| Trichlorofluoromethane | ND | 1 | 5.0 | µg/Kg |
| Vinyl Acetate | ND | 1 | 5.0 | µg/Kg |
| Vinyl Chloride | ND | 1 | 5.0 | µg/Kg |
| Xylenes, Total | ND | 1 | 10 | µg/Kg |

| Surrogate for Blank | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 95.2 | 60 - 130 |
| Dibromofluoromethane | 102 | 60 - 130 |
| Toluene-d8 | 98.8 | 60 - 130 |

Method Blank - Solid - TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS

QC Batch ID: SM3E070905E

Validated by: TFulton - 09/05/07

QC Batch Analysis Date: 9/5/2007

| Parameter | Result | DF | PQLR | Units |
|-----------------|--------|----|------|-------|
| TPH as Gasoline | ND | 1 | 100 | µg/Kg |

| Surrogate for Blank | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 98.6 | 60 - 130 |
| Dibromofluoromethane | 98.4 | 60 - 130 |
| Toluene-d8 | 105 | 60 - 130 |

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LCS / LCSD - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC Batch ID: SD070830A

Reviewed by: mtran - 08/30/07

QC/Prep Date: 8/30/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|------------------|--------------|-----------|-------------|-------|------------|-----------------|
| TPH as Diesel | <5.0 | 100 | 92.0 | mg/Kg | 92.0 | 45 - 140 |
| TPH as Motor Oil | <20 | 100 | 78.5 | mg/Kg | 78.5 | 45 - 140 |

Surrogate % Recovery Control Limits

n-Hexacosane 81.6 50 - 150

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|------------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| TPH as Diesel | <5.0 | 100 | 99.9 | mg/Kg | 99.9 | 8.3 | 30.0 | 45 - 140 |
| TPH as Motor Oil | <20 | 100 | 84.6 | mg/Kg | 84.6 | 7.6 | 30.0 | 45 - 140 |

Surrogate % Recovery Control Limits

n-Hexacosane 83.9 50 - 150

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LCS / LCSD - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070817

Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----------------|
| TPH as Gasoline | <0.50 | 2.5 | 2.45 | mg/Kg | 98.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 108.0 | 65 - 135 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| TPH as Gasoline | <0.50 | 2.5 | 2.48 | mg/Kg | 99.2 | 1.2 | 30.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 121.0 | 65 - 135 |

LCS / LCSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070817

Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|-----------|--------------|-----------|-------------|-------|------------|-----------------|
| Benzene | <0.010 | 0.080 | 0.0720 | mg/Kg | 90.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 95.9 | 65 - 135 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|-----------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| Benzene | <0.010 | 0.080 | 0.0780 | mg/Kg | 97.5 | 8.0 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 102.0 | 65 - 135 |

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LCS / LCSD - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC070822

Reviewed by: EricKum - 08/22/07

QC Batch ID Analysis Date: 8/22/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----------------|
| TPH as Gasoline | <0.50 | 2.5 | 2.43 | mg/Kg | 97.2 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
|-----------|------------|----------------|

| | | |
|----------------------|-------|----------|
| 4-Bromofluorobenzene | 117.0 | 65 - 135 |
|----------------------|-------|----------|

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| TPH as Gasoline | <0.50 | 2.5 | 2.49 | mg/Kg | 99.6 | 2.4 | 30.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
|-----------|------------|----------------|

| | | |
|----------------------|-------|----------|
| 4-Bromofluorobenzene | 111.0 | 65 - 135 |
|----------------------|-------|----------|

LCS / LCSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070822

Reviewed by: EricKum - 08/22/07

QC Batch ID Analysis Date: 8/22/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|-----------|--------------|-----------|-------------|-------|------------|-----------------|
| Benzene | <0.010 | 0.080 | 0.0780 | mg/Kg | 97.5 | 65 - 135 |

| | | | | | | |
|---------------|--------|-------|--------|-------|------|----------|
| Ethyl Benzene | <0.010 | 0.080 | 0.0770 | mg/Kg | 96.2 | 65 - 135 |
|---------------|--------|-------|--------|-------|------|----------|

| | | | | | | |
|----------------------|--------|-------|--------|-------|------|----------|
| Methyl-t-butyl Ether | <0.050 | 0.080 | 0.0710 | mg/Kg | 88.7 | 65 - 135 |
|----------------------|--------|-------|--------|-------|------|----------|

| | | | | | | |
|---------|--------|-------|--------|-------|------|----------|
| Toluene | <0.010 | 0.080 | 0.0770 | mg/Kg | 96.2 | 65 - 135 |
|---------|--------|-------|--------|-------|------|----------|

| | | | | | | |
|----------------|--------|------|-------|-------|------|----------|
| Xylenes, total | <0.010 | 0.24 | 0.233 | mg/Kg | 97.1 | 65 - 135 |
|----------------|--------|------|-------|-------|------|----------|

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
|-----------|------------|----------------|

| | | |
|----------------------|-------|----------|
| 4-Bromofluorobenzene | 101.0 | 65 - 135 |
|----------------------|-------|----------|

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|-----------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| Benzene | <0.010 | 0.080 | 0.0780 | mg/Kg | 97.5 | 0.0 | 25.0 | 65 - 135 |

| | | | | | | | | |
|---------------|--------|-------|--------|-------|------|-----|------|----------|
| Ethyl Benzene | <0.010 | 0.080 | 0.0780 | mg/Kg | 97.5 | 1.3 | 25.0 | 65 - 135 |
|---------------|--------|-------|--------|-------|------|-----|------|----------|

| | | | | | | | | |
|----------------------|--------|-------|--------|-------|------|-----|------|----------|
| Methyl-t-butyl Ether | <0.050 | 0.080 | 0.0760 | mg/Kg | 95.0 | 6.8 | 25.0 | 65 - 135 |
|----------------------|--------|-------|--------|-------|------|-----|------|----------|

| | | | | | | | | |
|---------|--------|-------|--------|-------|-----|-----|------|----------|
| Toluene | <0.010 | 0.080 | 0.0800 | mg/Kg | 100 | 3.8 | 25.0 | 65 - 135 |
|---------|--------|-------|--------|-------|-----|-----|------|----------|

| | | | | | | | | |
|----------------|--------|------|-------|-------|------|-----|------|----------|
| Xylenes, total | <0.010 | 0.24 | 0.236 | mg/Kg | 98.3 | 1.3 | 25.0 | 65 - 135 |
|----------------|--------|------|-------|-------|------|-----|------|----------|

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
|-----------|------------|----------------|

| | | |
|----------------------|-------|----------|
| 4-Bromofluorobenzene | 101.0 | 65 - 135 |
|----------------------|-------|----------|

Entech Analytical Labs, Inc.

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

LCS / LCSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGCA070820A

Reviewed by: EricKum - 08/22/07

QC Batch ID Analysis Date: 8/20/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-----------------|
| Benzene | <0.010 | 0.40 | 0.301 | mg/Kg | 75.2 | 65 - 135 |
| Ethyl Benzene | <0.010 | 0.40 | 0.344 | mg/Kg | 86.0 | 65 - 135 |
| Methyl-t-butyl Ether | <0.050 | 0.40 | 0.332 | mg/Kg | 83.0 | 65 - 135 |
| Toluene | <0.010 | 0.40 | 0.307 | mg/Kg | 76.8 | 65 - 135 |
| Xylenes, total | <0.010 | 1.2 | 1.06 | mg/Kg | 88.3 | 65 - 135 |

Surrogate

| | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 98.4 | 65 - 135 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| Benzene | <0.010 | 0.40 | 0.288 | mg/Kg | 72.0 | 4.4 | 25.0 | 65 - 135 |
| Ethyl Benzene | <0.010 | 0.40 | 0.323 | mg/Kg | 80.8 | 6.3 | 25.0 | 65 - 135 |
| Methyl-t-butyl Ether | <0.050 | 0.40 | 0.312 | mg/Kg | 78.0 | 6.2 | 25.0 | 65 - 135 |
| Toluene | <0.010 | 0.40 | 0.286 | mg/Kg | 71.5 | 7.1 | 25.0 | 65 - 135 |
| Xylenes, total | <0.010 | 1.2 | 0.968 | mg/Kg | 80.7 | 9.1 | 25.0 | 65 - 135 |

Surrogate

| | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 94.6 | 65 - 135 |

Entech Analytical Labs, Inc.

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LCS / LCSD - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E070905E

Reviewed by: TFulton - 09/05/07

QC Batch ID Analysis Date: 9/5/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-----------------|
| 1,1-Dichloroethene | <5.0 | 40 | 44.4 | µg/Kg | 111 | 65 - 135 |
| Benzene | <5.0 | 40 | 43.4 | µg/Kg | 108 | 65 - 135 |
| Chlorobenzene | <5.0 | 40 | 43.1 | µg/Kg | 108 | 65 - 135 |
| Methyl-t-butyl Ether | <5.0 | 40 | 45.1 | µg/Kg | 113 | 65 - 135 |
| Toluene | <5.0 | 40 | 42.0 | µg/Kg | 105 | 65 - 135 |
| Trichloroethene | <5.0 | 40 | 42.4 | µg/Kg | 106 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 97.3 | 60 - 130 |
| Dibromofluoromethane | 104.0 | 60 - 130 |
| Toluene-d8 | 98.5 | 60 - 130 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| 1,1-Dichloroethene | <5.0 | 40 | 36.9 | µg/Kg | 92.2 | 18 | 30.0 | 65 - 135 |
| Benzene | <5.0 | 40 | 41.1 | µg/Kg | 103 | 5.4 | 30.0 | 65 - 135 |
| Chlorobenzene | <5.0 | 40 | 39.6 | µg/Kg | 99.0 | 8.5 | 30.0 | 65 - 135 |
| Methyl-t-butyl Ether | <5.0 | 40 | 38.6 | µg/Kg | 96.5 | 16 | 30.0 | 65 - 135 |
| Toluene | <5.0 | 40 | 40.2 | µg/Kg | 100 | 4.4 | 30.0 | 65 - 135 |
| Trichloroethene | <5.0 | 40 | 40.3 | µg/Kg | 101 | 5.1 | 30.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 93.3 | 60 - 130 |
| Dibromofluoromethane | 95.4 | 60 - 130 |
| Toluene-d8 | 102.0 | 60 - 130 |

LCS / LCSD - Solid - TPH-Purgeable - GC/MS: EPA 5030B (or 5035A for Encore Samples only) / GC/MS

QC Batch ID: SM3E070905E

Reviewed by: TFulton - 09/05/07

QC Batch ID Analysis Date: 9/5/2007

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----------------|
| TPH as Gasoline | <100 | 250 | 267 | µg/kg | 107 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 100.0 | 60 - 130 |
| Dibromofluoromethane | 104.0 | 60 - 130 |
| Toluene-d8 | 106.0 | 60 - 130 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| TPH as Gasoline | <100 | 250 | 279 | µg/kg | 112 | 4.4 | 30.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 95.7 | 60 - 130 |
| Dibromofluoromethane | 93.6 | 60 - 130 |
| Toluene-d8 | 109.0 | 60 - 130 |

Entech Analytical Labs, Inc.

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

MS / MSD - Solid - VOCs by GC: EPA 5030B (or 5035A for Encore Samples only)/EPA 8021B

QC Batch ID: SGC070817

Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007

MS Sample Spiked: 56754-006

| Parameter | Sample Result | Spike Amount | Spike Result | Units | Analysis Date | % Recovery | Recovery Limits |
|----------------|---------------|--------------|--------------|-------|---------------|------------|-----------------|
| Benzene | ND | 0.080 | 0.0730 | mg/Kg | 8/20/2007 | 91.2 | 65 - 135 |
| Ethyl Benzene | ND | 0.080 | 0.0720 | mg/Kg | 8/20/2007 | 90.0 | 65 - 135 |
| Toluene | ND | 0.080 | 0.0720 | mg/Kg | 8/20/2007 | 90.0 | 65 - 135 |
| Xylenes, total | ND | 0.24 | 0.216 | mg/Kg | 8/20/2007 | 90.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 94.3 | 65 - 135 |

MSD Sample Spiked: 56754-006

| Parameter | Sample Result | Spike Amount | Spike Result | Units | Analysis Date | % Recovery | RPD | RPD Limits | Recovery Limits |
|----------------|---------------|--------------|--------------|-------|---------------|------------|-----|------------|-----------------|
| Benzene | ND | 0.080 | 0.0750 | mg/Kg | 8/20/2007 | 93.8 | 2.7 | 25.0 | 65 - 135 |
| Ethyl Benzene | ND | 0.080 | 0.0740 | mg/Kg | 8/20/2007 | 92.5 | 2.7 | 25.0 | 65 - 135 |
| Toluene | ND | 0.080 | 0.0730 | mg/Kg | 8/20/2007 | 91.2 | 1.4 | 25.0 | 65 - 135 |
| Xylenes, total | ND | 0.24 | 0.244 | mg/Kg | 8/20/2007 | 102 | 12 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 97.7 | 65 - 135 |

From: [Simon Hague](#)
To: dtheesen@entechlabs.com;
CC:
Subject: Additional analysis for WO 56754
Date: Tuesday, August 28, 2007 1:54:45 PM
Attachments:

Hi. I just heard from Matt K @ RRM. He wants to do the following additional analyses on this work order on 5-day TAT. He is aware the samples are out of hold time:

56754-007-TPH-E
56754-016-TPH-E and 8260
56754-019-TPH-E and 8260

Thanks,

Si

Entech Analytical Labs, Inc.

Chain of Custody / Analysis Request

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

| | | | | |
|-------------------------------------|-------------------------------------|------------------------|--------------------------------------|-------------------|
| Attention to: Matt Kaempf | Phone No.: 831-475-8141 | Purchase Order No.: | Invoice to: (If Different) | Phone: |
| Company Name: RRM, Inc. | Fax No.: 831-475-8249 | Project No.: KCE514 | Company: | Quote No.: |
| Mailing Address: 2560 Soquel Ave | Email Address: labdata@rrmsc.com | Project Name: | Billing Address: (If Different) | |
| City: Santa Cruz | State: ca | Zip Code: | Project Location: 900 Central Ave | City: State: Zip: |

| Sampler: | | Field Org. Code: | Turn Around Time | | Matrix | No. of Containers | GC/MS Methods | | GC Methods | | General Chemistry | | Remarks |
|------------|-----------|------------------|-----------------------------------|--------------------------------|--------|-------------------|--------------------------------|--------------------------------|--------------------------------|---|---------------------------------|--|---------|
| Global ID: | Order ID: | Sample | <input type="checkbox"/> Same Day | <input type="checkbox"/> 1 Day | | | <input type="checkbox"/> 2 Day | <input type="checkbox"/> 8 Day | <input type="checkbox"/> 4 Day | <input checked="" type="checkbox"/> 5 Day | <input type="checkbox"/> 10 Day | | |
| SB-1-7.5' | 001 | 8/9/07 | 0850 | | | | | | | | | | |
| SB-1-12' | 002 | 8/9/07 | 0900 | | | | | | | | | | |
| SB-1-16' | 003 | 8/9/07 | 0924 | | | | | | | | | | |
| SB-1-20' | 004 | 8/9/07 | 0931 | | | | | | | | | | |
| SB-1-24' | 005 | 8/9/07 | 0940 | | | | | | | | | | |
| SB-2-8' | 006 | 8/9/07 | 1113 | | | | | | | | | | |
| SB-2-11.5' | 007 | 8/9/07 | 1130 | | | | | | | | | | |
| SB-2-16' | 008 | 8/9/07 | 1140 | | | | | | | | | | |
| SB-2-20' | 009 | 8/9/07 | 1150 | | | | | | | | | | |
| SB-2-24' | 010 | 8/9/07 | 1205 | | | | | | | | | | |
| SB-3-4.5' | 011 | 8/9/07 | 1300 | | | | | | | | | | |
| SB-3-8' | 012 | 8/9/07 | 1310 | | | | | | | | | | |
| SB-3-12' | 013 | 8/9/07 | 1315 | | | | | | | | | | |

| | | | | | |
|------------------|--------------|-------|-------|---|--|
| Relinquished by: | Received by: | Date: | Time: | Special Instructions or Comments (23) Acetate liner Tubes (soil) w/ 500 Temp Metals: Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Tl, Zn, V, W, Zr | <input type="checkbox"/> EDD Report |
| Relinquished by: | Received by: | Date: | Time: | | <input type="checkbox"/> EDF Report |
| Relinquished by: | Received by: | Date: | Time: | | <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17 |

Entech Analytical Labs, Inc.

Chain of Custody / Analysis Request

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

| | | | | |
|-------------------------------------|------------------------------------|------------------------|--------------------------------------|-------------------------|
| Attention to: Matt Kaempf | Phone No.: 831-475-8141 | Purchase Order No.: | Invoice to: (if Different) | Phone: |
| Company Name: RRM, Inc. | Fax No.: 831-475-8249 | Project No.: KCE514 | Company: | Quote No.: |
| Mailing Address: 2560 Soquel Ave | Email Address: labdata@mmsc.com | Project Name: | Billing Address: (if Different) | |
| City: Santa Cruz | State: CA | Zip Code: | Project Location: 900 Central Ave | City: State: Zip: |

| Sampler: | | Field Org. Code: | Turn Around Time | | No. of Containers | GC/MS Methods | GC Methods | General Chemistry | Remarks |
|-------------------------|-----------|------------------|--|---|--|---------------|------------|-------------------|---------|
| Global ID: | Order ID: | Sample | <input type="checkbox"/> Same Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 10 Day | <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> 5 Day | | | | | |
| Client ID / Field Point | Lab. No. | Date | Time | Matrix | | | | | |
| SB-3-16' | 014 | 8/9/07 | 1330 | s | EPA 8260B BTEX 2, MTBE 2, TPH Cok 2 by 8260B 5 Oxygenated MTBE, TBA, FTBA, DIVE, TAME 2 Lead, Sulfoxides (1,2-Diox & BDB) 2, Ethanol 2 Base/Neutral/Acid Organics 8270C 2, PAHs 8270C 2, PAM - 8270C 2 TPH Extractable: Diesel 2, Motor Oil 2 Particles-808 1 2 TPH as Gas/BTEX 2, MTBE 2 by 8015M/8020 Methanol by 8015M PCBs - 5082 2 Anions: F 2, Cl 2, Br 2, SO4 2, NO3 2, NO2 2, PO4 2 pH 2, TS 2, SC 2, TOC 2, TPH 2, O&G 2 Metals - Circle Below Total Dissolved 2, Sulfide 2, TCR 2 | | | | |
| SB-4-4' | 015 | 8/9/07 | 1345 | s | | | | | |
| SB-4-8' | 016 | 8/9/07 | 1400 | s | | | | | |
| SB-5-4' | 017 | 8/9/07 | 1500 | s | | | | | |
| SB-5-8' | 018 | 8/9/07 | 1510 | s | | | | | |
| SB-5-10.5 | 019 | 8/9/07 | 1520 | s | | | | | |
| SB-6-4' | 020 | 8/9/07 | 1540 | s | | | | | |
| SB-6-8' | 021 | 8/9/07 | 1548 | s | | | | | |
| SB-6-12' | 022 | 8/9/07 | 1600 | s | | | | | |
| SB-6-16' | 023 | 8/9/07 | 1610 | s | | | | | |

| | | | | | |
|------------------|------------------------------------|-------------------|---------------|---|--|
| Relinquished by: | Received by: <i>[Signature]</i> | Date: 08/15/07 | Time: 1500 | Special Instructions or Comments Metals: Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Tl, Zn, V, W, Zr | <input type="checkbox"/> EDD Report <input type="checkbox"/> EDF Report |
| Relinquished by: | Received by: | Date: | Time: | | <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17 |
| Relinquished by: | Received by: | Date: | Time: | | |