

20 84

Kelleher & Associates
Environmental Management LLC

812 S. Winchester Blvd, Ste 130, # 109

San Jose, CA 95128
Phone: (408) 249-5971
Fax: (408) 249-7972
bkellehr@ix.netcom.com

April 3, 2007

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

LUFT Site: 900 Central Ave, Alameda (Site)
Re: Workplan Submittal

Dear Mr. Plunkett:

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):

"First Quarter 2007 Groundwater Monitoring Results," April 3, 2007

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

The report covers the groundwater monitoring event RRM conducted on February 5, 2007 during which they redeveloped, sounded, purged and sampled the three existing monitoring wells. The well-redevelopment and groundwater monitoring work was conducted pursuant to the directives set forth in County correspondence dated July 12, 2006 and January 9, 2007.

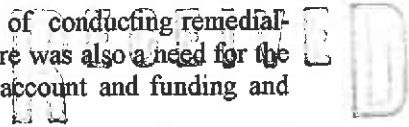
Project Status

Further pursuant to directives set forth in County correspondence dated July 12, 2006, RRM prepared a site investigation workplan dated December 29, 2006 that was submitted to ACEH on December 30, 2006 and approved under correspondence dated January 9, 2007. The proposed scope of work covers: (1) delineating the extent of soil contamination occurring in the vicinity of the former USTs while at the same time providing a means for conducting feasibility testing for remedial options; and (2) delineating the downgradient extent of groundwater contamination extending northwest off the site boundaries.

RRM was recently contracted to perform this work and has initiated pre-field work which includes securing the necessary permits and approvals which will include an encroachment permit issued by the City of Alameda.

Contingent on timely approval of permit applications, we anticipate that RRM will complete field work for the proposed subsurface investigations by the middle of May 2007 and will have an investigation report ready to go by the end of June 2007. In the meantime, RRM has the next groundwater monitoring event scheduled for May 2007.

We apologize to the County that the RPs were unable to comply with the March 15, 2007 deadline for submitting a site investigation report. As you aware, there was a great deal of work involved in getting the RPs to enter the agreements needed to ensure the associated costs of conducting remedial-response work were potentially recoverable from the UST Cleanup Fund. There was also a need for the Alameda County superior court special master to set up a cleanup escrow account and funding and



APR 06 2007

ENVIRONMENTAL HEALTH SERVICES

Steven Plunkett, Alameda County Health Care Services
April 3, 2007

contracting mechanism. Please accept this report and the December 2006 workplan as the first steps in returning the site to compliance.

The case special master and the RPs sincerely appreciate the County's patience and assistance in resolving the site contamination issues and the associated complex litigation.

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



April 3, 2007
Project KCE514

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

Re: First Quarter 2007 Groundwater Monitoring Results
900 Central Avenue
Alameda, California

Dear Mr. Kelleher:

This letter, prepared by RRM, Inc. (RRM), presents the results of groundwater monitoring well redevelopment and first quarter 2007 groundwater monitoring activities conducted on February 5, 2007, at the referenced site. Figure 1 presents a site location map. Figures 2 and 3 present a groundwater elevation contour map and a gasoline range total petroleum hydrocarbons (TPHg); benzene; and methyl tertiary butyl ether (MtBE) concentration map, respectively. Well specifications are summarized in Table 1. Groundwater elevation and analytical data are summarized in Table 2. Field and analytical procedures are presented in Attachment A. Certified analytical reports, chain of custody and field data sheets are presented in Attachment B.

Groundwater monitoring well redevelopment activities were performed at the request of the Alameda County Environmental Health Services (ACEHS) per their letter dated January 9, 2007.

FIRST QUARTER 2007 GROUNDWATER MONITORING RESULTS

Depth to Groundwater, Flow direction and gradient

On February 5, 2007, depth to water ranged from 14.77 feet below ground surface (bgs) in Well MW-1 to 15.32 feet bgs in Well MW-3. The calculated groundwater flow direction was towards the northwest at an approximate gradient of 0.02 feet per foot.

Groundwater Analytical Data

Wells MW-1, MW-2 and MW-3 were redeveloped prior to sampling. Groundwater samples were analyzed for TPHg, benzene, toluene, ethylbenzene, xylenes (collectively BTEX), and fuel oxygenates

MtBE, ethyl tert-butyl ether, isopropyl ether, tert-amyl methyl ether, and t-butyl alcohol by U.S. Environmental Protection Agency Methods GC-MS and 8260B.

TPHg was detected only in groundwater samples collected from wells MW-1 and MW-2. Concentrations were 26,000 parts per billion (ppb) and 89 ppb, respectively. The laboratory reported that the TPHg result for MW-2 was not typical of TPHg and that the reported value was due to discrete peaks present within the TPHg quantitation range (heavy end). Benzene was detected only in the sample collected from Well MW-1 at a concentration of 2,550 ppb. Fuel oxygenates were not detected in any of the groundwater samples.

CONCLUSIONS

- The current groundwater flow direction toward the northwest was not consistent with the southwesterly flow direction calculated during past groundwater monitoring events beginning in 1998. This may be a seasonal anomaly or due to a change in one or more of the previously surveyed well head elevations.
- Consistent with previous groundwater monitoring events conducted at the site beginning in 1998, elevated concentrations of TPHg and benzene were detected at well MW-1, located near the former underground fuel storage tanks (UST's) at the northeast corner of the site.
- Consistent with previous groundwater monitoring events conducted at the site beginning in 1998, fuel oxygenates were not detected in any of the groundwater samples collected.

RECOMMENDATIONS

RRM recommends performing the scope of work presented in its December 29, 2006, *Subsurface Investigation Work Plan*. The proposed scope of work was conditionally approved by the ACEHS in their letter dated January 9, 2007.

RRM also recommends continuing quarterly groundwater monitoring of wells MW-1 through MW-3, through 2007 and adding any new wells to the sampling program once they have been installed. In addition, when the new wells are surveyed, the existing wells should be re-surveyed to confirm wellhead elevations and x and y coordinates as required by Geotracker.

If the groundwater flow direction continues to be toward the northwest during the next quarterly groundwater monitoring event, RRM recommends performing a well survey to determine if there are any nearby groundwater activities that may be affecting local groundwater conditions.

SCHEDULE OF PROPOSED WORK ACTIVITIES DURING THE SECOND QUARTER 2007

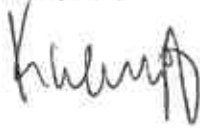
Work activities proposed to be conducted during the second quarter 2007 are presented below:

- Groundwater monitoring and reporting for wells MW-1 through MW-3.

- Completing the site investigation activities proposed in the December 29, 2006, *Subsurface Investigation Work Plan*. The proposed scope of work includes: 1) drilling and sampling up to 10 exploratory soil borings; 2) installing up to three additional groundwater monitoring wells; 3) installing one groundwater extraction well; and 4) analyzing selected soil and groundwater samples for petroleum hydrocarbon compounds.
- Re-survey existing wells MW-1 through MW-3 when the new wells are surveyed.

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

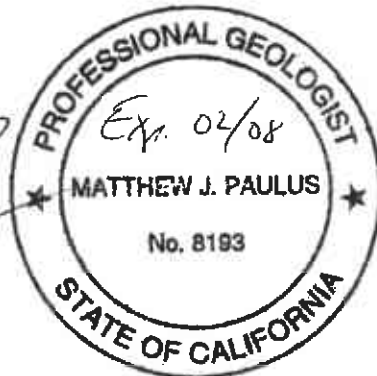
Sincerely,
RRM, Inc.



Matt Kaempff
Project Geologist



Matthew Paulus
Senior Geologist
PG 8193



- Attachments: Table 1 - Well Specifications
Table 2 - Groundwater Elevation and Analytical Data
Figure 1 - Site Location Map
Figure 2 - Groundwater Elevation Contour Map, February 5, 2007
Figure 3 - TPHg/Benzene/MtBE Concentration Map, February 5, 2007
Attachment A - Field and Analytical Procedures
Attachment B - Certified Analytical Reports, Chain of Custody and Field Data Sheets

Table 1
Well Specifications

900 Central Avenue
Alameda, California

Well	Total Depth (feet, bgs)	Casing Diameter (inch)	Screened Interval (feet, bgs)	Screen Length (feet)
MW-1	18	2	6 - 18	12
MW-2	19.5	2	6 - 19.5	13.5
MW-3	18	2	6 - 18	12

Notes:

bgs = below ground surface

Table 2
Groundwater Elevation and Analytical Data

900 Central Avenue
Alameda, California

Sample ID	Date Gauged & Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MIBE (ppb)	TPHd (ppb)	TPHmo (ppb)	Notes
MW-1	11/27/98	25.17	11.77	13.40	360	5.8	5.5	9.2	40	<5.0	<50	<500	
	03/12/99		6.59	18.58	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	06/01/99		8.71	16.46	930	<0.50	19	52	230	<5.0	540	<500	
	09/03/99		11.79	13.38	14,000	300	1,900	890	5,600	<5.0	2,100	<500	
	03/29/02		8.32	16.85	<50	<0.50	<0.50	<0.50	<0.50	<5.0	61	<610	
	07/15/02		11.39	13.78	39,000	1,700	2,900	1,800	7,800	<10	4,200	<5000	
	10/03/02		12.88	12.29	42,000	2,600	3,300	1,800	10,000	<500	8,400	<2500	
	02/05/07		10.40	14.77	26,000	2,550	2,010	1,140	4,870	<0.5	NA	NA	1
MW-2	11/27/98	25.12	11.76	13.41	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	03/12/99		6.53	18.64	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	06/01/99		8.56	16.61	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	09/03/99		11.60	13.57	<50	<0.50	<0.50	<0.50	1.8	<5.0	<50	<500	
	03/29/02		8.10	17.07	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	07/15/02		10.92	14.25	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	10/03/02		DRY	-	NS	NS	NS	NS	NS	NS	NS	NS	
	02/05/07		10.15	15.02	89	<0.5	<0.5	<0.5	<1.5	<0.5	NA	NA	1,2
MW-3	11/27/98	24.58	11.41	13.76	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	03/12/99		6.01	19.16	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	06/01/99		8.16	17.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	09/03/99		11.27	13.90	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	03/29/02		7.78	17.39	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	07/15/02		10.82	14.35	<50	<0.50	<0.50	<0.50	<0.50	<5.0	110	<500	
	10/03/02		12.28	12.89	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<500	
	02/05/07		9.85	15.32	<50	<0.5	<0.5	<0.5	<1.5	<0.5	NA	NA	1

Notes:

MSL = relative to mean sea level

TOC = top of casing

TPHg = gasoline range total petroleum hydrocarbons

TPHd = diesel range total petroleum hydrocarbons

TPHmo = motor oil range total petroleum hydrocarbons

TBA = tert-Butanol

MIBE = Methyl tert-Butyl Ether

ppb = parts per billion (micrograms per liter)

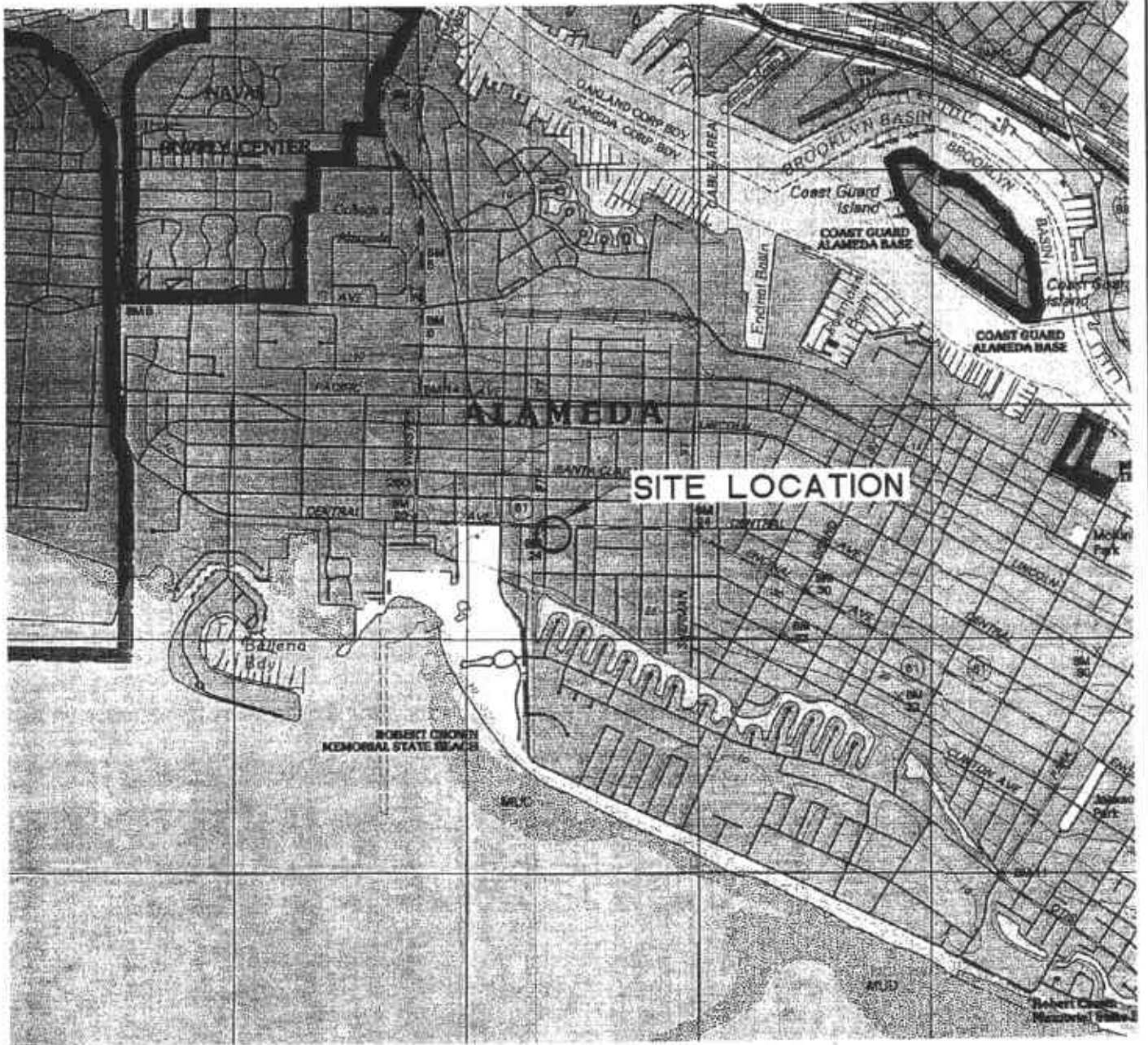
< = none detected at or above reported detection limit

NS = not sampled

NA = not analyzed

1 = also sampled for the fuel oxygenates ethyl tert-butyl ether (ETBE), isopropyl ether (DIPE), t-butyl alcohol (t-butanol) (TBA), and tert-amyl methyl ether (TAME); none of these compounds detected above the laboratory limit

2 = the laboratory reported value due to discrete peaks present within the TPH as gasoline quantitation range (heavy end); not typical gasoline.



QUADRANGLE LOCATION



SCALE IN FEET



0 2,000

Ref. KCE514/KCE516-SLALONG
Base Map from TOPGUT HIGH

SITE LOCATION MAP

900 Central Avenue
Alameda, California

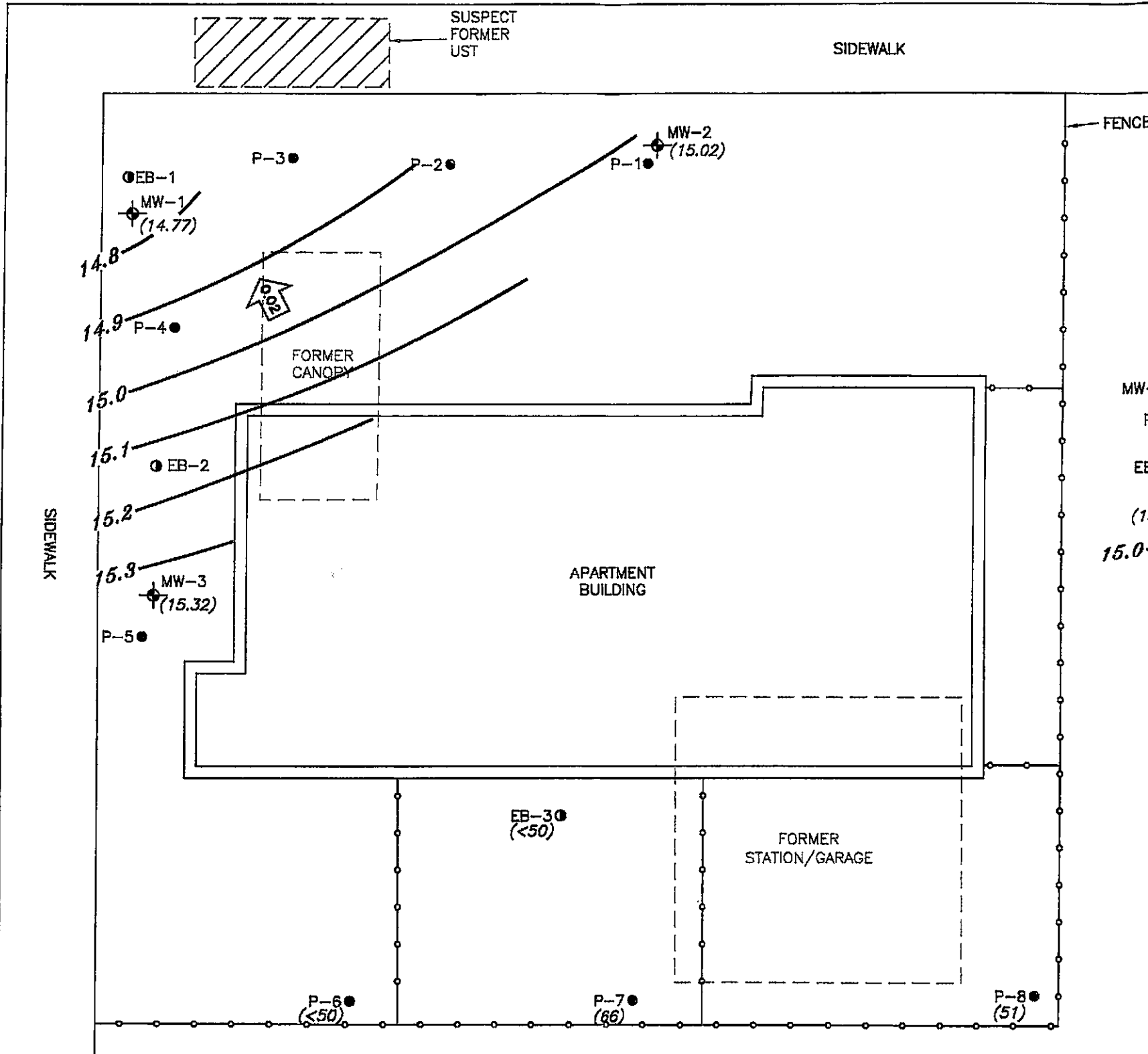
FIGURE:
1
PROJECT:
KCE514

PREPARED BY

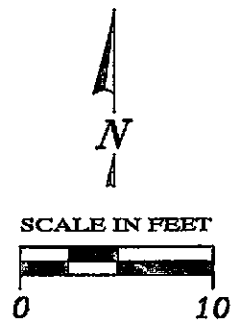


CENTRAL AVENUE

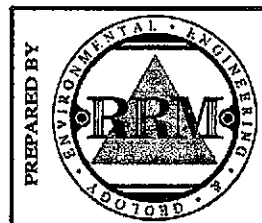
NINTH STREET



- EXPLANATION**
- MW-1 ● GROUNDWATER MONITORING WELL LOCATION
 - P-1 ● EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
 - EB-1 ● EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
 - (15.02) GROUNDWATER ELEVATION, FT/MSL
 - 15.0 — GROUNDWATER ELEVATION CONTOUR, FT/MSL
 - ↗ GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.02 FT/FT



Ref. KCE514/KCE514-SITE.DWG
Drawn by: AJ West



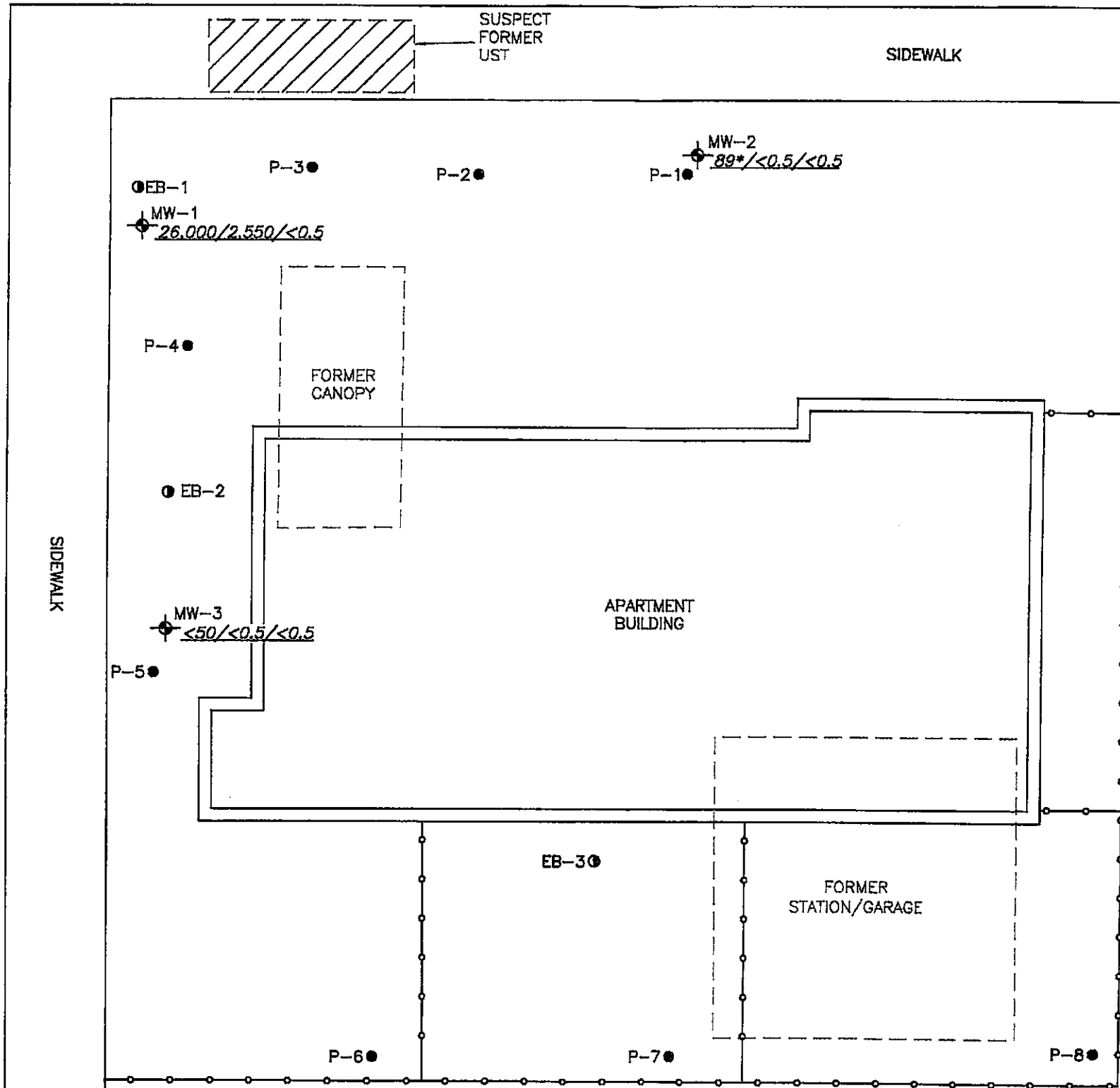
**GROUNDWATER ELEVATION CONTOUR MAP,
FEBRUARY 5, 2007**

900 Central Avenue
Alameda, California

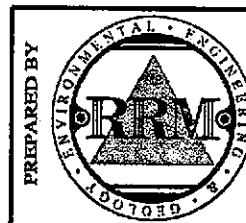
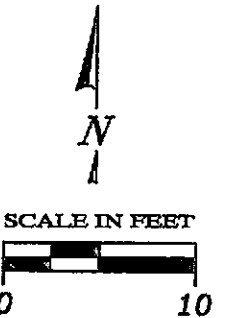
FIGURE:
2
PROJECT:
KCE514

CENTRAL AVENUE

NINTH STREET



- EXPLANATION**
- MW-1 GROUNDWATER MONITORING WELL LOCATION
 - P-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1997)
 - EB-1 EXPLORATORY SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION, (1994)
 - <50/<0.5/<0.5 TPHg/BENZENE/MtBE CONCENTRATIONS IN GROUNDWATER IN MICROGRAMS PER LITER (ug/L)
 - < NOT DETECTED AT OR ABOVE VALUE SHOWN
 - * LABORATORY REPORTED RESULTS NOT TYPICAL OF GASOLINE
 - TPHg GASOLINE RANGE TOTAL PETROLEUM HYDROCARBONS
 - MtBE METHYL TERTIARY BUTYL ETHER



TPHg/BENZENE/MtBE CONCENTRATION MAP,
FEBRUARY 5, 2007

900 Central Avenue
 Alameda, California

FIGURE:
3
 PROJECT:
 KCE514

ENCLOSURE 14-15-2007
 Enclosure from All West

A

FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A

FIELD AND ANALYTICAL PROCEDURES

Well Redevelopment / Groundwater Sampling

Redevelopment of existing groundwater monitoring wells was performed utilizing surge block/swab and groundwater extraction techniques. Well redevelopment procedures were conducted until the majority of suspended fines were removed or until approximately ten casing volumes were removed. Documentation of well redevelopment consists of recorded data including time, groundwater and total well depth, turbidity, gallons removed, and well stabilization parameters (pH, conductivity, temperature). Redevelopment and purged water 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 each well and checking each well for the presence of separate-phase hydrocarbon (SPH) using an oil/water interface probe or a clear Teflon bailer. The wells that do not contain SPH are then purged a minimum of three casing volumes or until dry. During purging, well stabilization parameters (temperature, pH, and electrical conductivity) are monitored. After 80% recovery of the water levels, groundwater samples are collected with clean Teflon or disposable plastic bailers and placed into the appropriate U.S. Environmental Protection Agency (EPA) approved containers. The samples were labeled, logged onto a chain-of-custody document, and transported on ice to the laboratory. Reusable sampling equipment was cleaned with tri-sodium phosphate solution between uses.

Laboratory Analysis

Groundwater samples were analyzed for gasoline range total petroleum hydrocarbons (TPHg), benzene, toluene, ethylbenzene, xylenes (collectively BTEX), and the fuel oxygenates methyl tertiary butyl ether (MtBE), ethyl tert-butyl ether (ETBE), isopropyl ether (DIPE), tert-amyl methyl ether (TAME), and t-butyl alcohol (TBA), using EPA Methods GC-MS and 8260B.

B

CERTIFIED ANALYTICAL REPORTS, CHAIN OF CUSTODY, AND FIELD DATA
SHEETS



TORRENT LABORATORY, INC.

483 Sinclair Frontage Rd. • Milpitas, CA 95035 • Ph: (408) 263-5258 • Fax: (408) 263-8293

www.torrentlab.com

February 12, 2007

Matt Kaemff
Remediation Risk Management, Inc.
2560 Soquel Ave, Suite 202
Santa Cruz, CA 95062

TEL: (831) 475-8141
FAX (831)475-8249

RE: KCE514

Dear Matt Kaemff:

Order No.: 0702019

Torrent Laboratory, Inc. received 3 samples on 2/5/2007 for the analyses presented in the following report.


All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

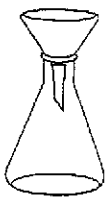
Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,


Laboratory Director

2/12/07
Date

Patti Sandrock
QA Officer 



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Matt Kaemff
Remediation Risk Management, Inc.

Date Received: 2/5/2007
Date Reported: 2/12/2007

Client Sample ID: MW-1
Sample Location: 900 Central Ave, Alameda
Sample Matrix: GROUNDWATER
Date/Time Sampled 2/5/2007 3:20:00 PM

Lab Sample ID: 0702019-001
Date Prepared: 2/8/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	2/8/2007	50	44	2200	26000	µg/L	G11813
Surr: 4-Bromofluorobenzene	GC-MS	2/8/2007	0	44	58.4-133	101	%REC	G11813
Benzene	SW8260B	2/8/2007	0.5	44	22.0	2550	µg/L	R11813
Ethyl tert-butyl ether (ETBE)	SW8260B	2/8/2007	0.5	44	22.0	ND	µg/L	R11813
Ethylbenzene	SW8260B	2/8/2007	0.5	44	22.0	1140	µg/L	R11813
Isopropyl ether (DIPE)	SW8260B	2/8/2007	0.5	44	22.0	ND	µg/L	R11813
Methyl tert-butyl ether (MTBE)	SW8260B	2/8/2007	0.5	44	22.0	ND	µg/L	R11813
t-Butyl alcohol (t-Butanol)	SW8260B	2/8/2007	10	44	440	ND	µg/L	R11813
tert-Amyl methyl ether (TAME)	SW8260B	2/8/2007	0.5	44	22.0	ND	µg/L	R11813
Toluene	SW8260B	2/8/2007	0.5	44	22.0	2010	µg/L	R11813
Xylenes, Total	SW8260B	2/8/2007	1.5	44	66.0	4870	µg/L	R11813
Surr: Dibromofluoromethane	SW8260B	2/8/2007	0	44	61.2-131	95.9	%REC	R11813
Surr: 4-Bromofluorobenzene	SW8260B	2/8/2007	0	44	64.1-120	101	%REC	R11813
Surr: Toluene-d8	SW8260B	2/8/2007	0	44	75.1-127	115	%REC	R11813

Report prepared for: Matt Kaemff
Remediation Risk Management, Inc.

Date Received: 2/5/2007
Date Reported: 2/12/2007

Client Sample ID: MW-2
Sample Location: 900 Central Ave, Alameda
Sample Matrix: GROUNDWATER
Date/Time Sampled 2/5/2007 2:30:00 PM

Lab Sample ID: 0702019-002
Date Prepared: 2/8/2007

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	2/8/2007	50	1	50	89 x	µg/L	G11813
Surr: 4-Bromofluorobenzene	GC-MS	2/8/2007	0	1	58.4-133	121	%REC	G11813
Note: x-Not typical Gasoline. Reported value due to discrete peaks present within the TPH as Gasoline quantitation range (heavy end)								
Benzene	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
Ethyl tert-butyl ether (ETBE)	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
Ethylbenzene	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
Isopropyl ether (DIPE)	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
Methyl tert-butyl ether (MTBE)	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
t-Butyl alcohol (t-Butanol)	SW8260B	2/7/2007	10	1	10.0	ND	µg/L	R11798
tert-Amyl methyl ether (TAME)	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
Toluene	SW8260B	2/7/2007	0.5	1	0.500	ND	µg/L	R11798
Xylenes, Total	SW8260B	2/7/2007	1.5	1	1.50	ND	µg/L	R11798
Surr: Dibromofluoromethane	SW8260B	2/7/2007	0	1	61.2-131	85.7	%REC	R11798
Surr: 4-Bromofluorobenzene	SW8260B	2/7/2007	0	1	64.1-120	95.2	%REC	R11798
Surr: Toluene-d8	SW8260B	2/7/2007	0	1	75.1-127	81.4	%REC	R11798

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

CLIENT: Remediation Risk Management, Inc.
 Work Order: 0702019
 Project: KCE514

ANALYTICAL QC SUMMARY REPORT

TestNo: GC-MS

Sample ID MB-G	SampType: MBLK	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 2/9/2007	RunNo: 11813						
Client ID: ZZZZZ	Batch ID: G11813	TestNo: GC-MS		Analysis Date: 2/9/2007	SeqNo: 174863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	ND	50									
Surr: 4-Bromofluorobenzene	10.80	0	11.36	0	95.1	58.4	133				

Sample ID LCS-G	SampType: LCS	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 2/8/2007	RunNo: 11813						
Client ID: ZZZZZ	Batch ID: G11813	TestNo: GC-MS		Analysis Date: 2/8/2007	SeqNo: 174864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	259.0	50	227	0	114	52.4	127				
Surr: 4-Bromofluorobenzene	11.50	0	11.36	0	101	58.4	133				

Sample ID LCSD-G	SampType: LCSD	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 2/9/2007	RunNo: 11813						
Client ID: ZZZZZ	Batch ID: G11813	TestNo: GC-MS		Analysis Date: 2/9/2007	SeqNo: 174865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	208.6	50	227	0	91.9	52.4	127	259	21.6	20	R
Surr: 4-Bromofluorobenzene	10.80	0	11.36	0	95.1	58.4	133	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Remediation Risk Management, Inc.
 Work Order: 0702019
 Project: KCE514

ANALYTICAL QC SUMMARY REPORT

TestNo: SW8260B

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
MB	MBLK	8260B_W	µg/L	2/7/2007	11798						
Client ID: ZZZZZ	Batch ID: R11798	TestNo: SW8260B		Analysis Date: 2/7/2007	SeqNo: 174694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
Ethylbenzene	ND	0.500									
Isopropyl ether (DIPE)	ND	0.500									
Methyl tert-butyl ether (MTBE)	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	5.00									
tert-Amyl methyl ether (TAME)	ND	0.500									
Toluene	ND	0.500									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	10.71	0	11.36	0	94.3	61.2	131				
Surr: 4-Bromofluorobenzene	10.35	0	11.36	0	91.1	64.1	120				
Surr: Toluene-d8	9.940	0	11.36	0	87.5	75.1	127				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
blk	MBLK	8260B_W	µg/L	2/8/2007	11813						
Client ID: ZZZZZ	Batch ID: R11813	TestNo: SW8260B		Analysis Date: 2/8/2007	SeqNo: 174854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.340									
Ethyl tert-butyl ether (ETBE)	ND	0.420									
Ethylbenzene	ND	0.250									
Isopropyl ether (DIPE)	ND	0.450									
Methyl tert-butyl ether (MTBE)	ND	0.390									
t-Butyl alcohol (t-Butanol)	ND	1.50									
tert-Amyl methyl ether (TAME)	ND	0.320									
Toluene	ND	0.300									
Xylenes, Total	ND	0.770									
Surr: Dibromofluoromethane	11.00	0.395	11.36	0	96.8	61.2	131				
Surr: 4-Bromofluorobenzene	11.65	0.498	11.36	0	103	64.1	120				
Surr: Toluene-d8	11.62	0.531	11.36	0	102	75.1	127				

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits

CLIENT: Remediation Risk Management, Inc.
 Work Order: 0702019
 Project: KCE514

ANALYTICAL QC SUMMARY REPORT

TestNo: SW8260B

Sample ID	LCS	SampType: LCS	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/7/2007	RunNo: 11798						
Client ID:	ZZZZZ	Batch ID: R11798	TestNo: SW8260B		Analysis Date: 2/7/2007	SeqNo: 174695						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		16.17	0.500	17.04	0	94.9	66.9	140				
Toluene		17.18	0.500	17.04	0	101	76.6	123				
Surr: Dibromofluoromethane		10.63	0	11.36	0	93.6	61.2	131				
Surr: 4-Bromofluorobenzene		9.690	0	11.36	0	85.3	64.1	120				
Surr: Toluene-d8		9.580	0	11.36	0	84.3	75.1	127				

Sample ID	Ics	SampType: LCS	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/8/2007	RunNo: 11813						
Client ID:	ZZZZZ	Batch ID: R11813	TestNo: SW8260B		Analysis Date: 2/8/2007	SeqNo: 174855						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		17.12	0.500	17.04	0	100	66.9	140				
Toluene		16.75	0.500	17.04	0	98.3	76.6	123				
Surr: Dibromofluoromethane		9.410	0	11.36	0	82.8	61.2	131				
Surr: 4-Bromofluorobenzene		11.14	0	11.36	0	98.1	64.1	120				
Surr: Toluene-d8		10.14	0	11.36	0	89.3	75.1	127				

Sample ID	LCSD	SampType: LCSD	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/8/2007	RunNo: 11798						
Client ID:	ZZZZZ	Batch ID: R11798	TestNo: SW8260B		Analysis Date: 2/8/2007	SeqNo: 174696						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		16.77	0.500	17.04	0	98.4	66.9	140	16.17	3.64	20	
Toluene		19.75	0.500	17.04	0	116	76.6	123	17.18	13.9	20	
Surr: Dibromofluoromethane		7.650	0	11.36	0	67.3	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene		11.26	0	11.36	0	99.1	64.1	120	0	0	0	
Surr: Toluene-d8		11.13	0	11.36	0	98.0	75.1	127	0	0	0	

Sample ID	Icsd	SampType: LCSD	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/9/2007	RunNo: 11813						
Client ID:	ZZZZZ	Batch ID: R11813	TestNo: SW8260B		Analysis Date: 2/9/2007	SeqNo: 174856						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Remediation Risk Management, Inc.
Work Order: 0702019
Project: KCE514

ANALYTICAL QC SUMMARY REPORT

TestNo: SW8260B

Sample ID	Icsd	SampType: LCSD	TestCode: 8260B_W	Units: µg/L	Prep Date: 2/9/2007	RunNo: 11813					
Client ID:	ZZZZZ	Batch ID: R11813	TestNo: SW8260B		Analysis Date: 2/9/2007	SeqNo: 174856					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	15.59	0.500	17.04	0	91.5	66.9	.140	17.12	9.35	20	
Toluene	15.16	0.500	17.04	0	89.0	76.6	123	16.75	9.97	20	
Surr: Dibromofluoromethane	10.50	0	11.36	0	92.4	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	11.92	0	11.36	0	105	64.1	120	0	0	0	
Surr: Toluene-d8	12.06	0	11.36	0	106	75.1	127	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

Company Name: <u>RRM, Inc.</u>			Location of Sampling: <u>900 Central Ave, Alameda</u>		
Address: <u>2560 Soquel Ave. #202</u>			Purpose: <u>KCE514</u>		
City: <u>Santa Cruz</u>	State: <u>CA</u>	Zip Code: <u>95062</u>	Special Instructions / Comments: <u>"EOF" to</u>		
Telephone: <u>831 475 8141</u> FAX: <u>831 475 8249</u>			P.O. #: <u>KCE514</u>		
REPORT TO: <u>Matt Kaempf</u> SAMPLER: <u>W. H. B.</u>			EMAIL: <u>smatt@rrm-sc.com</u> & <u>labdata@rrm-sc.com</u>		

TURNAROUND TIME:

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

SAMPLE TYPE:

- Storm Water Air
 Waste Water Other
 Ground Water
 Soil

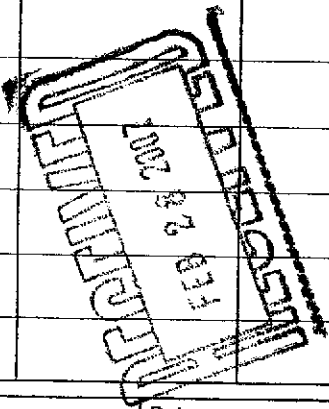
REPORT FORMAT:

- QC Level IV
 EDF
 Excel / EDD

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



LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
	MW-1	020507/1520	L	8 3/2	HCL 100/1L Amber	001A
	MW-2	↓ 1430	↓	↓	↓	002A
	MW-3	↓ 1330	↓	↓	↓	003A



1 Relinquished By: <u>W. H. B.</u> Print: <u>W. H. B.</u>	Date: <u>020507</u>	Time: <u>1700</u>	Received By: <u>Amil</u> Print: <u>Amil</u>	Date: <u>2/5</u>	Time: <u>1700</u>
2 Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment d/u Sample seals intact? Yes NO N/A
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.
 Log In By: NK Date: 2/6 Log In Reviewed By: [Signature] Date: 2/6/07 Page 1 of 1



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

Field Data Sheet
Groundwater Sampling Form

Site Information

2000 Central Ave. MW-1 KCE514
Project Address Well/Sample Point ID Project Number

Alameda Alameda California
City County State

Purge Information

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

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

Purge Calculation		casing diameter		gallons per linear foot	Purged By:
total depth =	18.55	0.75 in.	<input type="checkbox"/>	0.023	(L9) name _____ Purge Notes: _____ _____ _____ _____ _____ Purged Dry?: N circle Y Sampling Delay?: N circle Y
depth to water =	10.40	1 in.	<input type="checkbox"/>	0.04	
linear feet of water =	8.15	2 in.	<input checked="" type="checkbox"/>	0.17	
gallons per linear foot X	.17	4 in.	<input type="checkbox"/>	0.67	
gallons per casing =	1.38	6 in.	<input type="checkbox"/>	1.5	
number of casings X	3	other	<input type="checkbox"/>	calculate	
calculated purge =	4.16	1 cubic foot = 7.48 gallons			

	time (24:00)	gallons (purged)	pH (units)	EC (u s @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1440	0						
volume 1	1445	1.50	6.64	203	17.7	brown	mod.	mod.
volume 2	1448	3.00	6.38	199	17.1	"	"	strong
volume 3	1452	4.50	6.30	209	16.7	brown	heavy.	"
volume 4								
complete								

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

Groundwater Sampling Information

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

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

Sample ID	Date	Time (24:00)
MW-1	020507	1520
Dupe #		12:00

Sampled By: [Signature]
name _____

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input checked="" type="checkbox"/> TPH gas (8260B)	40 ml	HCl
	<input checked="" type="checkbox"/> BTEX (8020 or 8260B)		
	<input type="checkbox"/> MIBE (8270)		
	<input type="checkbox"/> Fuel Oxy (8270)		
	<input type="checkbox"/> Other (specify) _____		
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B)	40 ml VOA	HCl
	<input type="checkbox"/> TPH diesel (8045M) 8270	1 liter amber	none
	<input type="checkbox"/> Metals (8010)	500 ml plastic	HNO ₃
	<input type="checkbox"/> Other (specify) _____		

Sampling Notes: _____

Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: 020507 Well ID: MW-1	Well Diameter: 2"	Estimated Purge: 13.80
Station / Project #: KCE514	Well Material: PVC	Actual Purge:
Site Address: 900 Central	Well Total Depth: 18.55	Well Type:
City: Alameda	Screen Interval:	Groundwater Monitoring Well: <input checked="" type="checkbox"/>
County / State: Alameda/CA	Filter Pack Interval:	Groundwater Extraction Well:
Field Technician: Will B.	Filter Pack Material:	Sparge/Dual Purpose Well:

Well Development Method

Submersible Pump _____ Bailer Surge Block / Swab Other _____

Well Development Data

TIME	DEPTH		GALLONS		MEASUREMENTS				
	To Water	To Bottom	Pumped	Total	pH	Conductivity	Temp.	Turbidity	Notes
1440	10.40	18.55	—	—	—	—	—	—	
1445	12.70	"	1.50	1.50	6.64	203	17.7	brown mod.	
1448	13.20	"	1.50	3.00	6.39	199	17.1	"	surged for 2 min w/ block
1452	13.80	18.75	1.50	4.50	6.30	209	16.7	brown silty hvy.	strong odor
1455	14.00	"	1.50	6.00	6.38	238	16.8	"	"
1458	14.55	"	1.50	7.50	6.38	262	16.8	"	"
1500	15.40	"	1.50	9.00	6.38	285	16.9	"	"
1503	15.60	"	1.50	10.50	6.42	295	16.9	"	"
1505	15.60	"	1.50	12.00	6.46	297	16.9	"	"
1510	14.55	18.73	2.00	14.00	6.52	308	16.8	"	"
									samples taken → 1520

Signature: _____

Will B.

Field Data Sheet
Groundwater Sampling Form



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

Site Information
 100 Central Ave.
 Project Address
 Alameda City Alameda County California State
 MW-2 Well/Sample Point ID KCE514 Project Number

Purge Information

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

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

Purge Calculation

total depth =	18.40
depth to water =	10.15
linear feet of water =	8.25
gallons per linear foot X	.17
gallons per casing =	1.40
number of casings X	3
calculated purge =	4.21

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

Purged By: WJ
 name
 Purge Notes:

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

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1345	0						
volume 1	1356	1.50	6.85	136	15.8	brown	WJ	mod.
volume 2	1359	3.00	6.32	145	15.6	"	"	"
volume 3	1402	4.50	6.28	147	15.6	"	"	slight
volume 4	see development sheet for additional casing 3.							
complete								

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

Groundwater Sampling Information

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

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

Sample ID: MW-2 Date: 020507 Time (24:00): 14.30
 Dupe #: _____ 12:00

Sampled By: WJ
 name

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8270) <input type="checkbox"/> Fuel Oxy (8270) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input checked="" type="checkbox"/> TPH diesel (8015M) 8270 <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes:

 Signature: WJ



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: 020507	Well ID: Mw-2	Well Diameter: 2"	Estimated Purge: 14,00
Station / Project #: KCES14	Well Material: PVC	Well Total Depth: 18.40	Actual Purge:
Site Address: 900 Central	Screen Interval:	Well Type:	Groundwater Monitoring Well: <input checked="" type="checkbox"/>
City: Alameda	Filter Pack Interval:	Groundwater Extraction Well:	Sparge/Dual Purpose Well:
County / State: Alameda/CA	Filter Pack Material:		
Field Technician: W.H.B.			

Well Development Method

Submersible Pump
 Bailer
 Surge Block / Swab
 Other

Well Development Data

TIME	DEPTH		GALLONS		MEASUREMENTS					
	Start	To Water	To Bottom	Pumped	Total	pH	Conductivity	Temp.	Turbidity	Notes
1345	10.15	18.40	Surged for ~2 min Bailed 1.50	1.50	1.50	6.85	136	15.8	Brown Hvy.	
1359	11.85	18.30	1.50	3.00	6.32	145	15.6	Salty brown Hvy.		
1402	12.27	"	1.50	4.50	6.24	147	15.6	"		
1404	12.39	"	1.50	6.00	6.27	150	15.6	"		
1407	12.65	"	1.50	7.50	6.28	149	15.5	"		
1409	12.95	"	1.50	9.00	6.32	153	15.6	"	surged for ~1 min w/ block	
1412	12.55	18.45	1.50	10.50	6.26	138	15.5	"		
1415	12.75	"	1.50	12.00	6.25	145	15.5	"		
1418	12.90	"	1.50	13.50	6.25	149	15.4	"		
1420	13.20	18.40	1.50	15.00	6.25	156	15.6	"		
									sampled at →	1430

Signature: _____

RRM, Inc.

5/a

Field Data Sheet
Groundwater Sampling Form



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

Site Information

2000 Central Ave.
 Project Address

Alameda
 City

Alameda
 County

California
 State

MW-3
 Well/Sample Point ID

KCE514
 Project Number

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

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

Purge Calculation

total depth = 18.40
 depth to water = 9.85
 linear feet of water = 8.55
 gallons per linear foot X .17
 gallons per casing = 1.45
 number of casings X 3
 calculated purge = 4.35

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

Purged By: CS
 name

Purge Notes:
Due to increasing turbidity and
not a steady refresh rate
additional casings to

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

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1220	0						
volume 1	1230	1.50	8.10	324	17.6	brown	mod.	mod.
volume 2	1232	3.00	7.63	273	17.4	"	"	"
volume 3	1235	4.50	7.55	272	17.6	"	hvy.	"
volume 4	see well develop next sheet for additional casings.							
complete								

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

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

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

Sample ID: MW-3 Date: 020507 Time (24:00): 1245 1330
 Dupe #: _____ 12:00

Sampled By: CS
 name

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
<u>3</u>	<input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8270) <input type="checkbox"/> Fuel Oxy (8270) <input type="checkbox"/> Other (specify) _____	<u>40 ml</u> <u>VOA</u>	<u>HCl</u>
<u>2</u>	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input checked="" type="checkbox"/> TPH diesel (8015M) <u>8270</u> <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	<u>40 ml VOA</u> <u>liter amber</u> 500 ml plastic	<u>HCl</u> <u>none</u> HNO ₃

Sampling Notes:

Signature: WILK



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: <u>020507</u> Well ID: <u>MW-3</u>	Well Diameter: <u>2"</u>	Estimated Purge: <u>14.50</u>
Station / Project #: <u>KCE514</u>	Well Material: <u>PVC</u>	Actual Purge:
Site Address: <u>900 Central</u>	Well Total Depth: <u>18.40</u>	Well Type:
City: <u>Alameda</u>	Screen Interval:	Groundwater Monitoring Well: <input checked="" type="checkbox"/>
County / State: <u>Alameda, CA</u>	Filter Pack Interval:	Groundwater Extraction Well:
Field Technician: <u>Will B.</u>	Filter Pack Material:	Sparge/Dual Purpose Well:

Well Development Method

Submersible Pump _____ Bailer Surge Block / Swab Other _____

Well Development Data

TIME	DEPTH		GALLONS		MEASUREMENTS				
	Start	To Water	To Bottom	Pumped	Total	pH	Conductivity	Temp.	Turbidity
1220	9.85	18.40	1.50	1.50	8.10	324	17.6	mod	
1232	-	"	1.50	3.00	7.63	273	17.4	"	
1235	-	"	1.50	4.50	7.55	272	17.6	hvy.	
1250	10.55	"	1.50	6.00	7.08	268	17.5	hvy	
1255	10.84	"	1.50	7.50	7.01	274	17.4	"	
1259	11.11	"	1.50	9.00	6.85	272	17.6	"	Surged for ~1 min w/ block
1310	10.75	18.85	1.50	10.50	6.87	261	17.8	HVY	
1315	11.25	"	1.50	12.00	6.66	261	17.2	"	
1317	11.55	"	1.50	13.50	6.63	266	17.1	"	
1320	11.21	18.70	1.50	15.00	6.64	265	17.0	"	
									sampled at 1330

Signature: *Will B.*

RRM, Inc.

7/9



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

**FIELD
DATA SHEET**

Client: <u>David Thompson</u>	Project #: <u>KCE 514</u>
Job Address: <u>900 Central Ave., Alameda.</u>	Date: <u>02 05 07</u>
Weather Conditions: <u>clear</u>	Personnel: <u>EWB</u>
Equipment on site: <u>sm. truck, sampling equipment.</u>	
Arrival Time: <u>1130</u>	
Departure Time: <u>1550</u>	

FIELD NOTES:

walk through site, prepare for work
1135 ~~Prep~~ Begin DTW measurements
1155 - Finish " " , begin purge calculations
1205 Begin sampling.
1250 Regulator/County official - Steve Puntsett arrives
1330 " " " " departs
1520 met w/ resident of apartment building and explained activities
1525 Finish sampling, begin clean up.

Signature: EWB

8/8

CHAIN OF CUSTODY

LAB WORK ORDER NO

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

Company Name: RRM, Inc. Location of Sampling: 900 Central Ave, Alameda
 Address: 2560 Soquel Ave. #202 Purpose: KCE514
 City: Santa Cruz State: CA Zip Code: 95062 Special Instructions / Comments: "EDF" to
 Telephone: 831 475 8141 FAX: 831 475 8249
 REPORT TO: Matt Kevempf SAMPLER: Will B. P.O. #: KCE514 EMAIL: symatt@rrm-sc.com & labdata@rrm-sc.com

TURNAROUND TIME:

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

SAMPLE TYPE:

- Storm Water Air
 Waste Water Other
 Ground Water
 Soil

REPORT FORMAT:

- QC Level IV
 EDF
 Excel / EDD

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

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	EPA 8260B - Full List	EPA 8260B - 8010 List	THP gas	BTEX	Oxygenates	MTBE	THP Diesel	SI-Gel	Motor Oil	Pesticide - 8081	PCB - 8082	Metals	CAM - 17	LUFT 5	7 Metals	8270 Full List	PAHs Only	REMARKS	
	MW-1	020507/1520	L	3/2	HCL 100% Amber			X																
	MW-2	↓ 1430	↓	↓	↓			↓																
	MW-3	↓ 1330	↓	↓	↓			↓																

1. Relinquished By: Will Becker Print: W. Becker Date: 020507 Time: 1700
 Received By: Amil Print: Amil Date: 2/5 Time: 1700

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

Field Data Sheet
Depth to Water Data Form



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

Site Information

Project Address: 1000 Central Ave. Date: 020507 Project Number: KCE514
 City: Alameda County: Alameda State: California

Water Level Equipment

- Electronic Indicator
- Oil Water Interface Probe
- Other (specify) _____

Measured By: WAB
name

Notes: _____

DTW Order	Well ID	Time (24:00)	Total Depth	First DTW (to) or (tob)	Total Depth (toc or tob)	Depth to SPH (toc or tob)	SPH Thickness (toc or tob)	Notes (describe SPH):
#3	MW-1	1152	18.55	10.40				
#2	MW-2	1149	18.40	10.15				
#1	MW-3	1147	18.40	9.85				

Signature: WAB

Field Data Sheet
Groundwater Sampling Form



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

Site Information

2000 Central Ave. MW-1 KCE514
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

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

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

Purge Calculation

total depth = 18.55
 depth to water = 10.40
 linear feet of water = 8.15
 gallons per linear foot X .17
 gallons per casing = 1.38
 number of casings X 3
 calculated purge = 4.16

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

1 cubic foot = 7.48 gallons

Purged By: LD
 name

Purge Notes:

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

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1440	0						
volume 1	1445	1.50	6.64	203	17.7	brown	mod.	mod.
volume 2	1448	3.00	6.38	199	17.1	"	"	strong
volume 3	1452	4.50	6.30	209	16.7	brown	heavy	"
volume 4								
complete								

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

Groundwater Sampling Information

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

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

Sample ID	Date	Time (24:00)
MW-1	020507	1520
Dupe # _____		12:00

Sampled By: [Signature]
 name

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MtBE (8270) <input type="checkbox"/> Fuel Oxy (8270) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input checked="" type="checkbox"/> TPH diesel (8046M) 8270 <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl None HNO ₃

Sampling Notes:

Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: 020507	Well ID: MW-1	Well Diameter: 2"	Estimated Purge: 13.80
Station / Project #: KCE514		Well Material: PVC	Actual Purge:
Site Address: 900 Central		Well Total Depth: 18.55	Well Type:
City: Alameda		Screen Interval:	Groundwater Monitoring Well: <input checked="" type="checkbox"/>
County / State: Alameda/CA		Filter Pack Interval:	Groundwater Extraction Well:
Field Technician: Will B.		Filter Pack Material:	Sparge/Dual Purpose Well:

Well Development Method

Submersible Pump _____ Bailer Surge Block / Swab Other _____

Well Development Data

TIME	DEPTH		GALLONS		MEASUREMENTS					
	Start	To Water	To Bottom	Pumped	Total	pH	Conductivity	Temp.	Turbidity	Notes
1440	10.40	18.55	—	—	—	—	—	—	—	
1445	12.70	"	1.50	1.50	6.64	203	17.7	brown mod.		
1448	13.20	"	1.50	3.00	6.39	199	17.1	"	summed for ~ 2 min w/ block	
1452	13.50	18.75	1.50	4.50	6.20	209	16.7	brown silty hv. y.	strange odor	
1455	14.00	"	1.50	6.00	6.38	238	16.8	"	"	
1458	14.55	"	1.50	7.50	6.38	262	16.8	"	"	
1500	15.40	"	1.50	9.00	6.38	285	16.9	"	"	
1503	15.60	"	1.50	10.50	6.42	295	16.9	"	"	
1505	15.60	"	1.50	12.00	6.46	297	16.9	"	"	
1510	14.55	18.73	2.00	14.00	6.52	308	16.8	"	"	
										samples taken → 1520

Signature: Will B.

Field Data Sheet
Groundwater Sampling Form



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

Site Information
 2000 Central Ave.
 Project Address
 Alameda City Alameda County California State
 MW-2 Well/Sample Point ID KCE514 Project Number

Purge Information

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

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

Purge Calculation

total depth =	18.40
depth to water =	10.15
linear feet of water =	8.25
gallons per linear foot X	.17
gallons per casing =	1.40
number of casings X	3
calculated purge =	4.21

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

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name _____
 Purge Notes: _____

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

	time (24:00)	gallons (purged)	pH (units)	EC (µs @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1345	0						
volume 1	1356	1.50	6.85	136	15.8	brown	hvy	mod.
volume 2	1359	3.00	6.32	145	15.6	"	"	"
volume 3	1402	4.50	6.28	147	15.6	"	"	slight
volume 4	see development sheet for additional casing?							
complete								

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

Groundwater Sampling Information

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

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

Sample ID	Date	Time (24:00)
MW-2	020507	14.30
Dupe # _____		12:00

Sampled By: [Signature]
 name _____

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8270) <input type="checkbox"/> Fuel Oxy (8270) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) 8270 <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes: _____

 Signature: [Signature]



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: 020507	Well ID: MW-2	Well Diameter: 2"	Estimated Purge: 14,00
Station / Project #: KCES14	Well Material: PVC	Well Total Depth: 18.40	Actual Purge:
Site Address: 900 Central	Screen Interval:	Well Type:	Groundwater Monitoring Well: <input checked="" type="checkbox"/>
City: Alameda	Filter Pack Interval:	Groundwater Extraction Well:	
County / State: Alameda/CA	Filter Pack Material:	Sparge/Dual Purpose Well:	
Field Technician: WJB			

Well Development Method

Submersible Pump _____ Bailer Surge Block / Swab Other _____

Well Development Data

TIME	DEPTH		GALLONS		MEASUREMENTS				
	To Water	To Bottom	Pumped	Total	pH	Conductivity	Temp.	Turbidity	Notes
1345	10.15	18.40	Surged for ~2 min Bailed 150	1.50	6.85	136	15.8	brown Hwy.	
1359	11.85	18.30	1.50	3.00	6.32	145	15.6	Salty brown Hwy.	
1402	12.27	"	1.50	4.50	6.24	147	15.6	"	
1404	12.39	"	1.50	6.00	6.27	150	15.6	"	
1407	12.65	"	1.50	7.50	6.28	149	15.5	"	
1409	12.95	"	1.50	9.00	6.32	153	15.6	"	surged for ~1 min w/ block
1412	12.55	18.45	1.50	10.50	6.26	138	15.5	"	
1415	12.75	"	1.50	12.00	6.25	145	15.5	"	
1418	12.90	"	1.50	13.50	6.25	149	15.4	"	
1420	13.20	18.40	1.50	15.00	6.25	156	15.6	"	
								sampled at →	1430

Signature: _____

RRM, Inc.

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Field Data Sheet
Groundwater Sampling Form



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

Site Information

2000 Central Ave.
 Project Address
 Alameda
 City

Alameda
 County

MW-3
 Well/Sample Point ID
 KCE514
 Project Number
 California
 State

Purge Information

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

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

Purge Calculation	
total depth =	18.40
depth to water =	9.85
linear feet of water =	8.55
gallons per linear foot X	.17
gallons per casing =	1.45
number of casings X	3
calculated purge =	4.36

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

Purged By: ES
 name

Purge Notes:
Due to increasing turbidity and
pot and steady refresh rate
additional casings to

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

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1220	0						
volume 1	1230	1.50	8.10	324	17.6	brown	mod.	mod.
volume 2	1232	3.00	7.63	273	17.4	"	"	"
volume 3	1235	4.50	7.55	272	17.6	"	hvy.	"
volume 4	see well develop next sheet for additional casings.							
complete								

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

Groundwater Sampling Information

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

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

Sample ID: MW-3 Date: 020507 Time (24:00): 1245 1330
 Dupe #: _____ 12:00

Sampled By: ES
 name

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input checked="" type="checkbox"/> TPH gas (8260B) <input checked="" type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8270) <input type="checkbox"/> Fuel Oxy (8270) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input checked="" type="checkbox"/> TPH Diesel (8015M) 8270 <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes:

Signature: WILSON



Well Development Form

General Information

Well Construction Information

Well Development Summary

Date: <u>020507</u>	Well ID: <u>Mw-3</u>	Well Diameter: <u>2"</u>	Estimated Purge: <u>14.50</u>
Station / Project #: <u>KCE 514</u>	Well Material: <u>PVC</u>	Well Total Depth: <u>18.40</u>	Actual Purge:
Site Address: <u>900 Central</u>	Screen Interval:	Well Type:	Groundwater Monitoring Well: <input checked="" type="checkbox"/>
City: <u>Alameda</u>	Filter Pack Interval:	Groundwater Extraction Well:	
County / State: <u>Alameda, CA</u>	Filter Pack Material:	Sparge/Dual Purpose Well:	
Field Technician: <u>Will B.</u>			

Well Development Method

Submersible Pump _____ Bailer Surge Block / Swab Other _____

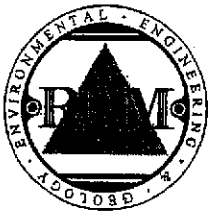
Well Development Data

TIME	DEPTH		GALLONS		MEASUREMENTS				Notes
	Start	To Water	To Bottom	Pumped	Total	pH	Conductivity	Temp.	
1220	9.85	18.40	1.50	1.50	8.10	324	17.6	mod	
1232	-	"	1.50	3.00	7.63	273	17.4	"	
1235	-	"	1.50	4.50	7.55	272	17.6	hvy.	
1250	10.55	"	1.50	6.00	7.08	268	17.5	hvy.	
1255	10.84	"	1.50	7.50	7.01	274	17.4	"	
1259	11.11	"	1.50	9.00	6.85	272	17.6	"	Surged for ~1 min w/ block
1310	10.75	18.85	1.50	10.50	6.87	261	17.8	HVY	
1315	11.25	"	1.50	12.00	6.66	261	17.2	"	
1317	11.55	"	1.50	13.50	6.63	266	17.1	"	
1320	11.21	18.70	1.50	15.00	6.64	265	17.0	"	
									sampled at 1330

Signature: *Will B.*

RRM, Inc.

7/9



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

**FIELD
DATA SHEET**

Client: David Thompson Project #: KCE 814
Job Address: 900 Central Ave., Alameda. Date: 02 05 07
Weather Conditions: clear Personnel: (WB)
Equipment on site: sm. truck, sampling equipment.
Arrival Time: 1130
Departure Time: 1550

FIELD NOTES:

Walk through site, prepare for work
1135 ^{WB} ~~Proper~~ Begin DTW measurements
1155 - Finish " " , begin purge calculations
1205 Begin sampling.
1250 Regulator/County official - Steve Pentecott arrives
1330 " " " " departs
1520 met w/ resident of apartment building and explained activities
1525 Finish sampling, begin clean up.

Signature: [Signature]

8/9

CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

LAB NO:	ORDER NO:
---------	-----------

Company Name: <u>RRM, Inc.</u>			Location of Sampling: <u>900 Central Ave, Alameda</u>		
Address: <u>2560 Soquel Ave. #202</u>			Purpose: <u>KCE514</u>		
City: <u>Santa Cruz</u>	State: <u>CA</u>	Zip Code: <u>95062</u>	Special Instructions / Comments: <u>"EDF" to</u>		
Telephone: <u>831 475 8141</u> FAX: <u>831 475 8249</u>			P.O. #: <u>KCE514</u>		
REPORT TO: <u>Matt Kavempf</u> SAMPLER: <u>Will B.</u>			EMAIL: <u>Smatt@rrm-sc.com & labdata@rrm-sc.com</u>		

TURNAROUND TIME:

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

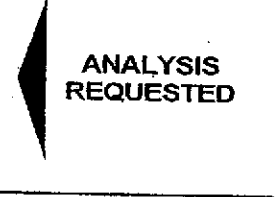
SAMPLE TYPE:

- Storm Water Air
 Waste Water Other
 Ground Water
 Soil

REPORT FORMAT:

- QC Level IV
 EDF
 Excel / EDD

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



LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	EPA 8260B - Full List	EPA 8260B - 8010 List	THP Gas	BTEX	Oxygenates	MTBE	THP Diesel	Si-Gel	Motor Oil	Pesticide - 8081	PCB - 8082	Metals	CAM - 17	LUFT 5	7 Metals	8270 Full List	PAHs Only	REMARKS	
	MW-1	020507/1520	L	83/2	Hcl / 1L Amber			X																
	MW-2	↓ 1430	↓	↓	↓			↓																
	MW-3	↓ 1330	↓	↓	↓			↓																

1 Relinquished By: <u>Will Bacher</u> Print: <u>Will Bacher</u>	Date: <u>020507</u>	Time: <u>1700</u>	Received By: <u>Will Bacher</u> Print: <u>Will Bacher</u>	Date: <u>2/5</u>	Time: <u>1700</u>
2 Relinquished By: _____ Print: _____	Date: _____	Time: _____	Received By: _____ Print: _____	Date: _____	Time: _____

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment d/u Sample seals intact? Yes NO N/A
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.
 Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: _____ Page 1 of 1