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Kelleher & Associates

Environmental Management LLC

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October 29, 2007

Steven Plunkett Alameda Country Health Care Services ("County") 1131 Harbor Bay Parkway, Suite 250 Alameda County, CA 94502-6577

LUFT Site: 900 Central Ave, Alameda (Site)

Re: Report Submittal

Dear Mr. Plunkett:



ENVIRONMENTAL HEALTH SERVICES

On behalf of the parties contributing to the 900 Central Avenue Corrective Action Account, please find enclosed herewith a copy of the following technical report prepared by RRM, Inc., Santa Cruz, CA (RRM):

Subsurface Investigation Results, Second and Third Ouarter 2007 Groundwater-Monitoring Results, October 23, 2007

On behalf of the parties participating in site-remediation efforts, I declare under penalty of perjury that the information contained in the enclosed document is true and correct to the best of my knowledge.

The report covers the groundwater-monitoring events RRM conducted on May 4, 2007 and August 23, 2007, during which they sounded, purged and sampled three and then six monitoring wells and one recovery well. The groundwater-monitoring work was conducted pursuant to the directives set forth in County correspondence dated July 12, 2006 and January 9, 2007. The report also covers the following subsurface investigation work RRM conducted in June and August 2007 pursuant to their December 29, 2007 subsurface investigation workplan approved by your office under correspondence dated January 9, 2007:

- 1. Installed three additional 2-inch diameter groundwater monitoring wells (MW-4, 5, 6) off the site boundaries to complete the delineation of groundwater contamination downgradient (southwest) of the source area;
- Advanced six additional exploratory borings from approximately 10 to 25 feet from grade in and around the area of the former USTs and collected/analyzed 19 soil samples to complete the delineation of the heavily impacted soil zone and the vertical extent of saturated soil contamination.
- 3. Installed a 4-inch diameter recovery well (RW-1) in the center of the former tank area for future use in pilot testing and to monitor source area conditions.
- 4. Surveyed top-of-casing elevations for all new and existing wells relative to sea level and, in confirming a westerly/southwesterly groundwater flow direction, recalculated and replotted groundwater gradients for all sounding events conducted since the first three wells were installed in November 1998.

On the basis of the collective investigation findings, RRM has concluded that the extent of soil and groundwater contamination has been adequately defined. According to RRM, there is a 10 foot thick by 20 foot wide by 50 foot long zone of heavily impacted saturated soils (370 bank cubic yards) between 8 to 18 feet from grade extending southwest from the former tank area through the area of well MW-1. RRM has further concluded that the levels of gasoline contamination in this heavily impacted zone

Steven Plunkett, Alameda County Health Care Services October 29, 2007

represent a secondary source area that will require active remediation by one of several approaches including remedial excavation or sparging-enhanced dual-phase extraction. Accordingly, RRM is recommending the conduct of appropriate feasibility studies to determine the optimal approach followed by the preparation of a formal corrective action plan. Specially, they are recommending the installation of an air-sparging well midway between wells RW-1 and MW-1 and the conduct of a one-day dual-extraction pilot test using a self-contained mobile unit. They are also recommending mapping all underground utilities that would potentially interfere with or complicate a remedial-excavation approach. If the County concurs with these recommendations, RRM will promptly prepare a concise feasibility study workplan. RRM is recommending that the dual extraction pilot test be conducted during low water table conditions either in the fourth quarter 2007 or second or third quarters 2008.

Thank you for your ongoing courtesy and cooperation.

Sincerely:

Brian T. Kelleher

Court consultant/project coordinator

Cc with enclosure: William Nagle, Esq., Special Master Mediator; Robert Bucciere, Esq., and Kim O'Dincel, Esq., Long & Levit counsel for Pearce Parties; Lisa Pan, Esq., counsel for Thompson Parties; Joe Ryan, Esq., Ryan & Lifter, counsel for Thompson Parties; Laurie Sherwood, Esq., Walsworth & Franklin et al counsel for Peterson Parties; Edward Martins, Esq., counsel for Ann Marie Holland and Estate of John Holland Sr.; Hal Reiland, counsel for Barbara Holland; Jack Holland Jr., c/o Mulholland Bros; cc cover letter only, Matt Kaempf, RRM



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 a 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 (TPHmo), diesel range TPH (TPHd), gasoline range TPH (TPHg), benzene, toluene, ethyl benzene, and xylenes (collectively BTEX); and a leachability test was conducted on the soil sample collected from Boring EB-1. TPHg 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, TPHg 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

	Date	Well	Depth	Groundwater				Ethyl-	Total				
Sample	Gauged	Elevation	to Water	Elevation	TPHg	Benzene	Toluene	benzene	Xylenes	MtB€	TPHd	TPHmo	
ID	& Sampled	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(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. 4 0	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	56,700 ³	2,570	2,370	1,120	9,560	<11	NΑ	NA	1
MVV-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	
	02/05/07		10.15	15.02	69	<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
MVV-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	< 0.50	<50	<500	
	07/15/02		10.82	14.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	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. 6 3	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	<1.6	<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

	Date	Well	Depth	Groundwater				Ethyl-	Total				
Sample	Gauged	Elevation	to Water	Elevation	TPHg	Benzene	Toluene	benzene	Xylenes	MtBE	TPHd	TPHmo	
1D	& Sampled	(feet, MSL)	(feet, TOC)	(feet, MSL)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(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 = gasotine 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</p>

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

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)
	00/00/07	7.5	0.70	~0.040	∠0.010	<0.010	0.034	NA	NA	NA	NA	NA	NA
SB-1-7.5	08/09/07	7.5	0.79	<0.010	<0.010	<0.010			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	NΑ	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
	22/22/27	-	.0.50	-0.040	-0.040	-0.040	-0.040	N IA	NIA	210		N1.A	
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	NΑ	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	ΝA	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-5-10.5	06/22/07	15.0	<0.50	<0.010	<0.010	<0.010	<0.010	NA	NA NA	NA	NA NA	NA.	NA NA
C1 -C-44101	00/22/07	13.0	~0.50	~0.010	~0.010	~0.010	~0.010	. 1973	INC	DIC	INC	INC	INC

Table 2
Soil Analytical Data

900 Central Avenue Alameda, California

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

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.

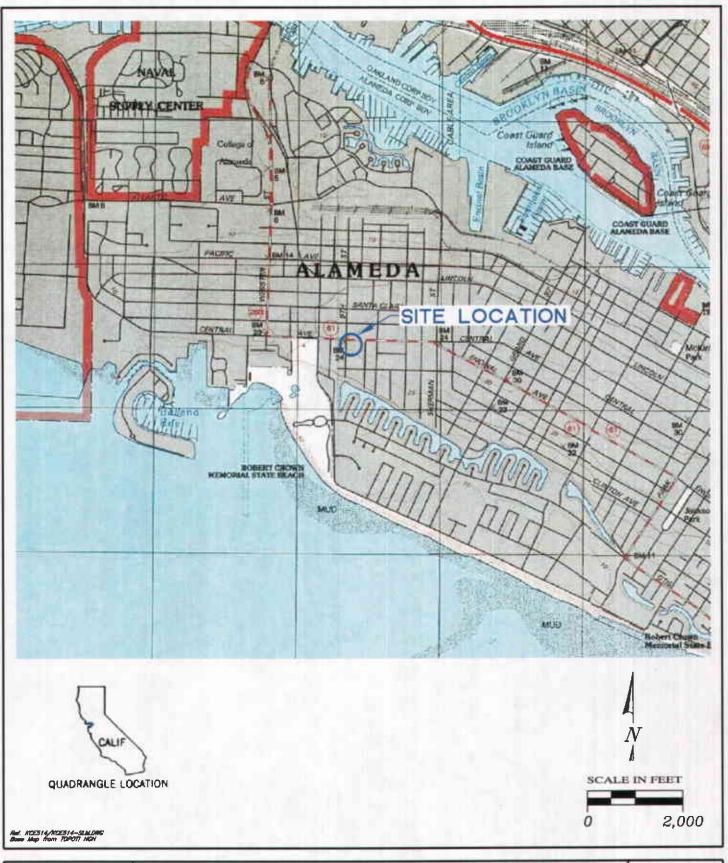
mg/kg = milligrams per kilogram

bgs = below ground surface

< = none detected at or above reported detection limit

ND = not detected

NA = not analyzed

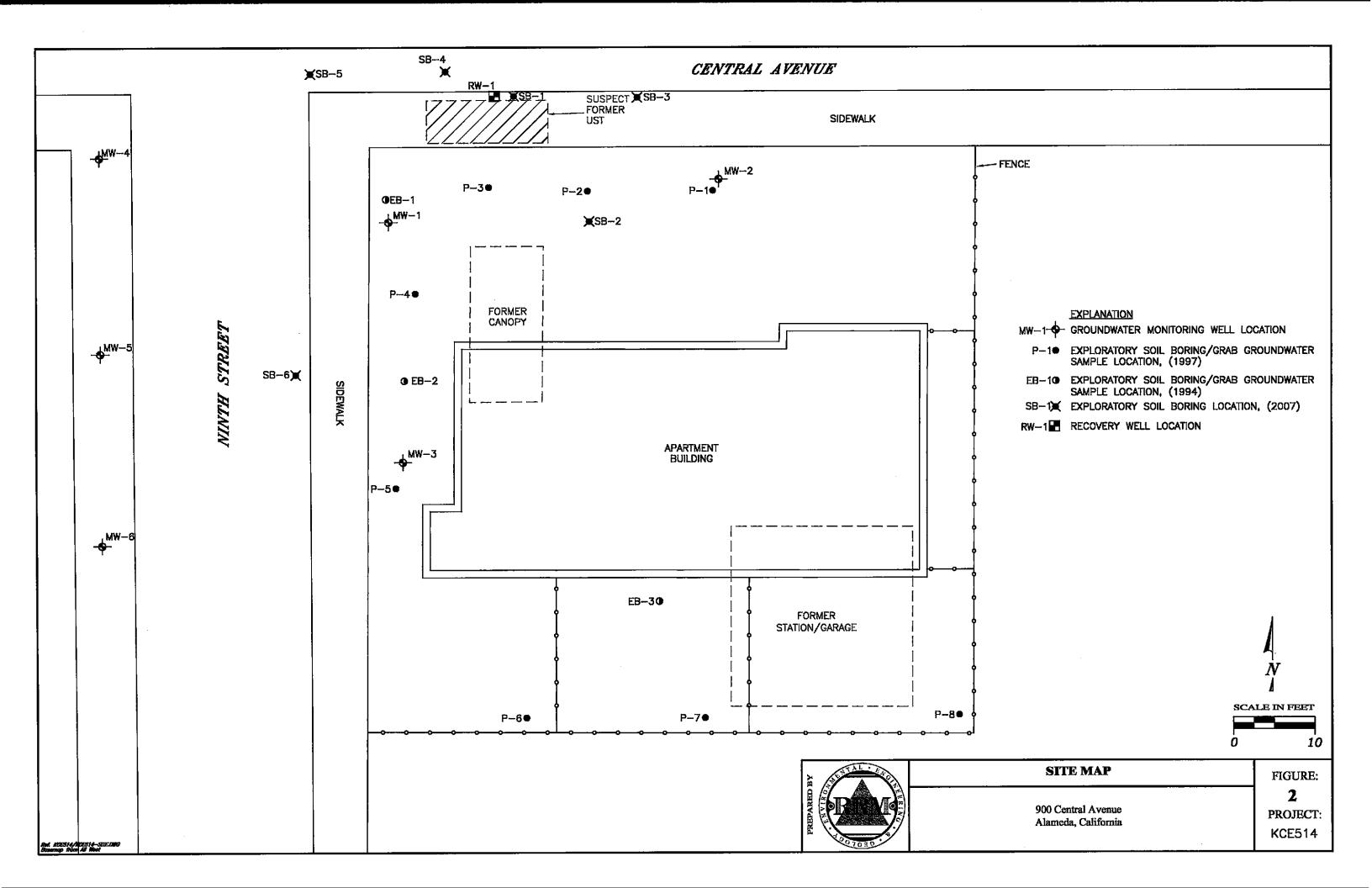


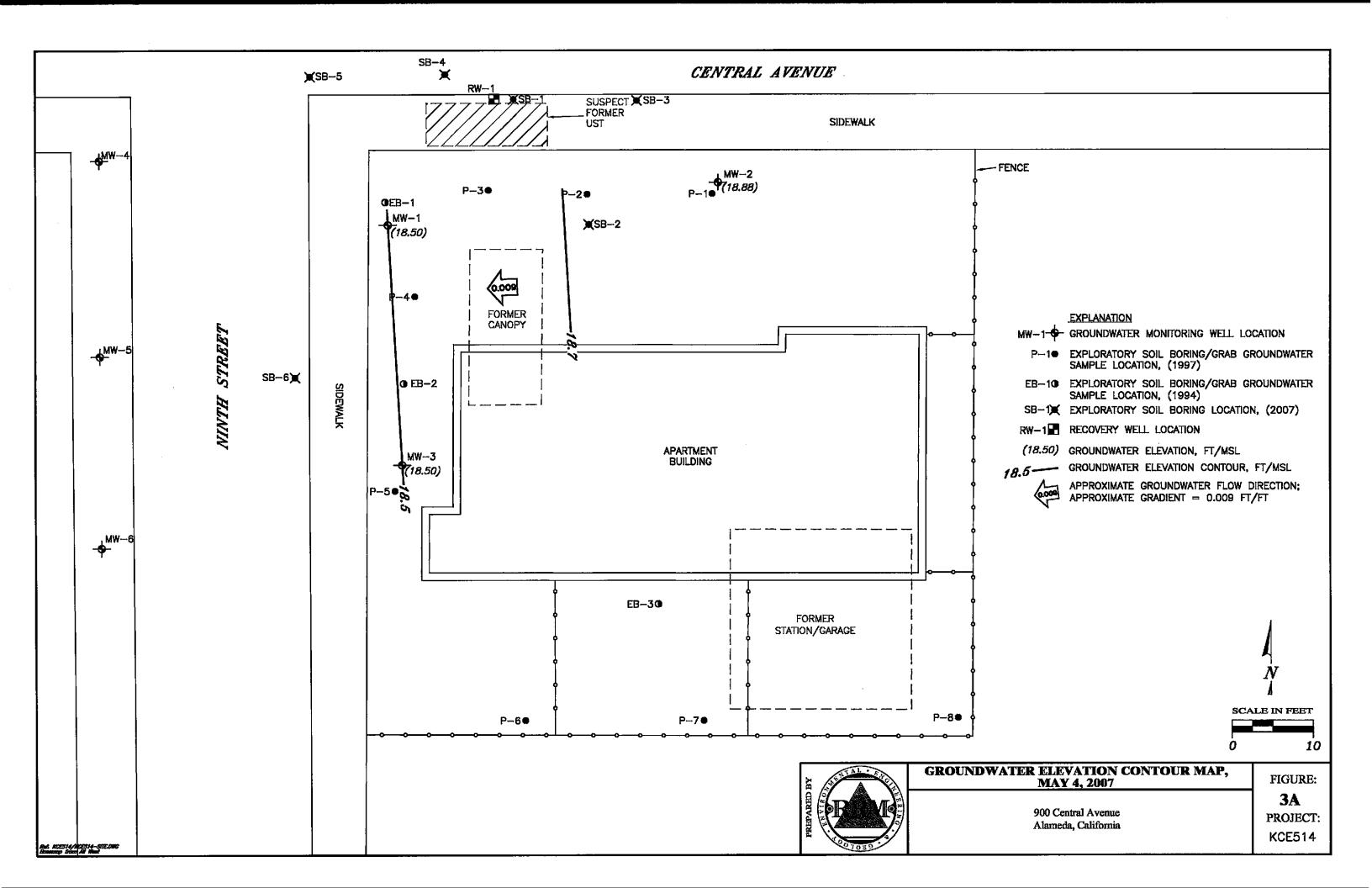


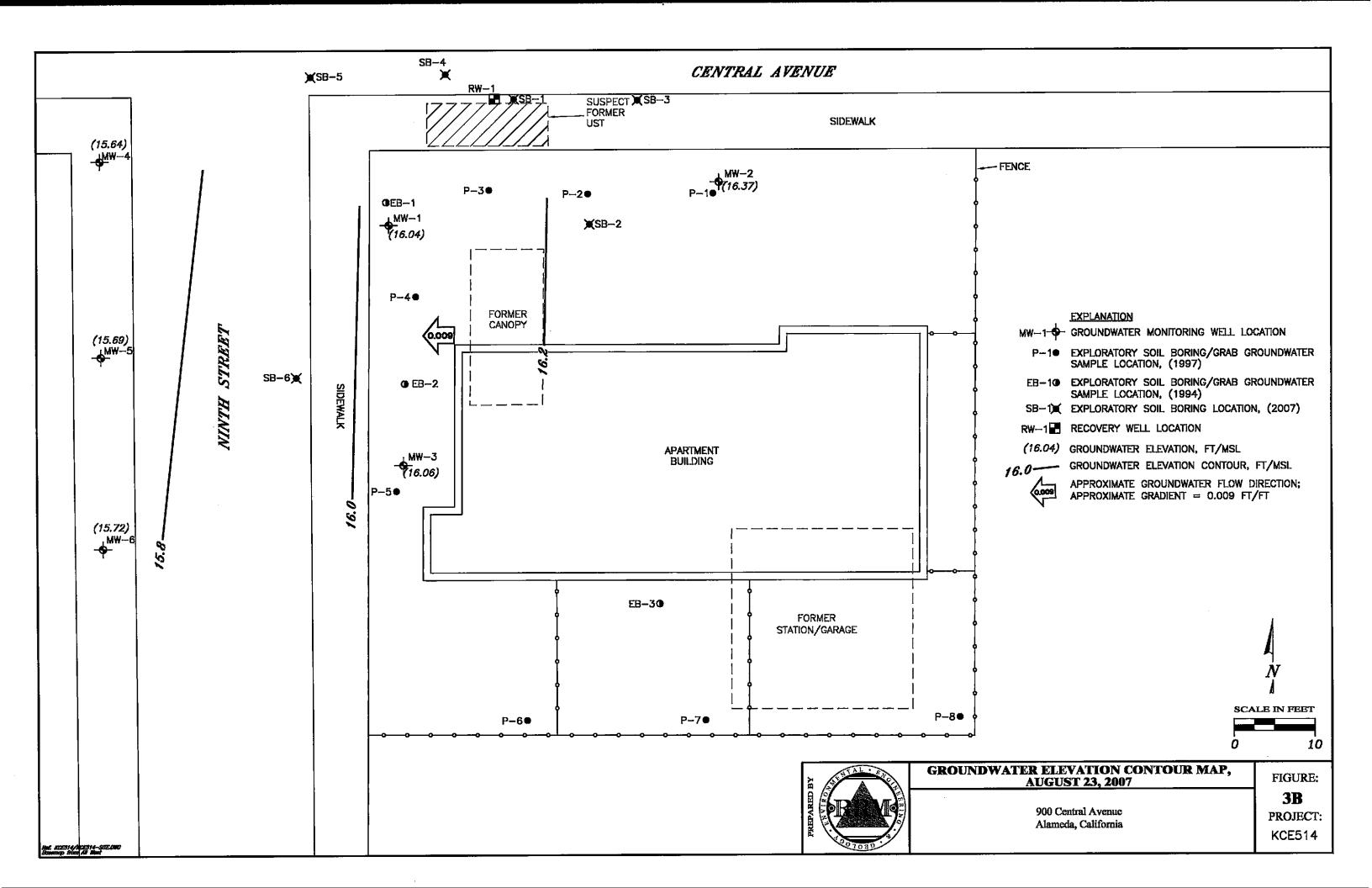
SITE LOCATION MAP

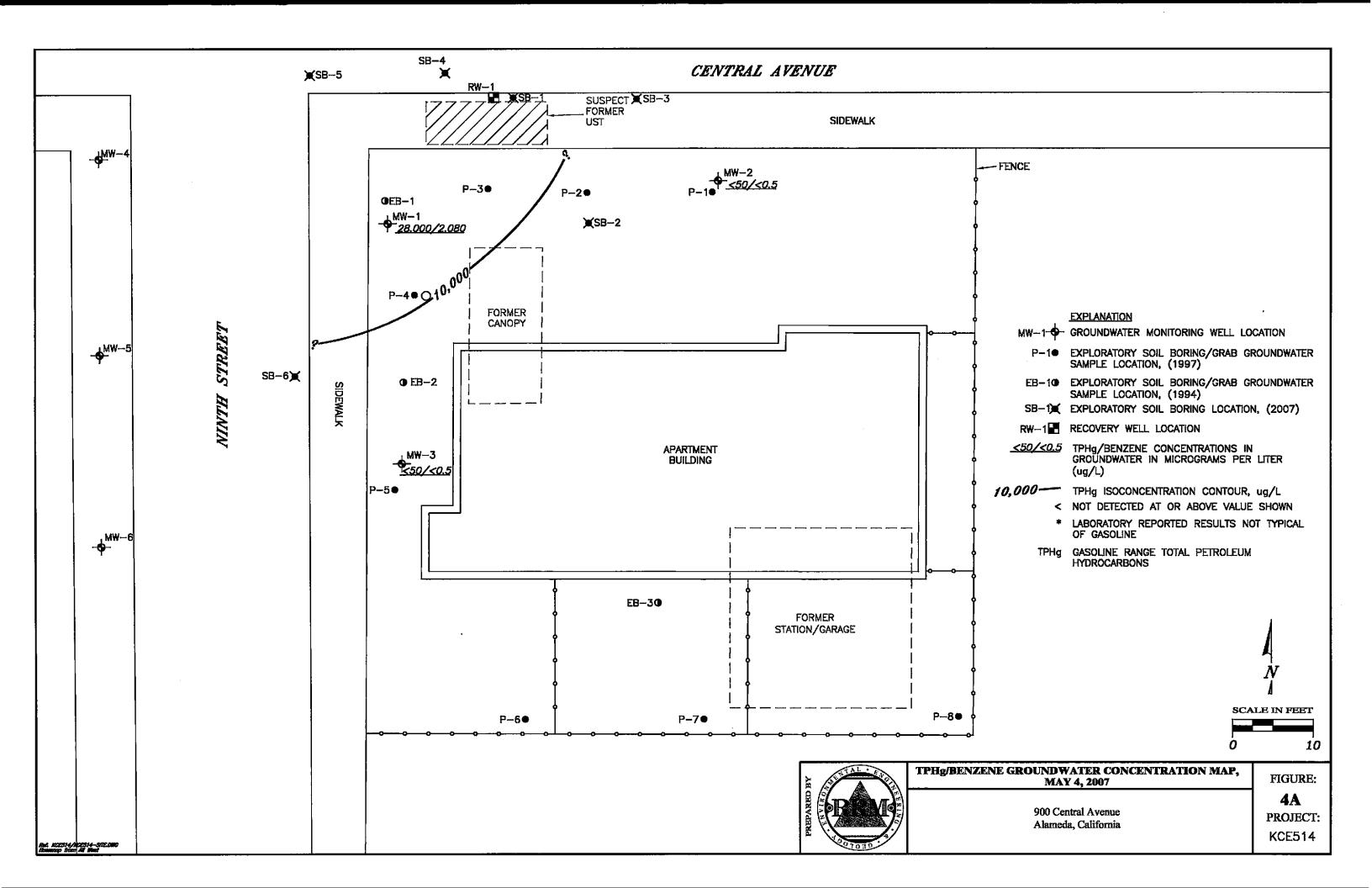
900Central Avenue Alameda, California FIGURE:

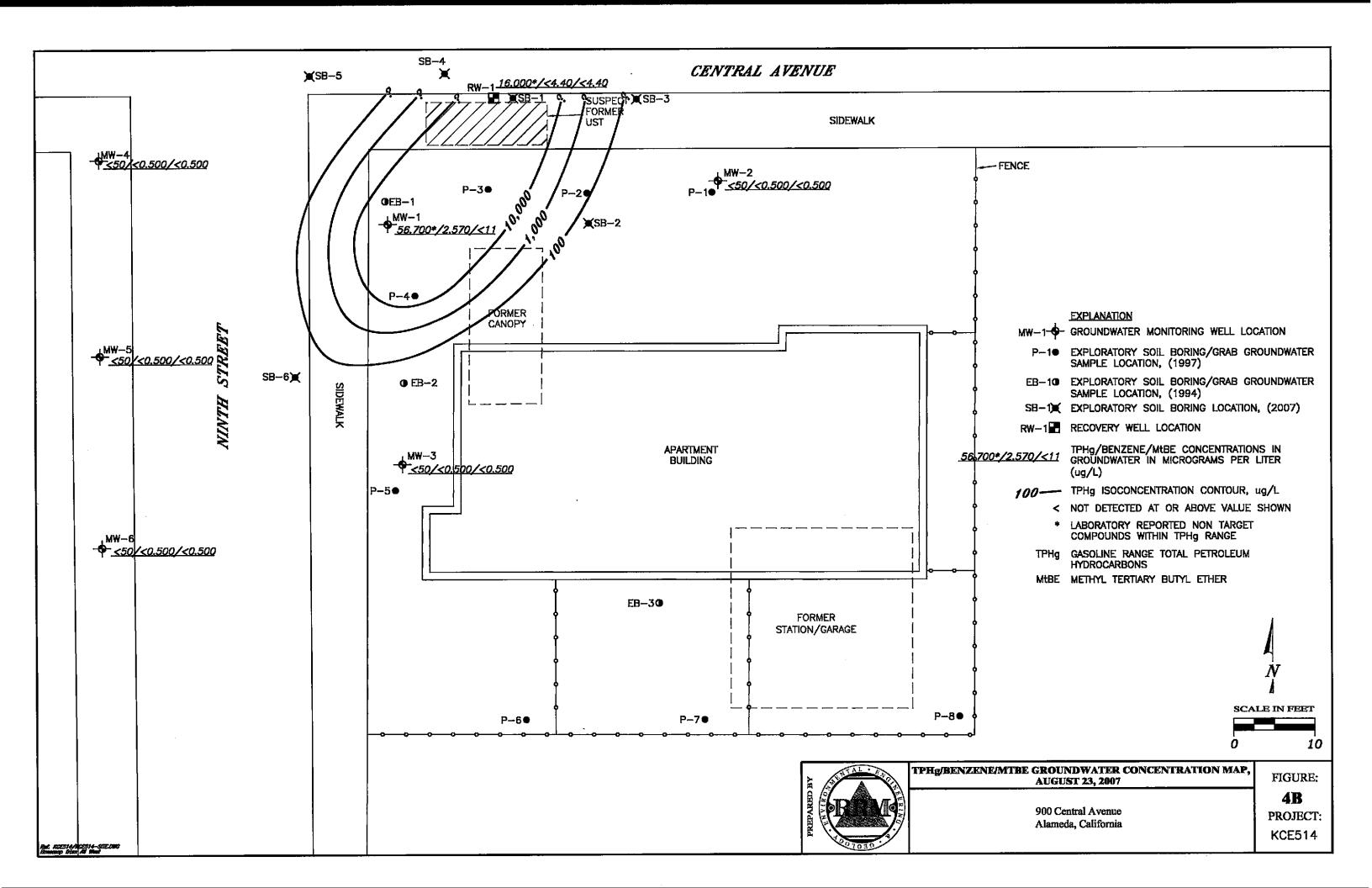
1 PROJECT: KCE514

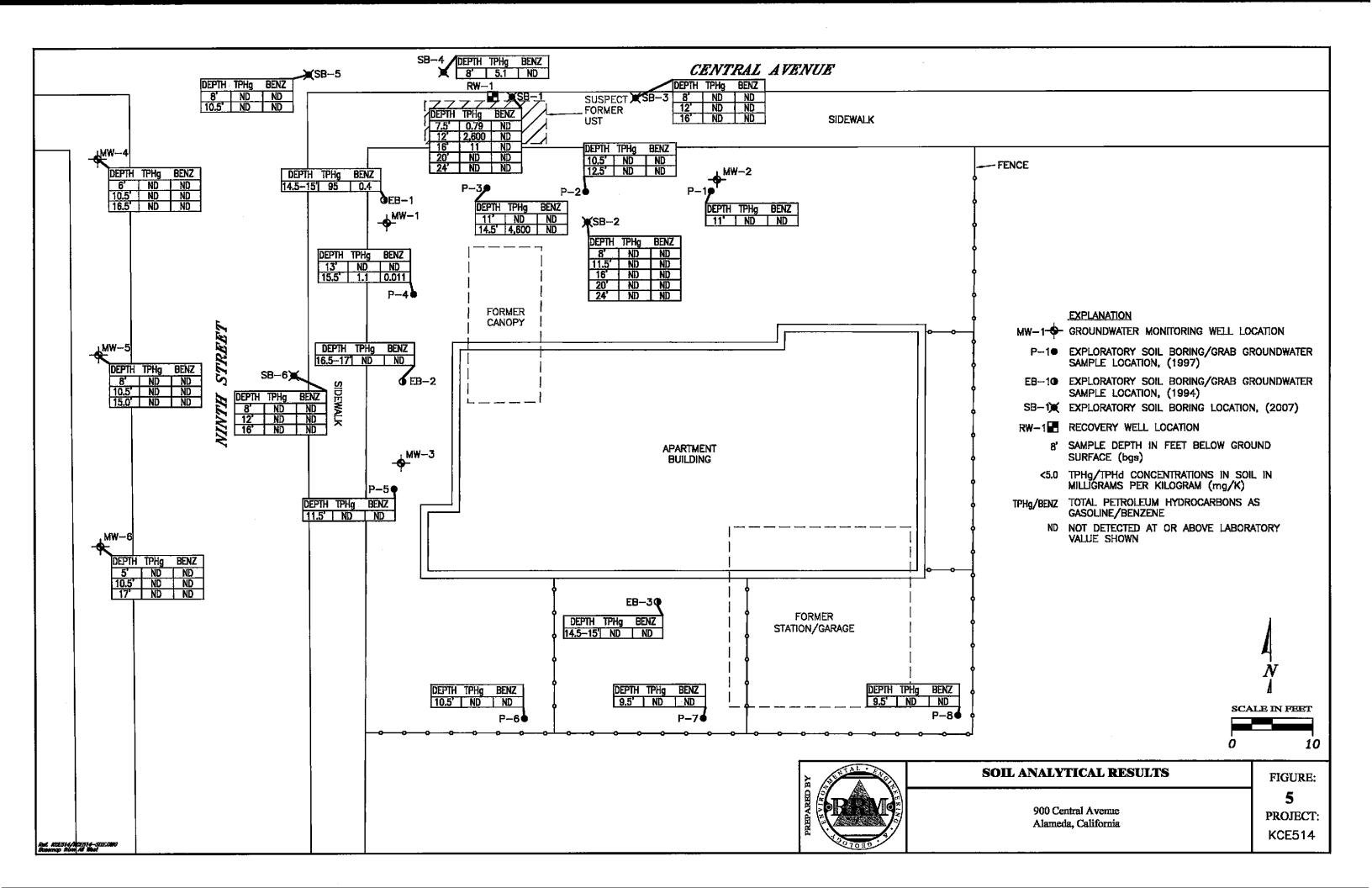














FIELD AND ANALYTICAL PROCEDURES

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 trisodium 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

Depth to Wate	r Data Forn	n				A LANGE						
Site Information 900 Central Ave. Project Address	- -	6504	167	KCE514 Project Number	···	R	2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141					
Alameda City		Alameda County		Project Number California State	· · · · · · · · · · · · · · · · · · ·	_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
Water Level Equipment Electronic Indicator Oil Water Interface Probe Other (specify)			Measured By: Notes:	nante								
				First DTW	Total Depth	Depth to SPH	SPH Thickness					
DTW Order	Well ID	Time (24:00)	Total Depth	(toc) or tob)	(toc or tob)	(toc or tab)	(too or tob)	Notes (describe SPH)				
#3	NW-1	11 37	18.73	9.77								
#2	MW-2	1134	18.40	9.43								
#1	MW-3	1137	18.70	9.19								
	· · · · · · · · · · · · · · · · · · ·	 	···		· ·							
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Signature:

Field Data Sheet

	er Sampling For	rm				A STEEL		
Site Information							256	0 Soquel Ave. #202
900 Central A	ve.		MW-1	KCE514			Y San	la Cruz, CA 95062
Alameda		Alameda	Well/Sample Poin	,	- -			(831) 475-8141
City		Courty		California State	784	_	547	
Purge Information								
Water Level Equi	•		Purge Equipmer	nt				
Electronic Indi			→ Bailer	✓ Diposable	Teflon #:			
Oil Water Inter			Submersible f	Pump; type:				
Other (specify))		Other (specify	·)		_		
	Purge Calculation	1	casing	gallons per	Purged By:	<i>₩</i>		
			diameter	linear foot		name		-
	total depti	n = 14.73	0.75 in.	0.023	Purge Notes:			
	depth to wate	7. 977	1 in.	0.04				
	linear feet of wate	8.96		No.				
	" Total rect of water		2 in.	0.17				
	gallons per linear foo	1 X	4 in,	0.67				
	gallons per casing	3 = 1.5 4	6 in.	1.5	-			
1	number of casings	× <u>ع</u>	other	calculate				
	calculated purge	4.57	1 1	-				
		7	1 Cubic 100	t = 7.48 gallons	Purged Dry?: N	4 circle, Y	Sampling Detail	y?: Needs Y
	time (24:00)	gallons (purged)	pH	EC	temp	color	turbity	odor
slart	1220		(units)	{∪ s @ 25° C}	(°F circle °C)	(see below)	(NTU or see belov	(see below)
		1,50	77 :/(5)					
volume 1	1223		7.40	154	172	5 your	hvy.	hoods
volume 2	1225	3.00	7.11	206	16.9	41	mod.	strong
volume 3	1227	4.75	7.06	217	16.8	И	<u>a</u> 1	
ivolume 4				<u> </u>			(**	n
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		S		
complete			•					
						brown, yellow cloudy, clear	heavy, moderate	strong, moderate slight, none
Groundwater Samp	pling Information					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	agin, dece	Sign, Tone
Sample Type			Sampling Equipment					
Extraction Well				Diposable	Teflon #:			
Domestic Well			Submersible Pump	r; type:				
Other (specify)			Sampling Port					
			Other (specify)					
Sample ID	Date	Time (24:00)	ך					·
new-1	50407	1240						
					Sampled By:	<u> </u>		
Dupe #		12:00				name		
of Cont.	Analyses (check	and circle)	Container/Size	Preservative	Sampling Noles:			
	TPH gas (8260B)	I						
	BTEX (8020 or	8260B1	40-ml	ļ				
3		020007	7			·····		
	MtBE (8270)		1 //	निका				
	Fuel Oxy (8270)	no note	WOA					
	Other (specify)			Ī				,
1	Пис							
	UVOCs (8010 or 82		40 ml VOA	HC!				
	TPH diesel (8015)	м)	1 filer amber r	none		· · · · · · · · · · · · · · · · · · ·		
	Metals (8010)		ļ l	HNO,				——————————————————————————————————————
	Other (specify)		production of the second	01		will	1-1	
	Tages (abcout)				Signature:			

Field Data Sheet Groundwater Sami

Site Information	Sampling For	m						
900 Central Av							250	60 Soquel Ave. #202
Project Address	e	-	MW-2 Wet/Sample F	KCE514 Project Number				nta Cruz, CA 95062 (831) 475-8141
Alameda		Alameda	•	California				(001)410-0141
City Purge Information		County		State			519	
Water Level Equip	ment		D Fa					
Electronic Indica			Purge Equipm Bailer	rent Diposable	Π			
Oil Water Inleria				e Pump; type;	Teflon #:			
Other (specify)		_	Other (spec	cily)				
	Purge Calculation		casing		Purged By:	(MT)		
			diamete		ruigea by.	name	·	· ·
	total depti	= 18,40	0.75 in.		Purge Notes:	rang.		
	depth to water	· <u>9.43</u>	1 in.	0.04	1			
	linear feet of water	£1.8 =	2 in.	0.17				
	gallons per linear foot	x ,17		ñ	ļ 			
	gallons per casing		4 in.	0.67				,
			6 in.	1.5				
	number of casings		olher	calculate				
	calculated purge		1 cubic f	oot = 7,48 galtons	Purged Dry?:	N exicto Y	Sampling Dela	y?: Naico Y
r	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle 7C)	color (see below)	turbity	oder
start	1200	0				(see nelow)	(NTU or see below	w) (see below)
volume 1	1203	1,50	7,31	113	16.0	Svorm		
volume 2	1205	3,00	7.02	116	15.6	11	iny.	mod.
volume 3	1208	4.75	6.94	121	15.6	11	1)	44
volume 4								и
complete							j	
			<u></u>			prown, yellow	neavy moderate	strong, moderate
Groundwater Sampli	ng Information	·				cloudy, clear	light, trace	slight, none
Sample Type			Sampling Equipmen	nt .				
Monitoring Well		ļ	⊠ Bailer		Teflon #:			
Extraction Well Domestic Well		Ī		mp; type:		-		
_Other (specify)		· [Sampling Port					
		i	Other (specify) _					
Sample ID	Date	Time (24:00)						
44-2	050407	1220				רליין	رد.	
Dupe #		12:00			Sampled By:	name		
of Cont.	Analyses (check a		Container/Size	Preservative		Harrise		
	TPH gas (8260B)		Odinandiyotze	Preservative	Sampling Notes:			
li	BTEX (8020 or	anann:						
डि	 3	828UB)	40 101					
	M(BE (8270)	• 1		(0)	4		•	
[]	Fuel Oxy (8270)	ho Mitter	I VOX					
	Other (specify)							
	VOCs (8010 or 824	10 or 8260B)	40 ml VOA	нсі	* ··· ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	TPH diesel (8015M	ŕ	1 liter amber					
	Metals (8010)	•		none				
	Other (specify)		500 ml plastic	HNO ₃		inter	1	
<u> </u>					Signature:	www		

Field Data Sheet

Groundwate	r Sampling For	m				(3)	T. Car	
Site Information								
900 Central Av	e.	-	MW-3	KCE514	_			50 Soquel Ave. #202 hts Cruz, CA 95062
Alameda		Alameda	Well/Sample Pai	,				(831) 475-8141
City		County		California State		_ 🤏 🗆	0 2 9	
Purge Information				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Water Level Equip			Purge Equipme	nt	***************************************			
Electronic Indic			Baiter	Diposable	Tellon #;			
Oil Water Interf			Submersible	Pump; type:				
Other (specify)		_		y)				
	Purge Calculation		casing	gallons per	Purged By:	(2)		_
	total depti	1= 18.70	diameter 0.75 in.	linear foot 0,023	Purge Notes:	пате		
	depth to water	. 9.19	1 in.	0.04				
·	linear feet of water			ă				
			2 in.	0.17	·			
	gallons per linear foo	x <u>.1 +</u>	4 in,	0.67	<u> </u>			.,,,,
	gallons per casing	= 1,62	6 in.	1.5				
	number of casinos	, 3	athas	Ħ				
	calculated purge	485	ather	calculate	<u> </u>			
	time	gallons		o1 = 7.48 gallons	Purged Dry?; N	tirde Y	Sampling Dela	ly?; N circle Y
	(24:00)	(bntdeq)	ρΗ (units)	EC (us@ 25°C)	lemp (°F circle C)	color (see below)	turbity	odar
start	7145	0				(see below)	(NTU or see belo	w (see below)
volume 1	1148	1.50	8.56	208	150	1		
volume 2	1150	3.23	8.09	202	18,0	3mun	mod.	5154
	1152_	5.50				И		LL
volume 3	1132	5.00	7.76	197	17.5	**	hvy.	u
volume 4								
complete								
					<u> </u>	prown, yearow	neavy, moderate	strong, moderate
Groundwater Samp	ling Information					cloudy, clear	light, trace	siight, none
Sample Type			Sampling Equipment	•				•
Monitoring Well				<u>-</u>	—————————————————————————————————————			
Extraction Well			Submersible Pum		Tellon #;			
Domestic Weti			Sampling Port	p, type		•		•
Other (specify)			Other (specify)					
			(a)					
Sample ID	Date	Time (24:00)				1		
2-3	050407	1200			Canali I D	(~)		
Dupe #		12:00			Sampled By:	пате		
# of Cont.	Analyses (check :	and circle)	Container/Size	Preservative	Sampling Notes:			
/- -	TPH 9as (8260B)		- I ad it dividire la c	1 Teact valive	Sampling Notes:			
						···		
	BTEX (8020 or	8260B)	40 m					
3	MtBE (8270)		1 1	Heil				· · ·
	Fuel Oxy (8270)	40 MIBE	V64	, ,	· · · · · · · · · · · · · · · · · · ·			
	Other (specify)		1 ,,,					
	Critic (specify)							
	VOCs (8010 or 82	40 or 8260B)	40 ml VOA	нсі				
	TPH diesel (8015)	А)		none				
	Metals (8010)		1	į.				
	=		500 mt plastic	HNO ₃		will/	2~~~	ar.
1	Other (specify)				Signature:	10100		

4/



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: former Holland Dil	Project #: 4CE514
Job Address: 900 Central Ave. Alameda	Date: 050407
Weather Conditions: Overcast	Personnel: (W)
Equipment on site: 5mtruch sampling equipment.	
Arrival Time: 1/20	
Departure Time: 1250	
FIELD NOTES:	
·) .
1130 Bosin DTW monarmivel, prepare for	- work,
1130 Begin DTW measurements 1140 Bregin purge calculations	
1196 Bank South	
1145 Begin Sampling. 1240 Filmish " begin cheaning and	
1240 Filmish " , begin cheaning and	luatur transfer
One full drum on site	
on fan drum on site	
Signature: 4	



Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

CHAIN OF CUSTODY

MOTE: SHADED AREAS ARE FOR TORRENT LAB USE

LAB WORK URDER NO

Company Name: RRM, Inc. Address: 25-60 Soquel City: Santa Cruz Telephone: 83/475 8141 FA REPORT TO: Matt Karmp f TURNAROLIND TIME:	State: CA X: 831 475	Zip Code	:: <i>USO6</i>	Loca Purp Z Spec	ation of S pose; cial Instri	Sampling Q G uctions /	Comm	CE {	ORREI 514 人	ntlai , 90	BUSE CA	entn BE	al A	ve Ala	nied:
REPORT TO: Matt Kaemp & TURNAROUND TIME:	SAMPLER: W.	111 Ba				CES	14			826 EMAIL:	OB Matt	@ rrh	sc.com.	t labolatee	»Wysc.(
10 Work Days 3 Work Days Noon - 7 Work Days 2 - 8 Ho 5 Work Days 1 Work Day Other	urs Waste Water Ground Water	☐ Air	REPORT QC Let EDF Excel /	vel IV	Full List 8010 Lis	X THP gas XBTEX Oxygenates MTBE	Diesel Si-Gel tor Oil	Pesticide - 8081	i	sie		1		ANA	LYSIS
LAB ID CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE		ME SM III			Pog	Metals [8270 PAH	}		REMA	
MW-1 MW-3 MW-3	050407/1240 1220 1200		3	HCL VOAS		X X									
Relinquished By: Print: W.'II Ba	chan Date: 050		Time:		Receive	[M	5	150	Print:	4-		Date:	1-0	Time:	



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Kuluw	Project #: KCE514
Job Address: 900 Central for	Date: / 2 p.7
Weather Conditions: Foggy to AM. Sun to PM	Personnel: / ale / ale
Equipment on site: RRM Vehicle I soil Sympton - Louis ha	Land
Arrival Time: 0730	ectors: Nel Seco
Weather Conditions: Foggy to AM. Sun to PM Equipment on site: RRM Vehicle. Suit Sampling - logging Arrival Time: 1730 Departure Time: 1700	Exploration Geosciu.
FIELD NOTES:	
Active on site. To and in the age of the	
Mw-3) 10,43 /0745 Mw2) 10.53 /0747 Mw-1)	- Ari Conduct Suffly Muhy
Meet we sep (Concrete Lutter) from Del Secre and il	10.xx/0.799]
well (northernmut corner of Ninth st w/ being in CA	-61 ROW. ALLT OIL
well locations by but, head anyw to 41 bys to ele	15 for uplation Dell
Mw-5 first simpling continuosly. Log simples for Ir	the order of the
analysis Meet with well-spector (Victy Handle)	ACEHO CO
Stephen Plankett. Instay mw-4 is some momen as	Mus Ind
Install MW-6, logging scapes every 5 feet be	+ 11-10's
18-6 Sound; 2' Britain 4' count growt. Mea	on Otal Court De -
Caring is set. Collect composite Sumply Lon 3 de	or o
stored on site. Cosure that sidewalk work are	uns or soil cuthlys
Is gapay chared before known lite.	a librar wills are mobiled
VI TO THE TENTON OF THE TENTON	
3 .	
Signature:	



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Kuleser	Project #: KCES14
Job Address: 900 Central Arc	Date: \$29-07
Weather Conditions: Sugar	T
Equipment on site: RRM Truck tricks Samoline	puip traffic carton equip
Arrival Time: 0.730	ont institute to made some
Departure Time: 2520	23 5
•	

FIELD NOTES:

on site: locateproposed SB is set up traffic control Meet all diller and undert safety neithy sign SHOP. Det up on SBI, hard-auger to 4', dill to in location adjacod to hedge in front of apt. building. Returned noted @ 10.5-11.5 and throughour sample until = IP.5" When impact appears to be less. Doil to 26' to 58-1. Soil appear to not be impacted in springer 16' Drill step out location is street is that of SB-1. Note imposed 5:1 @ 7.5-8' 550. 11111 SB-5 a-100 14 west of 5B-4. Hit refer of @ 21' bas ACCEITS reguest, locate point Schoren dail 53.6 adjust to cop is 9th St. Dail to import or olders is sail to dept of buring. Wrop to work Clear site; but fill soil bong of out conet

Signature:

Field Data Sheet Depth to Water Data Form Site Information 082307 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. KCE514 Alameda California State NO Water Level Equipment Measured By: Electronic Indicator Oil Water Interface Probe Notes: Other (specify) First DTW Total Depth Depin to SPH SPH Thickness DTW Order (toc) or tob) Well ID Time (24:00) Total Depth (lac or tob) (doc or (ob) (toc or tob) Notes (describe SPH): 12:52 12.23 ក្នុង MW-1 18.73 12 50 11.94 #2 MW-2 18.40 2.48 11.63 #1 MW-3 18.70 1300 17.95 11.73 #5 MW-4 18.00 1304 11,56 #6 MW-5 18.0 1308 11.52 #7 MW-6 17,10 #3 RW-1 1254 11, 23 19.05 49 19.85 Total debth after development.

Signature:

win

Groundwater Sampling Form		ALE ALE
Site Information		2560 Soquel Ave. #202
900 Central Ave.	MW-1 KCE514 WeWSnmple Point ID Project Number	Santa Cruz, CA 95062 (831) 475-8141
Alameda Alameda	California	
City County	State	7049
Purge Information		
Water Level Equipment	Purge Equipment	
≦Electronic Indicator	☑Bailer ☑Diposable ☐Teflon #:	gat American
Oil Water Interface Probe	Submersible Pump; type:	
Other (specify)	Other (specify)	· (D
Purge Calculation	casing gallons per Purged B	74,44
total depth = 18.13	diameter linear, foot 0.75 in. 0.023 Purge No	name Mac:
depth to water - 12.23	1 in. 0.04	, (1-2).
linear feet of water = 6.50	2 in. 2 0.17	
gallons per linear foot X	4 in. 0.67	
gallons per casing = LL O	6 in	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
number of casings X 3	other calculate	
calculated purge = 3.32	t cubic foot = 7.48 gallons Purged D	ry?: N casta Y Sampling Delay?: N cacte Y
time gallons (24:00) (purged)	pH EC temp (units) (u's @ 25° C) (°F circle	color turbity odor (see below) (NTU or see below)
stan 1355 o		THE PART OF THE PA
volume 1 1357 1.25	6.75 157 22.6	clardy mod, strong
volume 2 /359 2.50	6,79 141 20.3	
volume 3 1401 3.50	6.80 138 19,7	i hvy
votume 4		
complete		
	-	prown, yellow heavy, moderate strong, moderate cloudy, clear light, trace stight, none
Groundwater Sampling Information		
Sample Type	Sampling Equipment	
Monitoring Well	Bailer Diposable Tellon #:	
Extraction Well	Submersible Pump; type:	
Other (specify)	Sampling Port	
Other (specify)	Other (specify)	
Sample ID Date Time (24:00)		
MW-1 082307 1410		to
	_ Sampled E	· · · · · · · · · · · · · · · · · · ·
Dupe # 12:00		name
# of Cont. Analyses (check and circle)	Container/Size Preservative Sampling I	Notes:
TPH gas (8260B)		
BTEX (8260B)	(40 mt)	
MtBE (5270)		
[HO	
Fuel Oxys, no MtBE (8270)	V9A/	
Other (specify)		
VOCs (8010 or 8240 or 8260B)	40 ml VOA HCI	
TPH dieset (8015M)	1 liter amber none	
Metals (8010)	500 ml plastic HNO ₂	
		hum -
Other (specify)	Signalure:	

Field Data Sheet Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. MW-2 Project Addings Well/Sample Point ID Alameda County Alameda California Purge Information Water Level Equipment Purge Equipment Electronic Indicator **⊈**]Bailer Diposable Tefton #: Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation casing gations per Purned By: diameter linear foot name total depth = \[\frac{\gamma}{6}, 40 \] 0.75 in. 0.023 Purge Notes: depth to water - 11.94 1 in. 0.04 linear feet of water = 6. 2 in. 0.17 gallons per linear foot X 4 in. 0.67 gallons per casing = /, to 6 in. 1.5 number of casings X other calculate calculated purge = 1 cubic foot = 7.48 gallons Purged Dry?: N cacle Y Sampling Delay?: Norde Y time ρH EC temp color turbity odor (24:00) (purged) (us @ 25°C) ("F circle("C)) (units) (see below) (NTU or see belo (see below) 340 start 25 7.18 21.5 7 non volume 1 41/1 hou 2.50 6.91 <u>2 ه. چ</u> /1 8 volume 2 4 3.50 6,83 4 82 11 valume 3 volume 4 complete brown, yellow cloudy, clear neavy, moderate agnt, trace strong, moderate slight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well Diposable **Z** Bailer Teflon #: ___ Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample ID Date Time (24:00) 1355 11W-Z 082307 Sampled By: Dupe # 12:00 лате # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: /|TPH gas (8260B)

40 h

40 mt VOA

1 liter amber

500 mf plastic

HCi

none

HNO,

Signature:



BTEX (82608)

MISE (8270)

Other (specify)

Metals (8010)

Other (specify)

TPH diesel (8015M)

Fuel Oxys, no MIBE (8270)

VOCs (8010 or 8240 or 8260B)

Groundwater	Sampling Forn	n				(A) (A)		-
Site Information					· ···=·		2560	Soquel Ave. #202
900 Central Ave	,	-	MW-3 Well/Sample Point	KCE514 Project Number			V Q≞ Santa	Cruz, CA 95062 831) 475-8141
Alameda		Alameda		California				
City		County		Stato			خسس <u>ت</u>	
Purge Information								
Water Level Equipr			Purge Equipment					
Electronic Indica				Diposable	Tellon #:			
Oil Water Interfa	•		Submersible P	ump; type:				
Other (specify) _			Other (specify)			\bigcirc		
	Purge Calculation		casing	gallons per	Purged By:	× ·		
			diameter	linear feet	-317	name		-
	rotal denth	= 18.70	0.75 in.	0.023	Owner blaten			
			0.73 "1.	0.023	Purge Notes:			
	depth to water		Fin.	0.04				
	linear feet of water	= 7.0 t	2 in.	0.17				
	gallons per linear foot	£1; v	4 in.					
·			4 81.	0.67				· · · · · · · · · · · · · · · · · · ·
	gallons per casing	_	6 in.	1.5				* · · · · · · · · · · · · · · · · · · ·
	number of casings	x <u>3</u>	other	calculate				
	calculated purge	= 3.00	1 cubic foo	t = 7.48 gallons	Purged Dry?: 1	Nicirde Y	Sampling Delay	(?: Nicitale Y
	time (24:00)	galions (purged)	pH (units)	EC (u s @ 25° C)	lemp (°F circle(°C)	color (see below)	turbity (NTU or see below	odor (see below)
start	1325	0		og filmbythe haare	garagina sa kalandari	A CHARLESTON		
	1329	1,25	7 110	1117	27 /			•
volume 1			7, 49.		23.6	grown	mod.	nou
volume 2	1331	2. SO	7.45	134	22.0	. /1	1 12	A
volume 3	1333	3.75	6.94	131	20.8	N	HUy.	и
volume 4								
complete		***			Salaka E. F			
compete			The state of the s			brown, yellow	<u> </u>	strong, moderate
						cloudy, clear	fight, trace	slight, none
Groundwater Sample	ling Information			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Sample Type			Sampling Equipment					
Monitoring Welt					Tefton #:			
Extraction Well			Submersible Pump	o; type:				
Domestic Well			Sampling Port			•		•
Other (specify)			Other (specify)					
	· · · · · · · · · · · · · · · · · · ·		_					
Sample ID	Date	Time (24:00)	1 .					
MW-3	082307	1340			Sampled By:	(2)	•	
Duna #					Complete Dy.	name		
Dupe #		12:00] _			name		
# of Cont.	Analyses (check	and circle)	Container/Size	Preservative	Sampling Notes:			
	TPH gas (8260B)	1						
	BTEX (8260B)		40 ml					
(N			/ 40 IM					
3	MIBE (8270)			HEL)				
	Fuel Oxys, no Mt	BE (8270)	VOA					
						····		
	Other (specify)							
	VOCs (8010 or 8	240 or 8250B)	40 ml VOA	нсі				· · · · · · · · · · · · · · · · · · ·
	TPH diesel (8015	M)	1 liter amber	none				
	(Metals (8010)		500 ml plastic	HNO.		. /1	· · · · · · · · · · · · · · · · · · ·	
			Job In pitistit.	111403		Uns"		
	Other (specify)				Signature:	<u> </u>		

Groundwater Sampling Form		STAT :
Site Information		
900 Central Ave. Project Address	MW-4 KCE514 West/Sample Point ID Project Number	2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141
Alameda Alame	'	
City County	State	
Purge Information		
Water Level Equipment	Purge Equipment	
Electronic Indicator	☑Bailer ゼDiposable ☐Tellon #:	
Oil Water Interface Probe	Submersible Pump; type:	
Other (specify)	Other (specify)	(C)
Purge Calculation.	casing gallons per Purged By:	
total depth = 17.	5 0.75 in. 0.023 Purge Notes:	name
depth to water - 11, 3	1 in 0.04 Devel	opmut short attacked
linear feet of water = $\frac{6}{3}$	·	
gallons per linear foot X	, , , , , , , , , , , , , , , , , , ,	
gallons per casing = $\frac{1.00}{100}$		
number of casings X / 6 calculated purge	7 rad other	
time gallo		
(24:00) (purc	1 1 1	color turbity odor (see below) (NTU or see below (see below)
volume 1		,
valume 2	evelopment Shart	<u> </u>
volume 4		
complete		
		prown, yellow neavy, moderate strong, moderate signt, trace signt, none
Groundwater Sampling Information		
Sample Type	Sampling Equipment	
Monitoring Well	Bailer Diposable Teflon #:	
Extraction Well	Submersible Pump; type:	
Domestic Well	Sampling Port	
Other (specify)	Other (specify)	
Sample ID Date Time (2	,	(3
MW-4 082307 15:	Sampled By:	<u></u>
Dupe # 12:00		name
# of Cont. Analyses (check and circle)	Container/Size Preservative Sampling Note	s:
TPH gas (82608)		
BTEX (8260B)	40 M	
MtBE (8270)	Ha	, M.
 	1 401	
Fuel Oxys, no MIBE (8270)		
Other (specify)		
VOCs (8010 or 8240 pr 626	98) 40 mt VOA HCI	
TPH diesel (8015M)	1 Ner amber Inone	
Metals (8010)	500 mt plastic HNO ₃	hur
Other (specify)	Signature:	



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date:082307 Well ID: MU-4		
		Estimated Purge: 10. 61
Station / Project #: KCE5/4	Well Material: PVC	Actual Purge: 10:25
Site Address: 900 Lentral hor.	Well Total Depth: 17.95	Well Type:
City: Alamechai	Screen Interval:	Groundwater Monitoring Well:
County / State: Alameda (A	Filter Pack Interval:	
Field Technician: W.IIB	Filter Pack Material:	Groundwater Extraction Well:
		Sparge/Dual Purpose Well:

[(16)	Well Development Method	
Submersible Pump	Bailer Surge Block / Swab	Other

Well Development Data

To Water 1. 73	To Bottom	Pumped	Total 1.00 2.00 3.00	pH 7.07 7.13 7.10	Conductivity	Temp. 24,1	Turbidity Hly	Notes
1. 73	17.95	1,00	2.00	7.13	126	21.8		
,		1.30	ļ		69		EV.	21
		·	3,00	7,10				
			<u> </u>	i	123	20.4	٤1	11
		1,00	4,00	7.03	115	20.1	н	41
		1,00	₹,∞	7,00	114	/9.9	řl	ক
		1,00	C. 00	6.96	11 55	19.7	4	и
		1,00	7.00	6.94	112	19.7	1	B
		1.00	8, 20	6.97	113	19.9	//	h
		1.25	9,25	6.95	114	17.7	t.	↓1 .
	18.00	1.50	10, 75	6.94	112 1	9.6	<i>'</i> ,	/ I
ampleo	7 1						Ø.	
	ampleo	18.00	1,00 1,00 1,25 18.00 1,50	1,00 8,00 1,00 8,00 1,25 9,25 18,00 1,50 10,75	1,00 8,00 6.94 1,00 8,00 6.97 1,25 9,25 6.95 18.00 1,50 10.75 6.94 ampled	1,00 8,00 6.94 112 1,00 8,00 6.97 113 1,25 9,25 6.95 114 18,00 1,50 10,75 6.94 112	1,00 7.00 6.94 112 19.7 1,00 8.00 6.97 113 19.9 1,25 9.25 6.95 114 19.7 18.00 1.50 10.75 6.94 112 19.6	1,00 7.00 6.94 112 19.7 1 1.25 9.25 6.95 114 19.7 11 19.00 11.25 19.25 11.25

Signature: RRM, Inc.

Gr	oundwater	Sampling Form	ŧ					
Sit	e information				· · · · · · · · · · · · · · · · · · ·			2560 Soquel Ave. #202
	900 Central Ave Project Address	3.		MW-5 Well-Sample Form	KCES14	·	PRRIVE	Santa Gruz, CA 95062 (831) 475-81-41
	Alameda		Alameda		California			
	City		County		State	·	- \ \ \(\frac{0.70\tau}{0.10\tau}\)	
Purg	ge Information							· · · · · · · · · · · · · · · · · · ·
₩ŧ	iter Level Equip	ment		Purge Equipmen	u			 -
	Electronic Indica	alor		Bailer	Diposable	Tellon #:		
	Oil Water Interfa	ace Probe		Submersible f	oump; type:			
	Other (specify))			
Г		Purge Calculation	1	***************************************		7		
		Targe Circulation		casing	gallons per	Purged By:		· · · · · · · · · · · · · · · · · · ·
			= 17.95	diameter	linear foot	4	пате	
ll				0.75 in.	0.023	Purge Notes:		# 1 /
		depth to water	11,56	1 in.	0.04	Develo	private sheet	ellecher.
		linear feet of water :	₌ 6,40	2 in.	B 0.17			
					<u>(a</u>			
		gallons per linear foot.)	1	4 in.	0.67			
		gallons per casing	<u> 1,09</u>	6 in.	1.5			
		number of casings)	c 13	other	Calculate	Content Content		,
		G	3.26/09/2	- Other	calculate			
L	···	colculated purge =	٥٠٠٠	1 cubic fee	ot = 7.48 gallons	Purged Dry?: N	l circle Y Sampli	ng Delay?: N cues Y
		time (24:00)	gallons	pH	EC	temp	color turt	oity odor
ſ			(purged)	(units)	(us @ 25°C)	(°F circle °C)	(see below) (NTU or s	ee below (see below)
5	lart	1525	0					
V	olume 1				,		1	
Y	olume 2		o /) w	Velop	ment.	She	me 1 ~	
Ţ	olume 3			T	, , , ,			
	·			- -		-		
V	olume 4							
٥	omplete							
							prown, yellow neavy, m	oderate strong, moderate
Gro	undwater Samp	ling Information	·				cloudy, clear light, t	race slight, none
San	pie Type	-		Sampling Equipment	,			
PH.	Ionitoring Well		_			Teflon#:	· .	
=	xtraction Well		ŗ	Submersible Punt		L renorra.		
ĭ₁	omestic Well		ř	Sampling Port	p. type			
	ther (specify) _		F	Other (specify)				
			L	Towner (Sheen)		=		
	Sample ID	Date	Time (24:00)					
1	4W-5	082307	1600				uo.	
~		0 0 2 307	1000			Sampled By:		
D	upe #		12:00			-	name	
# of	Cont.	Analyses (check ar	nd circle)	Container/Size	Preservative	Sampling Notes:		
		l n				Camping Hotes	•	
		TPH gas (8260B)]			
		BTEX (8260B)		40 ml				
	3	MIBE (8270)		1	Hel			
-				1 1	'-0'			
		Fuel Oxys, no MtBl	E (8270)	VOA/			THE CASE OF THE CA	
		Other (specify)						
F	7							
-		VOCs (8010 or 824	10 or 82608)	40 mt VOA	HCI			
L		TPH diesel (8015M	1)	1 liter amber	none			
		Metals (8010)				***************************************		
l ⊨				500 ml plastic	HNO,		4 M	
ĻĻ		Other (specify)	Total and constraint a great and an analysis of the state			Signature:		



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date:082307 Well ID: MU-5		I And Swittbut A
	Well Diameter: 2/1	Estimated Purge: /ð, 77
Station / Project #: KCES14	Well Material: PVC	
Site Address: Too Central Ave.		Actual Purge: 11.00
City: Alameda	Total Beptil, 17.1	Well Type:
	Screen Interval:	Groundwater Monitoring Well:
County / State: Alameda, Coh	Filter Pack Interval.	
Field Technician: WILL		Groundwater Extraction Well:
	Filter Pack Material:	Sparge/Dual Purpose Well:

Well Development Method

	****	2 Ivanous tive there	
Culture and the re-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Submersible Pump	Bailer V	C	
		Surge Block / Swab	Other
	7.7	D	Outer

1525

Well Development Data

TIME	D	ЕРТН	GAL	LONS	- Copmen		EASUREN	TENTS	
Start	To Water	To Bottom	Pumped	Total	Hlq	Conductivity		Turbidity	Notes
1530	11.56	17.85	1.00	1,00	6.88	121	21.5	#11/2.	huodin
1532			1.25	2.25	6,84	117	20.7	41	(i
534			1.25	3,50	€,84	114	26.4	‡1	ч
1537			1.00	4.50	6.86	109	20.3	и	ч
<i>539</i>			1.00	5.50	6.84	107	20.3	A	* 1
1541			1.00	6.50	6.85	105	20.3	И	и
1544			1,25	7.75	6.87	_103	20.3	11	11
1546			1.00	8.75	6.83	150	20.3	Į (k
1548			1.25	10.00	5.87	100	20.4	11	41
1550	1630	18,00	1,00	11.∞	6.89	99	20.4	1.1	ζl
''où	Saypheb	l							

Signature:

RRM, Inc.

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 900 Central Ave. Santa Cruz, CA 95062 KCE514 Project Number MW-6 (831) 475-8141 Project Address Alameda Alameda California City Purge Information Water Level Equipment Purge Equipment Electronic Indicator 77) Bailer Diposable Tellon #: Oil Water Interface Probe Submersible Pump; type: Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: diameter anear foot total depth = 17,10 0.75 in. 0.023 Purge Notes: depth to water - 11.52 1 in. 0.04finear feet of water = 5.5% 2 in. 0.17gallons per linear foot X 11 4 in. 0.67 gallons per casing = 0.95 6 in. 1,5 number of casings X 1 other calculate calculated purge = Z 1 cubic foot = 7.48 gallons Purged Dry?: Nic Sampling Delay?: Nerde Y galtons time temp turbity odor (24:00)(purged) (us @ 25° C) (units) (°F circle °C) (see below) (NTU or see below (see below) 1 600 start volume 1 volume 2 volume 3 volume 4 complete prown, yesow cloudy, clear neavy, moderate light, trace strong, moderate stight, none Groundwater Sampling Information Sample Type Sampling Equipment Monitoring Well **⊠**Bailer Diposable Teflan #: ___ Extraction Well Submersible Pump; type: _ Domestic Well Sampling Port Other (specify) Other (specify) Sample 10 Time (24:00) 082307 1615 MW-C Sampled By: Dupe # # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) Втех (8260В) 40 mi 3 MIBE (8270) Fuel Oxys, no MtBE (8270) VOÁ Other (specify) VOCs (8010 or 8240 or 8260B) 40 ml VOA HÇI TPH diesel (8015M) i liter amber none Metals (8010) 500 ml plastic HNO₃ Other (specify) Signature:



Well Development Form

General Information

Well Construction Information

Weil Development Summary

Date: 082307 Well ID: 444 C	1	ou Development Summary
(101111)	The state of the s	Estimated Purge: 9.54
Station / Project #: KCES:44	Well Material: PUC.	Actual Purge: ~ 4 cd
Site Address: 900 central Avr	Well Total Depth: 17.10	1 760 ,
City: Alameda.	Screen Interval:	Well Type:
Committee (C)		Groundwater Monitoring Well:
Field Tooksisis	Filter Pack Interval:	Groundwater Extraction Well:
Field Technician: Will B	Filter Pack Material:	
8		Sparge/Dual Purpose Well:

1	With the state of	
	Submersible Pump Bailer Surge Block (Sund	
1	Bailer Surge Block / Swab	Out.
	Surgo Brock / Swall	Other

1600

TIME	DE	DTT	, T	Well Deve	lopment	Data			
		PTH	GAL	LONS			CASUREN	IENTS	
Ştart	To Water	To Bottom	Pumped	Total	Нq	Conductivity	Temp.	Turbidity	Notes
1605	11.52	17,10	1.00	1.00	6.78	130	24.1	mud.	noudon
1607			400	200	6.80	121	22,2	hy.	, 1
1609			1,00	3,00	6.89	121	21.7	ιŧ	s.A.
1604		17.90	1.00	4.00	6.98	120	21.3	11	3/
	well p	zed d	ry ab	~ 4,00					•
1615	Sample	1.							-
_									
		G							

Signature: RRM, Inc.

Groundwater Sampling Form Site Information 2560 Soquel Ave. #202 Santa Cruz, CA 95062 (831) 475-8141 900 Central Ave. KCE514 Project Number Project Address Welt/Sample Foot (D Alameda Alameda California Purge Information Water Level Equipment Purge Equipment Electronic Indicator Bailer Bailer Diposable Teflon #: Oil Water Interface Probe Other (specify) Other (specify) Purge Calculation casing gallons per Purged By: dameter linear foot total depth = /9,05 0.75 in. 0.023 depth to water - 11. 23 1 in. 0.04 linear feet of water = 4.62 2 in. 0.17 gallons per linear foot X _ • 6 -7 4 in. 0.67 gallons per casing = 5.24 6 in. 1.5 number of casings, X other calculate calculated purge = 1 cubic foot = 7.48 gations Purged Dry?: Nicirde Y Sampling Detay?: Norde Y time gations EC temp color turbity odar (24:00)(purged) (units) (us @ 25° C) (°F circle °C) (see below) (NTU or see below (see below) 1410 start volume 1 volume 2 c emutay volume 4 complete strong, moderate slight, none brown, yellow cloudy, clear neavy, moderate Groundwater Sampling Information Sample Type Sampling Equipment Monitoring West Bailer Diposable Tellon #: ___ Extraction Welf Submersible Pump; type; _ Dother (specify) Lecovery Well Domestic Well Sampling Port Other (specify) _ Sample ID Time (24:00) RW-1 1540 082*30*7 Sampled By: Dupe # 12:00 # of Cont. Analyses (check and circle) Container/Size Preservative Sampling Notes: TPH gas (8260B) BTEX (8260B) MtBE (8270) Fuel Oxys, no MtBE (8270) Other (specify) VOCs (8010 or 8240 or 8260B) 40 mil VOA HCI TPH diesel (8015M) f liter amber none Metals (8010) 500 ml plastic HNO, Other (specify) Signature:



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: 072307 Well ID: 11W-1		di orolyment mattiliui à
	Well Diameter: 4"	Estimated Purge: 52.39.
Station / Project #: KCF514	Well Material: PVc.	Actual Purge: 52.50
Site Address: 500 certifal Ave.	Well Total Depth: 19,05	Well Type: Recorry Well
City: Aleunda	Screen Interval:	Groundwater Monitoring Well:
County / State: A / almeda / CA	Filter Pack Interval:	
Field Technician: WIII B.	Filter Pack Material:	Groundwater Extraction Well:
		Sparge/Dual Purpose Well:

Well Development Method

		F-100 T-1-X-1-11-0-0	
Submersible Pump	D - 31		
- defineratore runip	Bailer	Surge Block / Swab	Other
	· ——	~ 60 D10010 D11100	Other
			

Well Development Data

TIME	DI	EPTH		LONS			EASURE	ACNTO.	
Start	To Water	To Bottom	Pumped	T	pН	Conductivity		Turbidity	Notes
1410	11.23		5.25	5.25	6,38	199	23.5	Huy.	string adol
1414			E. 25	10.50	6.68	186	21.1	11	med odos
1417	17.20		5.25	15.75	6.85	175	19.8	()	1
1420			5,25	21.00	1.83	172	19.7	1)	strungador
1423	18.80		5.25	26.25	6.85	161	17.9	દા	A
1426			5.25	31.50	6.84	160	17.8	и	ii .
1429	19.10	17.80	3.2.5	36.75	6.82)55	19.9	mod.	I s
1432			3.25	42.00	6.92	155	19.9	11	''
1435	19.12		5.25	47.25	6.81	151	19.9	11	
1438		19.85	5.25	52,50	6.79	147	20.0	1:9 lit	11
150	Samples	1.							

Signature:



2560 SOQUEL AVENUE, SUITE E SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249

FIELD DATA SHEET

Client: Flolland 6+	Project #: KCF514
Job Address: 900 Central Ar / Alamed-	Date: 082307
Weather Conditions: Cleans Whit	D
Equipment on site: Fruch sampling equipoline	N-
Departure Time: /635	
FIELD NOTES:	
Inspect streamd cover of well:	s apour annied.
1220 BESTY DTW MUSSWANSENDE	
Pase to get : ce.	
1245 Begin DTW newswetherts	
1310 Begin DE punge calculation,	
1325 Begin Scarpling-	
1325 Besin Sampling. 1620 Filmigh " and developing wells b	esily chean in and water trapter
Drums: 6 soil and 2 nater on si	he he
	4
	11.2100
Signature	: -00

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WELL CONSTRUCTION AND BORING LOGS AND SURVEY DATA

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WELL/BORING LOC/	ATION MAP	Remedia	ation Risk	Management, Inc. WELL/BORING: 92-2
₩	DA1			DRILLING METHOD:
	PRO	DJECT:		SAMPLING METHOD:
	CLI	ENT:		BORING DIAMETER:
	LOC	ATION:		BORING DEPTH:
	CIT	′ :		WELL CASING:
	co.	STATE:		WELL SCREEN:
	DRII	LLER:		SAND PACK:
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WELL/BORING LOCATION MAP PARTIES 19-90 DATE: 5-9-07 PROJECT: Y-0-5-14 SAMPLING METHOD: (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	WELL	/BORI	NΩ	IΩ	CA1	TION M	AP	1		or-	avi.	atio-	Diel-	Management, Inc. WELL/BORING: SB-H
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WELL/BORING LOCATION MAP Remediation Risk Management, Inc. WELL/BORING: RW-1 CEMBAL AVE 洲 DATE: 8/3-07 DRILLING METHOD: HSA PROJECT: ECESTY SAMPLING METHOD: 95 CLIENT: **BORING DIAMETER:** LOCATION: 900 Central Ave **BORING DEPTH:** WELL CASING: CO./STATE: Alanecle WELL SCREEN: DRILLER: SAND PACK: EXPL GEO MOISTURE FIELD TEST PID (ppm) RECOVERY SWPLE INTERNAL WATER LEVEL: 1138 SAMPLE DEPTH (FEET) WELL/BORING COMPLETION TIME: 1033 DATE: 8-13-07 DESCRIPTIONLOGGED BY: Townson See by for SB-1 de 16 BIA TO WEIGH Cart. 748 /wit-2000 200 *{\$ 1* 1850 BW-1 20 20 0404

WELL/BORING LOCATION MAP									Remediation Risk Management, Inc. WELL/BORING: MW-4									
NEA CA-61									DATE: 6-20-07 DRILLING METHOD: HSA									
									PROJECT: KUES14 SAMPLING METHOD: 54									
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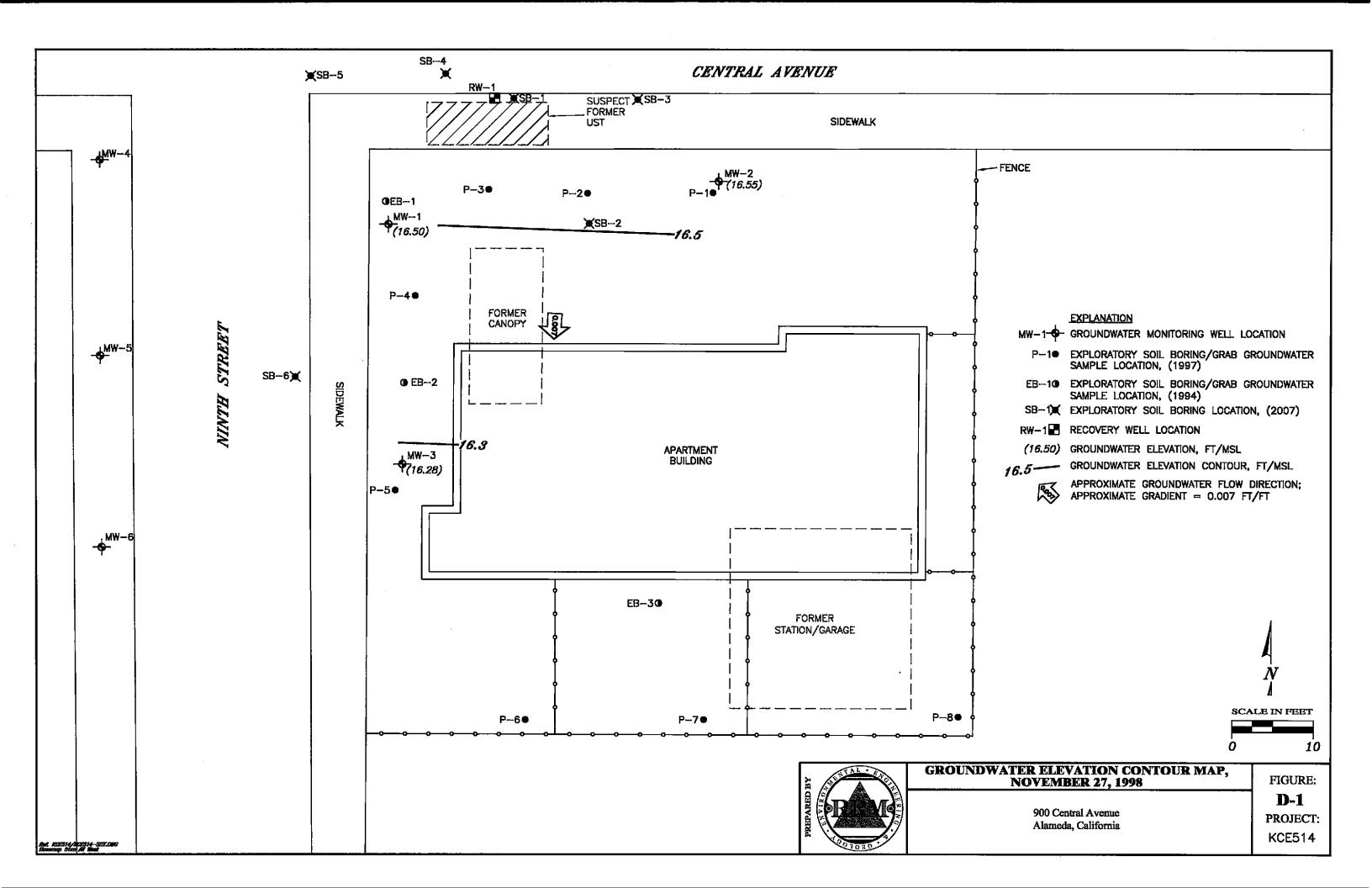
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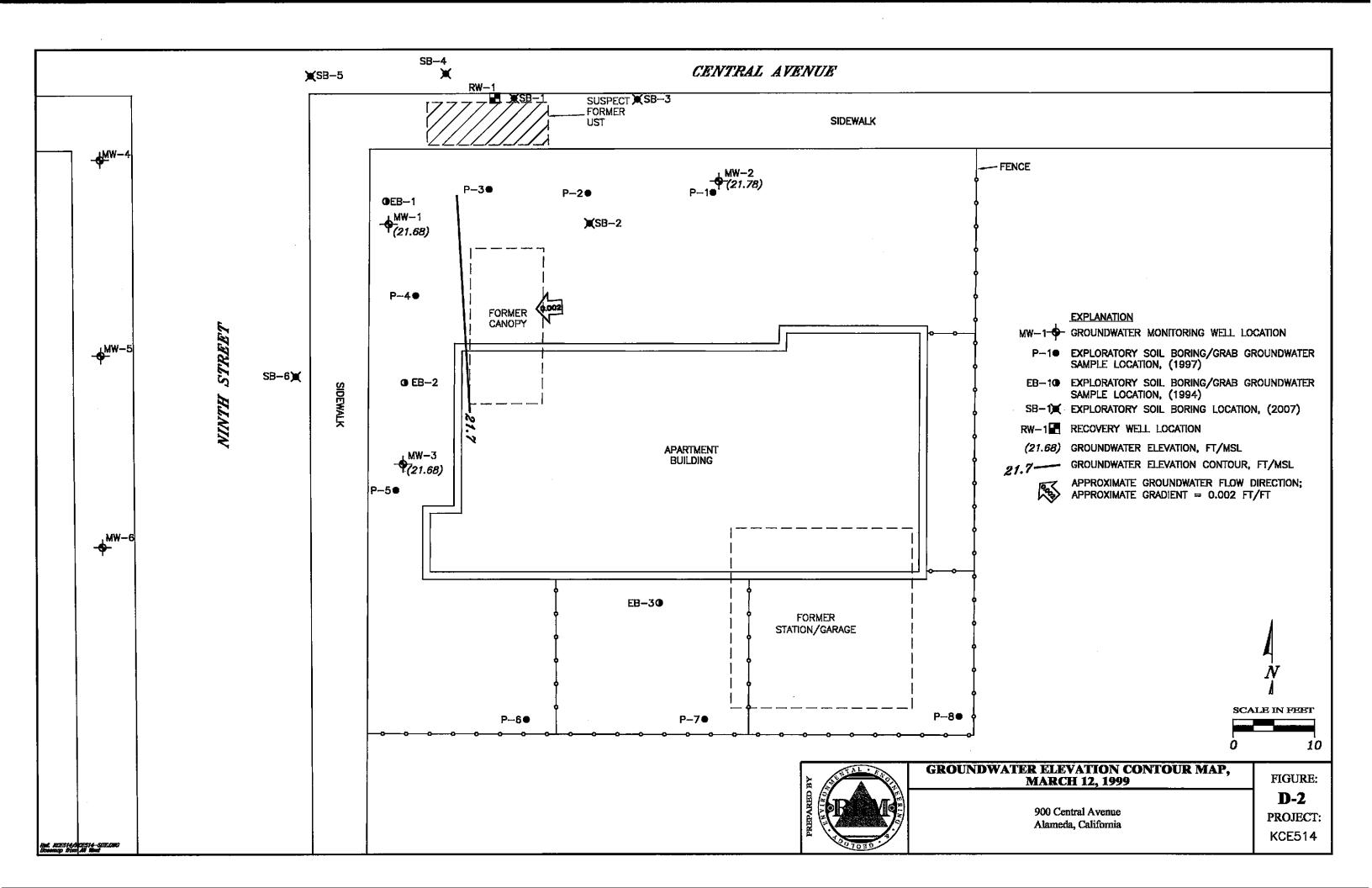
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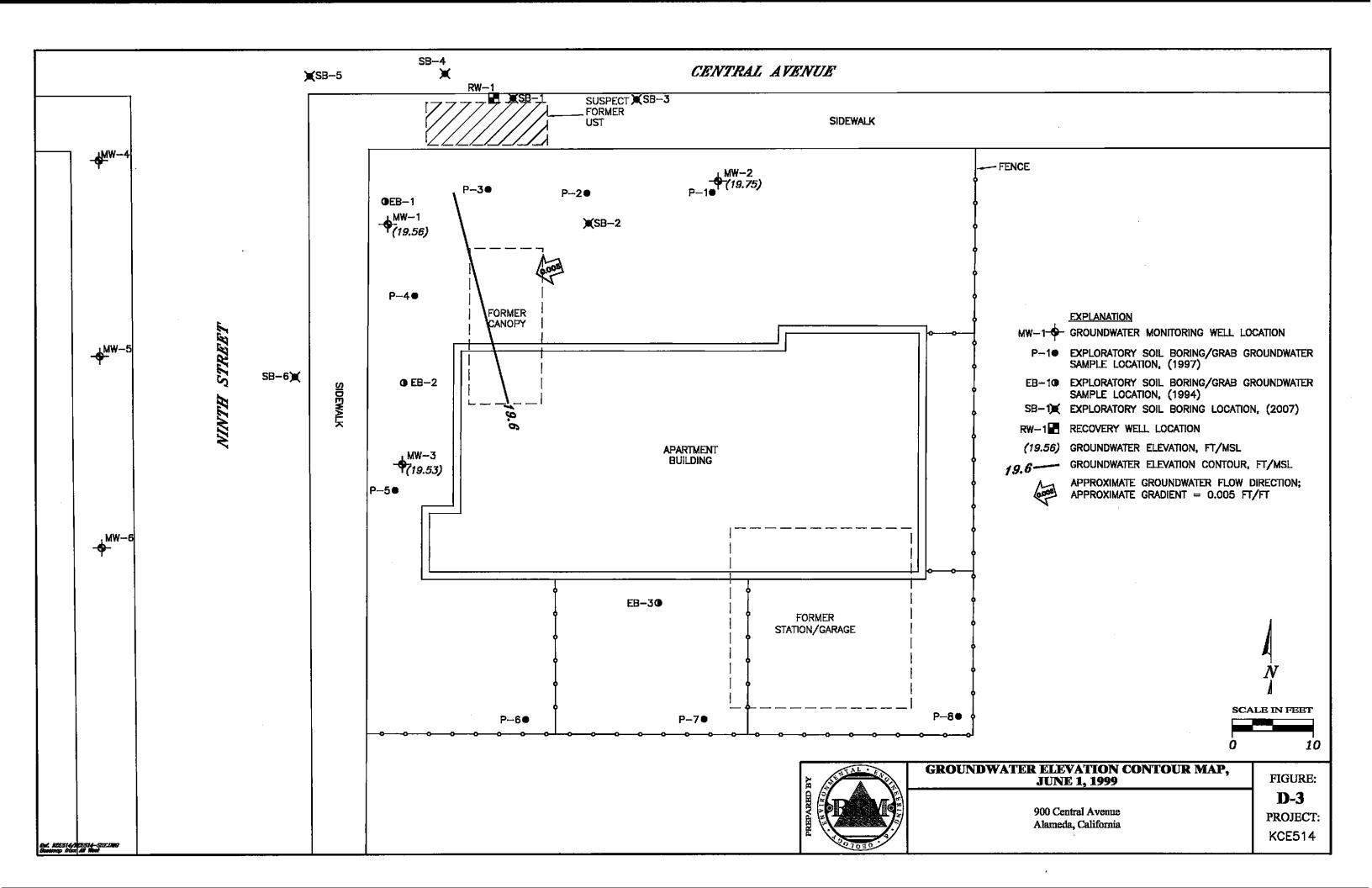
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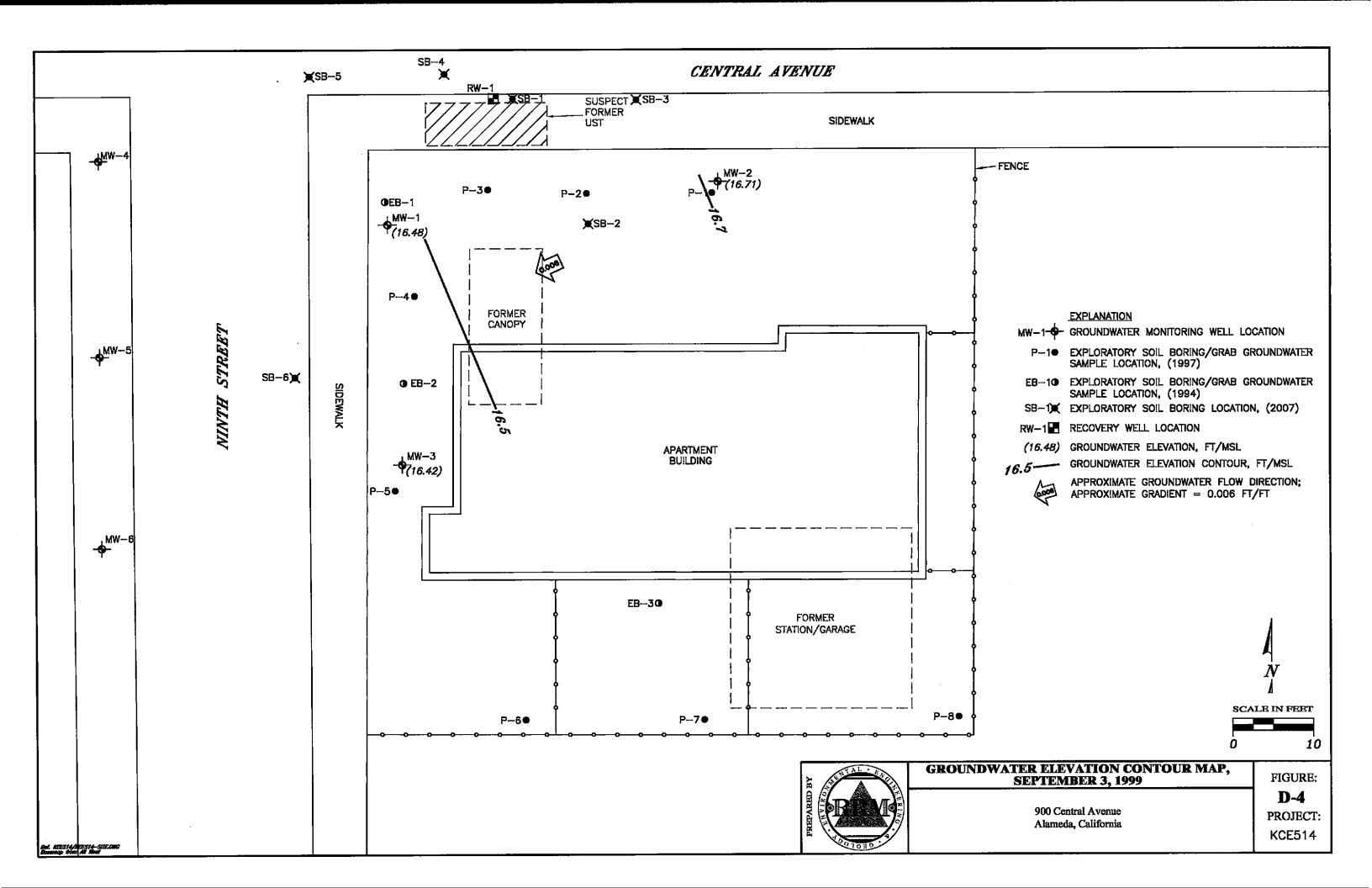
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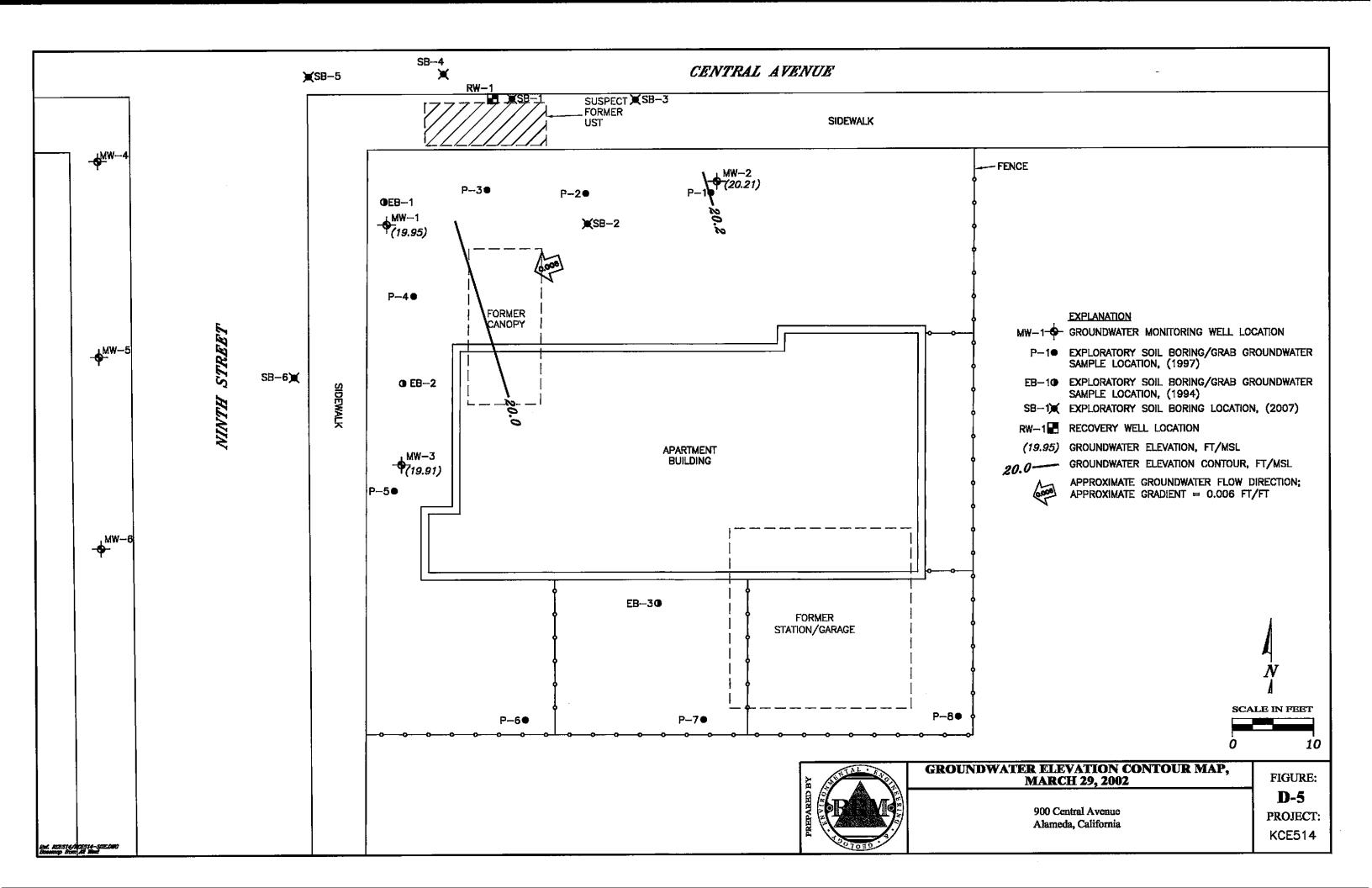
HISTORICAL GROUNDWATER ELEVATION CONTOUR MAPS

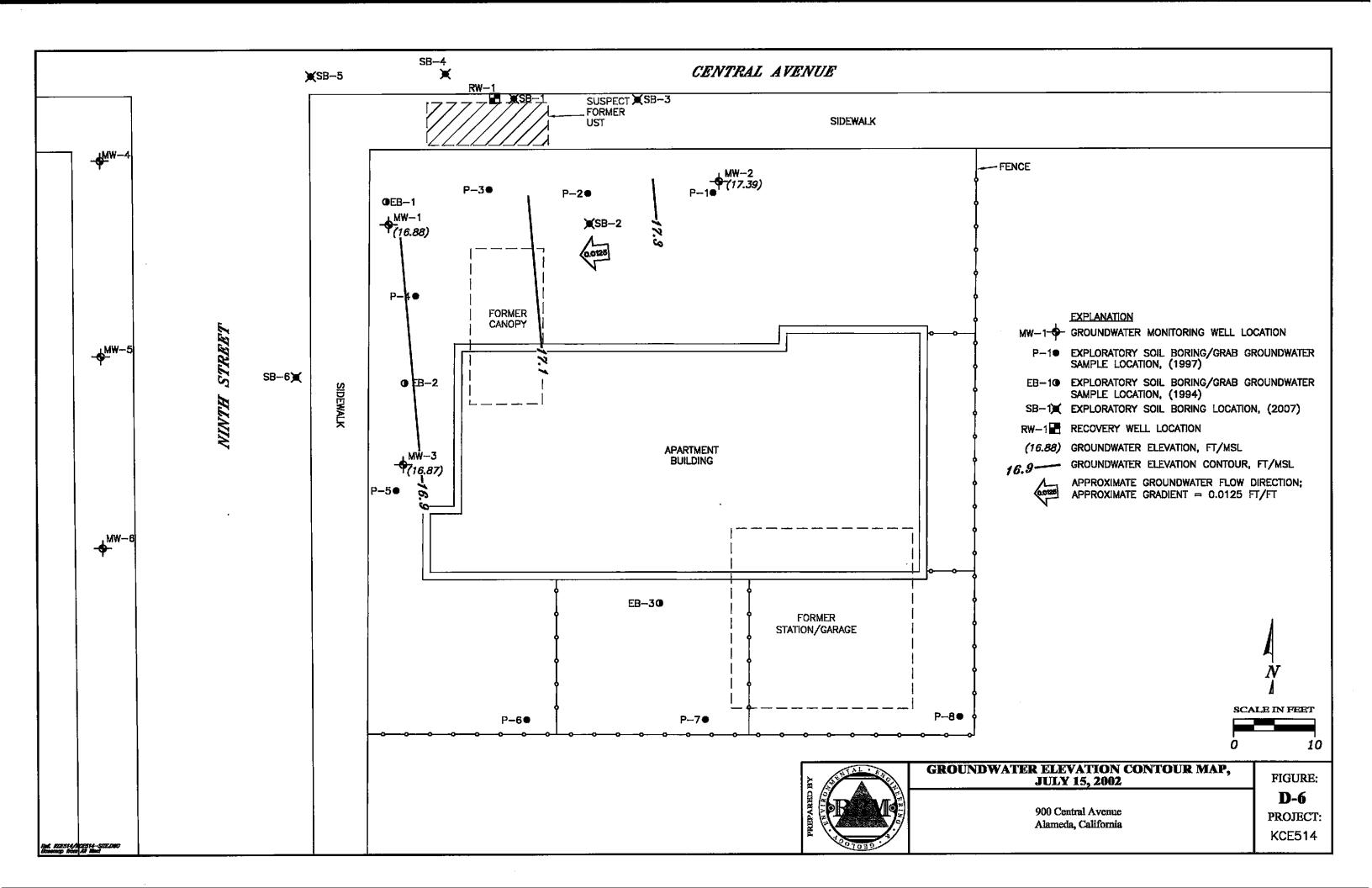


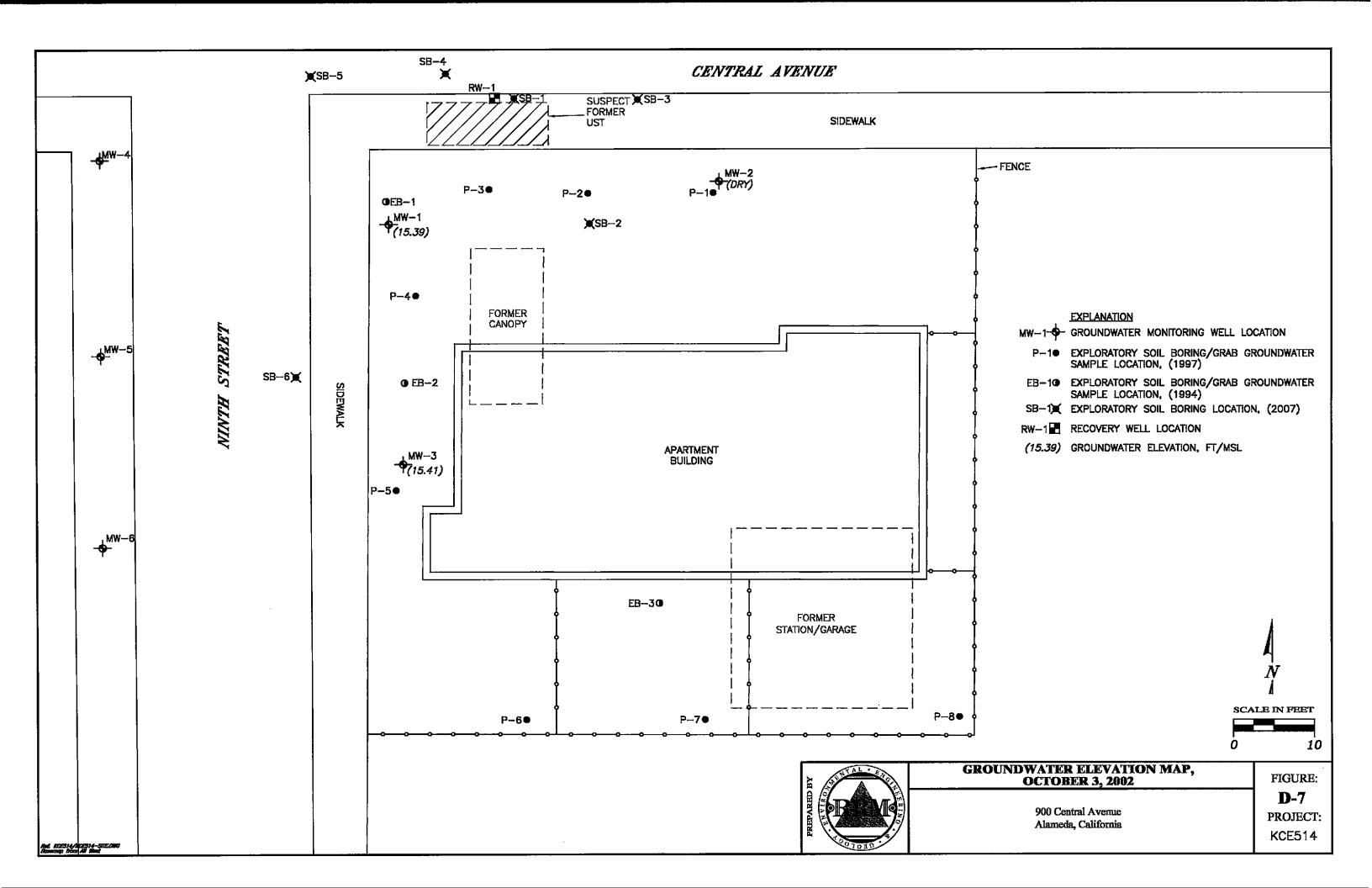


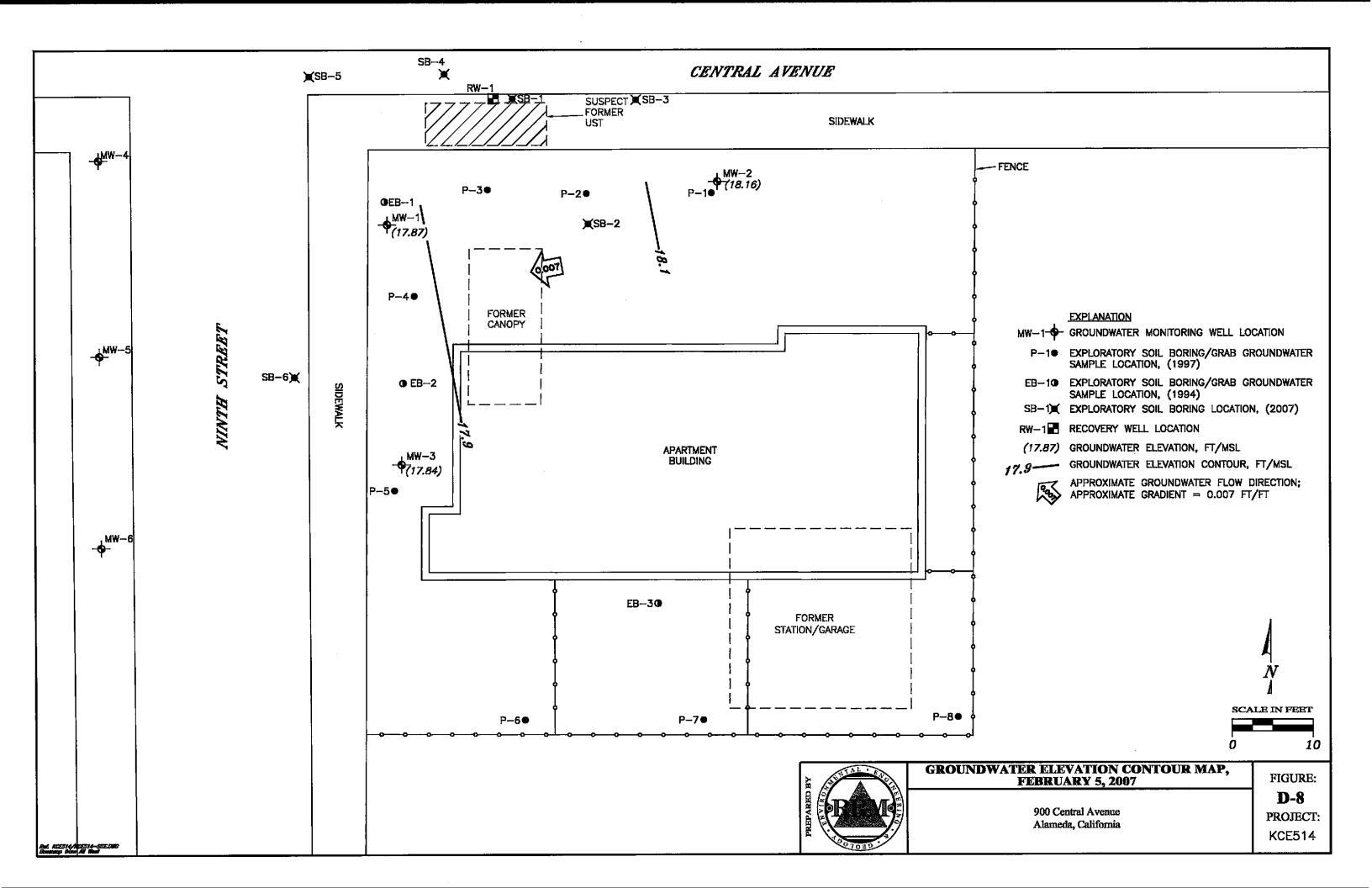












CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

<u>Entech Analytical Labs, Inc.</u>

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:

Matrix

Test / Comments

Solid

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

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 responibility 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

C. L. Thom

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#: 56754-001	Sample ID: SB-1-7.5			I	Matrix: Solid	Sample l	Date: 8/9/2007	8:50 AM
TPH-Purgeable - GC: EPA Parameter	5030B (or 5035A for Encor Result Qual	_	only) / EPA 8015B 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 (%)			Analyzed by: JAbidog		
4-Bromofluorobenzene	126	65	- 135			Reviewed by: EricKum		
VOCs by GC: EPA 5030B	(or 5035A for Encore Sampl	es only)/E	PA 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 (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	102	65	- 135				Reviewed by: EricK	ium

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Reviewed by: EricKum

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#: 56754-002	Sample ID: SB-1-12	Matrix: Solid	Sample Date: 8/9/2007	9:00 AM
242 50,51,662	Sumple ID: SB 1-12	Matrix. Solid	Sample Date: 0/7/2007	7.00 /1141

TPH-Purgeable - GC: EPA	5030B (or 5035A for E	ncore	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 1	Limits (%)				Analyzed by: JAbi	dog
4-Bromofluorobenzene	358 ***		65 -	135				Reviewed by: Erici	Kum
*** Surrogate % recovery	vis out of QC limits due to	o sam	ple matrix	interference.		•		-	

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

TO CO Dy OC. LI M DOOD	for sossiving purchase	sampic:	, our , // 22	AL OUZ I D					
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	7	Control	Limits (%)				Analyzed by: JAbi	dog
4-Bromofluorobenzene	108		65 -	- 135				Reviewed by: Eric	Kum

135

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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 #: 56754-003	Sample ID: SB-1	-16			1	Matrix: Soli	d Sample l	Date: 8/9/2007	9:24 AM
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Result	Encore Qual	Samples D/P-F	only) / EPA 8015B 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	y	Control	Limits (%)				Analyzed by: JAbi	dog
4-Bromofluorobenzene	107		65 -	- 135				Reviewed by: Eric	Kum
VOCs by GC: EPA 5030B	(or 5035A for Encore 5	Sample	s only)/El	PA 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	y	Control	Limits (%)		Management of Colors and Colors a		Analyzed by: JAbi	dog
4-Bromofluorobenzene	109		65 -	- 135				Reviewed by: Eric	Kum ,

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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 #: 56754-004	Sample ID: SB-1-2	20		I	Matrix: Soli	id Sample I	Date: 8/9/2007	9:31 AM
TPH-Purgeable - GC: EPA Parameter		ncore Samples Qual D/P-F	only) / EPA 8015B 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 4-Bromofluorobenzene	Surrogate Recovery 91.1		Limits (%) - 135				Analyzed by: Jabido Reviewed by: Erick	·
1100 L 00 PR : ****								
VOCs by GC: EPA 5030B Parameter	(or 5035A for Encore Sa Result (amples only)/El Qual D/P-F	PA 8021B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
				Units mg/Kg	Prep Date	Prep Batch	Analysis Date 8/17/2007	
Parameter	Result (Qual D/P-F	Detection Limit			<u>_</u>	····	
Parameter Benzene	Result (Qual D/P-F 1.0	Detection Limit 0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Parameter Benzene Toluene	Result (ND ND	Qual D/P-F 1.0 1.0	0.010 0.010	mg/Kg mg/Kg	N/A N/A	N/A N/A	8/17/2007 8/17/2007	SGC070817 SGC070817

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Reviewed by: EricKum

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 #: 56754-005	Sample ID: SB-1-	-24			I	Matrix: Solid	Sample l	Date: 8/9/2007	9:40 AM
TPH-Purgeable - GC: EPA	5030B (or 5035A for I	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 (%)							Analyzed by: JAbid-	og
4-Bromofluorobenzene	92.1		65	- 135		•		Reviewed by: EricK	ເພn
VOCs by GC: EPA 5030B	(or 5035A for Encore S	ample	es only)/El	PA 8021B					
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Đate	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 (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	95.6		65	- 135				Reviewed by: EricK	ហា

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Analyzed by: JAbidog

Reviewed by: EricKum

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

Surrogate Recovery

93.5

Surrogate

4-Bromofluorobenzene

Samples Received: 08/15/2007

Sample Collected by: Client

Lab #: 56754-006	Sample ID: SB-2-8]	Matrix: Solid	Sample l	Date: 8/9/2007	11:13 AM
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Enco Result Qua	-	only) / EPA 8015B 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 (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	91.2	65	- 135				Reviewed by: EricK	um
VOCs by GC: EPA 5030B	(or 5035A for Encore Samp	les only)/E	PA 8021B					
Parameter	Result Qua		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

Control Limits (%)

65 - 135

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Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

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

					ى	ample Collect	ed by. Chem		
Lab #: 56754-007 S	ample ID: SB-2	-11.5			I	Matrix: Solid	Sample l	Date: 8/9/2007	11:30 AM
TPH-Purgeable - GC: EPA 50 Parameter	030B (or 5035A for 1 Result	Encore Qual	Samples D/P-F	only) / EPA 8015B 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	7	Control	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	93.5		65	- 135				Reviewed by: Erick	um
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		0.1	10	mg/Kg	8/30/2007	SD070830A	8/31/2007	SD070830A
TPH as Mineral Spirits (Stoddar	rđ) 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	7	Control	Limits (%)				Analyzed by: JHsian	g
n-Hexacosane	73.8		50	150				Reviewed by: mtran	•
VOCs by GC: EPA 5030B (or	5035A for Encore S	Sample	s only)/El	PA 8021B					
Parameter		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: JAbide	og
4-Bromofluorobenzene	97.9		65 -	135				Reviewed by: EricK	wn

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Analyzed by: Jabidog

Reviewed by: EricKum

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

Attn: Matt Kaempf

Surrogate

4-Bromofluorobenzene

Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Surrogate Recovery

103

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

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Lab#: 56754-008	Sample ID: SB-2	-16			I	Matrix: Solid	Sample 1	Date: 8/9/2007	11:40 AM
TPH-Purgeable - GC: EPA	A 5030B (or 5035A for I	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 (%)				Analyzed by: Jabido	g
4-Bromofluorobenzene	90.3		65	135				Reviewed by: EricK	um
VOCs by GC: EPA 5030B	(or 5035A for Encore S	Sample:	s only)/El	PA 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

Control Limits (%)

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Reviewed by: EricKum

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

95.6

4-Bromofluorobenzene

Samples Received: 08/15/2007

Sample Collected by: Client

Lab #: 56754-009	Sample ID: SB-2-20				Matrix: Solid	Sample l	Date: 8/9/2007	11:50 AM
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Enco Result Qua	-	only) / EPA 8015B 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 4-Bromofluorobenzene	Surrogate Recovery 87.1		Limits (%) - 135				Analyzed by: JAbid Reviewed by: EricK	_
VOCs by GC: EPA 5030B Parameter	(or 5035A for Encore Samp Result Qual		PA 8021B 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 (%)				Analyzed by: JAbide	og

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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

	*				ampie cone.	cica cy. enem		
Lab #: 56754-010	Sample ID: SB-2-2	24		1	Matrix: Sol	id Sample l	Date: 8/9/2007	12:05 PM
TPH-Purgeable - GC: EPA Parameter		core Samp ual D/P-	= :	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	Contr	ol Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	88.6	65	- 135				Reviewed by: Erick	Cum
VOCs by GC: EPA 5030B								
Parameter	Result Q	ual 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	Contr	ol Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	91.6	65	- 135				Reviewed by: Erick	Lum

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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				1	Matrix: Solid	Sample l	Date: 8/9/2007	1:10 PM
TPH-Purgeable - GC: EP/ Parameter			nples /P-F	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	i	1.0	0.50	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Surrogate	Surrogate Recovery	Cor	ntrol I	Limits (%)				Analyzed by: JAbide	og
4-Bromofluorobenzene	85.0	6	55 -	135				Reviewed by: EricK	um
VOCs by GC: EPA 5030B	(or 5035A for Encore San	nples on	ly)/EF	A 8021B					
Parameter	Result Q	ual D/	P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	I	0.1	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Toluene	ND	ı	0.1	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Ethyl Benzene	ND	1	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817
Xylenes, Total	ND	1	1.0	0.010	mg/Kg	N/A	N/A	8/17/2007	SGC070817

Surrogate Recovery Analyzed by: JAbidog Surrogate Control Limits (%) 4-Bromofluorobenzene 92.7 65 - 135 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#: 56754-013	Sample ID: SB-3-12	Matrix: Solid	Sample Date: 8/9/2007	1:15 PM
TPH-Purgeable - CC+ FP	A 5030R (or 5035A for France Samples only) / FRA 9015D			

				-	, Ideli iii.	io Sumpici		1.10 1 1/1
TPH-Purgeable - GC: EPA Parameter	. 5030B (or 5035A for Encor Result Qual	-	only) / EPA 8015B 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 (%)				Analyzed by: JAbid	log
4-Bromofluorobenzene	83.4	65 -	- 135				Reviewed by: Erick	Kum
VOCs by GC: EPA 5030B	or 5035A for Encore Sample	es only)/E1	PA 8021B					,
Parameter	Result Qual	-	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 (%) Analyzed by: JAbidog 4-Bromofluorobenzene 89.4 65 - 135 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 #: 56754-014	Sample ID: SB-3	-16			1	Matrix: Solid	Sample l	Date: 8/9/2007	1:30 PM
TPH-Purgeable - GC: EPA	A 5030B (or 5035A for I	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 (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	85.4		65	135				Reviewed by: Erick	Lum
VOCs by GC: EPA 5030B	(or 5035A for Encore S	Sample	s only)/El	PA 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 (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	92.9		65 -	135				Reviewed by: Erick	lum

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2:00 PM

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

Sample Date: 8/9/2007

GlobalID: T0600102089

Matrix: Solid

Certificate of Analysis - Data Report

Sample ID: SB-4-8

Lab #: 56754-016

Samples Received: 08/15/2007

Sample Collected by: Client

Lab # . 50/54-010 Salit	pic 1D. 3D-4-6				Matrix: 301	o Sample i	Date: 0/3/4007	2,00 FWI
VOCs: EPA 5030B (or 5035A for 1	Encore Samples on	ly)/EPA 826	0B					
Parameter	Result Qu	al 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	to	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/Кg	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/Кg	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/Кg	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/Кg	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

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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

					ampie concen			
Lab #: 56754-016	Sample ID: SB-4-8			I	Matrix: Solid	Sample I	Date: 8/9/2007	2:00 PM
VOCs: EPA 5030B (or 50.	35A for Encore Samples only).	EPA 8260)B					
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	ug/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	μ g/K g	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 ND	10	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Trichloroethene	ND	10	50	μg/Κg	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/Кg	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.

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

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Toluene-d8

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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

					2	ampie Collec	ted by: Chent		
Lab#: 56754-016	Sample ID: SB-4	-8_				Matrix: Soli	d Sample I	Date: 8/9/2007	2:00 PM
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for l Result	Encore Qual	e Samples D/P-F	only) / EPA 8015B 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 (%)			2.11 V 90-0-1	Analyzed by: JAbid	log
4-Bromofluorobenzene	107		65	- 135				Reviewed by: Ericl	Kum
TPH-Purgeable - GC/MS:	EPA 5030B (or 5035A	for En	core Sam	ples 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	7	Control	Limits (%)				Analyzed by: MaiC	hiTu
4-Bromofluorobenzene	101		60	- 130				Reviewed by: TFul	ton
Dibromofluoromethane	99.0		60 -	- 130					
Toluene-d8	108		60 -	- 130					
TPH-Extractable: EPA 354	45A / 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 (Stoo	ddard) 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	7	Control	Limits (%)				Analyzed by: JHsia	ng
n-Hexacosane	73.1		50	- 150				Reviewed by: mtra	n
VOCs by GC: EPA 5030B	(or 5035A for Encore 5	Sample	es only)/El	PA 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	γ .	Control	Limits (%)	5° 55			Analyzed by: JAbio	log
4-Bromofluorobenzene	100			- 135				Reviewed by: Ericl	Kum

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Project Name: KCE514

Project Location: 900 Central Ave. Alameda, CA

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Certificate of Analysis - Data Report

Samples Received: 08/15/2007

Sample Collected by: Client

Lab #: 56754-018	Sample ID: SB-5-8			I	Matrix: Soli	id Sample l	Date: 8/9/2007	3:10 PM
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Enc Result Qu	=	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	0.1	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate 4-Bromofluorobenzene	Surrogate Recovery 86.8	65	Limits (%) - 135				Analyzed by: JAbid Reviewed by: Erick	•
VOCs by GC: EPA 5030B Parameter	(or 5035A for Encore Sam Result Qu		PA 8021B 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 1	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	93.2	65 -	135				Reviewed by: EricK	um

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

				13	ample Collecte	a by. Chem		
Lab #: 56754-019 Sam	ple ID: SB-5-10.	5		ľ	Matrix: Solid	Sample I	Date: 8/9/2007	3:20 PM
VOCs: EPA 5030B (or 5035A for Parameter	Encore Samples only Result Qual		B 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-Dichlorobenzenc	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 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 μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,3-Dichlorobenzene	ND	1.0	5.0	μg/Кg μg/Кg	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 μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
1,4-Dioxane	ND	1.0	200	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2,2-Dichloropropane	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2-Butanone (MEK)	ND	1.0	40	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
2-Chloroethyl-vinyl Ether	ND	1.0	5.0	μg/Kg μg/Kg	N/A	N/A	9/5/2007	SM3E070903E
2-Chlorotoluene	ND	1.0	5.0		N/A	N/A	9/5/2007	SM3E070903E SM3E070905E
2-Hexanone	ND ND	1.0	3.0 40	μg/Kg	N/A N/A	N/A N/A	9/5/2007	SM3E070905E
4-Chlorotoluene	ND	1.0		μg/Kg		N/A	9/5/2007	
4-Methyl-2-Pentanone(MIBK)	ND ND	1.0	5.0 40	μg/Kg	N/A			SM3E070905E
Acetone	ND ND			μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Acetonic	ND ND	1.0	100	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Acrolein		1.0	40	μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
-	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 Benzel Chleride	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

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

VOCs: EPA 5030B (or 5035A for Parameter	•	• .	A 0200)/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	OC Batch
							T		· · · · · · · · · · · · · · · · · · ·
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/Кg	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
Freen 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/Кg	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/Кg	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 μg/Kg	N/A	N/A	9/5/2007	SM3E070905E
Xylenes, Total	ND ND		1.0	10	μg/Kg 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 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

•					Sample Collected by: Client				
Lab #: 56754-019	Sample ID: SB-5	-10.5			1	Matrix: Solid	Sample l	Date: 8/9/2007	3:20 PM
TPII-Purgeable - GC: EPA : Parameter	5030B (or 5035A for Result	Encore Quai	Samples D/P-F	only) / EPA 8015B 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 4-Bromofluorobenzene	Surrogate Recovery 88.1	,	Control 1	Limits (%)				Analyzed by: JAbio	
TPH-Purgeable - GC/MS: E	PA 5030B (or 5035A	for En	core Sam	ples 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			hiTu
4-Bromofluorobenzene	98.8		60	130	Reviewed by: TFulton			ton	
Dibromofluoromethane	100		60 -	130					
Toluene-d8	106		60 -	130					
TPH-Extractable: EPA 3545	SA / 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 (Stodd	lard) 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: JHsia	ng
n-Hexacosane	77.3		50 -	150				Reviewed by: mtra	1
VOCs by GC: EPA 5030B (o	or 5035A for Encore 5	Sample	es only)/El	A 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: JAbid	log
4-Bromofluorobenzene	96.6		65 -	135		•		Reviewed by: Erick	Cum

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Analyzed by: JAbidog

Reviewed by: EricKum

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

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GlobalID: T0600102089

Certificate of Analysis - Data Report

Surrogate Recovery

98.6

Surrogate

4-Bromofluorobenzene

Samples Received: 08/15/2007

Sample Collected by: Client

Lab#: 56754-021	Sample ID: SB-6-8			1	Matrix: Soli	id Sample l	Date: 8/9/2007	3:48 PM
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Encor Result Qual	-	only) / EPA 8015B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND ND	1.0	0.50	mg/Kg	N/A	N/A	8/18/2007	SGC070817
Surrogate 4-Bromofluorobenzene	Surrogate Recovery 87.7	65	Limits (%) - 135				Analyzed by: JAbid Reviewed by: Erick	
VOCs by GC: EPA 5030B Parameter	(or 5035A for Encore Samp Result Qual	•	PA 8021B 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	0.1	0.010	mg/Kg	N/A	N/A	8/18/2007	SGC070817

Control Limits (%)

- 135

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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 #: 56754-022	Sample ID: SB-6-	-12			1	Matrix: Solid	Sample l	Date: 8/9/2007	4:00 PM
TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B									
Parameter	Result	Quat	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	85.7		65	135				Reviewed by: EricK	um
VOCs by GC: EPA 5030B	(or 5035A for Encore S	amples	s only)/EI	A 8021B					
Parameter		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 I	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	93.4		65 -	135			•	Reviewed by: EricK	цит

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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 # : 30734-023 Sample 1D: 5D-0-10 Waterx: 50HQ Sample Date: 6/9/2007 4.1	Lab #: 56754-023	Sample ID: SB-6-16	Matrix: Solid	Sample Date: 8/9/2007	4:10 PM
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TPH-Purgeable - GC: EPA	5030B (or 5035A for E	ncore	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	ery Control Limits (%)					Analyzed by: JAbidog		
4-Bromofluorobenzene	86.3		65 - 135 Reviewed by: EricKum				aun		
VOCs by GC: EPA 5030B Parameter		ample Qual	s only)/EI D/P-F	A 8021B 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 1	Limits (%)				Analyzed by: JAbid	og
4-Bromofluorobenzene	92.2		65 -	135				Reviewed by: Erick	

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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
0 . 0 DI I 0/D				

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 0.010 1 mg/Kg Ethyl Benzene ND 1 0.010 mg/Kg Toluene ND 0.010 mg/Kg 1 Xylenes, Total ND 0.010 mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromoftuorobenzene 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

ParameterResultDFPQLRUnitsTPH as GasolineND10.50mg/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

DF **PQLR** Units Parameter Result Benzene ND 0.010 mg/Kg 1 Ethyl Benzene ND 1 0.010 mg/Kg Toluene ND mg/Kg 0.010 Xylenes, Total ND 0.010 mg/Kg

Surrogate for Blank% RecoveryControl Limits4-Bromofluorobenzene99.865 - 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

Units **Parameter** Result DF **PQLR** mg/Kg ND 10 0.10 Benzene Ethyl Benzene ND 10 0.10 mg/Kg mg/Kg ND 10 0.10 Toluene Xylenes, Total ND 10 0.10 mg/Kg

Surrogate for Blank% RecoveryControl Limits4-Bromofluorobenzene10565- 135

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

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-Trichloroethaпe	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-Trimethylbeпzепе	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

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

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	μ g/K g
Naphthalene	ND	1	5.0	μg/Kg
n-Butylbenzeпe	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				

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			Re	esult	DF	PQLR	Units
TPH as Gasoline				ND	1	100	μg/Kg
Surrogate for Blank	% Recovery	Control I	Limits				
4-Bromofluorobenzene	98.6	60 -	130				
Dibromofluoromethane	98.4	60 -	130				
Toluene-d8	105	60 -	130				

83.9

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

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

50 - 150

QC Batch ID: SD070830A Reviewed by: mtran - 08/30/07

QC/Prep Date: 8/30/2007

LCS	
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n-Hexacosane

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 Co	ontrol 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 Co	ontrol Limits						

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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 ...

Reviewed by: EricKum - 08/21/07

QC Batch ID Analysis Date: 8/20/2007

LC.	S

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRecovery LimitsTPH as Gasoline<0.50</td>2.52.45mg/Kg98.065 - 135

Surrogate % Recovery Control Limits

4-Bromofluorobenzene **108.0** 65 - 135

LCSD

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRPDRPD LimitsRecovery LimitsTPH as Gasoline<0.50</td>2.52.48mg/Kg99.21.230.065 - 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

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
Ethyl Benzene	<0.010	0.080	0.0720	mg/Kg	90.0	65 - 135
Methyl-t-butyl Ether	< 0.050	0.080	0.0770	mg/Kg	96.2	65 - 135
Тошепе	<0.010	0.080	0.0710	mg/Kg	88.7	65 - 135
Xylenes, total	<0.010	0.24	0.218	mg/Kg	90.8	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
Ethyl Benzene	<0.010	0.080	0.0780	mg/Kg	97.5	8.0	25.0	65 - 135
Methyl-t-butyl Ether	<0.050	0.080	0.0800	mg/Kg	100	3.8	25.0	65 - 135
Toluene	<0.010	0.080	0.0770	mg/Kg	96.2	8.1	25.0	65 - 13 5
Xylenes, total	<0.010	0.24	0.233	mg/Kg	97.1	6.7	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

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRecovery LimitsTPH as Gasoline<0.50</td>2.52.43mg/Kg97.265 - 135

Surrogate% RecoveryControl Limits4-Bromofluorobenzene117.065 - 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
Xvlenes, total	<0.010	0.24	0.236	mg/Kg	98.3	1.3	25.0	65 - 135

Surrogate% RecoveryControl Limits4-Bromofluorobenzene101.065- 135

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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 Blani	Spike Amt	SpikeResult	Units	% Recovery			Recovery Limits
Вепzепе	<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 C	ontrol Limits						
4-Bromofluorobenzene	98.4	65 - 135						
LCSD	•							
Parameter	Method Blani	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
	Method Blani <0.010	Spike Amt	SpikeResult 0.288	Units mg/Kg	% Recovery 72.0	RPD 4.4	RPD Limits 25.0	Recovery Limits 65 - 135
Parameter		•	•		-			-
Parameter Benzene	<0.010	0.40	0.288	mg/Kg	72.0	4.4	25.0	65 - 135
Parameter Benzene Ethyl Benzene	<0.010 <0.010	0.40 0.40	0.2 88 0.323	mg/Kg mg/Kg	72.0 80.8	4.4 6.3	25.0 25.0	65 - 135 65 - 135
Parameter Benzene Ethyl Benzene Methyl-t-butyl Ether	<0.010 <0.010 <0.050	0.40 0.40 0.40	0.288 0.323 0.312	mg/Kg mg/Kg mg/Kg	72.0 80.8 78.0	4.4 6.3 6.2	25.0 25.0 25.0	65 - 135 65 - 135 65 - 135
Parameter Benzene Ethyl Benzene Methyl-t-butyl Ether Toluene	<0.010 <0.010 <0.050 <0.010 <0.010	0.40 0.40 0.40 0.40	0.288 0.323 0.312 0.286	mg/Kg mg/Kg mg/Kg mg/Kg	72.0 80.8 78.0 71.5	4.4 6.3 6.2 7.1	25.0 25.0 25.0 25.0	65 - 135 65 - 135 65 - 135 65 - 135

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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
Paran

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 Co	ntrol Limits				
4-Bromofluorobenzene	97.3 6	0 - 130				
Dibromofluoromethane	104.0 6	0 - 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	μ g /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
Tolueпе	<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

Parameter TPH as Gasoline	Method B <100	lank Spike Amt 250	SpikeResult 267	Units µg/kg	% Recovery		Recovery Limits 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 B	lank Spike Amt	SpikeResult	Units	% Recovery	RPD RPD Limits	Recovery Limits

Parameter TPH as Gasoline	Method Bi <100	ank Spike Amt 250	SpikeResult 279	Units µg/kg	% Recovery 112	RPD 4.4	RPD Limits 30.0	Recovery Limits 65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	95.7	60 - 130						
Dibromofluoromethane	93.6	60 - 130						
Toluene-d8	109.0	60 - 130						

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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% RecoveryControl Limits4-Bromofluorobenzene94.365 - 135

MSD Sample Spiked: 56754-006

	Sample	Spike	Spike		Analysis				Recovery
Parameter	Result	Amount	Result	Units	Date	% Recovery	RPD	RPD Limits	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% RecoveryControl Limits4-Bromofluorobenzene97.765 - 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

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: 56051

Issued: 06/29/2007

Global ID: T0600102089

Project Name: KCE514

Project Location: Alameda, CA

Certificate of Analysis - Final Report

On June 22, 2007, samples were received under chain of custody for analysis.

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

Matrix

Test / Comments

Solid

Composite

Electronic Deliverables for Geotracker ICP Metals: EPA 3050B / EPA 6010B

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

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

Sincerely,

C. L. Thom

Laboratory Director

C. L. Thom

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Analyzed by: EricKum

Reviewed by: TFulton

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

Project Name: KCE514 Project Location: Alameda, CA

GlobalID: T0600102089

Certificate of Analysis - Data Report

Surrogate Recovery 106

Surrogate

4-Bromofluorobenzene

Samples Received: 06/22/2007

Sample	Collected by:	Client

Lab#: 56051-002	Sample ID: MW-4-6			:	Matrix: Solid	Sample l	Date: 6/22/2007	12:26 PM		
TPH-Purgeable - GC: EPA Parameter	A 5030B (or 5035A for Enco Result Qua	•	only) / EPA 8015B 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	6/28/2007	SGC070627		
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: EricKum			
4-Bromofluorobenzene	91.4	65	- 135				Reviewed by: TFulton			
VOCs by GC: EPA 5030B	(or 5035A for Encore Samp	les only)/El	PA 8021B							
Parameter	Result Qua	l 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	6/28/2007	SGC070627		
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627		
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627		
Xylenes Total	ND	1.0	0.010	mσ/K σ	N/A	N/A	6/28/2007	SGC070627		

Control Limits (%)

3334 Victor Court, Santa Clara, CA 95054

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: Alameda, CA GlobalID: T0600102089

Certificate of Analysis - Data Report

Lab #: 56051-005	Sample ID: MW-	4-10.	.5		1	Matrix: Solid	Sample 1	Date: 6/22/2007	1:00 PM
TPH-Purgeable - GC: EPA	\$ 5030B (or 5035A for E	Incore	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	6/28/2007	SGC070627
Surrogate	Surrogate Recovery		Control	Limits (%)			Analyzed by: EricKum		
4-Bromofluorobenzene	88.7		65	- 135				Reviewed by: TFulto	n
VOCs by GC: EPA 5030B	(or 5035A for Encore S	ample	s only)/El	PA 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	6/28/2007	SGC070627
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627
Surrogate	Surrogate Recovery	•	Control	Limits (%)				Analyzed by: EricKu	m
4-Bromofluorobenzene	104		65 ·	135				Reviewed by: TFulto	D

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Analyzed by: EricKum

Reviewed by: TFulton

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

Project Name: KCE514
Project Location: Alameda, CA

GlobalID: T0600102089

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Surrogate Recovery

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Surrogate

4-Bromofluorobenzene

Samples Received: 06/22/2007 Sample Collected by: Client

Lab#: 56051-008	Sample ID: MW-	4-16.5	5		Ī	Matrix: Solid	Sample I	Date: 6/22/2007	1:49 PM	
TPH-Purgeable - GC: EPA	. 5030B (or 5035A for E	ncore S	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	6/28/2007	SGC070627	
Surrogate	Surrogate Recovery	(Control 1	Limits (%)				Analyzed by: EricKum		
4-Bromofluorobenzene	88.0		65 -	- 135				Reviewed by: TFulto	п	
VOCs by GC: EPA 5030B	(or 5035A for Encore Sa	amples	only)/EH	PA 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	6/28/2007	SGC070627	
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627	
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627	
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070627	

Control Limits (%)

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Project Name: KCE514 Project Location: Alameda, CA GlobalID: T0600102089

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Lab #: 56051-010	Sample ID: MW-5-	-7.5		Ī	Matrix: Soli	d Sample l	Date: 6/22/2007	9:45 AM	
TPH-Purgeable - GC: EPA	\$ 5030B (or 5035A for Enc	core Samples	only) / EPA 8015B						
Parameter	Result Qı	ual 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	6/28/2007	SGC070628	
Surrogate	Surrogate Recovery	Control 1	Limits (%)				Analyzed by: EricKum		
4-Bromofluorobenzene	87.7	65	- 135				Reviewed by: TFult	on	
VOCs by GC: EPA 5030B	(or 5035A for Encore San	nnles only)/El	PA 8021B						
Parameter	•	nal 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	6/28/2007	SGC070628	
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070628	
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070628	
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	6/28/2007	SGC070628	
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: EricK	um	
4-Bromofluorobenzene	104	65	- 135				Reviewed by: TFult	on	

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Project Name: KCE514 Project Location: Alameda, CA GlobalID: T0600102089

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Samples Received: 06/22/2007 Sample Collected by: Client

Lab#: 56051-011	Sample ID: MW	-5-10	.5		1	Matrix: Solid	Sample l	Date: 6/22/2007	10:30 AM
TPH-Purgeable - GC: EPA	5030B (or 5035A for l	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	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	7	Control	Limits (%)			Analyzed by: EricKum		
4-Bromofluorobenzene	89.3		65	- 135				Reviewed by: TFult	on
VOCs by GC: EPA 5030B	(or 5035A for Encore S	Sample	s only)/El	PA 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	6/29/2007	SGC070628
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	/	Control	Limits (%)				Analyzed by: EricK	um
4-Bromofluorobenzene	111		65	- 135				Reviewed by: TFult	on

6/29/2007 4:46:49 PM - ELing

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Project Name: KCE514 Project Location: Alameda, CA GlobalID: T0600102089

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Lab#: 56051-014	Sample ID: MW-5	5-15]	Matrix: Solid	Sample l	Date: 6/22/2007	11:25 AM
TPH-Purgeable - GC: EPA	5030B (or 5035A for E	ncore Sample	s 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	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	Contro	Limits (%)			Analyzed by: EricKum		
4-Bromofluorobenzene	85.9	65	- 135				Reviewed by: TFulto	n
VOCs by GC: EPA 5030B	(or 5035A for Encore Sa	mples only)/I	EPA 8021B					
Parameter	Result (Qual D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	010.0	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	Contro	Limits (%)				Analyzed by: EricKu	m
4-Bromofluorobenzene	111	65	- 135				Reviewed by: TFulto	ភា

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Project Name: KCE514 Project Location: Alameda, CA GlobalID: T0600102089

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Lab #: 56051-015	Sample ID: MW-6	5-5			I	Matrix: Solid	Sample l	Date: 6/22/2007	3:10 PM	
TPH-Purgcable - GC: EPA Parameter		icore Jual	Samples D/P-F	only) / EPA 8015B 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	6/29/2007	SGC070628	
Surrogate	Surrogate Recovery		Control 1	Limits (%)			Analyzed by: EricKum			
4-Bromofluorobenzene	89.8		65 -	135			Reviewed by: TFulton			
VOCs by GC: EPA 5030B Parameter		mples Jual	only)/EI D/P-F	PA 8021B Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628	
Toluene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628	
Ethyl Benzene	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628	
Xylenes, Total	ND		1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628	
Surrogate	Surrogate Recovery		Control 1	Control Limits (%) Analyzed by: EricKum				П		
4-Bromofluorobenzene	113		65 -	· 135				Reviewed by: TFulto	n	

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Project Name: KCE514 Project Location: Alameda, CA GlobalID: T0600102089

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4-Bromofluorobenzene

Samples Received: 06/22/2007 Sample Collected by: Client

Lab#: 56051-016	Sample ID: MW-6	-10.5]	Matrix: Solid	Sample l	Date: 6/22/2007	3:12 PM
TPH-Purgeable - GC: EPA	,	•	2,			D D (1)	A Late Base	OG P-4-b
Parameter	Result Q	ual 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	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	Control :	Limits (%)				Analyzed by: EricKu	m
4-Bromofluorobenzene	87.6	65	- 135				Reviewed by: TFulto	n
VOCs by GC; EPA 5030B	(or 5035A for Encore Sai	mples only)/El	PA 8021B					
Parameter	·	ual 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	6/29/2007	SGC070628
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	Control	Limits (%)			- 4 4	Analyzed by: EricKu	ın

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Project Name: KCE514 Project Location: Alameda, CA

GlobalID: T0600102089

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4-Bromofluorobenzene

Samples Received: 06/22/2007 Sample Collected by: Client

Lab #: 56051-018	Sample ID: MW-0	6-17		I	Matrix: Soli	id Sample l	Date: 6/22/2007	3:50 PM
TPH-Purgeable - GC: EPA	,	-	• ,					
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	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	Control	Limits (%)			Analyzed by: EricKum		
4-Bromofluorobenzene	92.5	65	- 135				Reviewed by: TFult	on
VOCs by GC: EPA 5030B	(or 5035A for Encore Sa	mples only)/E	CPA 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	6/29/2007	SGC070628
Toluene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Ethyl Benzene	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Xylenes, Total	ND	1.0	0.010	mg/Kg	N/A	N/A	6/29/2007	SGC070628
Surrogate	Surrogate Recovery	Control	Limits (%)		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		Analyzed by: EricKi	utn

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Reviewed by: HDINH

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Project Name: KCE514 Project Location: Alameda, CA GlobalID: T0600102089

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Samples Received: 06/22/2007 Sample Collected by: Client

Lab #: 56051-022	Sample ID: Con	Sample ID: Comp-(1-3)Composite-1 Matrix: Solid Sample Date: 6/22/2007 EPA 6010B Result Qual D/P-F Detection Limit Units Prep Date Prep Batch Analysis Date				5:00 PM			
ICP Metals: EPA 3050B / Parameter		Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Lead	2.0		1.0	1.0	mg/Kg	6/22/2007	SM070622	6/25/2007	SM070622
								Analyzed by: CTran	

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

Parameter	Result Qu	-	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND	10	5.0	mg/Kg	6/28/2007	SGCA070628A	6/29/2007	SGCA070628A
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: Ericl	Kum
4-Bromofluorobenzene	90.7	65	- 135				Reviewed by: TFu	lton

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	6/28/2007	SGCA070628A	6/29/2007	SGCA070628A
Toluene	ND		10	0.10	mg/Kg	6/28/2007	SGCA070628A	6/29/2007	SGCA070628A
Ethyl Benzene	ND		10	0.10	mg/Kg	6/28/2007	SGCA070628A	6/29/2007	SGCA070628A
Xylenes, Total	ND		10	0.10	mg/Kg	6/28/2007	SGCA070628A	6/29/2007	SGCA070628A

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: EricKum
4-Bromofluorobenzene	105	65 - 135	Reviewed by: TFulton

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

QC Batch ID: SGC070627

Validated by: ELing - 06/27/07

Validated by: ELing - 06/27/07

QC Batch Analysis Date: 6/27/2007

ParameterResultDFPQLRUnitsTPH as GasolineND10.50mg/Kg

Surrogate for Blank

% Recovery Control Limits

4-Bromofluorobenzene 114 65 - 135

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

QC Batch ID: SGC070627

QC Batch Analysis Date: 6/27/2007

DF **PQLR** Units Parameter Result ND 0.010 mg/Kg Benzene 1 0.010 mg/Kg Ethyl Benzene ND 1 Toluene ND 1 0.010 mg/Kg ND 0.010 mg/Kg Xylenes, Total

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 89.3 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: SGC070627

Reviewed by: ELing - 06/27/07

QC Batch ID Analysis Date: 6/27/2007

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Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery			Recovery Limits
TPH as Gasoline	<0.50	2.5	2.69	mg/Kg	108			65 - 135
Surrogate 4-Bromofluorobenzene		ontrol Limits 65 - 135						
LCSD Parameter TPH as Gasoline	Method Blank <0.50	Spike Amt 2.5	SpikeResult 2.42	Units mg/Kg	% Recovery 96.8	RPD 10.6	RPD Limits 30.0	Recovery Limits 65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 117 65 - 135

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

QC Batch ID: SGC070627 Reviewed by: ELing - 06/27/07

QC Batch ID Analysis Date: 6/27/2007

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LCS						
Parameter	Method Blani	k Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.010	0.08	0.0810	mg/Kg	101	65 - 135
Ethyl Benzene	< 0.010	0.08	0.0810	mg/Kg	101	65 - 135
Methyl-t-butyl Ether	< 0.050	0.08	0.0700	mg/Kg	87.5	65 - 135
Toluene	<0.010	0.08	0.0810	mg/Kg	101	65 - 135
Xylenes, total	<0.010	0.24	0.244	mg/Kg	102	65 - 135
Surrogate	% Recovery C	Control Limits				
4-Bromofluorobenzene	104	65 - 135				

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Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Вепzепе	<0.010	0.08	0.0870	mg/Kg	109	7.14	25.0	65 - 135
Ethyl Benzene	<0.010	0.08	0.0860	mg/Kg	108	5.99	25.0	65 - 135
Methyl-t-butyl Ether	<0.050	80.0	0.0730	mg/Kg	91.2	4.20	25.0	65 - 135
Toluene	<0.010	0.08	0.0840	mg/Kg	105	3.64	25.0	65 - 135
Xylenes, total	<0.010	0.24	0.252	mg/Kg	105	3.23	25.0	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 115 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: SGC070628

Validated by: TFulton - 06/29/07

QC Batch Analysis Date: 6/28/2007

ParameterResultDFPQLRUnitsTPH as GasolineND10.50mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 93.0 65 - 135

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

QC Batch ID: SGC070628 Validated by: TFulton - 06/29/07

QC Batch Analysis Date: 6/28/2007

DF PQLR Units **Parameter** Result ND 0.010 mg/Kg Benzene 1 mg/Kg Ethyl Benzene ND 1 0.010 Toluene ND 1 0.010 mg/Kg Xylenes, Total ND 0.010 mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 109 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: SGC070628

Reviewed by: TFulton - 06/29/07

QC Batch ID Analysis Date: 6/28/2007

LCS

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRecovery LimitsTPH as Gasoline<0.50</td>2.52.66mg/Kg10665 - 135

Surrogate % Recovery Control Limits
4-Bromofluorobenzene 123 65 - 135

LCSD

ParameterMethod BlankSpike AmtSpikeResultUnits% RecoveryRPDRPD LimitsRecovery LimitsTPH as Gasoline<0.50</td>2.52.66mg/Kg1060.0030.065 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 116 65 - 135

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

QC Batch ID: SGC070628 Reviewed by: TFulton - 06/29/07

QC Batch ID Analysis Date: 6/28/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.010	0.08	0.0840	mg/Kg	105	65 - 135
Ethyl Benzene	<0.010	0.08	0.0810	mg/Kg	101	65 - 135
Methyl-t-butyl Ether	< 0.050	0.08	0.0900	mg/Kg	112	65 - 135
Toluene	<0.010	80.0	0.0830	mg/Kg	104	65 - 135
Xylenes, total	<0.010	0.24	0.245	mg/Kg	102	65 - 135

Surrogate % Recovery Control Limits
4-Bromofluorobenzene 115 65 - 135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.010	0.08	0.0850	mg/Kg	106	1.18	25.0	65 - 135
Ethyl Benzene	<0.010	0.08	0.0800	mg/Kg	100	1.24	25.0	65 - 135
Methyl-t-butyl Ether	<0.050	0.08	0.0760	mg/Kg	95.0	0.00	25.0	65 - 135
Toluene	<0.010	80.0	0.0820	mg/Kg	102	1.21	25.0	65 - 135
Xvienes, total	<0.010	0.24	0.238	ma/Ka	99.2	2.90	25.0	65 - 135

Surrogate % Recovery Control Limits 4-Bromofluorobenzene 110 65 - 135

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

QC/Prep Batch ID: SGCA070628A

Validated by: TFulton - 06/29/07

QC/Prep Date: 6/28/2007

 Parameter
 Result
 DF
 PQLR
 Units

 TPH as Gasoline
 ND
 10
 5.0
 mg/Kg

Surrogate for Blank % Recovery Control Limits 4-Bromofluorobenzene 89.8 65 - 135

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

QC/Prep Batch ID: SGCA070628A Validated by: TFulton - 06/29/07

QC/Prep Date: 6/28/2007

Parameter	Result	DF	PQLR	Units
Benzene	ND	10	0.10	mg/Kg
Ethyl Benzene	ND 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 110 65 - 135

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

QC Batch ID: SGCA070628A Reviewed by: TFulton - 06/29/07

QC/Prep Date: 6/28/2007

Surrogate

LCS Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	< 0.010	0.4	0.420	mg/Kg	105	65 - 135
Ethyl Benzene	< 0.010	0.4	0.410	mg/Kg	102	6 5 - 135
Methyl-t-butyl Ether	<0.050	0.4	0.410	mg/Kg	102	65 - 135
Toluene	<0.010	0.4	0.420	mg/Kg	105	65 - 135
Xylenes, total	<0.010	1.2	1.31	mg/Kg	109	65 - 135

LCSD		Parameter Benzene	Method Blank <0.010	Spike Amt 0.4	SpikeResult 0.440	Units ma/Ka	% Recovery	RPD 4.65	RPD Limits 25.0	Recovery Limits 65 - 135	
	L	.CSD									

Control Limits

65 - 135 <0.010 9.30 25.0 Ethyl Benzene 0.4 0.450 mg/Kg 112 65 - 135 <0.050 0.4 0.440 mg/Kg 110 7.06 25.0 Methyl-t-butyl Ether Toluene < 0.010 0.4 0.450 mg/Kg 112 6.90 25.0 65 - 135 3.75 25.0 65 - 135 Xylenes, total < 0.010 1.2 1.36 mg/Kg 113

Surrogate% RecoveryControl Limits4-Bromofluorobenzene10965-135

% Recovery

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LCS / LCSD - Solid - ICP Metals: EPA 3050B / EPA 6010B

QC Batch ID: SM070622 Reviewed by: HDINH - 06/25/07

QC/Prep Date: 6/22/2007

LCS								
Parameter	Method Blank	•	•	Units	% Recovery			Recovery Limits
Antimony	<1.0	50	46.1	mg/Kg	92.2			70 - 130
Arsenic	<1.0	50	45.9	mg/Kg	91.7			70 - 130
Barium	<1.0	50	48.6	mg/Kg	97.1			70 - 130
Beryllium	<1.0	50	46.8	mg/Kg	93.6			70 - 130
Cadmium	<1.0	50	46.4	mg/Kg	92.7			70 - 130
Chromium	<1.0	50	48.1	mg/Kg	96.1			70 - 130
Cobalt	<1.0	50	48.6	mg/Kg	97.1			70 - 130
Соррег	<1.0	50	48.4	mg/Kg	96.8			70 - 130
Lead	<1.0	50	48.1	mg/Kg	96.2			70 - 130
Molybdenum	<1.0	50	49.3	mg/Kg	98.5			70 - 130
Nickel	<1.0	50	47.6	mg/Kg	95.1			70 - 130
Selenium	<2.0	50	43.6	mg/Kg	87.1			70 - 130
Silver	<1.0	50	47.9	mg/Kg	95.8			70 - 130
Thallium	<2.0	50	45.8	mg/Kg	91.6			70 - 130
Vanadium	<1.0	50	48.7	mg/Kg	97.4			70 - 130
Zinc	<2.0	50	47.6	mg/Kg	95.2			70 - 130
LCSD								
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery		RPD Limits	Recovery Limits
Antimony	<1.0	50	45.8	mg/Kg	91.6	0.703	30.0	70 - 130
Arsenic	<1.0	5 0	46.1	mg/Kg	92.2	0.548	30.0	70 - 130
Barium	<1.0	50	48.6	mg/Kg	97.2	0.0741	30.0	70 - 130
Beryllium	<1.0	50	46.8	mg/Kg	93.6	0.0534	30.0	70 - 130
Cadmium	<1.0	50	4 6 .0	mg/Kg	91.9	0.854	30.0	70 - 130
Chromium	<1.0	50	47.6	mg/Kg	95.2	0.977	30.0	70 - 130
Cobalt	<1.0	50	48.3	mg/Kg	96.6	0.597	30.0	70 - 130
Copper	<1.0	50	48.1	mg/Kg	96.1	0.730	30.0	70 - 130
Lead	<1.0	50	47.7	mg/Kg	95.4	0.785	30.0	70 - 130
Molybdenum	<1.0	50	48.9	mg/Kg	97.9	0.652	30.0	70 - 130
Nickel	<1.0	50	46.8	mg/Kg	93.7	1.54	30.0	70 - 130
Selenium	<2.0	50	43.2	mg/Kg	86.5	0.728	30.0	7 0 - 130
Silver	<1.0	50	47.5	mg/Kg	95.1	0.750	30.0	70 - 130
Silver Thallium	<1.0 <2.0	50 50	47.5 45.3	mg/Kg mg/Kg	95.1 90.6	0.750 1.03	30.0 30.0	70 - 130 70 - 130

Entech Analytical Labs, Inc. Chain of Custody / Analysis Request (408) 588-0200 3334 Victor Court Santa Clara, CA 95054 (408) 588-0201 - Fax **ELAP No. 2346** Attention to: NOH Kaemot Invoice to: (If Different) Purchase Order No.: Company Name: RR4 Project No. / Name: Company. BCE514 Billing Address: (If Different) Labolata D. Comsc. 10M Project Location: Entech Order ID: 5605 **Turn Around Time** Circle Applicable ☐ Same Day Ci 1 Day Global ID: □ 3 Day Ci 2 Day **EDF** Day Day 70600102084 ☐ 4 Day 🗓 10 Day No. of Containers Sample Information Remarks Entech Instructions Lab. Client ID Field Point Date Time No. 5 MW-4-45 6-2001 1215 Oct HOLD FOR ANALYSIS MW-4-6' 1226 DOZ 1237 MW-4-75 003 HOLD FOR ANALYSIS MW-4-9.5 1248 DOY MW-4 -105 1300 HULD FOR ANALYSL 007 HOLD FUR ANALYSY MW-5-7.5 DIO MW-5-105 Ou (الاه/ 012 MW-5-12 HOLD FOR ANADOLL Refinauished by: Lab Use: Relinquished by: Al, As, Sb, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Tl, Sn, Ti, Zn, V Metals: Plating LUFT-5 RCRA-8 PPM-13 ☐ CAM-17 If any N's, Explain: Lab Use: Temperature: Samples: Iced Y/N Shipment Method: _ Appropriate Containers/Preservatives: Y/N Custody Seals? Y/N Labels match CoC? Y/N Headspace? Y/N Seperate Receipt Log Y/N

Entech Analytical Labs, Inc. Chain of Custody / Analysis Request 3334 Victor Court (408) 588-0200 Santa Clara, CA 95054 (408) 588-0201 - Fax **ELAP No. 2346** Attention to: | Wath Karnot Purchase Order No.: Invoice to: (If Different) Company Name: Project No. / Name: Company: Billing Address: (If Different) State: Zip Code: 95062 Project Location: Entech Order ID: **Turn Around Time** Circle **Applicable** Same Day ☐ 1 Day Global ID: D 3 Day Ci 2 Day **EDF** O 4 Day 10 Day Sample Information Sampler Remarks Entech Instructions Lab. Client ID Field Point Date Time No. HOLD FOR ANALYSIS 013 MW-5-13,5 6-2001 1109 MW-5-15 1125 OIY 015 MW-6-51 MW-6-10.5 OLL HOLD FURDMALYSIS MW-6-15,5 017 MW-6-17 1700 COMPOSITE 019 INTO 020 021 Lab Use: Relinguished by: Al, As, Sb, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Ji, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Tl, Sn, Ti, Zn, V Metals: □ PPM-13 ☐ CAM-17 Plating TI RCRA-8 LUFT-5 If any N's, Explain: Lab Use: Temperature: ___ Shipment Method: _ Samples: Iced Y/N Appropriate Containers/Preservatives: Y/N Custody Seals? Y/N Seperate Receipt Log Y/N Labels match CoC? Y/N Headspace? Y/N