RO-2522

ENVIRONMENTAL MANAGEMENT, INC.

Alameda County

FEB 18 2003

Environmental Health

February 7, 2003
KHM Project C81-6750 Santa Rita

Ms. Danielle Stefani
Hazardous Materials Coordinator
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Re: Site Assessment Report
Shell Service Station
6750 Santa Rita Road
Pleasanton, California

Dear Ms. Stefani

KHM Environmental Management, Inc. (KHM) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL) has prepared this Site Assessment Report for the above referenced site (Figure 1). The Groundwater Assessment Program (GRASP) activities initiated at the above referenced site on October 8, 2002, revealed detectable concentrations of petroleum hydrocarbons in the groundwater.

BACKGROUND

GRASP is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more public water supply wells. The purpose of this program is to proactively monitor the groundwater beneath these sites and, in the event of a subsurface release, to respond quickly to protect public wells from this impact.

GRASP WELL INSTALLATION

On October 8 and 9, 2002, KHM Environmental (KHM) supervised the drilling and installation of four groundwater monitoring wells (MW-1 through MW-4). Well locations are shown on Figure 2. KHM obtained a well permit from the Zone 7 Water Agency to install these wells (Appendix A). Well construction details are displayed in the boring logs presented in Appendix B. Well development sheets are included in Appendix C. Site survey data is included as Appendix D.

ANALYTICAL FINDINGS

Soil samples were taken during the drilling of site wells. Soil samples with a photoionization detector (PID) reading greater than 10 parts per million were analyzed for the presence of petroleum hydrocarbons and fuel oxygenates. Soil analytical results are summarized in Table 1, and displayed within Figure 3. Certified analytical results and chain-of-custody documentation for soil are presented as Appendix E. After well development, on December 4, 2002, the monitoring wells were sampled and analyzed for chemical impacts. Groundwater analytical data is summarized in Table 2 and presented in Figure 4. A groundwater elevation contour map is presented as Figure 2. Well gauging data sheets are included in Appendix F. Certified analytical results and chain-of-custody documentation for groundwater are presented in Appendix G.

UNAUTHORIZED RELEASE REPORT

The previously submitted **Unauthorized Release Report dated January 6, 2003** is included as Appendix H for your reference.

If you have any questions regarding this site, please contact Lee Dooley (KHM) at (408) 224-4724 or Lynn Walker (SHELL) at (925) 706-1559.

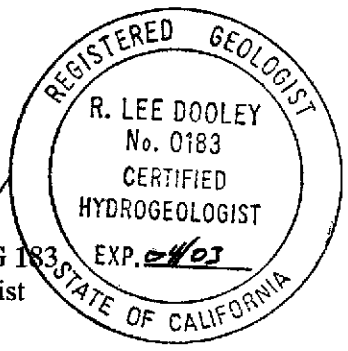
Sincerely,
KHM Environmental Management, Inc.

D. Arnold

Debbie Arnold
Project Geologist

R Lee Dooley

R. Lee Dooley, CHG 183
Senior Hydrogeologist



CC: Lynn Walker, Shell Oil Products US (PDF by email)
Karen Petryna, Shell Oil Products US (PDF by email)
Isabel Mejia, Shell Oil Products US
Chuck Headlee, RWQCB San Francisco Region
Donna Drogos, Alameda County Environmental Health Services

ATTACHMENTS:

- Table 1 – Soil Analytical Data
- Table 2 – Groundwater Gauging and Analytical Data
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Soil Map
- Figure 4 – Hydrocarbon Distribution in Groundwater Map
- Appendix A - Well Permit
- Appendix B – Boring Logs
- Appendix C – Well Development Field Data Sheets
- Appendix D – Site Survey Data
- Appendix E – Soil Laboratory Report and Chain-of-Custody Documentation
- Appendix F – Well Gauging Data
- Appendix G – Groundwater Laboratory Report and Chain-of-Custody Documentation
- Appendix H – Unauthorized Release Report

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
6750 Santa Rita Road
Pleasanton, California

Sample I.D.	Sample Collection Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
MW-2 20'	10/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3 20'	10/09/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5

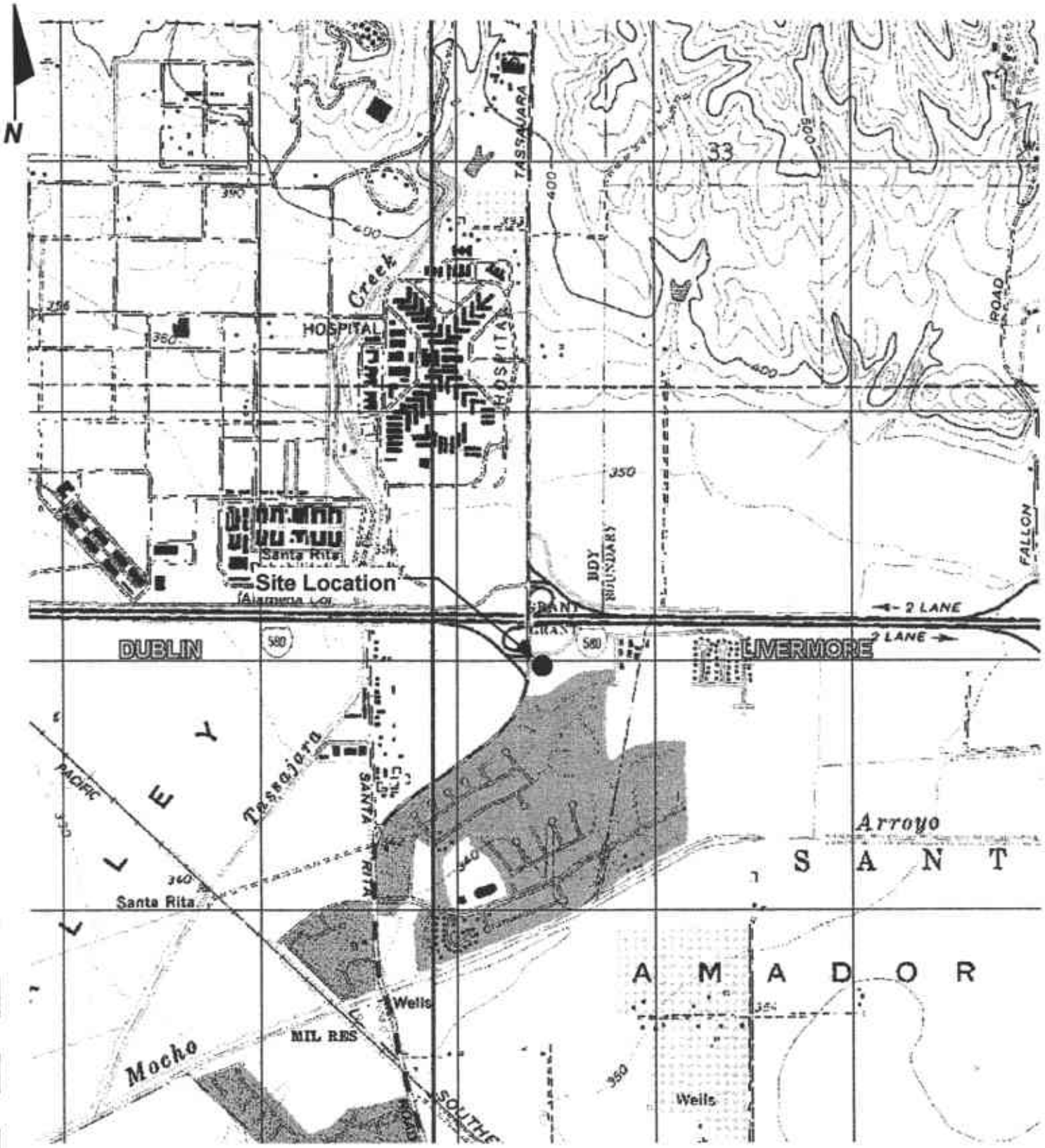
Notes:

All data reported in milligrams per kilogram (mg/kg)
TPH-g - Total Petroleum Hydrocarbons as gasoline
MTBE - Methyl tert-butyl ether
DIPE - Di-isopropyl ether
ETBE - Ethyl tert-butyl ether
TAME - Tert-amyl methyl ether
TBA - Tert-Butanol
<n = Below the detection limit
TPH-g quantified using EPA Method 8260B
BTEX Compounds, MTBE, DIPE, ETBE, TAME, and TBA analyzed using EPA Method 8260B

TABLE 2
GROUNDWATER GAUGING AND ANALYTICAL DATA
6750 Santa Rita Road
Pleasanton, California

Sample I.D.	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	TOC Elevation[1] (feet)	Depth to GW (feet)	SPH Thickn. (feet)	GW Elev.[1] (feet)
MW-1	12/20/02	<50	**81**	<0.50	<0.50	<0.50	<0.50	**62**	<2.0	<2.0	<2.0	<50	343.48	31.93	0.00	311.55
MW-2	12/20/02	<200	**120**	<2.0	<2.0	<2.0	<2.0	**660**	<2.0	<2.0	<2.0	<50	342.86	30.70	0.00	312.16
MW-3	12/20/02	<2000	**72**	<20	<20	<20	<20	**8,000**	<20	<20	<20	**1,500**	342.23	31.10	0.00	311.13
MW-4	12/20/02	<50	<50	<0.50	<0.50	<0.50	<0.50	**93**	<2.0	<2.0	<2.0	<50	343.44	32.20	0.00	311.24

Notes:
All data reported in micrograms per liter (µg/l)
TOC = Top of well casing
SPH = Separate-phase hydrocarbons
TPH-G = Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
TBA = Tert-Butanol
<n = Below the detection limit
TPH-G quantified using EPA Method 8260B
BTEX Compounds, MTBE, DIPE, ETBE, TAME, and TBA analyzed using **EPA Method 8260B**
[1]TOC elevation and groundwater elevation relative to Mean Sea Level



0 1,800 3,600

Scale, Feet

Map Source: DeLorme, Yarmouth, ME 04096, USGA Topo Map

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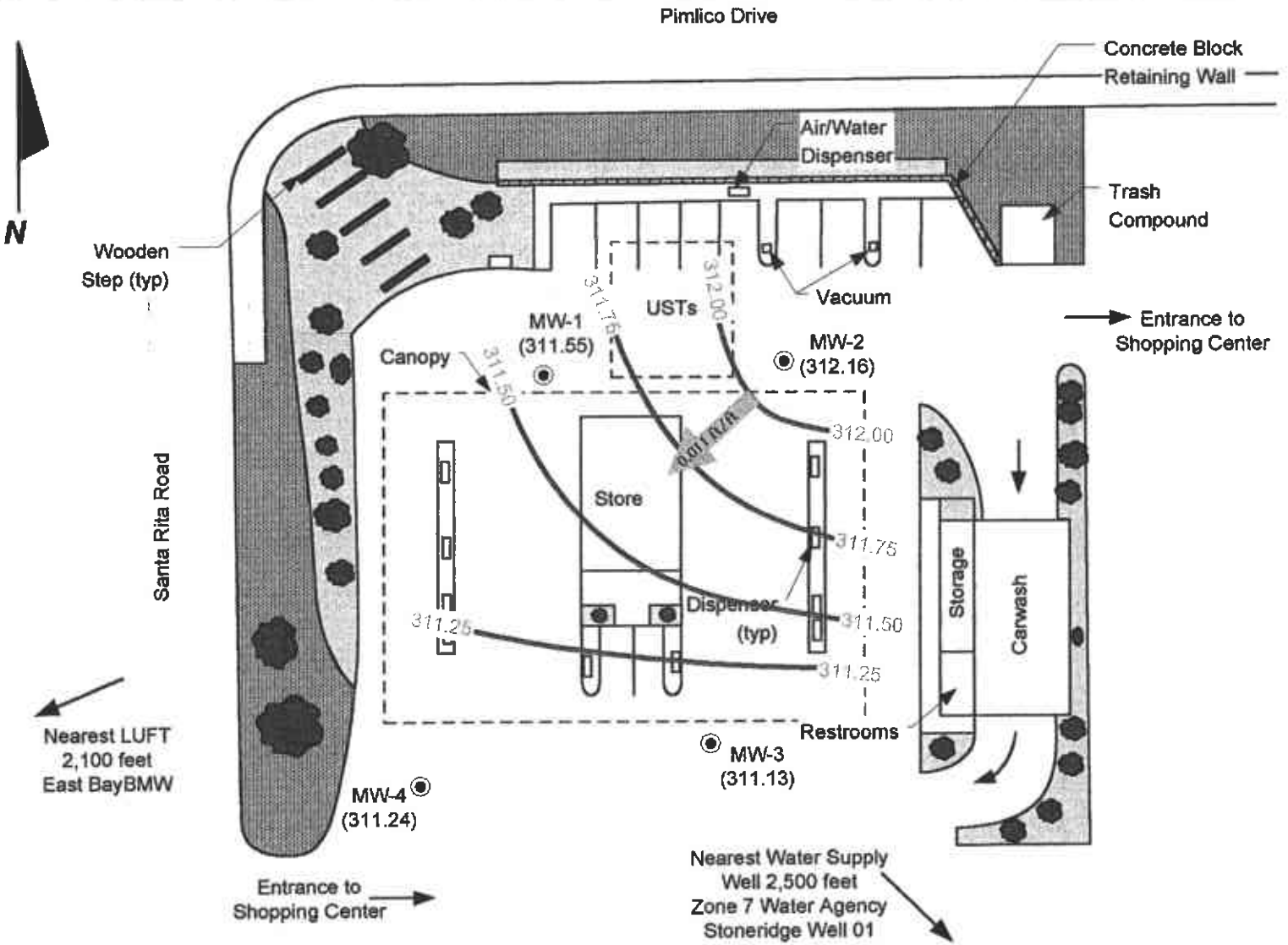
SITE LOCATION MAP

Shell Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
11/25/02	C81-6750 Santa Rita	1



LEGEND

- MW-4 ◉ GROUNDWATER MONITORING WELL
- (311.24) GROUNDWATER ELEVATION (FEET-MSL), 12/20/02
- 311.25 GROUNDWATER ELEVATION CONTOUR
- 0.011 ft/ft APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT
- PLANTER
- GRASS
- SHRUB

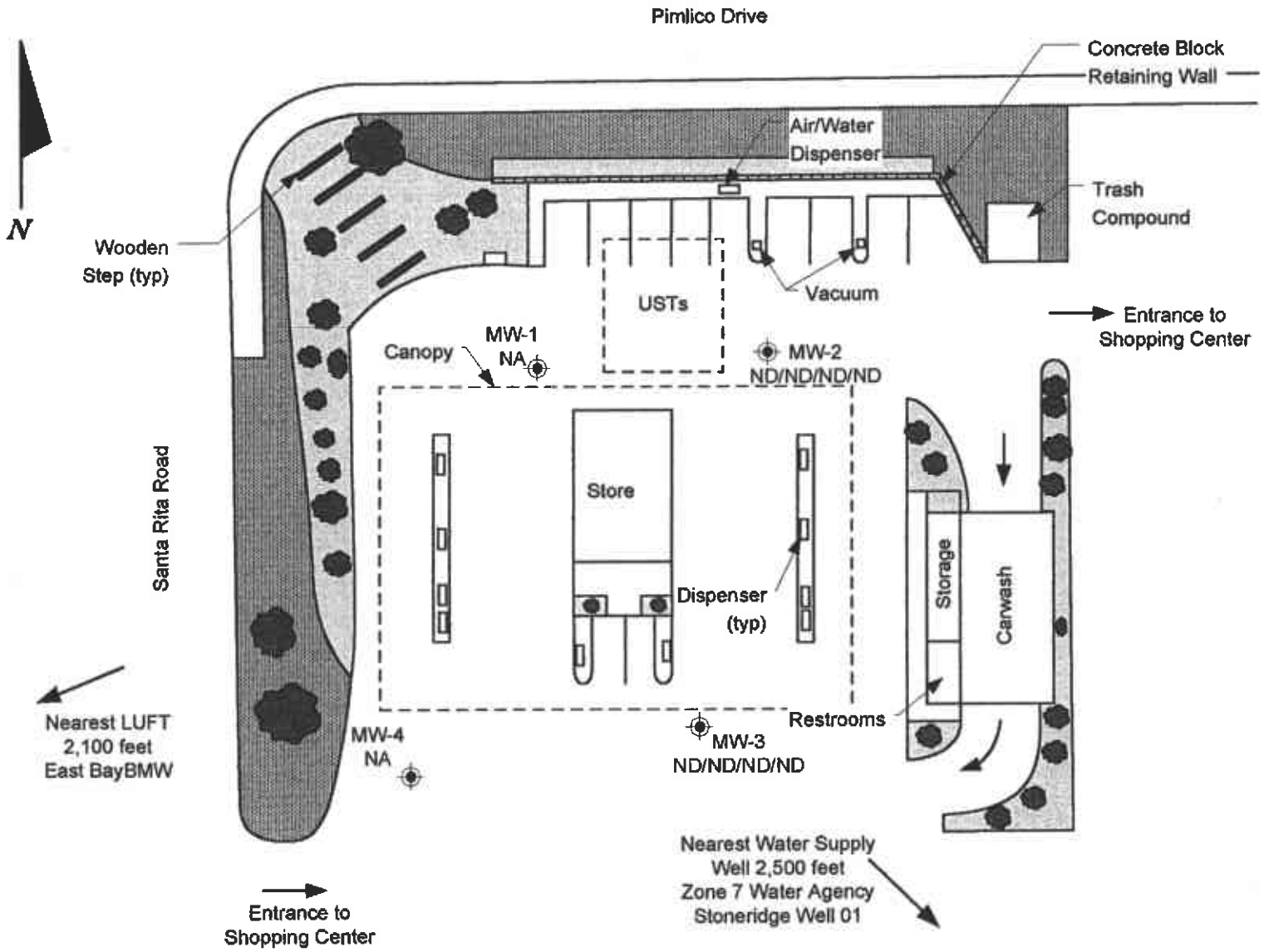
0 ft. 40 ft. 80 ft.

KHM ENVIRONMENTAL MANAGEMENT, INC.

GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 20, 2002

Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
01/03/09	C81-6750 Santa Rita	2



LEGEND

- ⊕ **GROUNDWATER MONITORING WELL**
- ND/ND/1.80/ND **MAXIMUM CONCENTRATIONS OF TPH-G/BENZENE/MTBE/TBA IN SOIL SAMPLED ON OCTOBER 8 AND 9, 2002 (mg/kg)**
- ND **NOT DETECTED AT LABORATORY LIMITS**
- NA **NO SAMPLE ANALYZED**

KHM
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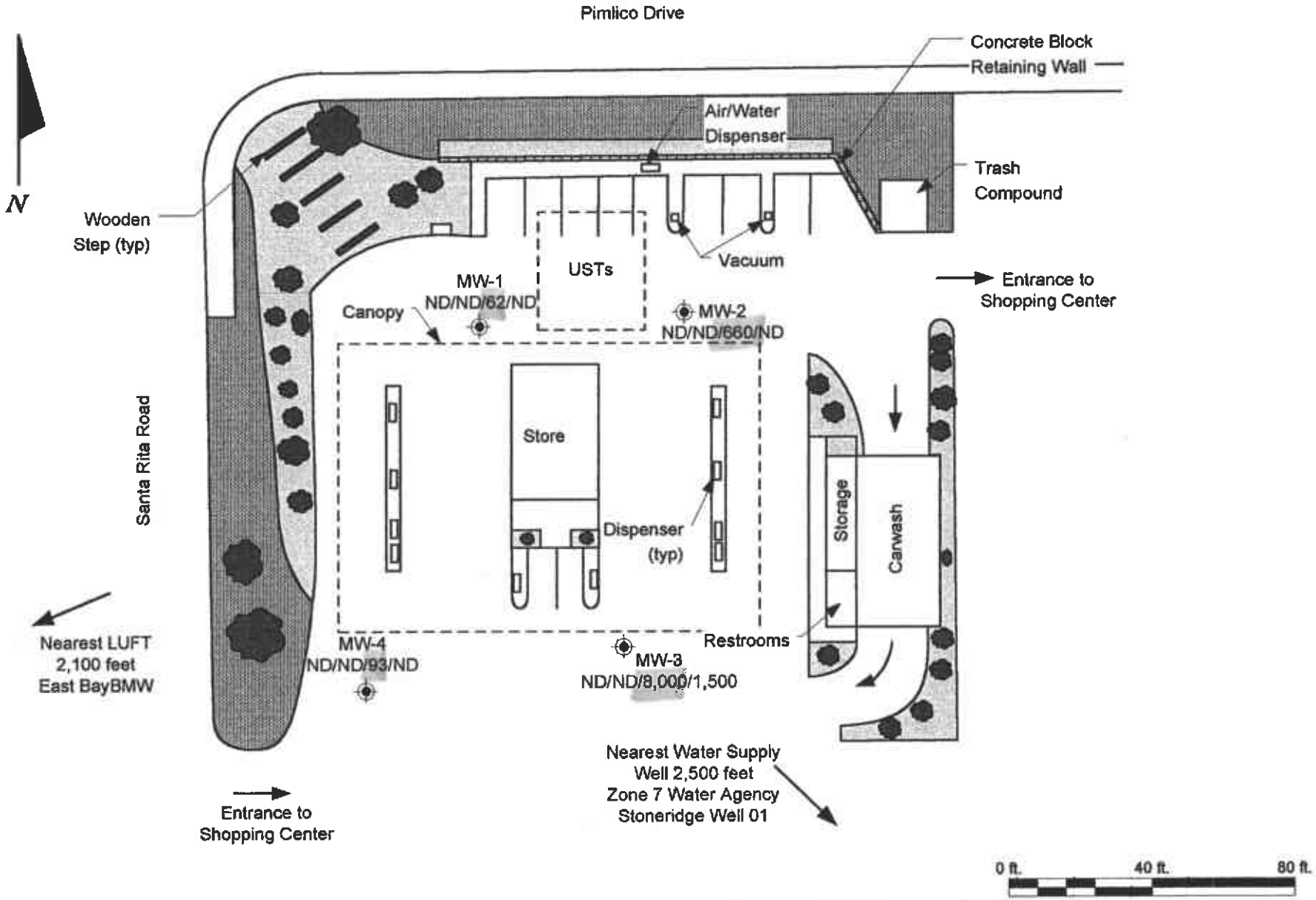
MAXIMUM HYDROCARBON CONCENTRATION DISTRIBUTION IN SOIL MAP

Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
02/05/03	C81-6750 Santa Rita	3



LEGEND

- ⌖ **GROUNDWATER MONITORING WELL**
- ND/ND/.59/ND **CONCENTRATIONS OF TPH-G/BENZENE/MTBE/TBA IN GROUNDWATER SAMPLED ON DECEMBER 20, 2002 (µg/l)**
- ND **NOT DETECTED AT LABORATORY LIMITS**

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HYDROCARBON DISTRIBUTION IN GROUNDWATER MAP

Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
02/05/03	C81-6750 Santa Rita	4

APPENDIX A

WELL PERMIT

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 6750 Santa Rita Rd., Pleasanton

California Coordinates Source _____ Accuracy: _____ ft.
CCN _____ ft. DCE _____ ft.
APN 946-1101-33

CLIENT
Name Shell Oil Products U.S.
Address P.O. Box _____ Phone _____
City Burbank Zip _____

APPLICANT
Name KHM Environmental Management Inc. Fax # 408-224-4518
Address 6334 San Ignacio Ave. E Phone 408-224-4524
City San Jose Zip 95119

TYPE OF PROJECT:

Well Construction	☒	Geotechnical Investigation	☐
Well Destruction	☐	Contamination Investigation	☐
Cathodic Protection	☐	Other _____	☐

PROPOSED WELL USE:

Domestic	☐	Irrigation	☐
Municipal	☐	Remediation	☐
Industrial	☐	Groundwater Monitoring	☒
Dewatering	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Hollow Stem Auger	☒
Cable Tool	☐	Direct Push	☐	Other _____	☐

DRILLING COMPANY Gregg Drilling
DRILLER'S LICENSE NO. C57 485165

WELL SPECIFICATIONS:
Drill Hole Diameter 8 in. Maximum Depth 40 ft.
Casing Diameter 2 in. Number MW-1 TO MW-4
Surface Seal Depth 25 ft.

SOIL BORINGS:
Number of Borings _____ Maximum Depth _____ ft.
Hole Diameter _____ in.

ESTIMATED STARTING DATE 10/7/02
ESTIMATED COMPLETION DATE 10/18/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE Neal Fischer Date 9/23/02

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 22139
WELL NUMBER 3S/1E 4L1 to 4L4
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

(C) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved Wyman Hong Wyman Hong Date 10/2/02

P:\WRE\WYMAN\drilling permit.wpd

Revised: March 26, 2002

APPENDIX B

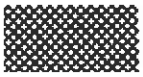
BORING LOGS

Boring Log Symbol Key

First Encounter of Groundwater

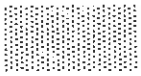
Stabilized Depth to Groundwater

Asphalt



Cement Grout

Bentonite



Sand

Blank Casing

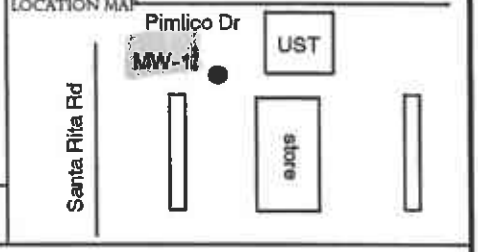
Screened Casing

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd
DRILLER:	Gregg	DATE DRILLED:	10/8/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	42.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	42'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1
PAGE 1 OF 2

LOCATION MAP



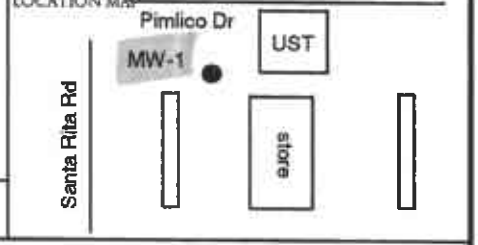
Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite Grout			Moist		Air Knifed				AF	Concrete ~ 5" thick
										Baserock: coarse rounded gravel 2-3"
				0.7		1			CL	**Sandy Lean CLAY**: medium grayish brown, low to medium
				5.9		2				plasticity, 30% fine sand, <10% fine gravel
						3			SC	**Clayey SAND**: dark-medium grey brown mottled with
						4				light brown, fine sand, low to medium plasticity, <15% fine
						5				gravel
						6				
						7				
						8				
					3	9			CH	**Fat CLAY**: medium to dark brown, soft, high plasticity
			damp	2.1	3					
					5	10				
						11				
						12				
						13				
					5	14				(stiff)
			damp	2.6	6					
					8	15				
						16				
						17				
						18				
					5	19				
			damp	1.9	8					
					10	20				
						21				
						22				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd
DRILLER:	Gregg	DATE DRILLED:	10/8/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	42.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	42'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1
PAGE 2 OF 2

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23			CH	continued
					5	24			SP	**Poorly Graded SAND**; medium brown, very fine grained,
			damp	4.2	7					loose
					9	25			CH	**Fat CLAY**; light brown, soft, high plasticity
						26				
						27				
						28				
					4	29				
			damp	1.6	5					
					6	30			SP	**Poorly Graded SAND**; medium brown, fine grained
						31				
		▽				32				
						33				
			wet		4	34				
					6				SC/	**Clayey SAND** and **Fat CLAY**; alternating 6" layers,
					7	35			CH	(Clayey Sand is medium brown, 60% sand, 40%
					4					clay, fine to medium grained sand, moderate
					7	36				plasticity)
					13					(Fat Clay is medium brown, stiff, high plasticity)
					7	37				
					12					
					15	38			CH	**Fat CLAY**; medium brown, stiff, high plasticity
					5					
					9	39				
					10					
					5	40				
					6					(grades coarser, 5% fine grained sand)
					8	41				
			wet		6					(soft)
					8	42				
					11					(stiff)
						43				**BOTTOM OF BORING @ 42.5 ft**
						44				

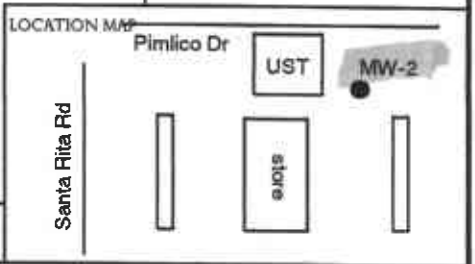
Bentonite
Sand

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd
DRILLER:	Gregg	DATE DRILLED:	10/8/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	42.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	42'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-2
PAGE 1 OF 2

LOCATION MAP



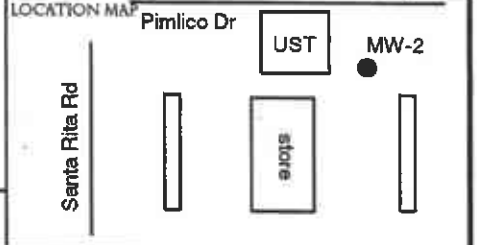
Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					Air Knifed				AF	Concrete 6" thick
										Baserock: 2" thick coarse gravel
			moist			1			CL	**Lean CLAY with Sand;** dark yellow brown, 10%-20% fine sand, silty, medium plasticity
						2			SC	**Clayey SAND interbedded with Silt,** dark-medium yellow brown, 20-35% fine sand, low to medium plasticity
						3				
						4				
						5				
						6				
				0.7		7			CH	**Fat CLAY;** dark brown, plastic, soft
						8				
					3	9				
			damp	2.2	5					
					5	10				(stiff,slightly friable)
						11				
						12				
						13				
					3	14				(rare silt and gravel up to 1/4")
			damp	1.9	7					
					8	15				
						16				
						17				
						18				
					3	19				(orange-brown, stiff, rare medium grained sand)
			damp	18.0	5					
					7	20				
						21				
						22				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd
DRILLER:	Gregg	DATE DRILLED:	10/8/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	42.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	42'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-2
PAGE 2 OF 2

LOCATION MAP



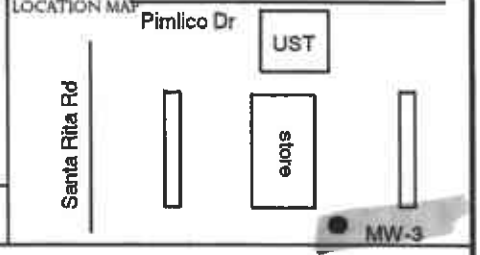
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite / Sand					23			CH	cont.
		damp	3.6	2 4 6	24				
					25				
					26				
					27				
					28				
				5	29			CH	**Fat CLAY**; medium to light brown, 70% clay, 30% silt,
		damp	4.3	8 9	30				soft, friable, high plasticity
	▽				31				
					32				
					33				
		wet		7	34				
				12 14	35			CH	**Gravelly Fat CLAY**; greenish brown, 70% clay, 30% 1/4" gravel
				6 8	36				
		wet		9 6	37				(grades finer, 10% 1/2" gravel, soft)
				9 11	38			SP	**Clayey SAND**; medium brown with trace black and reddish
				6 8	39				grains, 70% sand, 30% clay, fine grained sand
				13 9	40				(2" clay interbed @ 40')
		wet		11 15	41				
				11 17	42				(grades coarser, 80% fine sand)
				20	43				**BOTTOM OF BORING @ 42.5 ft**
					44				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/9/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	44.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	44'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3
PAGE 1 OF 2

LOCATION MAP



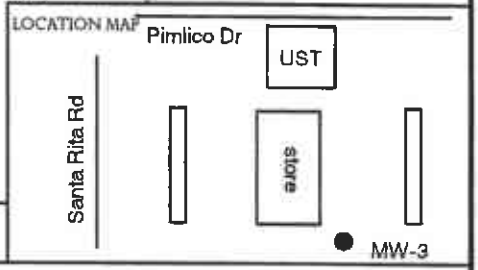
Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
									AF	Concrete 6" thick
										Baserock 2": coarse rounded gravel
			moist		Air Knifed	1			CL	**Sandy Lean CLAY**; dark gray to olive gray, 10-20% fine sand, 10-15% fine gravel, medium plasticity
						2				
						3				(alternating sandy clay and clayey sand)
						4				
						5				(clay becomes stiffer below 5')
						6				
			damp			7				
						8				
			damp		2	9			CH	**Fat CLAY**; uniform dark brown, soft, high plasticity
				2.2	3					
					4	10				
						11				
						12				
						13				
					3	14				(stiff)
			damp	4.6	6					
					8	15				
						16				
						17				
						18				
			damp		3	19				(10% grey-white course sand)
				20.1	4					
					6	20				
						21				
						22				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/9/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	44.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	44'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3
PAGE 2 OF 2

LOCATION MAP



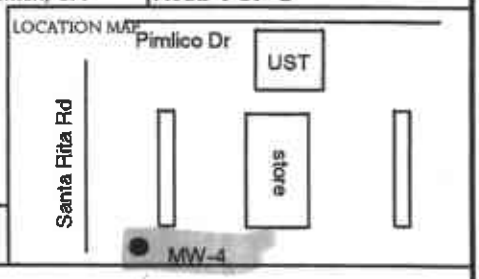
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite					23			CH	cont.
		damp	2.0	4 6 11	24			SC	**Clayey SAND**; medium brown, 75% sand, 25% clay, fine grained, loose
					25				
					26				
					27				
					28				
		damp	2.0	4 7 8	29			CH	**Sandy CLAY**; medium brown, 75% clay, 25% sand, fine grained,soft
					30				
					31				
					32				
	▽				33				
		damp		5 6 7	34			CH	**Fat CLAY**; medium brown, soft, high plasticity
Sand		damp		4 6 7	35				(trace greenish tint to clay)
		wet		4	36				
		damp		8 10	37				(stiff)
		wet		5 6 8	38				
		wet		4 6 7	39				
				6 8 11	40				
				7 11 15	41				(soft, no sand)
					42			SC	**Clayey SAND**; brown to orange brown with black grains, 80% sand, 20% clay, fine grained
					43				(grades coarser, medium to coarse grained sand)
					44				**BOTTOM OF BORING @ 44.5 ft**

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/9/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8'
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	44.5'
CASING TYPE:	PVC	WELL DIAMETER:	2'
SLOT SIZE:	0.010	WELL DEPTH:	44'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4
PAGE 1 OF 2

LOCATION MAP



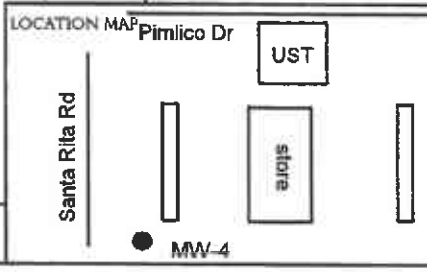
Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Concrete									AF	Concrete ~2" thick
			damp			1				Fill ~8", well graded sand and gravel
						2			SW	**Well Graded SAND with Gravel**; brown, fine to coarse sand, ~30% gravel, up to 1.5"
			moist			3				
			moist		Air Knifed	4			CL	**Lean CLAY with Gravel**; dark brown, ~30% gravel, moderate plasticity
						5				(grades finer, <10% gravel)
						6				
			damp			7			CH	**Fat CLAY**; dark brown, soft, high plasticity
						8				
					3	9				
			damp	1.6	4					(stiff)
					6	10				
						11				
						12				
						13				
			dry/		4	14				(moderate plasticiy)
			damp	1.5	5					
					8	15				
						16				
						17				
						18				
					5	19				(stiff, high plasticity)
			damp	2.6	7					
					14	20				
						21				
						22				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-6750 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	6750 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/9/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	44.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010	WELL DEPTH:	44'
GRAVEL PACK:	2-12	CASING STICKUP:	NA
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4
PAGE 2 OF 2

LOCATION MAP



Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite					23			
				4	24		CH	cont.
		damp	0.6	6				(color change from light brown to dark brown at 24')
				7	25			
					26			
					27			
					28			
				4	29		SC	**Clayey SAND**; medium brown, 70% sand, 30% clay
		damp	0.1	5				fine grained, loose
				10	30			
					31			
					32			
					33			
				3	34		CH/	**Fat CLAY and Clayey SAND** alternating 1" layers
	▽	wet		4			SC	
				4	35			(Fat clay is brown with greenish mottling and slight FeO staining, soft, high plasticity)
				3				
				4	36			(Clayey sand is medium brown, 70% sand, 30% clay, fine grained, dense)
				6				
				3	37			
				3				
				5	38			
				3				
				4	39			
				6				
				6	40			
				8				(grades stiffer)
				8	41			
				3				
				5	42			
				6				
				5	43			
				7				
				14	44			**BOTTOM OF BORING @ 44.5 ft**
Sand								

APPENDIX C

WELL DEVELOPMENT
FIELD DATA SHEETS

WELL DEVELOPMENT DATA SHEET

Project #: 021204 - RHI	Client: Shell
Developer: Ryan Hansledt	Date Developed: 12/4/02
Well I.D. MW-1	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth:	Depth to Water:
Before 41.10 After 41.80	Before 31.75 After 40.45
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):	Well dia.		VCF
[12 x (d^2/4) x π) /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.5	X	10		15.0
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐
Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
926	Bottom feels silty, start w/ MB pump, sitate bottom while purging					
934	61.4	6.9	2637	>200	1.5	very silty, dark brown
938	63.5	7.1	2720	>200	3.0	" " " "
941	63.6	7.1	2609	>200	4.5	Hard bottom, very silty, dark brown
944	63.6	7.0	2722	>200	6.0	brown, very silty
947	63.7	7.0	2721	>200	7.5	" " "
950	61.9	7.9	2660	>200	9.0	" " " , well dewatered
	Well dewatered @ 9.0 gal, DTW = 40.18, then DTW = 38.12 @ 1112					
	At 1256 DTW = 36.97, surge for 10 min, then purge					
1309	65.2	7.1	2710	>200	10.5	brown, silty, hard bottom
1311	64.6	7.4	2684	>200	12.0	" "
	well dewatered @ 12.5 gal			DTW = 40.45		

Did Well Dewater? Yes | If yes, note above. | Gallons Actually Evacuated: 12.5

WELL DEVELOPMENT DATA SHEET

Project #: 021204 -RH1	Client: Shell
Developer: Ryan Hanstedt	Date Developed: 12/4/02
Well I.D. MW-2	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth:	Depth to Water:
Before 41.60 After 42.15	Before 31.25 After 39.96
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):
(12 x (d^2/4) x π) /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.7	X	10	=	17.0
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐
Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1210	Bottom feels silty,	begin w/ MB pump,	agitate bottom			
1215	65.0	6.9	3075	>200	1.7	brown, very silty
1218	65.1	7.0	3047	>200	3.4	" " "
1221	64.8	7.0	3117	>200	5.1	bottom is hard, brown, very silty
1224	64.1	7.0	3128	>200	6.8	doesn't feel like much water left, slow down pump
1228	63.4	7.4	3035	>200	8.5	close to dewatering, slow down, brown, very silty
1235	63.7	7.5	3127	>200	10.2	brown, very silty
	well dewatered @	10.5 gal	DTW = 40.17			
1403	DTW = 35.57	Surged for 10 min before purging, then start w/ MB				
1417	65.6	7.0	3012	>200	11.9	bottom feels hard, brown, very silty
1420	65.2	7.0	3108	>200	13.6	brown, very silty
1423	64.8	7.3	2974	>200	15.3	brown, silty
1426	64.2	7.3	2981	>200	17.0	" "

Did Well Dewater? Yes — If yes, note above. Gallons Actually Evacuated: 17.0

↳ at 6 CV but got full 10 CV

WELL DEVELOPMENT DATA SHEET

Project #: 021204 -RH1	Client: Shell
Developer: Ryan Hansledt	Date Developed: 12/4/02
Well I.D. mw-3	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 43.05 After 44.12	Depth to Water: Before 31.65 After 38.80
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):	Well dia.		VCF
[12 x (d^2/4) x π] /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.8	X	10	=	18.0
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐
Type of Installed Pump _____
Other equipment used 2" surge block

Bottom feels silty, Start w/ MB pump agitate bottom

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1034	64.4	6.9	2340	>200	1.8	very silty, brown
1037	66.0	7.1	2347	>200	3.6	" " "
1040	66.1	7.0	2432	>200	5.4	Bottom feels harder, brown, very silty
1043	65.8	7.0	2635	>200	7.2	very silty, brown
1046	65.8	7.0	2510	>200	9.0	becoming less silty, brown
1049	65.5	7.2	2475	>200	10.8	slowed pump down, got much water left, brown silty
1053	65.2	7.4	2630	>200	12.6	brown, silty
	Well dewatered @ 12.6 gal. DTW = 41.50					
1323	DTW = 31.70 Surged for 10 min prior to purging					
1335	Bottom feels a little silty, Start w/ MB, agitate bottom					
1339	67.2	7.0	2810	>200	14.4	bottom feels harder, brown, silty
1343	67.3	7.0	2836	>200	16.2	brown, silty
1346	66.7	7.0	2900	>200	18.0	hard bottom, brown, silty

Did Well Dewater? Yes — If yes, note above. Gallons Actually Evacuated: 18.0

↳ @ 7 case volumes, but able to get full 10 CV

WELL DEVELOPMENT DATA SHEET

Project #: 021204 -RH1	Client: Shell
Developer: Ryan Hanstedt	Date Developed: 12/4/02
Well I.D. MW-4	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 44.05 After 44.25	Depth to Water: Before 32.92 After 41.02
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):
(12 x (d^2/4) x π) /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.8	X	10	=	18.0
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
800	Bottom is almost hard. Start w/ MB pump and agitate bottom.					
806	60.2	7.1	2490	>200	1.8	very silty, dark brown
810	62.3	6.9	2661	>200	3.6	bottom feels hard, very silty, dark brown
814	63.3	6.9	2610	>200	5.4	very silty, brown
818	63.8	6.9	2562	>200	7.2	definitely hard bottom, brown, silty
823	63.0	7.0	2518	>200	9.0	brown, slightly less silty
826	63.7	7.1	2482	>200	10.8	brown, silty, wants to dewater, slow down pump
833	62.3	7.0	2461	>200	12.6	lighter brown, less silty
839	62.5	7.0	2464	>200	14.4	clearing up, not as silty
846	62.7	7.0	2497	>200	16.2	cloudy
853	62.5	7.0	2508	>200	18.0	cloudy, w/ less silt

Did Well Dewater? NO — If yes, note above.
Gallons Actually Evacuated: 18.0

↳ but needed to slow the pump down @ the 6th case vol.

APPENDIX D

SITE SURVEY DATA

Mid Coast Engineers
Civil Engineers and Land Surveyors
70 Penny Lane, Suite A - Watsonville, CA 95076
phone: (831) 724-2580
fax: (831) 724-8025
e-mail: lee@midcoastengineers.com

Richard A. Wadsworth
Civil Engineer
Stanley O. Nielsen
Land Surveyor
Lee D. Vaage
Land Surveyor
Jeff S. Nielsen
Land Surveyor

November 25, 2002

Debbie Arnold
KHM Environmental Management, Inc.
6284 San Ignacio Avenue, Suite E
San Jose, CA 95119

Re: **Shell-branded Service Station, 6750 Santa Rita Road, Pleasanton, California;** KHM Project C81-6750 Santa Rita, MCE Job No.02249

Dear Ms. Arnold,

As you requested, on November 22 we surveyed four monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3813 (HPGN D CA 04 EK), AA3815 (HPGN D CA 04 FK) and HS5408 (HPGN CA 04 07), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 2, NAD 83 Datum. The accuracy range of the reported information is +/- 5mm. GPS equipment is the Trimble 5700 system (Code T57).

The benchmark used for this survey is Q 1257, a disk on the top of a copper coated rod, stamped "Q 1257 1974", at the junction of Santa Rita Road and Black Avenue, at the Amador Valley Community Park. Elevation = 341.578 feet, NGVD 29, as obtained from the City of Pleasanton Public Works Department.

Please let me know if you have questions or need additional information.

Yours truly,

Lee D. Vaage

LICENSED LAND SURVEYOR
LEE D. VAAGE
No. 5029
RENEWAL 12-31-05
STATE OF CALIFORNIA

SHELL-BRANDED SERVICE STATION
6750 Santa Rita Road
Pleasanton, California

KHM Project C81-6750 Santa Rita

Project : 02249
User name MCE Date & Time 3:03:46 PM 11/25/2002
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NGVD29
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Point listing

Name	Northing	Easting	Elevation	Description
203	2080122.02	6164807.87	343.44	MW-4toc
204	2080122.51	6164807.90	343.87	MW-4tob
205	2080126.72	6164884.05	342.23	MW-3toc
206	2080127.18	6164884.06	342.78	MW-3tob
207	2080231.92	6164896.94	342.86	MW-2toc
208	2080232.29	6164896.99	343.19	MW-2tob
210	2080231.41	6164837.85	343.48	MW-1toc
211	2080231.88	6164837.92	343.79	MW-1tob

SHELL-BRANDED SERVICE STATION
6750 Santa Rita Road
Pleasanton, California

KHM Project C81-6750 Santa Rita

Project : 02249
User name MCE Date & Time 3:03:46 PM 11/25/2002
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NGVD29
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Point listing

Name	Latitude	Longitude	Elevation	Description
203	37.699630258°N	121.871769391°W	343.44	MW-4toc
204	37.699631614°N	121.871769317°W	343.87	MW-4tob
205	37.699646248°N	121.871506370°W	342.23	MW-3toc
206	37.699647509°N	121.871506363°W	342.78	MW-3tob
207	37.699935644°N	121.871467122°W	342.86	MW-2toc
208	37.699936674°N	121.871466995°W	343.19	MW-2tob
210	37.699931853°N	121.871671319°W	343.48	MW-1toc
211	37.699933160°N	121.871671125°W	343.79	MW-1tob

	A	B	C	D	E	F	G	H	I	J	K	L
1	**SHELL-BRANDED SERVICE STATION**											
2	**6750 Santa Rita Road**											
3	**Pleasanton, California**											
4												
5	KHM Project C81-6750 Santa Rita											
6												
7	Project : 02249											
8	User name MCE Date & Time 3:03:46 PM 11/25/2002											
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403											
10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NGVD29											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16		MW-1	MW	11/22/2002	37.6999319	-121.8716713	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing
17		MW-2	MW	11/22/2002	37.6999356	-121.8714671	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing
18		MW-3	MW	11/22/2002	37.6996462	-121.8715064	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing
19		MW-4	MW	11/22/2002	37.6996303	-121.8717694	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing

	A	B	C	D	E	F	G	H	I	J
1	**SHELL-BRANDED SERVICE STATION**									
2	**6750 Santa Rita Road**									
3	**Pleasanton, California**									
4										
5	KHM Project C81-6750 Santa Rita									
6										
7	Project : 02249									
8	User name MCE Date & Time 3:03:46 PM 11/25/2002									
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403									
10	Project Datum NAD 1983 (Conus)									
11	Vertical Datum NGVD29									
12	Coordinate Units US survey feet									
13	Distance Units US survey feet									
14	Elevation Units US survey feet									
15										
16		MW-1	11/22/2002	343.48	CGPS	29		Mid Coast Engineers		top of casing
17		MW-2	11/22/2002	342.86	CGPS	29		Mid Coast Engineers		top of casing
18		MW-3	11/22/2002	342.23	CGPS	29		Mid Coast Engineers		top of casing
19		MW-4	11/22/2002	343.44	CGPS	29		Mid Coast Engineers		top of casing

APPENDIX E

SOIL LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Debbie Arnold
KHM Environmental Management
6284 San Ignacio Ave, #E
San Jose, CA 95119

Subject : 7 Soil Samples
Project Name : 6750 Santa Rita Road, Pleasanton
Project Number : C81-6750 Santa Rita
P.O. Number : 97402156

Dear Ms. Arnold,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **MW-2 @ 20 feet** Matrix : Soil Lab Number : 29114-01
Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **MW-3 @ 20 feet** Matrix : Soil Lab Number : 29114-02
Sample Date :10/9/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **Disposal A** Matrix : Soil Lab Number : 29114-03
Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **Disposal B** Matrix : Soil Lab Number : 29114-04
Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	10/14/02
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	10/14/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **Disposal C** Matrix : Soil Lab Number : 29114-05
Sample Date :10/9/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **Disposal D** Matrix : Soil Lab Number : 29114-06
Sample Date :10/9/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	94.3		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 29114
Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**
Project Number : **C81-6750 Santa Rita**

Sample : **Disposal A,B,C,D** Matrix : Soil Lab Number : 29114-07
Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	10/12/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 29114

Date : 10/17/02

QC Report : Method Blank Data

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/12/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	101		%	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	10/12/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 29114

Date : 10/17/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **6750 Santa Rita Road,**

Project Number : **C81-6750 Santa Rita**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	29114-01	<0.0050	0.0393	0.0396	0.0416	0.0355	mg/Kg	EPA 8260B	10/14/02	106	89.6	16.6	70-130	25
Toluene	29114-01	<0.0050	0.0393	0.0396	0.0409	0.0352	mg/Kg	EPA 8260B	10/14/02	104	89.0	15.6	70-130	25
Tert-Butanol	29114-01	<0.0050	0.196	0.198	0.188	0.150	mg/Kg	EPA 8260B	10/14/02	96.0	75.6	23.7	70-130	25
Methyl-t-Butyl Ether	29114-01	<0.0050	0.0393	0.0396	0.0394	0.0338	mg/Kg	EPA 8260B	10/14/02	100	85.3	16.1	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 29114

Date : 10/17/02

QC Report : Laboratory Control Sample (LCS)

Project Name : **6750 Santa Rita Road,**

Project Number : **C81-6750 Santa Rita**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0397	mg/Kg	EPA 8260B	10/12/02	102	70-130
Toluene	0.0397	mg/Kg	EPA 8260B	10/12/02	96.3	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	10/12/02	94.5	70-130
Methyl-t-Butyl Ether	0.0397	mg/Kg	EPA 8260B	10/12/02	92.8	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Calscience
Environmental
Laboratories, Inc.

October 17, 2002

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: Calscience Work Order No.: 02-10-0800
Client Reference: 6750 Santa Rita Road, Pleasanton

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/12/2002 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 10/12/02
Work Order No: 02-10-0800
Preparation: Total Digestion
Method: EPA 6010B

Project: 6750 Santa Rita Road, Pleasanton

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Disposal A,B,C,D	02-10-0800-1	10/09/02	Solid	10/14/02	10/15/02	021014L04

Parameter	Result	RL	DF	Qual	Units
Lead	7.47	0.50	1		mg/kg

Method Blank	097-01-002-3,696	N/A	Solid	10/14/02	10/15/02	021014L04

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 10/12/02
Work Order No: 02-10-0800
Preparation: Total Digestion
Method: EPA 6010B

Project: 6750 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
02-10-0795-1	Solid	ICP 3300	10/14/02	10/15/02	021014S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	103	100	75-125	3	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 10/12/02
Work Order No: 02-10-0800
Preparation: Total Digestion
Method: EPA 6010B

Project: 6750 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,698	Solid	ICP 9300	10/15/02	021014-I-04	021014L04

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Lead	50.0	50.6	101	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-10-0800

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-10-0800

Cooler _____ of _____

SAMPLE RECEIPT FORM

CLIENT: KIFF DATE: 10/12/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

3 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: RW

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: RW

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation			✓

Initial: RW

COMMENTS:

KIFF ANALYTICAL LLC
2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

02-10-0800

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff	EDF Report? ___ Yes X No
Company/Address: Kiff Analytical, LLC	Recommended but not mandatory to complete this section:
Phone No.:	FAX No.:
Project Number: C81-6750 Santa Rita	P.O. No.: 29114
Project Name: 6750 Santa Rita Road, Pleasanton	E-mail address: inbox@kiffanalytical.com
Project Address:	

Sampling Company Log Code:
Global ID:
EDF Deliverable to (Email Address):

Analysis Request — Date due: October 24, 2002

Sample Designation	Sampling: Date	Sampling: Time	Container: Glass Jar	Container: Poly	Container: Amber	Container:	Container:	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Preservative:	Matrix: WATER	Matrix: SOIL	Matrix:	TTLC Lead	STLC Lead if TTLC => 50 Mg/KG	ORGANIC Lead if TTLC => 13 MG/KG	CAM Metals- please hold*				Date due:	For Lab Use Only
Disposal A,B,C,D	10/8/02		1							X				X		X	X	X	X				X	

Relinquished by: Kiff Analytical	Date 101102	Time 1830	Received by:	Remarks: *Metals to be determined.
Relinquished by:	Date	Time	Received by:	Incident# 97402156
Relinquished by: Cal Overnight	Date 10/12	Time 12:15	Received by Laboratory:	Bill to:

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be Invoiced:

☒ SCIENCE & ENGINEERING Karen Petryna
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

29114

INCIDENT NUMBER (S&E ONLY): 9 7 4 0 2 1 5 6

SAP or CRMT NUMBER (TS/CRMT): 1 3 5 7 8 6

DATE: October 9, 2002

PAGE: 1 of 2

SAMPLING COMPANY:	KHM Environmental Mangement
LOG CODE:	KHMS
SITE ADDRESS (Street and City):	6750 Santa Rita Road, Pleasanton
GLOBAL ID NO.:	
ADDRESS:	6284 San Ignacio Ave., San Jose, CA 95119
EDF DELIVERABLE TO (Responsible Party or Designee):	Debbie Arnold
PHONE NO.:	(408) 224-4724
E-MAIL:	darnold@khm1.com
CONSULTANT PROJECT NO.:	C81-6750 Santa Rita
PROJECT CONTACT (Hardcopy or PDF Report to):	Debbie Arnold
SAMPLER NAME(S) (Print):	Jonathan Pearson
TELEPHONE:	(408) 224-4724
FAX:	(408) 224-4518
E-MAIL:	darnold@khm1.com
LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☒ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ____________

GC/MS MTBE CONFIRMATION: HIGHEST ________ HIGHEST per BORING ________ ALL ________

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☒

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B—)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	MW-2 @ 20 feet	10/8/02	10:15	soil	1	x	x			x																-01
	MW-3 @ 20 feet	10/9/02	8:40	soil	1	x	x			x																-02

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cutts / Kiff Analytical	Date: 101002	Time: 1117

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client

10/16/00 Revision

Q&Q Graphic (714) 895-9702

KIFF ANALYTICAL

720 Olive Drive, Suite D
Davis, CA 95616
(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

- ☒ SCIENCE & ENGINEERING Karen Petryna
- ☐ TECHNICAL SERVICES
- ☐ CRMT HOUSTON

29114

INCIDENT NUMBER (S&E ONLY): 9 7 4 0 2 1 5 6

SAP or CRMT NUMBER (TS/CRMT): 1 3 5 7 8 6

DATE: October 9, 2002

PAGE: 2 of 2

SAMPLING COMPANY: KHM Environmental Mangement	LOG CODE: KHMS
ADDRESS: 6264 San Ignacio Ave., San Jose, CA 95119	
PROJECT CONTACT (Hardcopy or PDF Report to): Debbie Arnold	
TELEPHONE: (408) 224-4724	FAX: (408) 224-4518
E-MAIL: darnold@khm1.com	

SITE ADDRESS (Street and City): 6750 Santa Rita Road, Pleasanton	GLOBAL ID NO.:
EDF DELIVERABLE TO (Responsible Party or Designee): Debbie Arnold	PHONE NO.: (408) 224-4724
E-MAIL: darnold@khm1.com	CONSULTANT PROJECT NO.: C61-6750 Santa Rita
SAMPLER NAME(S) (Print): Jonathan Pearson	LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☒ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

GC/MS MTBE CONFIRMATION: HIGHEST ______ HIGHEST per BORING ______ ALL ______

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☒

Disposal Test Includes lead and CAM metals.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-28	includes lead + all CAM metals)	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	Disposal A	10/8/02	14:00	soil	1																x					-03
	Disposal B	10/8/02	17:00	soil	1																x					-04 } 07
	Disposal C	10/9/02	8:45	soil	1																x					-05
	Disposal D	10/9/02	14:08	soil	1																x					-06

Relinquished by: (Signature) [signature]	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttes / Kiff Analytical	Date: 101002	Time: 1117

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 898-9702

APPENDIX F

WELL GAUGING DATA

WELL GAUGING DATA

Project # 021204-RH1 Date 12/4/02 Client Shell

Site 6750 Santa Rita Rd. Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
mw-1	2					31.75	41.10		
mw-2	2					31.25	41.60		
mw-3	2					31.65	43.05		
mw-4	2					32.92	44.10		

WELL GAUGING DATA

Project # 021220-SS2 Date 12/20/02 Client SHELL

Site 6750 SANTA RITA RD. PLEASANTON

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					31.93	41.75		
MW-2	2					30.70	41.90		
MW-3	2					31.10	44.00		
MW-4	2					32.20	44.05		

APPENDIX G

GROUNDWATER LABORATORY REPORT
AND
CHAIN-OF-CUSTODY DOCUMENTATION

KIFF ANALYTICAL LLC

Report Number : 30559
Date : 1/2/2003

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 4 Water Samples
Project Name : 6750 Santa Rita Rd., Pleasanton
Project Number : 021220-SS2
P.O. Number : 97402156

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 30559
Date : 1/2/2003

Subject : 4 Water Samples
Project Name : 6750 Santa Rita Rd., Pleasanton
Project Number : 021220-SS2
P.O. Number : 97402156

Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples MW-1, MW-2 and MW-3.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 30559
Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**
Project Number : **021220-SS2**

Sample : **MW-1** Matrix : Water Lab Number : 30559-01
Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/26/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/26/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/26/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/26/2002
Methyl-t-butyl ether (MTBE)	**62**	0.50	ug/L	EPA 8260B	12/26/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/26/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/26/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/26/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/26/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/26/2002
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/26/2002
TPH as Diesel	**81**	50	ug/L	M EPA 8015	12/26/2002

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30559
Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**
Project Number : **021220-SS2**

Sample : **MW-2** Matrix : Water Lab Number : 30559-02
Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**660**	2.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 200**	200	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	12/31/2002
TPH as Diesel	**120**	50	ug/L	M EPA 8015	12/29/2002

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30559
Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**
Project Number : **021220-SS2**

Sample : **MW-3** Matrix : Water Lab Number : 30559-03
Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Toluene	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Ethylbenzene	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Total Xylenes	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Methyl-t-butyl ether (MTBE)	**8000**	20	ug/L	EPA 8260B	12/30/2002
Diisopropyl ether (DIPE)	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Ethyl-t-butyl ether (ETBE)	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Tert-amyl methyl ether (TAME)	**< 20**	20	ug/L	EPA 8260B	12/30/2002
Tert-Butanol	**1500**	200	ug/L	EPA 8260B	12/30/2002
TPH as Gasoline	**< 2000**	2000	ug/L	EPA 8260B	12/30/2002
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	12/30/2002
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	12/30/2002
TPH as Diesel	**72**	50	ug/L	M EPA 8015	12/29/2002

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30559
Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**
Project Number : **021220-SS2**

Sample : **MW-4** Matrix : Water Lab Number : 30559-04
Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/29/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/29/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/29/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/29/2002
Methyl-t-butyl ether (MTBE)	**93**	0.50	ug/L	EPA 8260B	12/29/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/29/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/29/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/29/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/29/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/29/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/29/2002
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	12/29/2002
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	12/29/2002

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 30559

Date : 1/2/2003

QC Report : Method Blank Data

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **021220-SS2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/26/2002
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/29/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/30/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/30/2002
Toluene - d8 (Surr)	94.8		%	EPA 8260B	12/30/2002
4-Bromofluorobenzene (Surr)	107		%	EPA 8260B	12/30/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/28/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/28/2002
Toluene - d8 (Surr)	99.7		%	EPA 8260B	12/28/2002
4-Bromofluorobenzene (Surr)	99.7		%	EPA 8260B	12/28/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/26/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/26/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/26/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/26/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/26/2002
Toluene - d8 (Surr)	86.8		%	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	12/26/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/28/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/28/2002
Toluene - d8 (Surr)	100		%	EPA 8260B	12/28/2002
4-Bromofluorobenzene (Surr)	99.0		%	EPA 8260B	12/28/2002

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 30559

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/2/2003

Project Name : **6750 Santa Rita Rd.,**

Project Number : **021220-SS2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	30565-09	<0.50	39.6	39.7	37.3	36.1	ug/L	EPA 8260B	12/31/02	94.2	91.0	3.48	70-130	25
Toluene	30565-09	<0.50	39.6	39.7	33.9	34.0	ug/L	EPA 8260B	12/31/02	85.7	85.8	0.146	70-130	25
Tert-Butanol	30565-09	<5.0	198	198	175	197	ug/L	EPA 8260B	12/31/02	88.3	99.2	11.6	70-130	25
Methyl-t-Butyl Ether	30565-09	<0.50	39.6	39.7	37.2	38.3	ug/L	EPA 8260B	12/31/02	93.9	96.6	2.89	70-130	25
Benzene	30638-05	<0.50	40.0	40.0	39.6	39.2	ug/L	EPA 8260B	12/28/02	99.1	98.0	1.17	70-130	25
Toluene	30638-05	<0.50	40.0	40.0	37.7	37.6	ug/L	EPA 8260B	12/28/02	94.2	94.0	0.239	70-130	25
Tert-Butanol	30638-05	11	200	200	212	214	ug/L	EPA 8260B	12/28/02	100	102	1.15	70-130	25
Methyl-t-Butyl Ether	30638-05	55	40.0	40.0	87.7	88.8	ug/L	EPA 8260B	12/28/02	80.8	83.6	3.41	70-130	25
Benzene	30559-01	<0.50	40.0	40.0	41.2	41.6	ug/L	EPA 8260B	12/26/02	103	104	0.797	70-130	25
Toluene	30559-01	<0.50	40.0	40.0	34.5	35.0	ug/L	EPA 8260B	12/26/02	86.2	87.4	1.50	70-130	25
Tert-Butanol	30559-01	18	200	200	250	239	ug/L	EPA 8260B	12/26/02	116	110	4.80	70-130	25
Methyl-t-Butyl Ether	30559-01	62	40.0	40.0	100	99.9	ug/L	EPA 8260B	12/26/02	95.2	94.5	0.764	70-130	25
Benzene	30636-02	<0.50	40.0	40.0	40.5	39.7	ug/L	EPA 8260B	12/28/02	101	99.3	1.87	70-130	25
Toluene	30636-02	<0.50	40.0	40.0	39.0	38.6	ug/L	EPA 8260B	12/28/02	97.4	96.6	0.825	70-130	25
Tert-Butanol	30636-02	<5.0	200	200	202	195	ug/L	EPA 8260B	12/28/02	101	97.7	3.32	70-130	25
Methyl-t-Butyl Ether	30636-02	<0.50	40.0	40.0	38.7	38.5	ug/L	EPA 8260B	12/28/02	96.8	96.2	0.647	70-130	25
TPH as Diesel	Blank	<50	1000	1000	962	919	ug/L	M EPA 8015	12/26/02	96.2	91.9	4.54	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 30559

Date : 1/2/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **6750 Santa Rita Rd.,**

Project Number : **021220-SS2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	1050	1100	ug/L	M EPA 8015	12/29/02	105	110	4.40	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 30559

Date : 1/2/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **6750 Santa Rita Rd.,**

Project Number : **021220-SS2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/30/02	105	70-130
Toluene	40.0	ug/L	EPA 8260B	12/30/02	95.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/30/02	85.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/30/02	101	70-130
Benzene	40.0	ug/L	EPA 8260B	12/28/02	92.8	70-130
Toluene	40.0	ug/L	EPA 8260B	12/28/02	92.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/28/02	97.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/28/02	81.0	70-130
Benzene	40.0	ug/L	EPA 8260B	12/26/02	100	70-130
Toluene	40.0	ug/L	EPA 8260B	12/26/02	95.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/26/02	115	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/26/02	103	70-130
Benzene	40.0	ug/L	EPA 8260B	12/28/02	98.9	70-130
Toluene	40.0	ug/L	EPA 8260B	12/28/02	95.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/28/02	95.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/28/02	93.8	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

LAB: KIFF

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced: Lynn Walker

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

30559

INCIDENT NUMBER (S&E ONLY): 9 7 4 0 2 1 5 6

SAP or CRMT NUMBER (TS/CRMT):

DATE: 12/20/02

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	6750 Santa Rita Rd., Pleasanton	pending

ADDRESS:	EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Debbie Arnold	(408)224-4724	darnold@khm1.com	BTS # 022220-SS2

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com

SAMPLER NAME(S) (Print): SUCHEON SUNG

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	TPH - Diesel, Extractable	TEMPERATURE ON RECEIPT C°
	MW-1	12/20/02	1350	GW	5	X	X			X	X	-01
	MW-2	"	1300	"	"	X	X			X	X	-02
	MW-3	"	1245	"	"	X	X			X	X	-03
	MW-4	"	1158	"	"	X	X	X		X	X	-04

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12/23/02	1017
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	John Cuttle/Kiff Analytical	12302	1017

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 898-9702

APPENDIX H

UNAUTHORIZED RELEASE REPORT

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
SIGNED _____ DATE _____

REPORT DATE: 01/06/03 — CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Karen Petryna — PHONE: (559) 645-9306 — SIGNATURE: Karen Petryna
REPRESENTING: ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER
COMPANY OR AGENCY NAME: Shell Oil Products US
ADDRESS: P.O. Box 7869 (STREET) — Burbank (CITY) — CA (STATE) — 91510 (ZIP)

RESPONSIBLE PARTY
NAME: Shell Oil Products US ☐ UNKNOWN — CONTACT PERSON: Karen Petryna — PHONE: (559) 645-9306
ADDRESS: 2255 N. Ontario (STREET) — Burbank (CITY) — CA (STATE) — 91504 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Shell Service Station — OPERATOR — PHONE: ( )
ADDRESS: 6750 Santa Rita Rd (STREET) — Pleasanton (CITY) — Alameda (COUNTY) — 94588 (ZIP)
CROSS STREET: Pimlico Dr

IMPLEMENTING AGENCIES
LOCAL AGENCY — AGENCY NAME: Livermore - Pleasanton Fire Department — CONTACT PERSON: Danielle Stefani — PHONE: (925) 454-2338
REGIONAL BOARD: San Francisco Bay Region, RWQCB — CONTACT PERSON: Chuck Headlee — PHONE: (510) 286-0435

SUBSTANCES INVOLVED
(1) NAME: MTBE, TPH-D, Tert-Butanol — QUANTITY LOST (GALLONS): ☒ UNKNOWN
(2) NAME: ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 01/02/03 — HOW DISCOVERED: ☐ TANK TEST ☐ INVENTORY CONTROL ☒ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☐ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER

CASE TYPE
CHECK ONE ONLY: ☐ UNDETERMINED ☐ SOIL ONLY ☒ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☐ NO ACTION TAKEN ☒ LEAK BEING CONFIRMED ☐ REMEDIATION PLAN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ POLLUTION CHARACTERIZATION ☐ POST CLEANUP MONITORING IN PROGRESS ☐ CLEANUP UNDERWAY

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S): ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT) ☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS) ☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS) ☐ VACUUM EXTRACT (VE) ☒ OTHER (OT): Monitor Groundwater

COMMENTS
Groundwater Samples from new monitoring wells
Max MTBE = 8000 ug/L, Max TPH-D = 120 ug/L,
Max TBA = 1500 ug/L