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Environmental Health
OCT 10 2005
Alameda County

Letter of Transmittal

To: Alameda County Health Care Services Agency
Environmental Health Service - Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
Attn: Jerry Wickham

Date: 10/8/2005
Job No: SJHS-01S-G

We are sending the following items:

Date	Copies	Description
14-Feb-03	1	Site Assessment Report
		Shell Service Station
		1801 Santa Rita Road
		Pleasanton, CA

These are transmitted:

- For your Information
 For action specified below
 For review and comment
 For your use
 As requested

Remarks

Per your request.

Copies to:

By: Debbie Arnold

Title: Project Geologist

The information contained in this transmission is confidential and only intended for the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or action taken in reliance on the contents of this facsimile transmittal is strictly prohibited. If you have received this facsimile in error, please call us immediately to arrange for the return of these documents.



ENVIRONMENTAL MANAGEMENT, INC.

FILE

February 14, 2003
KHM Project C81-1801 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
1801 Santa Rita Road
Pleasanton, California**

Environmental Health

OCT 10 2005

Alameda County

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 10, 2002, revealed detectable concentrations of petroleum hydrocarbons in the subsurface soil and 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 10 - 15, 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 12, 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 October 31, 2002 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.

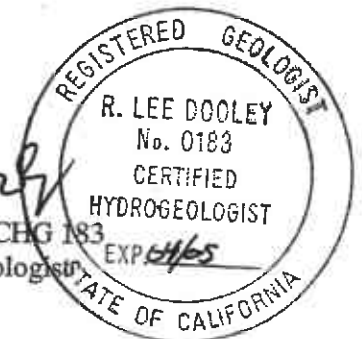
Sincerely,
KHM Environmental Management, Inc.



Debbie Arnold
Project Geologist



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

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
 1801 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-1 28.5'	10/15/02	420	<0.05	1.5	5.1	37	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1 30'	10/15/02	3.2	0.023	0.13	0.094	0.59	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1 35'	10/16/02	<1.0	<0.005	<0.005	<0.005	0.014	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4 24.5'	10/10/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4 29.5'	10/10/02	57	0.77	3.7	0.25	1.3	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4 34.5'	10/10/02	8.2	2.0	0.61	0.26	0.41	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4 40'	10/10/02	170	1.7	0.39	2.3	9.6	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4 45'	10/10/02	<1.0	0.0069	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4 50'	10/10/02	<1.0	<0.005	<0.005	<0.005	<0.010	<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

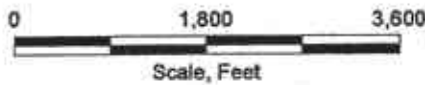
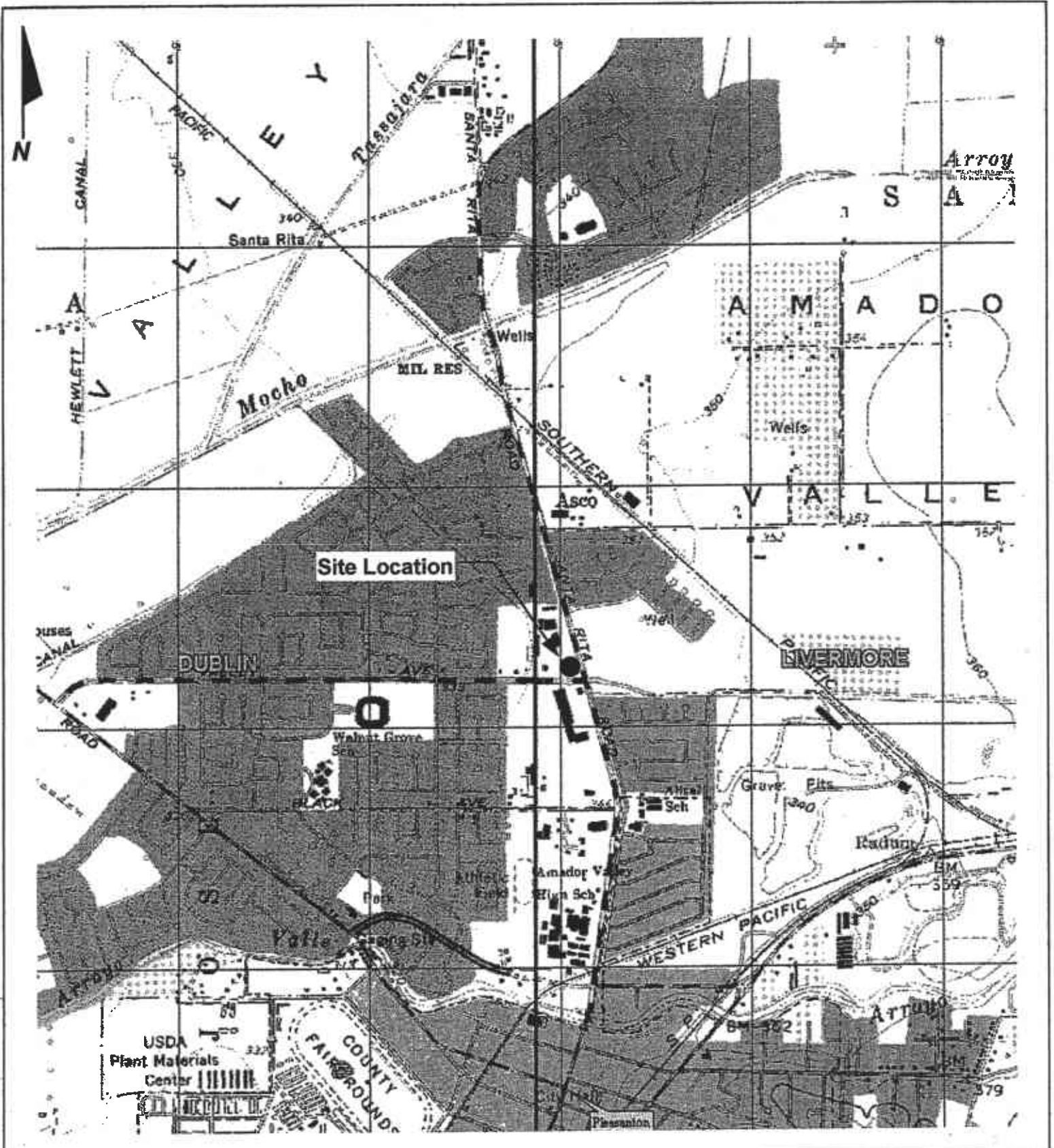
TPH-g quantified using EPA Method 8260B

BTEX Compounds, MTBE, DIPE, ETBE, TAME, and TBA analyzed using EPA Method 8260B

TABLE 2
GROUNDWATER GAUGING AND ANALYTICAL DATA
 1801 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	<50	<0.50	<0.50	<0.50	0.71	<0.50	<2.0	<2.0	<2.0	<50	342.10	85.60	0.00	256.50
MW-2	12/20/02	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	341.57	85.00	0.00	256.57
MW-3	12/20/02	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	341.65	85.25	0.00	256.40
MW-4	12/20/02	<50	69	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	340.68	84.15	0.00	256.53

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
¹TOC elevation and groundwater elevation relative to Mean Sea Level



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

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MANAGEMENT,
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SITE LOCATION MAP

Shell Service Station
1801 Santa Rita Road
Pleasanton, California

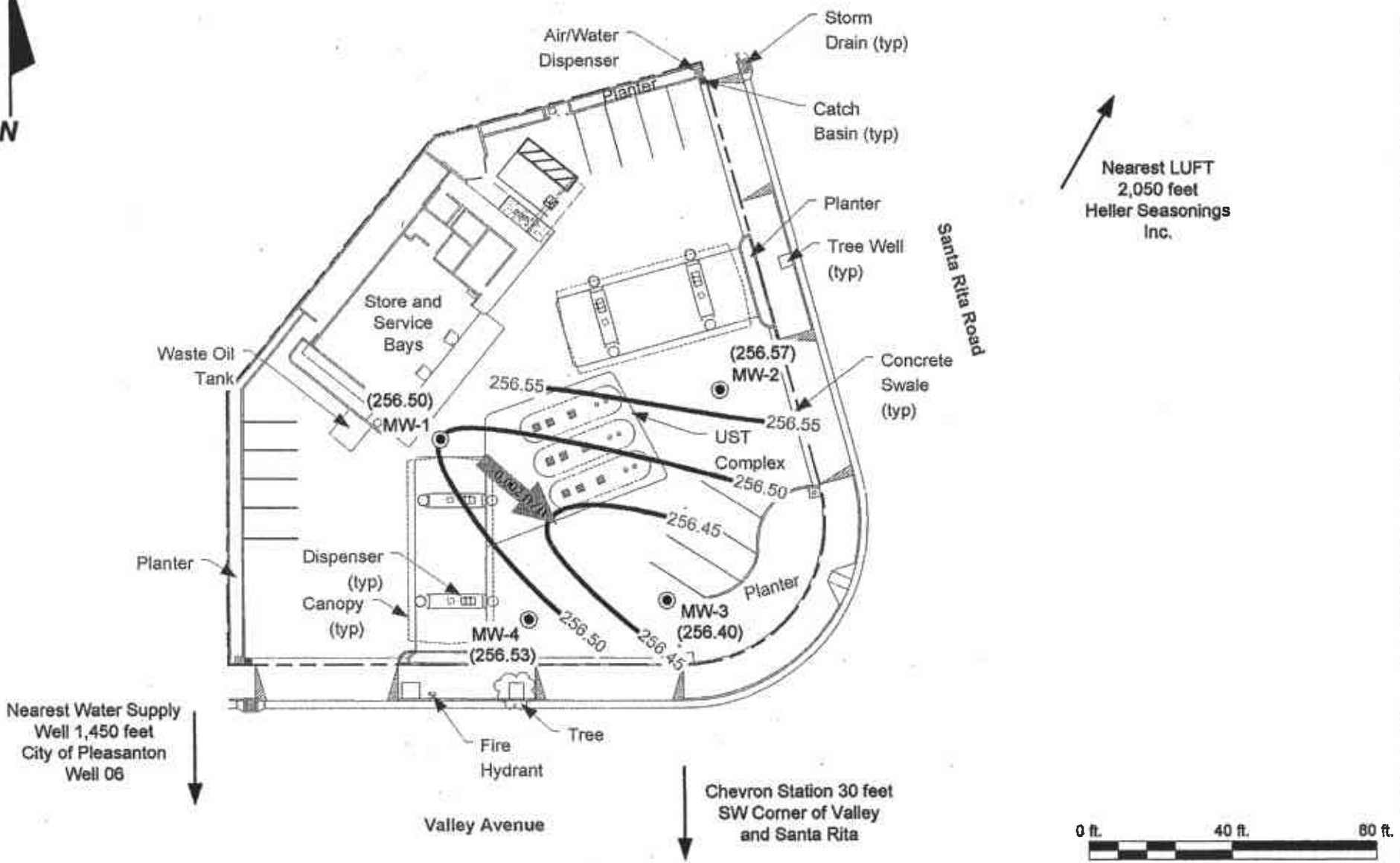
DATE 11/25/02

PROJECT C81-1801 Santa Rita

FIGURE 1



Nearest LUFT
2,050 feet
Heller Seasonings
Inc.



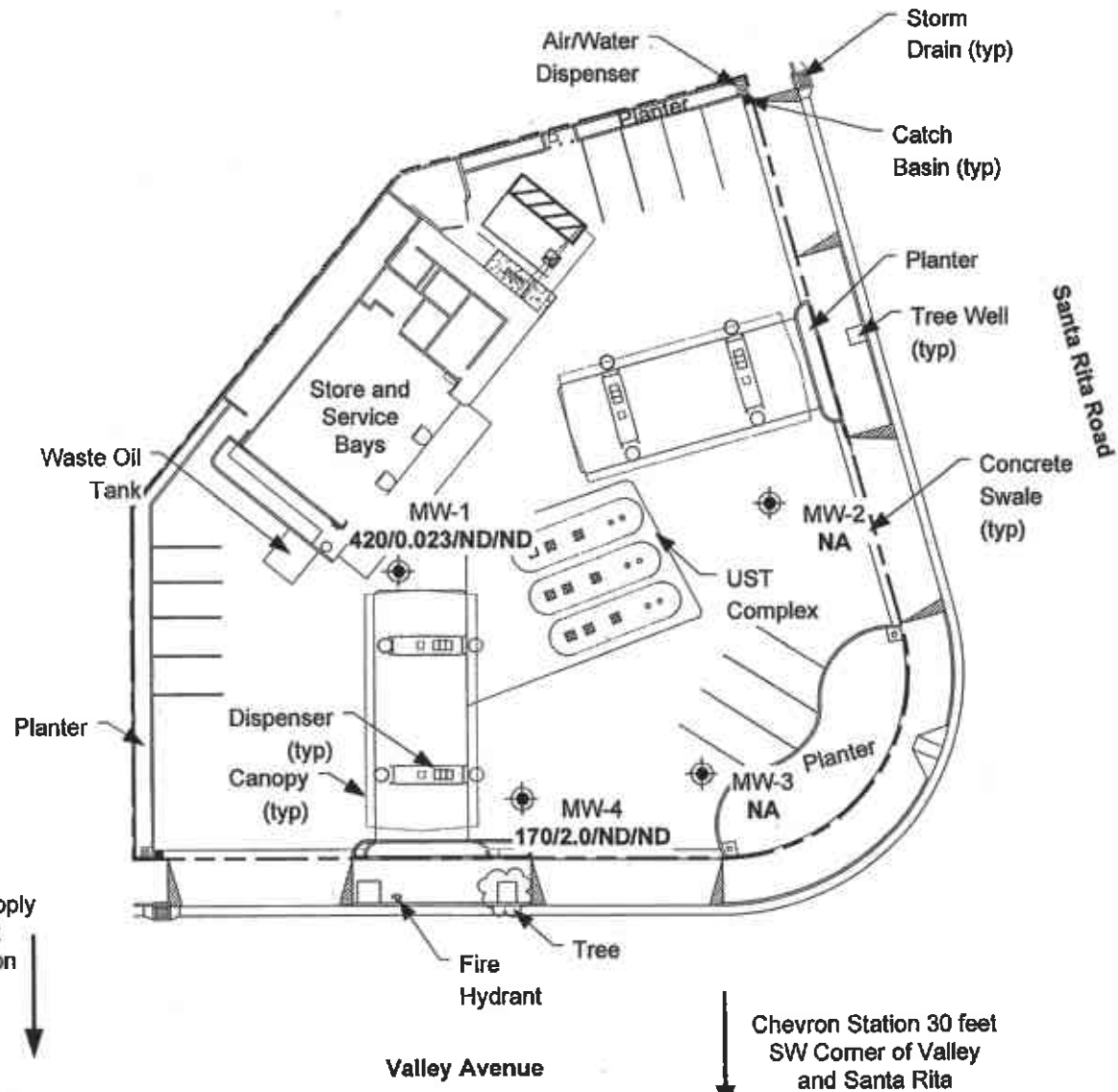
Nearest Water Supply
Well 1,450 feet
City of Pleasanton
Well 06

Chevron Station 30 feet
SW Corner of Valley
and Santa Rita

- LEGEND**
- MW-3 ● **GROUNDWATER MONITORING WELL**
 - (256.53) **GROUNDWATER ELEVATION (FEET - MSL), 12/20/02**
 - 256.50 — **GROUNDWATER ELEVATION CONTOUR**
 - APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

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GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 20, 2002		
Shell-branded Service Station 1801 Santa Rita Road Pleasanton, California		
DATE 02/10/03	PROJECT C81-1801 Santa Rita	FIGURE 2



Nearest LUFT
2,050 feet
Heller Seasonings
Inc.

Nearest Water Supply
Well 1,450 feet
City of Pleasanton
Well 06

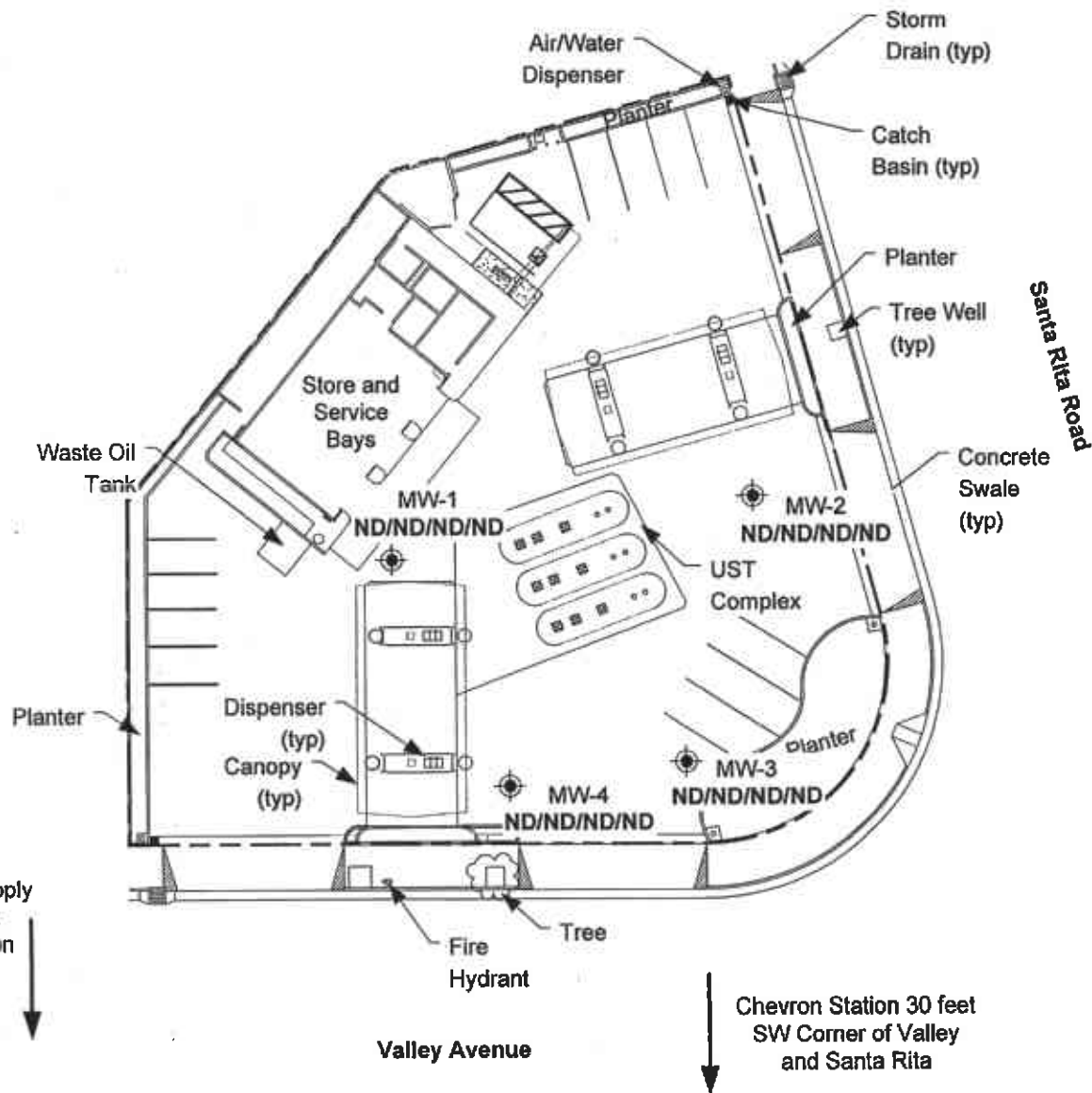


LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- ND/ND/1.9/0.5 MAXIMUM CONCENTRATIONS OF TPH-G/BENZENE/MTBE/TBA IN SOIL SAMPLED ON DECEMBER 10, 15 & 16, 2002 (mg/kg)
- ND NOT DETECTED AT LABORATORY LIMITS
- NA NO SOIL SAMPLE ANALYZED

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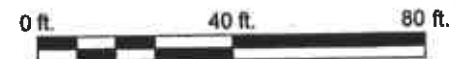
MAXIMUM HYDROCARBON CONCENTRATION DISTRIBUTION IN SOIL MAP		
Shell-branded Service Station 1801 Santa Rita Road Pleasanton, California		
DATE 02/06/03	PROJECT C81-1801 Santa Rita	FIGURE 3




Nearest LUFT
2,050 feet
Heller Seasonings
Inc.

Nearest Water Supply
Well 1,450 feet
City of Pleasanton
Well 06

Chevron Station 30 feet
SW Corner of Valley
and Santa Rita



LEGEND

- MW-1  GROUNDWATER MONITORING WELL
- ND/ND/0.59/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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MANAGEMENT,
INC.

**HYDROCARBON DISTRIBUTION IN
GROUNDWATER MAP**

Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

DATE	01/23/03	PROJECT	C81-1801 Santa Rita	FIGURE	4
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APPENDIX A

WELL PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2800 X235 FAX (925) 452-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1801 Santa Rita Rd,
Pleasanton, CA

PERMIT NUMBER 22138
 WELL NUMBER 3S/IE 16D25 to 16D29
 APN _____

California Coordinates Source _____ Accuracy _____ ft.
 CGN _____ R CCE _____ ft.
 APN 996-3295-3-6

PERMIT CONDITIONS

Circled Permit Requirements Apply

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

- 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 90 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.

APPLICANT
 Name KHM Environmental Management Inc.
 Address 6259 San Egencia Ave, E Phone 925-224-4518
 City San Jose Zip 95119

- 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.

TYPE OF PROJECT:
 Well Construction Geotechnical Investigation
 Well Destruction Contamination Investigation
 Cathodic Protection Other _____

- 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.

PROPOSED WELL USE:
 Domestic Irrigation
 Municipal Remediation
 Industrial Groundwater Monitoring
 Dewatering Other _____

- 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.

DRILLING METHOD:
 Mud Rotary Air Rotary Hollow Stem Auger
 Cable Tool Direct Push Other _____

- E. CATHODIC.** Fit note above anode zone with concrete placed by tremie.
F. WELL DESTRUCTION. See attached.
G. SPECIAL CONDITIONS. Submit to Zone 7 within 90 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

DRILLING COMPANY Greco Drilling
 DRILLER'S LICENSE NO. CS 72485165

WELL SPECIFICATIONS:
 Drill Hole Diameter 8 in. Maximum _____
 Casing Diameter 2 in. Depth 50 ft.
 Surface Seal Depth 33 ft. Number MW-1 TO MW-4

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

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.

Approved Wyman Hong Date 10/1/02
 Wyman Hong




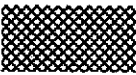

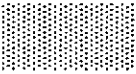


APPLICANT'S SIGNATURE Paul Fischer Date 9/23/02

ATTACH SITE PLAN OR SKETCH

APPENDIX B

BORING LOGS

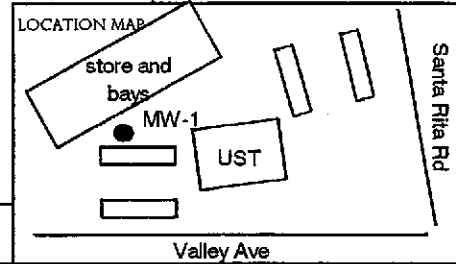
Boring Log Symbol Key

	First Encounter of Groundwater
	Stabilized Depth to Groundwater
	Asphalt
	Cement Grout
	Bentonite
	Sand
	Blank Casing
	Screened Casing



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasonton, CA
 DRILLER: Gregg DATE DRILLED: 10/15/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 92.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 92'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-1
 PAGE 1 OF 5



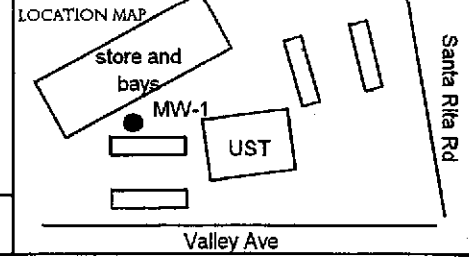
ELEVATION		NORTHING		EASTING	
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
								AF	Asphalt ~3" thick Air knifed to 7' on 10/3/02
			damp			1		ML	Gravelly SILT; medium to grey brown, 65% silt, 35% gravel ~2" diameter
			damp			2		CH	Fat CLAY; dark grey, medium stiff
			damp			3		ML	SILT; dark grey, trace gravel and cobbles
			damp	2.5		4		CL	Lean CLAY; grey brown
			damp			5			
			damp			6			
			damp			7			
			damp			8			
			damp	1.4	3	9		ML	SILT; light olive brown, medium stiff
					4	10			
						11			
						12			
						13			
			dry/damp	1.4	3	14			(trace of gravel 1/4" diameter)
					5	15			
					8	16			
						17			
						18			
			damp	2.0	3	19		CL	Lean CLAY; medium brown, medium stiff
					4	20			
					6	21			
						22			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
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 SLOT SIZE: 0.010" WELL DEPTH: 92'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-1
 PAGE 2 OF 5



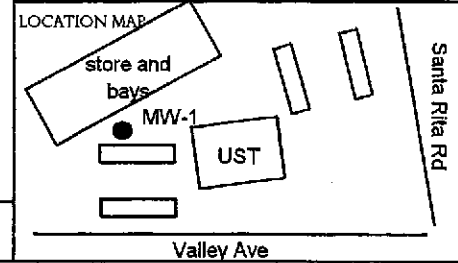
ELEVATION NORTHING EASTING

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
		damp	6.2	4 7 9	23 24 25	CL	continued	
		damp	1523	4	28	SP	Poorly Graded SAND; brown, fine-grained	
		damp	31.4	7	29 30	CL	Lean CLAY; medium brown, stiff	
		damp	11.1	4 5 6	34 35		(trace olive mottling)	
		damp	4.5	3 5 7	39 40			
		damp	5.9	3 5	43 44			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
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BORING/WELL NO: MW-1
 PAGE 3 OF 5



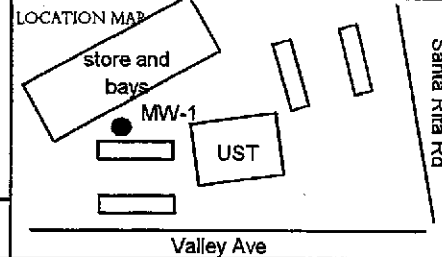
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
					6	45			CL	continued
						46				
						47				
						48				
			damp	2.9	7	49				(very stiff)
					8	50				
					9	51				
						52				
						53				
			damp	3.9	4	54				
					7	55			SW-SC	Well Graded SAND with Clay; medium to grey brown, fine to medium grained sand, 10% clay, very dense
					13	56				
						57				
						58				
			moist	3.9	19	59				(10% gravel)
					27	60				
					32	61				
						62				
						63				
			moist	3.3	21	64				(gravel up to 3/4" diameter)
					26	65				
					30	66				



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 SLOT SIZE: 0.010" WELL DEPTH: 92'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-1
 PAGE 4 OF 5



ELEVATION NORTHING EASTING

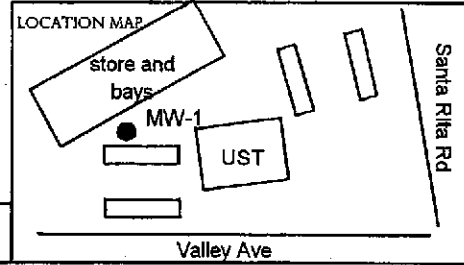
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					67		SW-SC	continued
		moist	1.9	24 36 39	68 69 70			(5% gravel 1/4-1/2")
		moist	3.0	22 50/5	73 74			(10% gravel)
		moist	2.3	28 22 24	79 80		SW	Well Graded SAND; 60% coarse grained sand, 10% gravel 1/4" diameter, trace of clay, dense
		moist	2.1	12 18 26	84 85			
	▽	wet			86 87 88			

KHM

ENVIRONMENTAL
MANAGEMENT
INCORPORATED

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PAGE 5 OF 5



ELEVATION NORTHING EASTING

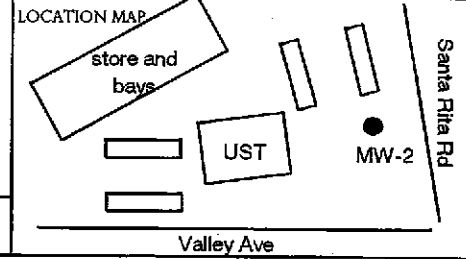
Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
	wet damp			6	89	GP	Poorly Graded GRAVEL with Sand; medium to grey brown, 1/4" diameter gravel	
				10	90	CL		Lean CLAY; medium brown, FeO ₃ mottling, hard
				13	91			
				9	92			
				14	93			
				19	94			
					95			
					96			
					97			
					98			
					99			
					100			
	101							
	102							
	103							
	104							
	105							
	106							
	107							
	108							
	109							
	110							

BOTTOM OF BORING @ 92.5 ft



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasonton, CA
 DRILLER: Gregg DATE DRILLED: 10/14/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 93.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 93'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-2
 PAGE 1 OF 5



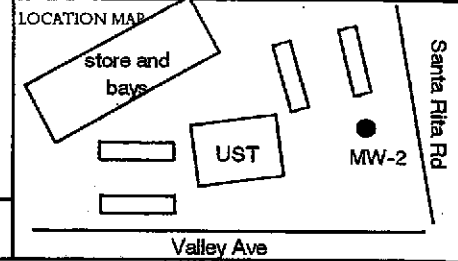
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			dry to damp		↑	1		AF	Asphalt ~6" thick (airknifed to 7 ft on 10/3/02)
			damp		↕	2		GC	Gravelly CLAY; brown, fine to coarse gravel
						3		CL	Lean CLAY with Gravel; ~35% gravel, 15-20% fine to coarse sand, medium plasticity
						4			(<5% sand, low plasticity)
						5			
						6			
						7			
			damp	6.2	↓	8			
						9		ML	SILT; medium to olive brown, medium stiff
						10			
						11			
						12			
						13			
			damp	2.5		14			(clay content increasing with depth)
						15		CL	Lean CLAY; medium brown with trace olive mottling,
						16			
						17			
						18			
			damp	1.9		19			(stiff)
						20			
						21			
						22			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/14/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 93.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 93'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-2
 PAGE 2 OF 5

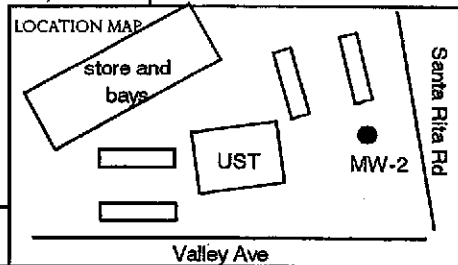


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill	Casing									
			damp	2.2	3 4 5	23 24 25		CL	Continued	
			moist	4.3	2 4 6	29 30		SC	(4" layer of clayey sand)	
							31 32 33		CL	Lean CLAY; as above
				damp	2.5	3 3 6	34 35			
							36 37 38			
				moist	2.1	3 5 6	39 40			(medium brown)
							41 42 43			
				damp	1.2	5 7	44			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS BORING/WELL NO: MW-2
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasonton, CA PAGE 3 OF 5
 DRILLER: Gregg DATE DRILLED: 10/14/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 93.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 93'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A



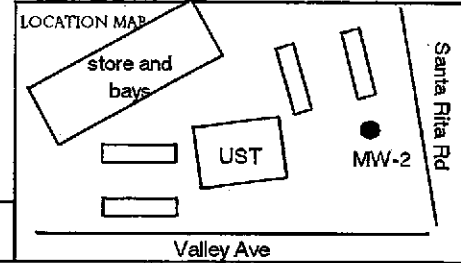
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
					10	45		CL	Continued
						46			
						47			
						48			
			damp	1.6	5	49			(olive and orange brown, very stiff)
					6	50			
					11	51			
						52			
						53			
			damp	1.9	14	54		SC	Clayey SAND; brown, 75% fine sand, 25% clay trace gravel (1/4" diameter), very dense
					27	55			
					46	56			
						57			
						58			
			damp	1.3	18	59		GP	Poorly Graded GRAVEL with Sand; grey, 65% gravel (1/4" diameter), 35% fine grained sand, very dense
					27	60			
					34	61			
						62			
						63			
			damp	2.2	13	64		SW	Well Graded SAND with Gravel; grey, dense
					16	65			
					22	66			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/14/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 93.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 93'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-2
 PAGE 4 OF 5



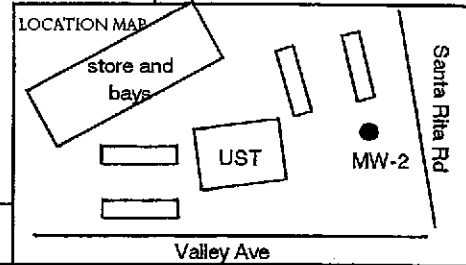
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			damp	2.6	15 21 37	67 68 69 70 71 72 73	SW	Continued	
			damp	0.9	20 50 29	74 75 76 77 78		(trace FeO mottling)	
			moist	0.8	18 30 33	79 80 81 82 83		(grades coarser, medium to coarse grained, 40% gravel up to 1" diameter, trace clay)	
		▽	moist/wet	0.6	18 31 34 22 31 34 45 50/3	84 85 86 87 88		(40% 1/4" diameter gravel)	
								(decrease in gravel content to 25%)	
							SP	Poorly Graded SAND; medium brown, fine grained	
							SP	Poorly Graded SAND with Gravel, fine grained sand lens	



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/14/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10'
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 93.5'
 CASING TYPE: PVC WELL DIAMETER: 4'
 SLOT SIZE: 0.010" WELL DEPTH: 93'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-2
 PAGE 5 OF 5

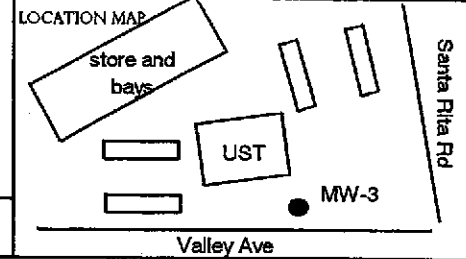


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			wet		13	89		SP	continued, (coarse grained)
					15			CL	Lean CLAY; medium brown
					9	90			(occasional FeO ₃ and greyish white mottling)
					11				
				wet		16	91		
					10				
					14	92			(olive green)
					19				
						93			
						94			BOTTOM OF BORING @ 93.5 ft
						95			
					96				
					97				
					98				
					99				
					100				
					101				
					102				
					103				
					104				
					105				
					106				
					107				
					108				
					109				
					110				



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS BORING/WELL NO: MW-3
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA PAGE 1 OF 5
 DRILLER: Gregg DATE DRILLED: 10/11/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 97.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 97'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A



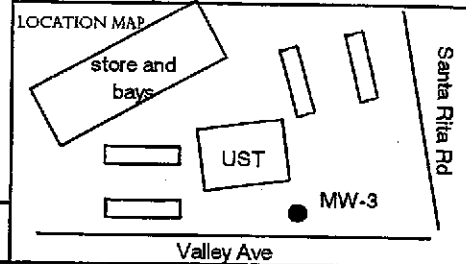
ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill					0		AF	Asphalt ~6" thick (airknifed to 7 ft on 10/3/02)
Casing					0		CL	Fill ~5" thick
		moist			1			
					2			Lean CLAY with Gravel; tan brown, 25% gravel
					3			1/4-1/2" diameter, low plasticity
					4			(dark grey, fine to coarse sand, gravel 1/8"-1/4" diameter)
					5			(15% sand and gravel)
					6			
					7			
					8			
		damp	3.9	3	9		SP	Poorly Graded SAND; medium brown, 85% fine grained sand, 10% fines
				3	10			
				4	11		CL	Lean CLAY with Sand; orange brown, moderate plasticity
					12			
					13			
		damp	1.9	4	14			(stiff)
				4	15			
				5	16			
					17			
					18			
		damp	4.7	4	19			
				6	20			
				9	21			
					22			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/11/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 97.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 97'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-3
 PAGE 2 OF 5



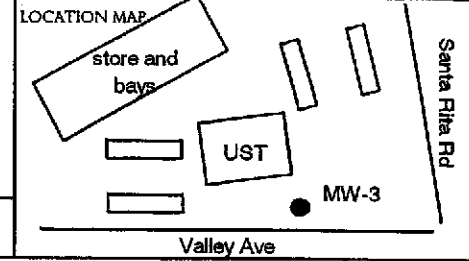
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
		moist	3.9	3.9	3, 4, 5	23		CL	Continued
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
		damp	3.0	3.0	5, 5, 8	29		SP	Poorly Graded SAND; medium brown, fine grained
						30		CL	Lean CLAY; medium brown
						31			
						32			
						33			
						34			
		damp	2.6	2.6	2, 6, 6	34			(stiff)
						35			
						36			
						37			
						38			
						39			
		damp	3.6	3.6	4, 5, 8	39			
40									
41									
42									
43									
44									
	1.9	1.9	4, 6	44			(medium brown with FeO mottling)		



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/11/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 97.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 97'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-3
 PAGE 3 OF 5



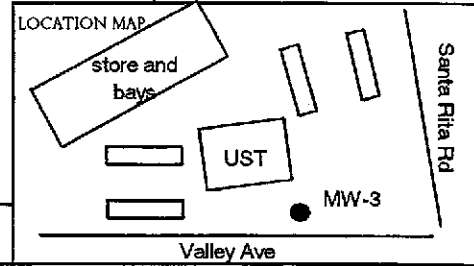
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Backfill	Casing		damp	1.7	7	45			CL	Continued
						46				
						47				
						48				
						49				
						50				
						51				
			damp	1.6	21 36 45	54			SP	Poorly Graded SAND with Gravel; 60% grey to orange brown medium grained sand, 40% light to dark grey gravel 1/4" to 1/2" diameter
						55				
						56				
						57				
						58				
						59				
						60				
			damp	1.0	28 38 45	59			GP	Poorly Graded GRAVEL with Sand; 60% gravel, 40% coarse sand, very dense
						60				
						61				
						62				
						63				
						64				
						65				
			damp	3.0	22 29 38	64			SW	Well Graded SAND; grey brown, orange and olive brown, 10% gravel
65										
66										



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/11/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 97.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 97'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-3
 PAGE 4 OF 5



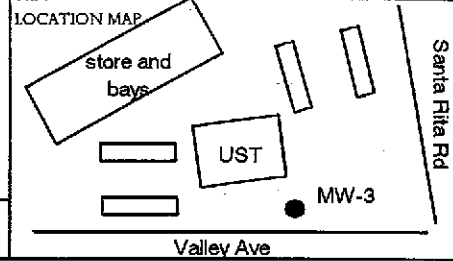
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			damp	1.3	20 42 50/5	67 68 69 70	SW	continued (trace clay @ 70')	
			dry/ damp	1.0	35 41 49	74 75	SP	Poorly Graded SAND with Gravel; orange to grey brown fine grained sand, 15% gravel 1/4" diameter	
			moist	1.3	29 34 42	79 80	SP/ GP	Poorly Graded SAND and GRAVEL; light grey to dark grey, and medium brown, 50% medium grained sand, 50% gravel ~1/4" diameter	
			moist	0.8	25 28 32	84 85	GW	Well Graded GRAVEL; grey to grey brown, 10% coarse sand, poorly sorted, gravel 1/8 - 1/2" diameter	
		▽	wet			86 87 88			





PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS BORING/WELL NO: MW-3
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA PAGE 5 OF 5
 DRILLER: Gregg DATE DRILLED: 10/11/02
 DRILLING METHOD: HSA HOLE DIAMETER: 10"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 97.5'
 CASING TYPE: PVC WELL DIAMETER: 4"
 SLOT SIZE: 0.010" WELL DEPTH: 97'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A



ELEVATION NORTHING EASTING

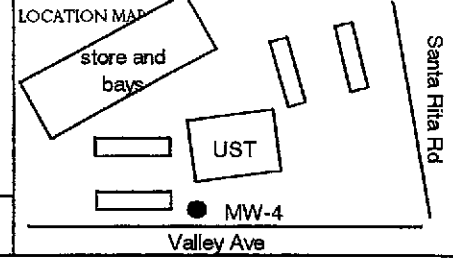
Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			wet		5	89		GW	continued
					8	90			
					12	91			
					6	92		GC	Clayey GRAVEL; medium brown, 60% gravel 1/4" diameter, fairly angular, 40% clay
					6	93			
					10	94			
					6	95		ML	SILT; orange brown, olive staining, hard
					7	96			
					9	97			
					6	98			
					9	99			
					13	100			
					8	101			
					12	102			
					17	103			
					24	104			
					28	105			
					33	106			
						107			
						108			
	109								
	110								

BOTTOM OF BORING @ 97.5 ft



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/10/02
 DRILLING METHOD: HSA HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 95.5'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 95'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-4
 PAGE 1 OF 5



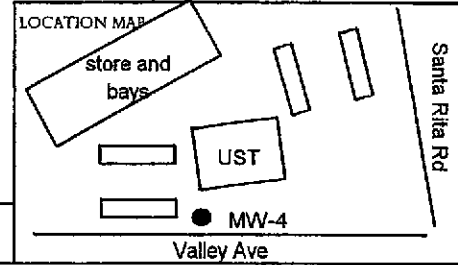
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									AF Asphalt ~6" thick (air knifed to 7' on 10/3/02) Fill ~6" thick
			dry/damp			1		SC	Clayey SAND with Gravel; tan brown, ~20% gravel, ~30% fines, fine to coarse grained sand
			damp/moist			2			
						3		CL	Lean CLAY; dark grey, <5% sand, low plasticity
						4			
						5			
						6			
						7			
						8			(medium brown)
			damp	0.3	2	9		ML	SILT; olive green, medium stiff
					3	10			
					4	11			
						12			
						13			
			damp	5.3	2	14			
					4	15		CL	Lean CLAY; olive green, distinctive zones of orange brown medium grained sand
					6	16			
						17			
						18			
			damp	1.2	2	19			
					4	20			(FeO mottling)
					5	21			
						22			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasanton, CA
 DRILLER: Gregg DATE DRILLED: 10/10/02
 DRILLING METHOD: HSA HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 95.5'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 95'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-4
 PAGE 2 OF 5

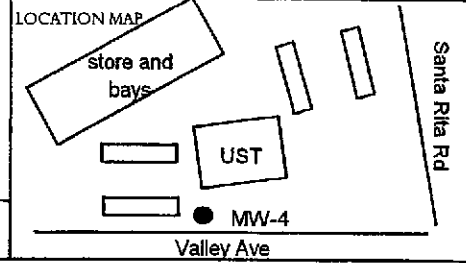


ELEVATION NORTHING EASTING

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
		damp	27.6	3 4 7	23 24 25		CL	Continued (olive green, stiff)
		damp	105	3 5 5	29 30			 (orange brown with occasional FeO mottling)
		damp	73.5	2 4 6	34 35			
		damp	655		39 40			
			11.8	5 9	44			



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS BORING/WELL NO: MW-4
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasonton, CA PAGE 3 OF 5
 DRILLER: Gregg DATE DRILLED: 10/10/02
 DRILLING METHOD: HSA HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 95.5'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 95'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A



ELEVATION NORTHING EASTING

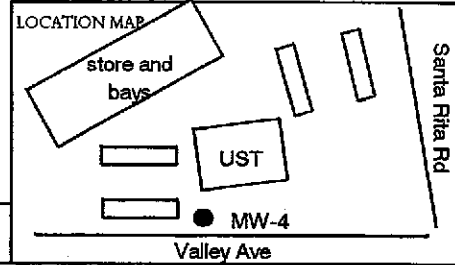
Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
			11.8	11	45		CL	Continued
		damp	10.3	4 6 8	49 50			(mottled, grey-green)
		damp	1.8	16 19 25	54 55		SP	Poorly Graded SAND with Gravel; brown, 75% medium sand, 25% gravel up to 2" in diameter
		dry/ damp	1.0	8 17 23	59 60			(10% gravel, poorly sorted sand, grey, trace of clay)
		dry/ damp	0.1	15 29 33	64 65			(70% sand, 30% gravel up to 1.5" diameter)
					66			

KHM

ENVIRONMENTAL
MANAGEMENT
INCORPORATED

PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasonton, CA
 DRILLER: Gregg DATE DRILLED: 10/10/02
 DRILLING METHOD: HSA HOLE DIAMETER: 8'
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 95.5'
 CASING TYPE: PVC WELL DIAMETER: 2'
 SLOT SIZE: 0.010' WELL DEPTH: 95'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-4
PAGE 4 OF 5



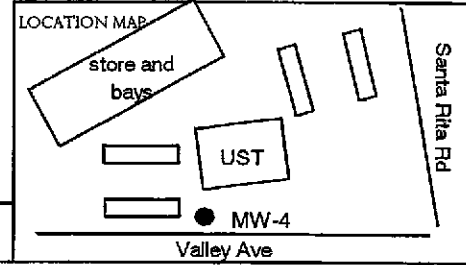
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casings								
						67		SP	Continued
			dry/damp	0.1	31 48 50	69 70			
			dry/damp	0.1	21 34 45	74 75		SW	Well Graded SAND; medium brown, 90% fine to medium grained, very dense
			moist	0.1	18 29 35	79 80		GP	Poorly Graded GRAVEL; medium brown, 90% gravel 1/8" to 1/4" diameter, 10% sand, trace clay, very dense
			moist	0.1	15 37 46	84 85			
			wet			86			
			wet		23 35 45	87 88		SW	Well Graded SAND with Gravel; medium brown, 80% sand, 20% gravel,



PROJECT NO: C81-1801 Santa Rita CLIENT: Shell OPUS
 LOGGED BY: J. Pearson LOCATION: 1801 Santa Rita Rd, Pleasonton, CA
 DRILLER: Gregg DATE DRILLED: 10/10/02
 DRILLING METHOD: HSA HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 95.5'
 CASING TYPE PVC WELL DIAMETER: 2"
 SLOT SIZE 0.010" WELL DEPTH: 95'
 GRAVEL PACK: 2-12 CASING STICKUP: N/A

BORING/WELL NO: MW-4
 PAGE 5 OF 5



ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION			
Backfill	Casing											
Sand			wet		21	89		SP	Poorly Graded SAND; medium brown, fine grained			
					35		GP	Poorly Graded GRAVEL; greyish to reddish brown, ~1/4" diameter, trace 2" diameter, coarse grained sand				
					45	90	SP	Poorly Graded SAND; medium brown, medium grained				
					24		GP	Poorly Graded GRAVEL				
			35		91							
			37		92							(gravel 1/8-1/4" diameter, occasionally up to 1/2")
			21		93							(olive, light brown, greyish to reddish, gravel fairly uniform 1/4" diameter)
			26		94						GC	Clayey GRAVEL; olive, light brown, greyish to reddish, 30% clay, gravel size coarsening with depth
			43		95							
			22		96							
			34		97							
			43		98							
			35		99							
			44		100							
	101											
	102											
	103											
	104											
	105											
	106											
	107											
	108											
	109											
	110											

BOTTOM OF BORING @ 95.5 ft

APPENDIX C

**WELL DEVELOPMENT
FIELD DATA SHEETS**

WELL DEVELOPMENT DATA SHEET

Project #: <u>021212 - MN 1</u>	Client: <u>Shell</u>
Developer: <u>MUN</u>	Date Developed: <u>12/12/02</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>90.40</u> After <u>91.97</u>	Depth to Water: Before <u>85.83</u> After <u>89.94</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>Surged for 15 min prior to purge</u>	

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

<u>3.0</u>	X	<u>10</u>	=	<u>30.0</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump N/A
 Other equipment used 4" Swabs

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1118	58.5	7.0	1384	>200	3.0	Brown, Silty (Fine) Middleburg Pump @ 2.5 gpm
1124	61.0	7.0	1320	>200	6.0	Brown Silty (Fine) Thick
1130	62.2	7.1	1336	>200	9.0	Brown, Silty (Very Fine) Thick Hard Bottom
1136	63.4	6.9	1455	>200	12.0	Brown Silty (Very Fine) Thinning out slightly
1142	63.7	7.0	1447	>200	15.0	Brown, Silty (Very Fine)
1143	well	dewatered				DTW = 90.01
1345	test + purge @		15 gpm	Middleburg pump		DTW = 86.02
1351	63.1	7.0	1479	2200	18.0	Brown, Silty (Fine) Slightly Thick
1357	63.4	6.9	1404	7700	21.0	Light Less Thinning Brown, Silty, out
1403	63.3	6.9	1389	7700	24.0	Light Very Brown, cloudy, clearing
1409	63.1	6.9	1391	7700	27.0	Light Very Brown, cloudy, clearing
1414	63.3	6.9	1462	7700	30.0	Light Brown, cloudy

Did Well Dewater? <u>YES</u>	If yes, note above.	Gallons Actually Evacuated:	<u>30.0</u>
------------------------------	---------------------	-----------------------------	-------------

WELL DEVELOPMENT DATA SHEET

Project #: 021212 - MWJ	Client: Shell
Developer: MWJ	Date Developed: 12/12/02
Well I.D. MW-2	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before 91.50 After 93.10	Depth to Water: Before 85.15 After 85.20
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purge	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in³/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.63
6" =	1.47
10" =	4.08
12" =	6.87

<u>4.2</u>	X	<u>10</u>	=	<u>42.0</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump
 Type of Installed Pump N/A
 Other equipment used 4" Swab

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1206	64.1	7.1	1636	7700	4.2	Brown/Silty Middleburg Thick (Grey, Fine), @ 55 ppm
1214	64.5	7.1	1662	7700	8.4	Brown/Silty Middleburg Thick (Grey, Fine), Thick
1222	64.3	6.9	1486	7700	12.6	Brown/Slightly Thinning (Grey, Less Silty), NUT
1230	64.6	6.9	1407	7700	16.8	Light Brown, Cloudy, Hard Bottom
1235	64.6	6.8	1396	7700	21.0	Cloudy, ^{NO} Silt DTW=85.25 *
1239	64.5	6.8	1387	7700	25.2	Cloudy, Turbidity Stable
1243	64.6	6.8	1384	7700	29.4	Cloudy
1247	64.6	6.8	1388	7700	33.6	Cloudy
1251	64.8	6.8	1384	7700	37.8	Cloudy
1255	64.7	6.8	1385	7700	42.0	Cloudy
Did Well Dewater? <u>NO</u>	If yes, note above.		Gallons Actually Evacuated:		42.0	

increase pump rate to 1 gpm.

WELL DEVELOPMENT DATA SHEET

Project #: 021212 - MW-3	Client: Shell
Developer: MW-3	Date Developed: 12/12/02
Well I.D. MW-3	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 97.00 After 97.07	Depth to Water: Before 85.49 After 95.71
Reason not developed:	If Free Product, thickness: -
Additional Notations: Surged for 15 min prior to purge	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 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

<u>7.5</u>	X	<u>10</u>	=	<u>75.0</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump n/a
 Other equipment used 4" Swabs

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
857	61.0	6.4	1365	>200	7.5	Brown, Silty (Fine Sand) Middleburg pump (B) 15 gpm
905	61.4	6.6	1339	>200	15.0	Brown, Silty (Fine Sand)
913	61.2	6.6	1377	>200	22.5	Brown, Silty (Fine Sand)
921	62.6	6.7	1386	>200	30.0	Brown, Silty (Fine Sand) slightly less
933	61.6	6.8	1370	>200	37.5	Brown, Less Very Very Hard Bottom Silty, Cloudy sand *
948	61.7	6.9	1357	>200	45.0	Brown, Very Cloudy, Very Fine sand
1003	61.6	6.8	1383	>200	52.5	Light Brown, Cloudy clearing
1018	61.6	6.9	1371	>200	60.0	Light Brown, Cloudy, reduced pump rate slightly
1039	61.4	6.9	1378	167	67.5	Cloudy, clearing
1059	61.5	6.8	1374	171	75.0	Cloudy
Did Well Dewater? <u>N/D</u>	If yes, note above.		Gallons Actually Evacuated:		<u>75.0</u>	

* Well starting to dewater D/W = 94.74
 reduced pump rate to ~ 15 gpm.

WELL DEVELOPMENT DATA SHEET

Project #: 021212 - MW1	Client: Shell
Developer: MWJ	Date Developed: 12/12/02
Well I.D. MW-4	Well Diameter: (circle one) 2 3 4 6
Total Well Depth:	Depth to Water:
Before 93.50 After 94.55	Before 84.36 After 84.61
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purge	

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

$$\frac{1.5}{1 \text{ Case Volume}} \times \frac{10}{\text{Specified Volumes}} = \frac{15.0}{\text{gallons}}$$

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump _____
 Other equipment used 4" Swabs

TIME	TEMP (F)	pH	Cond. (mS or μS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1319	62.1	7.1	1535	7200	1.5	Brown, Silty (Fine) Middleburg @ 5 ft pm.
1322	64.0	6.9	1655	7200	3.0	Brown, Silty (Fine) @ 10 ft 3.6
1324	64.2	6.9	1663	7100	4.5	Brown, Silty (Fine) Increased well volume rate to 1 gpm
1326	64.8	6.9	1627	7200	6.0	Brown, Silty (Fine)
1327	64.9	6.8	1592	7200	7.5	Brown, Slightly Less Silty, Heavy Bottom
1329	64.5	6.8	1562	7200	9.0	Brown, Less Silty, clearing slightly
1330	64.5	6.9	1576	7200	10.5	Light Brown, Very Fine Silt, clearing slightly
1332	64.5	6.8	1528	7200	12.0	Light Brown, Cloudy, Slightly Silty
1333	64.5	6.8	1522	7200	13.5	Light Brown, Cloudy, clearing
1335	64.5	6.8	1509	7100	15.0	Light Brown, very Cloudy.

Did Well Dewater? <u>NO</u>	If yes, note above.	Gallons Actually Evacuated: 15.0
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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

January 15, 2003

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

Re: **Shell-branded Service Station, 1801 Santa Rita Road, Pleasanton, California; KHM Project C81-1801 Santa Rita, MCE Job No.02250**

Dear Ms. Arnold,

As you requested, on January 8 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



SHELL-BRANDED SERVICE STATION
1801 Santa Rita Road
Pleasanton, California

KHM Project C81-1801 Santa Rita

Project :02250

User name MCE Date & Time 4:07:07 PM 01/14/2003
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
103	2071834.61	6163887.97	340.68	MW-4toc
104	2071835.08	6163888.00	341.07	MW-4tob
105	2071844.70	6163932.52	341.65	MW-3toc
106	2071845.01	6163932.65	342.10	MW-3tob
107	2071898.29	6163954.92	341.57	MW-2toc
108	2071898.72	6163954.83	341.97	MW-2tob
110	2071885.88	6163852.38	342.10	MW-1toc
111	2071886.20	6163852.42	342.60	MW-1tob
113	2070926.41	6164346.77	341.578	BM-Q1257

SHELL-BRANDED SERVICE STATION
1801 Santa Rita Road
Pleasanton, California

KHM Project C81-1801 Santa Rita

Project :02250

User name MCE Date & Time 4:07:07 PM 01/14/2003
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
103	37.676835287°N	121.874527932°W	340.68	MW-4toc
104	37.676836595°N	121.874527845°W	341.07	MW-4tob
105	37.676864798°N	121.874374521°W	341.65	MW-3toc
106	37.676865666°N	121.874374085°W	342.10	MW-3tob
107	37.677012858°N	121.874299848°W	341.57	MW-2toc
108	37.677014038°N	121.874300185°W	341.97	MW-2tob
110	37.676974642°N	121.874653492°W	342.10	MW-1toc
111	37.676975539°N	121.874653381°W	342.60	MW-1tob
113	37.674359783°N	121.872896753°W	341.578	BM-Q1257

	A	B	C	D	E	F	G	H	I	J	K	L
1	SHELL-BRANDED SERVICE STATION											
2	1801 Santa Rita Road											
3	Pleasanton, California											
4												
5	KHM Project C81-1801 Santa Rita											
6												
7	Project :02250											
8	User name MCE			Date & Time 4:07:07 PM 01/14/2003								
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	01/08/2003	37.6769746	-121.8746535	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing
17		MW-2	MW	01/08/2003	37.6770129	-121.8742998	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing
18		MW-3	MW	01/08/2003	37.6768648	-121.8743745	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing
19		MW-4	MW	01/08/2003	37.6768353	-121.8745279	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	1801 Santa Rita Road									
3	Pleasanton, California									
4										
5	KHM Project C81-1801 Santa Rita									
6										
7	Project :02250									
8	User name MCE Date & Time 4:07:07 PM 01/14/2003									
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	01/08/2003	342.10	CGPS	29		Mid Coast Engineers		top of casing
17		MW-2	01/08/2003	341.57	CGPS	29		Mid Coast Engineers		top of casing
18		MW-3	01/08/2003	341.65	CGPS	29		Mid Coast Engineers		top of casing
19		MW-4	01/08/2003	340.68	CGPS	29		Mid Coast Engineers		top of casing

APPENDIX E

**SOIL LABORATORY REPORT
AND CHAIN-OF-CUSTODY
DOCUMENTATION**



Report Number : 29243

Date : 10/31/2002

Tena Seeds
KHM Environmental Management
6284 San Ignacio Ave.
San Jose, CA 95119

Subject : 3 Soil Samples
Project Name : 1801 Santa Rita Road, Pleasanton
Project Number : C81-1801 Santa Rita
P.O. Number : 97402155

Dear Ms. Seeds,

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



Report Number : 29243

Date : 10/31/2002

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-1 @ 28.5 feet

Matrix : Soil

Lab Number : 29243-01

Sample Date :10/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	mg/Kg	EPA 8260B	10/28/2002
Toluene	1.5	0.050	mg/Kg	EPA 8260B	10/28/2002
Ethylbenzene	5.1	0.050	mg/Kg	EPA 8260B	10/28/2002
Total Xylenes	37	0.10	mg/Kg	EPA 8260B	10/28/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
TPH as Gasoline	420	5.0	mg/Kg	EPA 8260B	10/28/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/28/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/28/2002

Approved By:  Joel Kiff



Report Number : 29243

Date : 10/31/2002

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-1 @ 30 feet

Matrix : Soil

Lab Number : 29243-02

Sample Date :10/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.023	0.005	mg/Kg	EPA 8260B	10/28/2002
Toluene	0.13	0.005	mg/Kg	EPA 8260B	10/28/2002
Ethylbenzene	0.094	0.005	mg/Kg	EPA 8260B	10/28/2002
Total Xylenes	0.59	0.005	mg/Kg	EPA 8260B	10/28/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/28/2002
TPH as Gasoline	3.2	1.0	mg/Kg	EPA 8260B	10/28/2002
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	10/28/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/28/2002

Approved By:  Joel Kiff



Report Number : 29243

Date : 10/31/2002

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

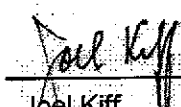
Sample : MW-1 @ 35 feet

Matrix : Soil

Lab Number : 29243-03

Sample Date : 10/16/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/26/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/26/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/26/2002
Total Xylenes	0.014	0.005	mg/Kg	EPA 8260B	10/26/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/26/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/26/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/26/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/26/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/26/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/26/2002
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	10/26/2002
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	10/26/2002

Approved By:  Joel Kiff

Report Number : 29243

Date : 10/31/2002

QC Report : Method Blank Data

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/25/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/25/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/25/2002
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	10/25/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/25/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/25/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/25/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/25/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/25/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/25/2002
Toluene - d8 (Surr)	102		%	EPA 8260B	10/25/2002
4-Bromofluorobenzene (Surr)	85.9		%	EPA 8260B	10/25/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
------------------	-----------------------	-------------------------------	--------------	------------------------	----------------------

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 1801 Santa Rita Road,

Project Number : C81-1801 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	29270-04	<0.0050	0.0391	0.0394	0.0389	0.0355	mg/Kg	EPA 8260B	10/25/02	99.4	90.2	9.71	70-130	25
Toluene	29270-04	<0.0050	0.0391	0.0394	0.0377	0.0347	mg/Kg	EPA 8260B	10/25/02	96.4	88.1	8.94	70-130	25
Tert-Butanol	29270-04	<0.0050	0.196	0.197	0.175	0.171	mg/Kg	EPA 8260B	10/25/02	89.6	87.1	2.82	70-130	25
Methyl-t-Butyl Ether	29270-04	<0.0050	0.0391	0.0394	0.0324	0.0304	mg/Kg	EPA 8260B	10/25/02	82.8	77.2	6.97	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



QC Report : Laboratory Control Sample (LCS)

Report Number : 29243

Date: 10/31/2002

Project Name : 1801 Santa Rita Road,


Project Number : C81-1801 Santa Rita

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0367	mg/Kg	EPA 8260B	10/25/02	97.2	70-130
Toluene	0.0367	mg/Kg	EPA 8260B	10/25/02	95.0	70-130
Tert-Butanol	0.183	mg/Kg	EPA 8260B	10/25/02	76.6	70-130
Methyl-t-Butyl Ether	0.0367	mg/Kg	EPA 8260B	10/25/02	76.1	70-130

KIFF ANALYTICAL, LLC

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

Approved By:


Joel Kiff

EQUIVA Services LLC Chain Of Custody Record

720 Olive Drive, Suite D
 Davis, CA 95616

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

Equiva Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRM HOUSTON

29243

Lynn Walker

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 5

DATE: October 16, 2002

PAGE: 1 of 1

SAMPLING COMPANY: KHM Environmental Mangement		LOG CODE: KHMS	SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton		GLOBAL ID NO.:
ADDRESS: 6204 San Ignacio Ave., San Jose, CA 95119			EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:
PROJECT CONTACT (Hardcopy or PDF Report to): Tena Seeds			Tena Seeds		CONSULTANT PROJECT NO.:
TELEPHONE: (425) 558-0134			SAMPLER NAME (S) Part: Jonathan Pearson		C81-1801 Santa Rita
FAX: (425) 869-7494			E-MAIL: tseeds@khm1.com		
E-MAIL: tseeds@khm1.com			LAB USE ONLY		

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

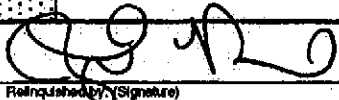
LA - RWQCB REPORT FORMAT UST AGENCY: _____ ACWD _____

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

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

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8200B - 0.5ppb RL)	Oxygenates (6) by (8200B)	Ethanol (8200B)	Methanol	EDB & 1,2-DCA (8200B)	EPA 503B Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (416.1)	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 (8200B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
																		TEMPERATURE ON RECEIPT C°
X	X			X														-01
X	X			X														-02
X	X			X														-03

	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

John Carter/Kiff Analytical 10/18/02 1046



Report Number : 29185

Date : 10/25/02

Tena Seeds
KHM Environmental Management
6284 San Ignacio Ave.
San Jose, CA 95119

Subject : 6 Soil Samples
Project Name : 1801 Santa Rita Road, Pleasanton
Project Number : C81-1801 Santa Rita
P.O. Number : 97402155

Dear Ms. Seeds,

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,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looped "J" and "K".

Joel Kiff



Report Number : 29185

Date : 10/25/02

Project Name: 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-4 @ 24.5 feet

Matrix : Soil

Lab Number : 29185-01

Sample Date :10/10/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/22/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	10/22/02
4-Bromofluorobenzene (Surr)	97.6		% Recovery	EPA 8260B	10/22/02

Approved By:  Joel Kiff



Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-4 @ 29.5 feet

Matrix : Soil

Lab Number : 29185-02

Sample Date :10/10/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.77	0.025	mg/Kg	EPA 8260B	10/24/02
Toluene	3.7	0.025	mg/Kg	EPA 8260B	10/24/02
Ethylbenzene	0.25	0.025	mg/Kg	EPA 8260B	10/24/02
Total Xylenes	1.3	0.050	mg/Kg	EPA 8260B	10/24/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
TPH as Gasoline	57	5.0	mg/Kg	EPA 8260B	10/24/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/24/02
4-Bromofluorobenzene (Surr)	93.3		% Recovery	EPA 8260B	10/24/02

Approved By:  Joel Kiff



Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-4 @ 34.5 feet

Matrix : Soil

Lab Number : 29185-03

Sample Date : 10/10/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.0	0.005	mg/Kg	EPA 8260B	10/24/02
Toluene	0.61	0.005	mg/Kg	EPA 8260B	10/24/02
Ethylbenzene	0.26	0.005	mg/Kg	EPA 8260B	10/24/02
Total Xylenes	0.41	0.010	mg/Kg	EPA 8260B	10/24/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
TPH as Gasoline	8.2	1.0	mg/Kg	EPA 8260B	10/24/02
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	10/24/02
4-Bromofluorobenzene (Surr)	93.8		% Recovery	EPA 8260B	10/24/02

Approved By:  Joel Kiff



Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-4 @ 40 feet

Matrix : Soil

Lab Number : 29185-04

Sample Date : 10/10/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.7	0.025	mg/Kg	EPA 8260B	10/21/02
Toluene	0.39	0.025	mg/Kg	EPA 8260B	10/21/02
Ethylbenzene	2.3	0.025	mg/Kg	EPA 8260B	10/21/02
Total Xylenes	9.6	0.050	mg/Kg	EPA 8260B	10/21/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
TPH as Gasoline	170	5.0	mg/Kg	EPA 8260B	10/21/02
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	10/21/02
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	10/21/02

Approved By:  Joel Kiff



Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-4 @ 45 feet

Matrix : Soil

Lab Number : 29185-05

Sample Date : 10/10/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.0069	0.005	mg/Kg	EPA 8260B	10/22/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	10/22/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/22/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/22/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	10/22/02
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	10/22/02

Approved By:  Joel Kiff



Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road, Pleasanton

Project Number : C81-1801 Santa Rita

Sample : MW-4 @ 50 feet

Matrix : Soil

Lab Number : 29185-06

Sample Date :10/10/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/24/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/24/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/24/02
Total Xylenes	< 0.010	0.010	mg/Kg	EPA 8260B	10/24/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/24/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/24/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/24/02
4-Bromofluorobenzene (Surr)	86.1		% Recovery	EPA 8260B	10/24/02

Approved By:  Joel Kiff

Report Number : 29185

Date : 10/25/02

QC Report : Method Blank Data

Project Name : **1801 Santa Rita Road, Pleasanton**

Project Number : **C81-1801 Santa Rita**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/21/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/21/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/21/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	10/21/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/21/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/21/02
Toluene - dB (Surr)	106		%	EPA 8260B	10/21/02
4-Bromofluorobenzene (Surr)	98.2		%	EPA 8260B	10/21/02

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By:  _____
Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road,

Project Number : C81-1801 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	29205-01	<0.0050	0.0401	0.0404	0.0381	0.0362	mg/Kg	EPA 8260B	10/20/02	95.2	89.6	5.95	70-130	25
Toluene	29205-01	<0.0050	0.0401	0.0404	0.0377	0.0353	mg/Kg	EPA 8260B	10/20/02	94.0	87.3	7.44	70-130	25
Tert-Butanol	29205-01	<0.0050	0.200	0.202	0.206	0.189	mg/Kg	EPA 8260B	10/20/02	103	93.4	9.84	70-130	25
Methyl-t-Butyl Ether	29205-01	<0.0050	0.0401	0.0404	0.0426	0.0425	mg/Kg	EPA 8260B	10/20/02	106	105	1.18	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  _____
 Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 29185

Date : 10/25/02

Project Name : 1801 Santa Rita Road,

Project Number : C81-1801 Santa Rita

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0398	mg/Kg	EPA 8260B	10/20/02	92.2	70-130
Toluene	0.0398	mg/Kg	EPA 8260B	10/20/02	92.0	70-130
Tert-Butanol	0.199	mg/Kg	EPA 8260B	10/20/02	87.8	70-130
Methyl-t-Butyl Ether	0.0398	mg/Kg	EPA 8260B	10/20/02	95.3	70-130

KIFF ANALYTICAL, LLC

Approved By:  _____
Joel Kiff

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

720 Olive Drive, Suite D

Davis, CA 95616

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

Equiva Project Manager to be invoiced:

SCIENCE & ENGINEERING

TECHNICAL SERVICES

CRMT HOUSTON

Lynn Walker

29185

INCIDENT NUMBER (SEE ONLY)

9 7 4 0 2 1 5 5

SAP or CRMT NUMBER (TS/CRMT)

DATE: October 14, 2002

PAGE: 1 of 1

SAMPLING COMPANY: KHM Environmental Mangement	LOG CODE: KHMS	SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton	GLOBAL ID NO.:
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ADDRESS: 6284 San Ignacio Ave., San Jose, CA 95119	EDF DELIVERABLE TO (Responsible Party or Designee): Tena Seeds	PHONE NO.: (425) 558-0134	E-MAIL: tseeds@khm1.com	CONSULTANT PROJECT NO.: C81-1801 Santa Rita
--	--	-------------------------------------	-----------------------------------	---

PROJECT CONTACT (Hardcopy or PDF Report to): Tena Seeds	SAMPLER NAME(S) (Print): Jonathan Pearson	LAB USE ONLY
---	---	--------------

TELEPHONE: (425) 558-0134	FAX: (425) 868-7494	E-MAIL: tseeds@khm1.com
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TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT UST AGENCY: ACWD

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 (8221B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxyorganics (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5036 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	TEMPERATURE ON RECEIPT C°	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
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	MW-4 @ 24.5 feet	10-Oct	10:00	soil	1	X	X			X															-01		
	MW-4 @ 29.5 feet	10-Oct	10:15	soil	1	X	X			X																-02	
	MW-4 @ 34.5 feet	10-Oct	10:42	soil	1	X	X			X																-03	
	MW-4 @ 40 feet	10-Oct	10:58	soil	1	X	X			X																-04	
	MW-4 @ 45 feet	10-Oct	11:10	soil	1	X	X			X																-05	
	MW-4 @ 50 feet	10-Oct	11:30	soil	1	X	X			X																-06	

Received by: (Signature) <i>[Signature]</i>	Date:	Time:
Received by: (Signature) _____	Date:	Time:
Received by: (Signature) <i>John C. Kiff</i>	Date: 10/15/02	Time: 1100

APPENDIX F

WELL GAUGING DATA

WELL GAUGING DATA

Project # 021212-MW1 Date 12/12/02 Client Shell

Site 1801 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	4					85.83	90.40	
MW-2	4					85.15	91.50	
MW-3	4					85.44	97.00	
MW-4	4					84.36	93.50	

WELL GAUGING DATA

Project # 021270-SS1 Date 12/20/02 Client Sheen

Site 1501 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	4					85.60	92.00	↓
MW-2	4					85.00	95.00	
MW-3	4					85.25	97.05	
MW-4	2					84.15	94.45	

APPENDIX G

**GROUNDWATER LABORATORY REPORT
AND
CHAIN-OF-CUSTODY DOCUMENTATION**



Report Number : 30561

Date : 1/3/2003

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

Subject : 4 Water Samples
Project Name : 1801 Santa Rita Rd., Pleasanton
Project Number : 021220-SS1
P.O. Number : 97402155

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,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looped initial "J".

Joel Kiff



Report Number : 30561

Date : 1/3/2003

Subject : 4 Water Samples
Project Name : 1801 Santa Rita Rd., Pleasanton
Project Number : 021220-SS1
P.O. Number : 97402155

Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-4.

Approved By:  _____
Joel Kiff



Report Number : 30561

Date : 1/3/2003

Project Name : 1801 Santa Rita Rd., Pleasanton

Project Number : 021220-SS1


Sample : MW-1

Matrix : Water

Lab Number : 30561-01

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	0.71	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)	94.7		% Recovery	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/26/2002
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/27/2002

Approved By:  Joel Kiff



Report Number : 30561

Date : 1/3/2003

Project Name : 1801 Santa Rita Rd., Pleasanton

Project Number : 021220-SS1

Sample : MW-2

Matrix : Water

Lab Number : 30561-02

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)	< 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)	101		% Recovery	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	12/26/2002
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/27/2002

Approved By:  Joel Kiff



Report Number : 30561

Date : 1/3/2003

Project Name : 1801 Santa Rita Rd., Pleasanton

Project Number : 021220-SS1

Sample : MW-3

Matrix : Water

Lab Number : 30561-03

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	12/27/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/27/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/27/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/27/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/27/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/27/2002
Toluene - d8 (Surr)	95.0		% Recovery	EPA 8260B	12/27/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/27/2002
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/27/2002

Approved By:  Joel Kiff



Report Number : 30561

Date : 1/3/2003

Project Name : 1801 Santa Rita Rd., Pleasanton

Project Number : 021220-SS1

Sample : MW-4

Matrix : Water

Lab Number : 30561-04

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	12/27/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/27/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/27/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/27/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/27/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/27/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/27/2002
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	12/27/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/27/2002
TPH as Diesel	69	50	ug/L	M EPA 8015	1/2/2003

Approved By:  Joel Kiff

Report Number : 30561

Date : 1/3/2003

QC Report : Method Blank Data

Project Name : 1801 Santa Rita Rd., Pleasanton

Project Number : 021220-SS1

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/26/2002
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 - dB (Surr)	104		%	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	12/26/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

Report Number : 30561

Date : 1/3/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 1801 Santa Rita Rd.,

Project Number : 021220-SS1

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	962	919	ug/L	M EPA 8015	12/26/02	96.2	91.9	4.54	70-130	25
Benzene	30561-02	<0.50	40.0	40.0	40.0	38.9	ug/L	EPA 8260B	12/26/02	100	97.2	2.86	70-130	25
Toluene	30561-02	<0.50	40.0	40.0	37.5	37.6	ug/L	EPA 8260B	12/26/02	93.8	94.1	0.319	70-130	25
Tert-Butanol	30561-02	<5.0	200	200	199	201	ug/L	EPA 8260B	12/26/02	99.6	101	0.979	70-130	25
Methyl-t-Butyl Ether	30561-02	<0.50	40.0	40.0	42.5	41.8	ug/L	EPA 8260B	12/26/02	106	105	1.54	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

Report Number : 30561

Date : 1/3/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **1801 Santa Rita Rd.,**

Project Number : **021220-SS1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/26/02	98.6	70-130
Toluene	40.0	ug/L	EPA 8260B	12/26/02	95.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/26/02	95.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/26/02	106	70-130

KIFF ANALYTICAL, LLC

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

Approved By:  _____
Joel Kiff

LAB: KIFF

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Lynn Walker

30561

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 5

SAP or CRMT NUMBER (TS/GRMT)

DATE: 12/20/02

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services		LOG CODE: BTSS	SITE ADDRESS (Street and City): 1801 Santa Rita Rd., Pleasanton		GLOBAL ID NO.: pending
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Debbie Arnold		PHONE NO.: (408)224-4724	E-MAIL: darnold@khm1.com
PROJECT CONTACT (Handcopy or PDF Report to): Leon Gearhart		SAMPLER NAME(S) (Print): SUCKER SUNG		CONSULTANT PROJECT NO.: BTS # 02-1270-951	
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.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 NOT NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8280B - 0.5ppb RL)	Oxygenates (5) by (8280B)	TPH - Diesel, Extractable	TEMPERATURE ON RECEIPT C°
		DATE	TIME									
	MW-1	12/20/02	1106	GR	5	X	X			X	Y	-01
	MW-2		947			X	X			X	Y	-02
	MW-3		1045			X	X			X	X	-03
	MW-4		920			X	X			X	X	-04

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

Relinquished by: (Signature) 	Received by: (Signature) 	Date: <u>12/23/02</u>	Time: <u>1022</u>
Relinquished by: (Signature) 	Received by: (Signature) 	Date:	Time:
Relinquished by: (Signature) 	Received by: (Signature) <u>John Cutler Kiff Analytical</u>	Date: <u>12/30/02</u>	Time: <u>1022</u>

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

10/1600 Revision

C&C Graphic (714) 858-9702

APPENDIX H

UNAUTHORIZED RELEASE REPORT

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

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.
REPORT DATE 10/31/02	CASE #	SIGNED _____ DATE _____

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Ms. Karen Petryna	PHONE (559) 645-9306	SIGNATURE	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME Shell Oil Products US		
	ADDRESS P.O. Box 7869 Burbank CA 91510-7869			

RESPONSIBLE PARTY	NAME Shell Oil Products US <input type="checkbox"/> UNKNOWN	CONTACT PERSON Karen Petryna	PHONE (559) 645-9306
	ADDRESS 2255 N. Ontario Burbank CA 91504		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) Shell Service Station	OPERATOR	PHONE ()	
	ADDRESS 1801 Santa Rita Road Pleasanton Alameda			
	CROSS STREET Valley Avenue			

IMPLEMENTING AGENCIES	LOCAL AGENCY Livermore-Pleasanton Fire Dept	CONTACT PERSON Danielle Stefani	PHONE (925) 454-2338
	REGIONAL BOARD San Francisco Bay RWQCB Mr. Chuck Headlee (510) 622-2433		

SUBSTANCES INVOLVED	(1) NAME TPH-g, BTEX compounds	QUANTITY LOST (GALLONS) <input type="checkbox"/> UNKNOWN
	(2) <input type="checkbox"/> UNKNOWN	

DISCOVERY/ABATEMENT	DATE DISCOVERED 10/25/02	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS	OTHER
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE _____		

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER
--------------	---	--

CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
-----------	--

CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input checked="" type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY
----------------	--

REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)	<input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> OTHER (OT) <u>Groundwater Monitoring</u>
-----------------	---	---

COMMENTS: TPH-g and BTEX compounds detected in soil samples from borings for new site monitoring wells. Max TPH-g = 170 mg/Kg. Max. benzene = 2.0 mg/Kg. No MTBE. Groundwater analytical

data pending

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT			
EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAD STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
REPORT DATE 11/03/02		CASE #	
FOR LOCAL AGENCY USE ONLY: I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SCHEDULE ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Ms. Karina Petryna		PHONE (559) 645-9306
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		SIGNATURE Karina Petryna
RESPONSIBLE PARTY	COMPANY OR AGENCY NAME Shell Oil Products US		PHONE 91510-7869
	ADDRESS P.O. Box 7869 Burbank CA		STATE ZIP
SITE LOCATION	NAME Shell Oil Products US <input type="checkbox"/> UNKNOWN		CONTACT PERSON Karen Petryna
	ADDRESS 2255 N. Ontario Burbank CA 91504		PHONE ()
REPORTING AGENCIES	LOCAL AGENCY AGENCY NAME Livermore-Pleasanton Fire Dept		CONTACT PERSON Danielle Stefani
	REGIONAL BOARD San Francisco Bay RWQCB		PHONE (925) 454-2338
SUBSTANCES INVOLVED	NAME TPH-g, BTEX compounds		QUANTITY LOST (GALLONS) <input type="checkbox"/> UNKNOWN
	DATE DISCOVERED 11/02/02		
DISCOVERY/ABATEMENT	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input checked="" type="checkbox"/> GROUND SURFACE MONITORING <input type="checkbox"/> MISUSE CONDITIONS		DATE DISCHARGE BEGAN
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE		METHODS USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)		
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input checked="" type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST-CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY		CHECK ALL APPLICABLE ACTIONS (SEE BACKSHEET) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> REMEDIED BY GEOGRADATION (GT) <input type="checkbox"/> CAP SITE (CS) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (AL) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> OTHER (OT) Groundwater Monitoring
	COMMENTS TPH-g and BTEX compounds detected in soil samples from borings for new site monitoring wells. Max. TPH-g = 170 mg/Kg. Max. benzene = 2.0 mg/Kg. No MTBE. Groundwater analytical data pending.		