Shell Oil Products US

December 16, 2005

Re: **Site Conceptual Model – Work Plan**
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US

Denis L. Brown
Project Manager

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.224.4518

December 16, 2005
Project SJ18-01S-1

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Service – Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Site Conceptual Model/Work Plan**
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Wickham,

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the attached electronic submittal of the requested *Site Conceptual Model/Work Plan* for the above-referenced site.

REMARKS

The recommendations and conclusions contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site, please contact Debbie Arnold (Delta) at (408) 826-1873.

Sincerely,

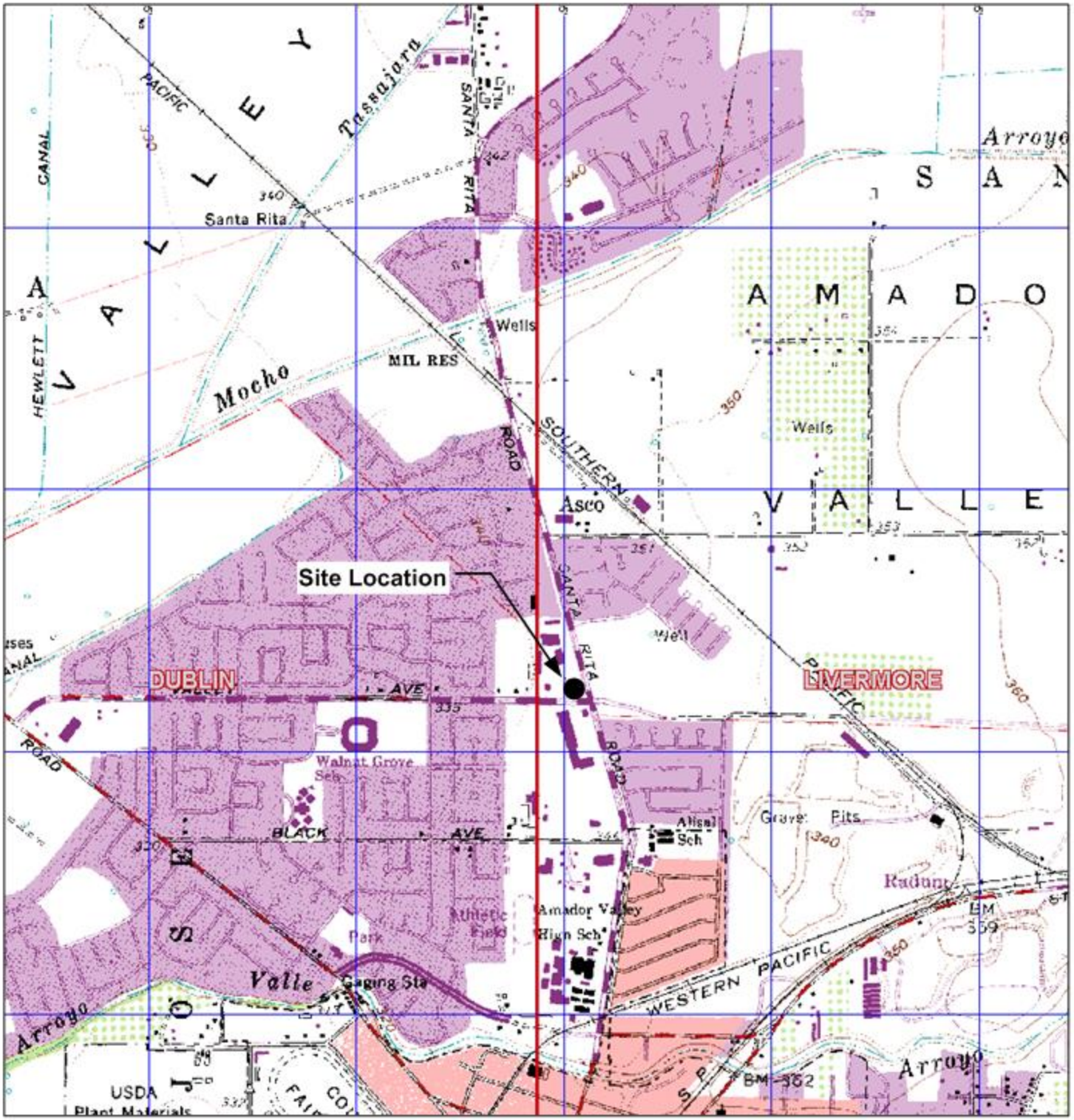
Delta Environmental Consultants, Inc.

Debbie Arnold
Project Geologist
PG 7745

ATTACHMENTS:

CD – Site Conceptual Model/ Work Plan, December 16, 2005

cc: Denis Brown, Shell Oil Products US, Carson
Isabel Mejia, Shell Oil Products US, Carson (hard copy)



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

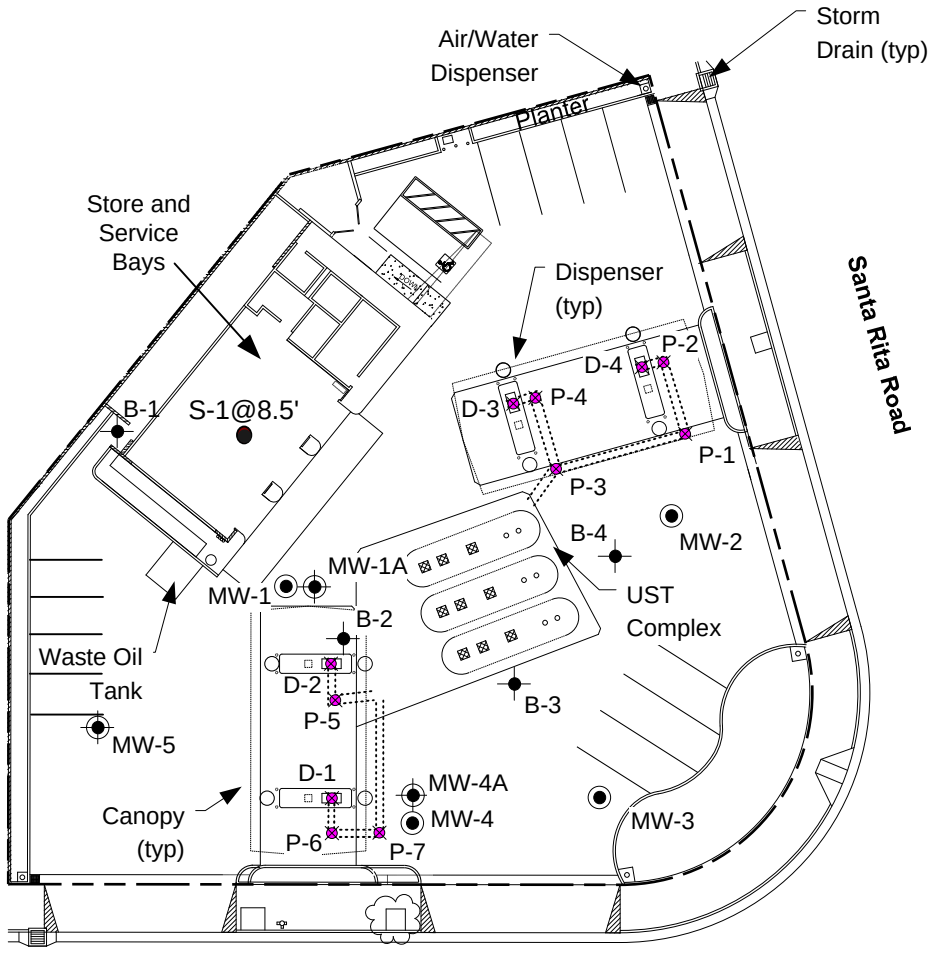
0 1,800 3,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2004	DRAWN BY VF 10/23/03
FILE NO. SJ18-01S-G.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.



No LUFT site
within ½ mile

Nearest Water Supply
Well 1,600 feet
City of Pleasanton
Well 06

Chevron Station 30 feet
SW Corner of Valley
and Santa Rita

0 ft. 40 ft. 80 ft.

LEGEND

MW-1 **EXISTING GROUNDWATER MONITORING WELL**

PIPING TRENCH

DISPENSER AND PIPING SOIL SAMPLE LOCATION (NOV. 2002)

HOIST SOIL SAMPLE LOCATION

MW-1A **PROPOSED GROUNDWATER MONITORING WELL**

B-1 **PROPOSED SOIL BORING**

SITE MAP

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

PROJECT NO. SJ18-01S-G.2005	DRAWN BY JL 11/30/05
FILE NO. SJ18-01S-G.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY DA

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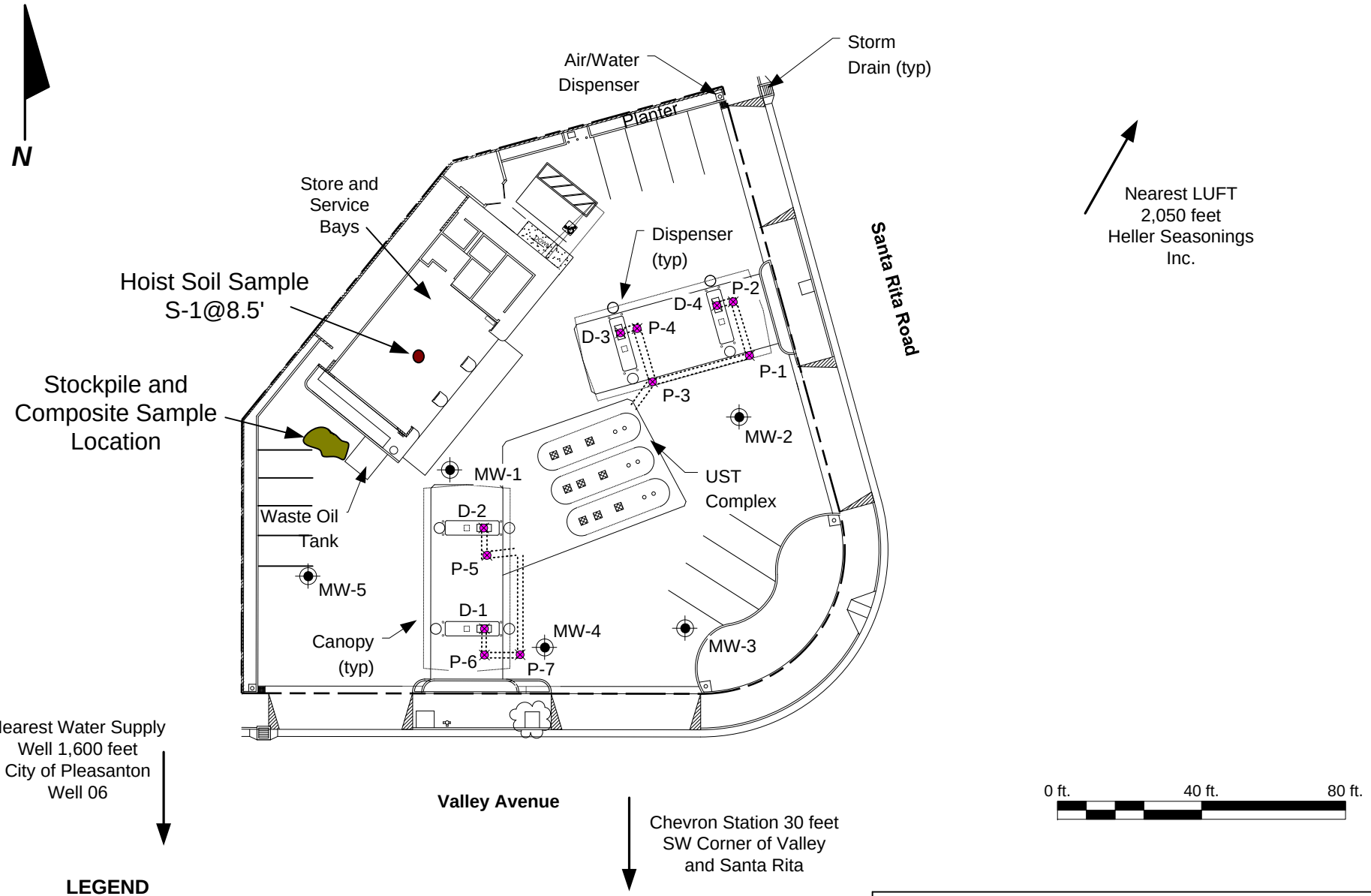


LEGEND

MW-1 **GROUNDWATER MONITORING WELL**

PIPING TRENCH

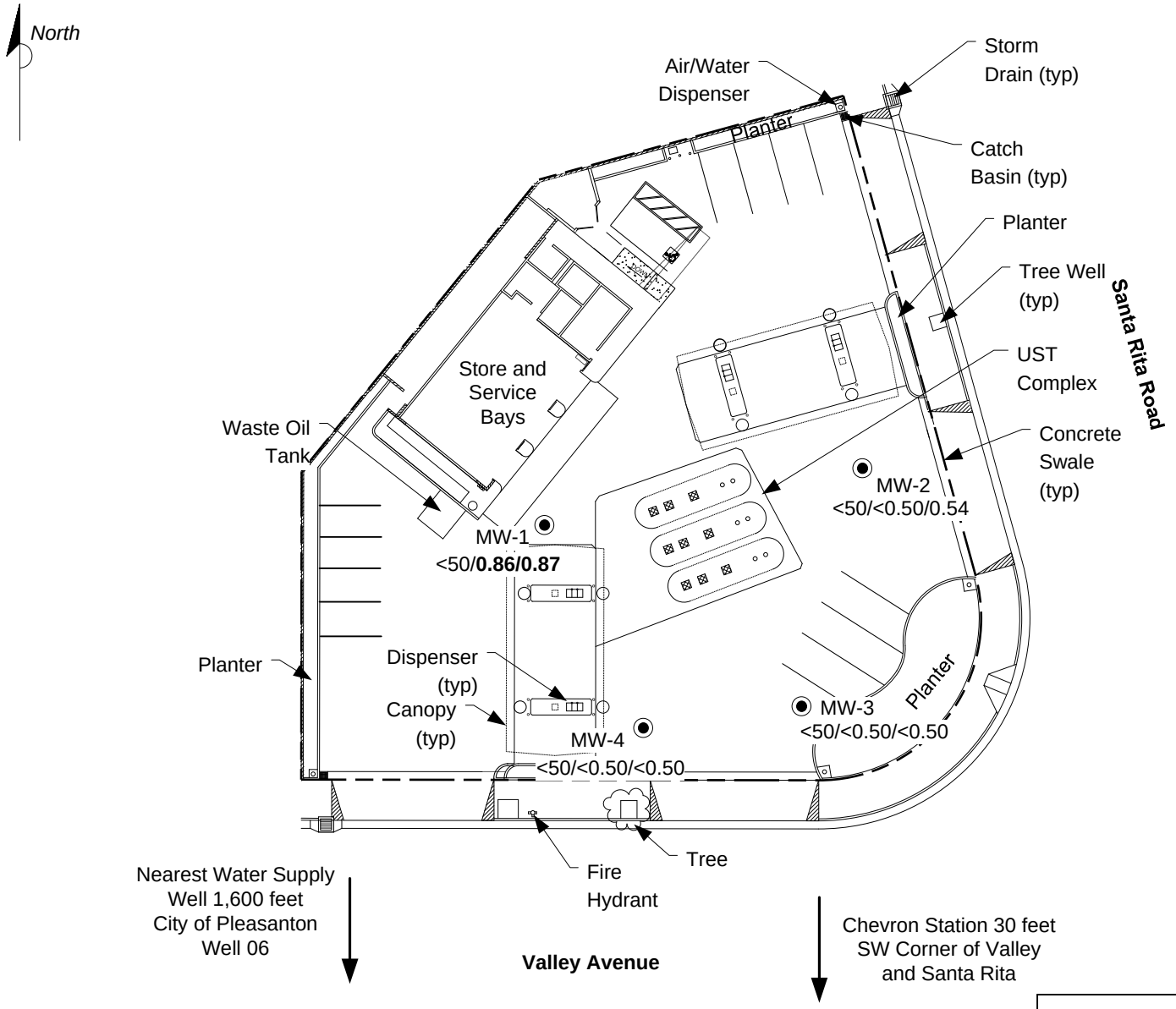
DISPENSER AND PIPING SOIL SAMPLE LOCATION

FIGURE 2
SOIL SAMPLE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2005	DRAWN BY JL 6/22/05
FILE NO. SJ18-01S-G.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY DA

Delta
Environmental Consultants, Inc.



No LUFT sites within ½ mile

LEGEND

MW-1 ◉ **GROUNDWATER MONITORING WELL**

<50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATIONS (UG/L), 10/20/05**

0 40 FT

APPROX. SCALE

FIGURE 3
TPH-G, BENZENE, AND MTBE CONCENTRATIONS MAP
OCTOBER 20, 2005

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

PROJECT NO. SJ18-01S-G.000G	DRAWN BY JL12/05/05
FILE NO. SJ18-01S-G.000G	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

DESCRIPTION OF UNITS

GRAVEL PITS

Qsc STREAM CHANNEL MATERIAL -- Mainly loose, well-sorted sand and gravel. This material is presently being transported during periods of normal runoff.

Qyf YOUNGER ALLUVIAL FAN DEPOSITS -- Includes colluvial fill in narrow canyons. Unconsolidated, moderately sorted, permeable fine sand and silt, with gravel becoming more abundant toward fan heads and within canyons. Forms well-drained levees which grade headward to stream deposits on terraces cut in Qof. Thickness varies from as much as 50 feet at fan heads and in canyons to about 20 feet where Qyf interfingers with Qyfo and Qb at the outer margins of fans. Locally contains aboriginal artifacts and skeletal remains.

Qyfo YOUNGER FLUVIAL DEPOSITS -- Unconsolidated deposits of fine, but variable grain size--mainly fine sand, silt, and silty clay; intermediate in character and lateral extent between Qb and Qyf. Forms levees and overbank deposits along the San Francisco Bay margin and in Livermore Valley, as well as valley fill in some open canyons. May be in part windblown in the southwestern part of the county. Generally less than 15 feet thick. Overbank deposits locally contain minor amounts of organic matter including fresh-water gastropods and pelecypods.

Qb INTERFLUVIAL BASIN DEPOSITS -- Plastic, poorly sorted, organic-rich clay and silty clay in poorly drained areas marginal to the bay and in Livermore Valley. Interfingers with Qyf, Qyfo, and recent mud of San Francisco Bay. Generally less than 10 feet thick. Locally contains fresh-water gastropods and pelecypods.

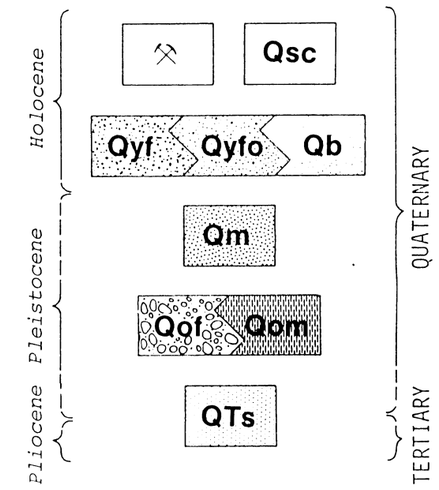
Qm MERRITT SAND -- Loose, fine-grained, very well sorted beach and wind-blown sand at Alameda Island and adjacent bay margin near Oakland (Lawson, 1914).

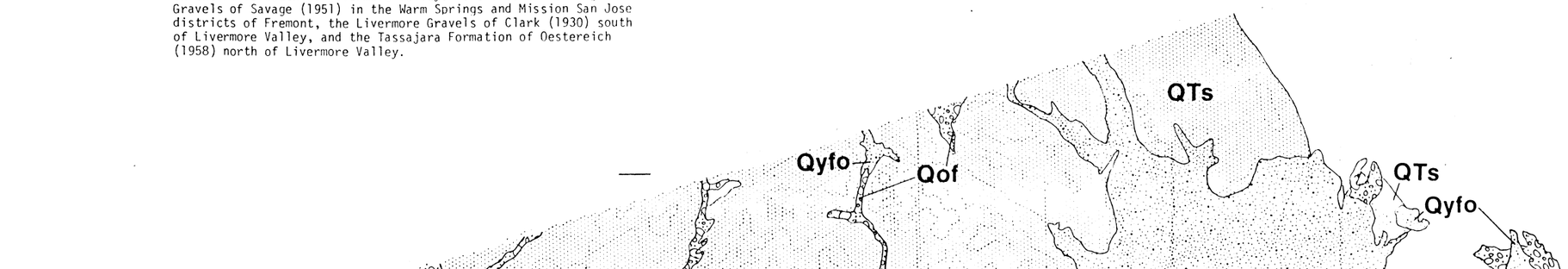
Qof OLDER ALLUVIAL FAN DEPOSITS -- Includes stream terrace deposits in some narrow canyons and on the margins of Livermore Valley. Weathered, weakly consolidated, poorly sorted silt sand and gravel (generally fine grained in northeastern Livermore Valley owing to derivation from friable sandstone bedrock). Less permeable and more poorly drained than younger alluvial fan deposits. Maximum thickness unknown but at least several hundred feet thick near bay margin. Headward portions overlapped by younger deposits on southern bay margin and incised by channels that are partially filled with younger deposits on northern bay margin and in Livermore Valley. Locally contains concentrations of continental vertebrate and invertebrate fossils. Includes the San Antonio Formation of Lawson (1914).

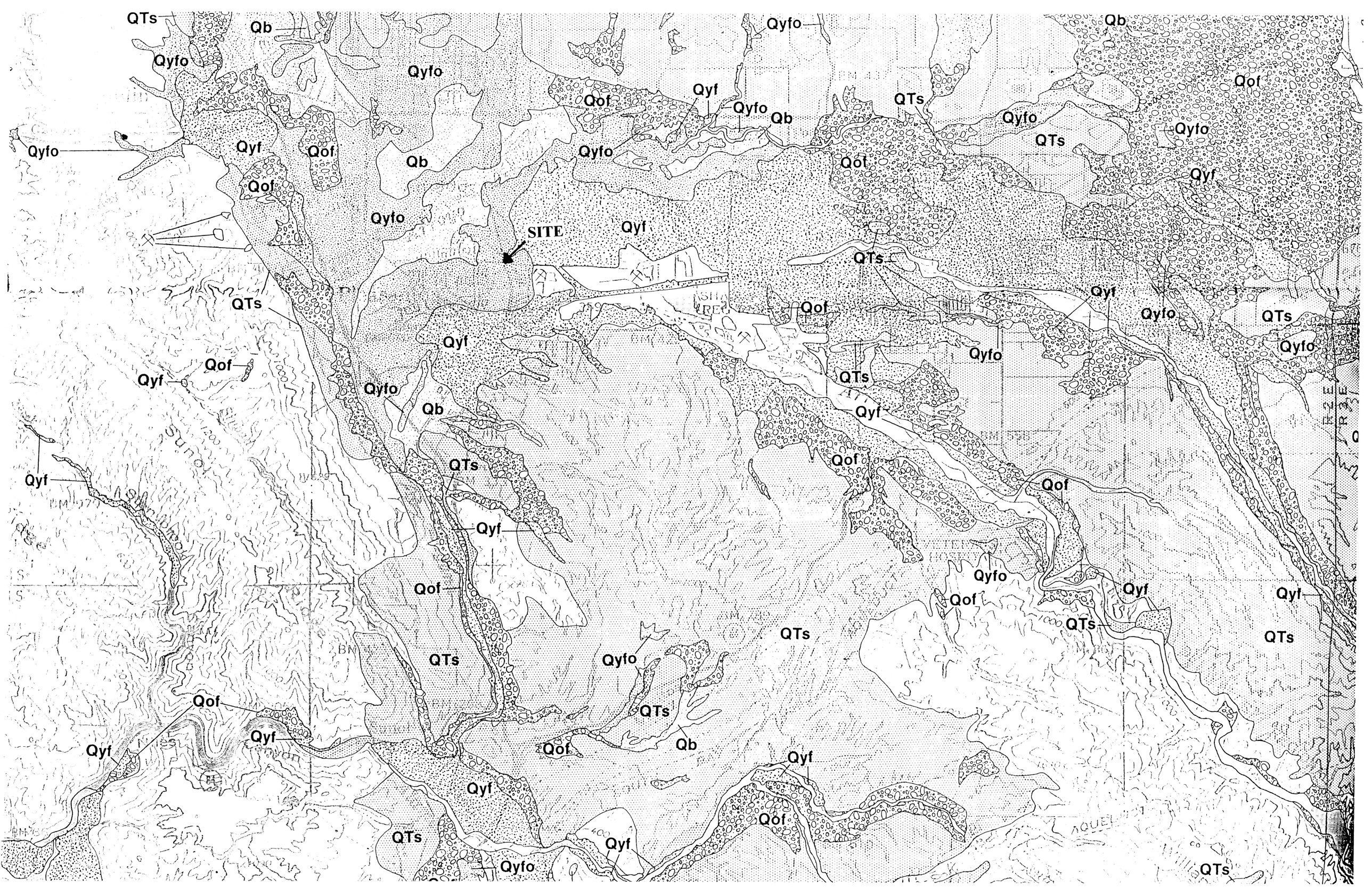
Qom OLDER MUD -- Dark, plastic, semiconsolidated, organic-rich clay and silty clay. Interfingers with Qof. Maximum thickness is unknown but greater than 50 feet near bay margin. Underlies recent mud of San Francisco Bay and locally underlies younger alluvial deposits on bay margin. Locally contains continental vertebrate fossils, fresh-water invertebrate fossils, and plant remains.

QTs DEFORMED OLDER SEDIMENTARY DEPOSITS -- Poorly consolidated to semiconsolidated alluvial deposits of gravel, sand, silt and clay with subordinate fine-grained lacustrine deposits; locally tuffaceous; locally contains abundant remains of continental vertebrate and invertebrate fossils. Maximum thickness unknown but over 5,000 feet in the hills south of Livermore Valley. Includes the Irvington Gravels of Savage (1951) in the Warm Springs and Mission San Jose districts of Fremont, the Livermore Gravels of Clark (1930) south of Livermore Valley, and the Tassajara Formation of Oestereich (1958) north of Livermore Valley.

CORRELATION OF UNITS






QTs
Qb
Qyfo
Qyf
Qof
SITE
Qyfo
Qyf
Qof
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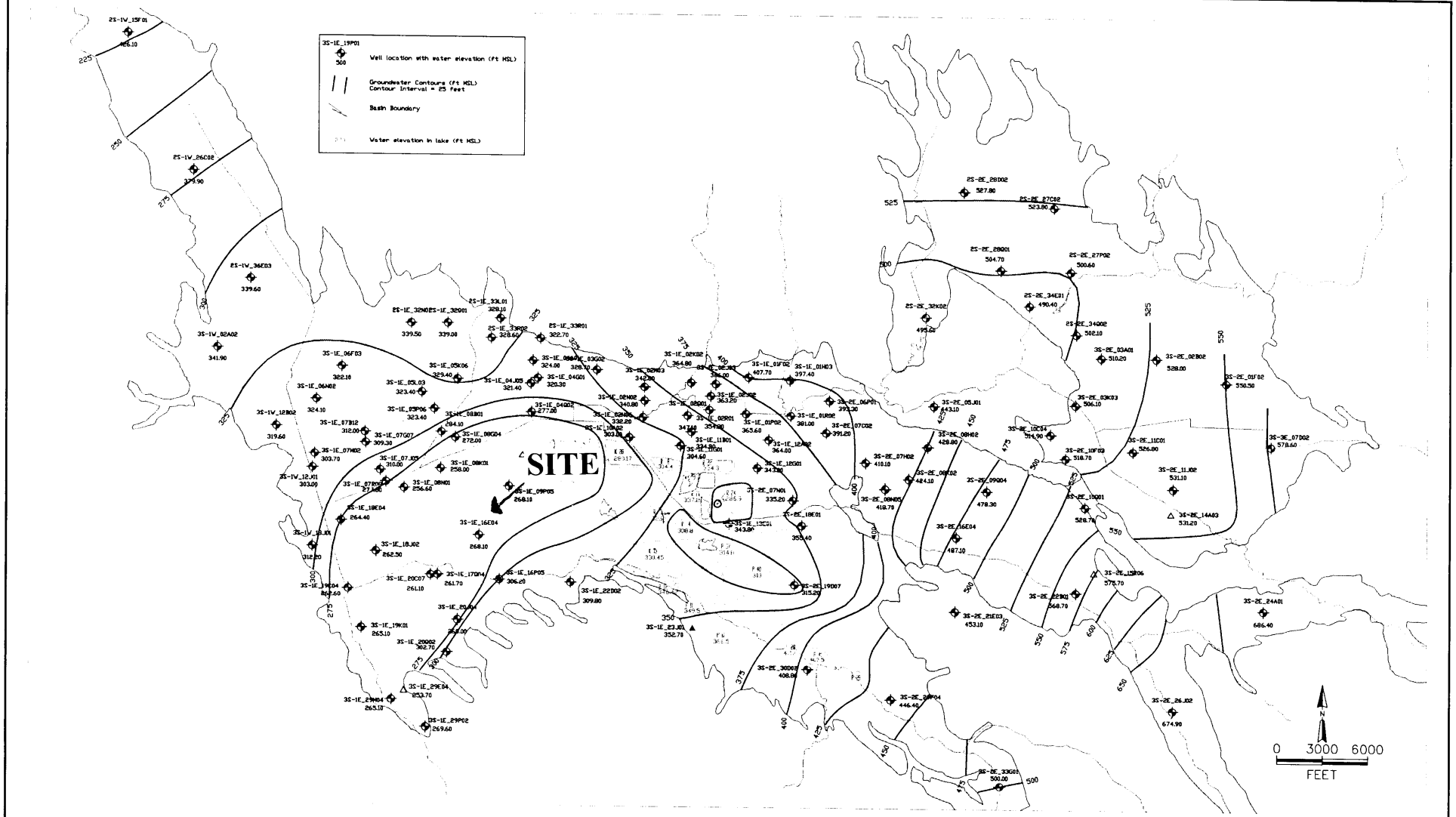
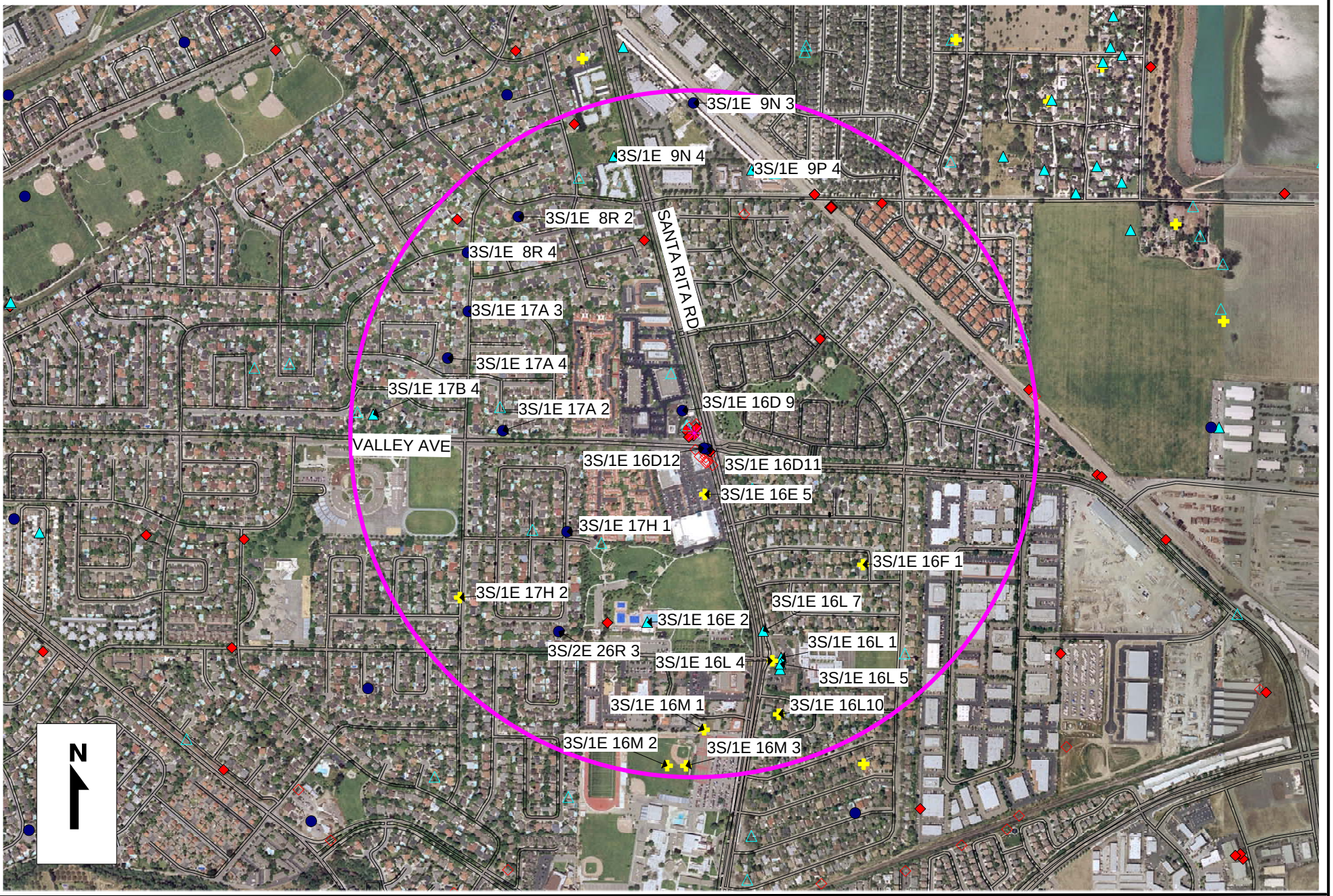


ZONE 7 WATER AGENCY 5997 PARKSIDE DRIVE, PLEASANTON, CA 94588	DWN: Tom Rooze DES.: Gerry Gates CHK: APPD:	Semi Annual Groundwater Gradient Map 2003 Water Year, Fall 2003 (September) Upper Aquifer, Livermore Valley Basin, California	FILE: 2003GWUpper.dwg DATE: Aug 5, 2004 FIGURE NUMBER: 4



	ZONE 7 WATER AGENCY **100 NORTH CANYONS PARKWAY** **LIVERMORE, CA 94551**	**WELL LOCATION MAP**	**SCALE: 1"= 1000'** **RADIUS = 1/2 mi** **1801 SANTA RITA RD** H:\FLOOD\REFERALLS\REFERALLS.WOR

WELLGEOG MAP LEGEND

Supply Well

Destroyed Supply Well

Monitoring Well

Destroyed Monitoring Well

Other Designated Well

Destroyed Other Designated Well

Injection Well

Destroyed Injection Well

Abandoned or Unlocatable Well

Unknown Use or Undesignated Well

Destroyed Unknown Use or Undesignated Well

Borehole

Stream Gaging Station

Climatological Station

Septic Tank Permit

Table 1
Summary of Soil Analytical Data
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead* (mg/kg)
Dispenser Samples													
D-1 @ 3'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**10.9**
D-2 @ 3.5'	11/15/2002	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**11.6**
D-3 @ 3.5'	11/15/2002	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**11.3**
D-4 @ 2.5'	11/15/2002	2.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**21.6**
Piping Trench Samples													
P-1 @ 3.5'	11/15/2002	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**19.5**
P-2 @ 3.0'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**8.33**
P-3 @ 5.0'	11/15/2002	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**6.73**
P-4 @ 3.0'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**12.5**
P-5 @ 4.0'	11/15/2002	4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**10.7**
P-6 @ 3.0'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**10.5**
P-7 @ 3'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**12.4**
Soil Stockpile Samples													
Composite A	11/19/2002	-	**4.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite B	11/19/2002	-	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite C	11/19/2002	-	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite D	11/19/2002	-	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite ABCD	11/19/2002	-	NA	<0.005	<0.005	<0.005	**0.0088**	<0.5	<0.5	<0.5	<0.5	<0.5	**10.2**
RBSLs		-	NE	0.045	2.5	2.6	1.0	0.028	NE	NE	NE	NE	1000

Notes:
RBSL = Risk based screening level components for soil set by the California Regional Water Quality Control Board
All analysis performed by EPA Method 8260B
mg/kg = milligrams per kilogram
TPH-G = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
TBA = Tert-Butanol
NA = Not analyzed
NE = Not established
<n = Below the laboratory detection limit
* = See Certified Analytical Report for entire suite of metals results

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
Summary of Groundwater Analytical Data
Independent Shell Service Station
1600 Canyon Del Rey Boulevard
Seaside, California

Sample Designation	Date Sampled	Depth (feet)	**TPH-g** (ug/l)	**Benzene** (ug/l)	**Toluene** (ug/l)	**Ethlybenzene** (ug/l)	**Xylene** (ug/l)	**MTBE** (ug/l)	**DIPE** (ug/l)	**ETBE** (ug/l)	**TAME** (ug/l)	**TBA** (ug/l)
Tank Pit Sample												
W-1-UST pit	10/10/2002	14	**<5,000**	<50	<50	<50	<50	**23,000**	<50	<50	**120**	**17,000**

All analysis performed by EPA Method 8260B
mg/kg = milligrams per kilogram
TPH-g = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
TBA = Tert-Butanol
NA = Not analyzed
ND = Not detected
ND = Not detected

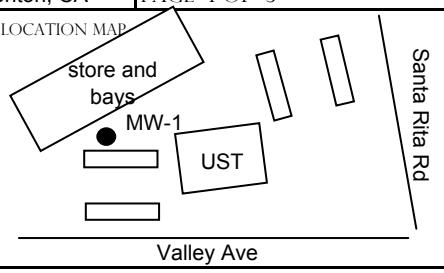
Groundwater Monitoring Well Construction Data
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, CA

Well	Date Installed	Total Depth (feet)	Screened Interval (feet)	Sand Pack Interval (feet)	Elevation Top of Casing (feet MSL)
MW-1	10/15/2002	92	77 to 92	75 to 92	342.1
MW-2	10/14/2002	93.5	78 to 93.5	76 to 93.5	341.57
MW-3	10/11/2002	97	82 to 97	80 to 97	341.65
MW-4	10/9/2002	95	80 to 95	78 to 95	340.68

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-1
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	1 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/15/2002		
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		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



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

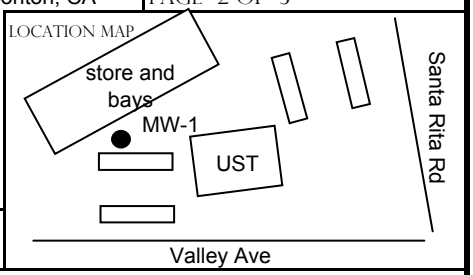
Cement Grout

Air Knifed

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-1
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	2 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/15/2002		
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		
ELEVATION		NORTHING		EASTING	

LOCATION MAP

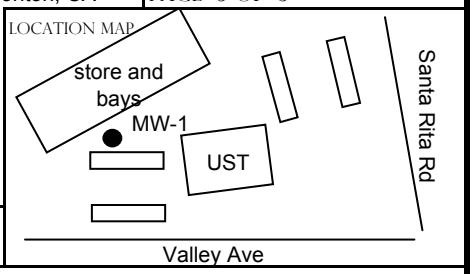


Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout					23			
				4	24		CL	continued
		damp	6.2	7				
				9	25			
					26			
					27			
					28			
		damp	1523	4	29		SP	**Poorly Graded SAND**; brown, fine-grained
				7			CL	**Lean CLAY**;medium brown, stiff
		damp	31.4	7	30			
					31			
					32			
					33			
				4	34			(trace olive mottling)
		damp	11.1	5				
				6	35			
					36			
					37			
					38			
				3	39			
		damp	4.5	5				
				7	40			
					41			
					42			
					43			
		damp	5.9	3	44			
				5				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-1
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	3 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/15/2002		
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		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



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

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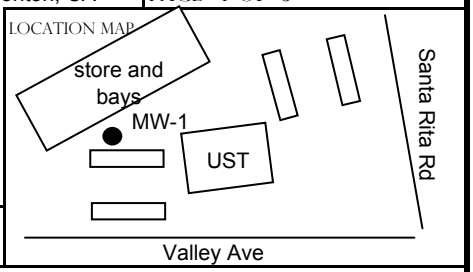
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/2002
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
ELEVATION		NORTHING	EASTING

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

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout						67			SW-SC	continued
						68				
					24	69	■	■		
			moist	1.9	36		■	■		(5% gravel 1/4-1/2")
					39	70	■	■		
Bentonite Chips						71				
						72				
						73				
			moist	3.0	22	74	■	■		(10% gravel)
					50/5		■	■		
Sand						75				
						76				
						77				
						78				
					28	79	■	■	SW	**Well Graded SAND**; 60% coarse grained sand, 10%
			moist	2.3	22		■	■		gravel 1/4" diameter, trace of clay, dense
					24	80	■	■		
						81				
						82				
						83				
					12	84	■	■		
			moist	2.1	18		■	■		
		▽	wet		26	85	■	■		
						86				
						87				
						88				

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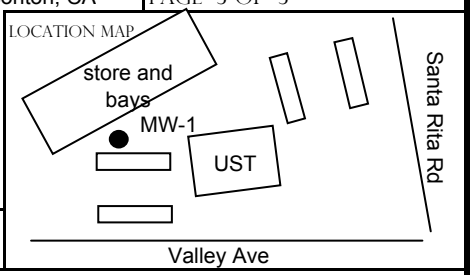
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/2002
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
ELEVATION		NORTHING	EASTING

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

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand			wet		6 10 13	89			GP	**Poorly Graded GRAVEL with Sand**; medium to grey brown, 1/4" diameter gravel
			damp		9 14 19	90			CL	**Lean CLAY**; medium brown, FeO_3 mottling, hard
						91				
						92				
						93				**BOTTOM OF BORING @ 92.5 ft**
						94				
						95				
						96				
						97				
						98				
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

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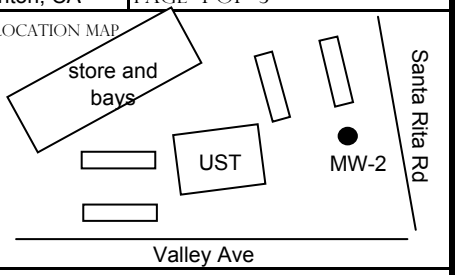
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-2
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	1 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/2002		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	93'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



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

Cement Grout

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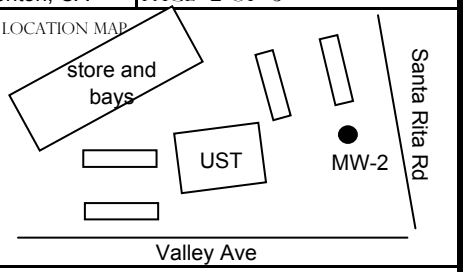
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/14/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	93'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-2

LOCATION MAP



Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout					23			
				3	24		CL	Continued
		damp	2.2	4				
				5	25			
					26			
					27			
					28			
				2	29			
		moist	4.3	4			SC	(4" layer of clayey sand)
				6	30		CL	**Lean CLAY**; as above
					31			
					32			
					33			
				3	34			
		damp	2.5	3				
				6	35			
					36			
					37			
					38			
				3	39			(medium brown)
		moist	2.1	5				
				6	40			
					41			
					42			
					43			
		damp	1.2	5	44			
				7				

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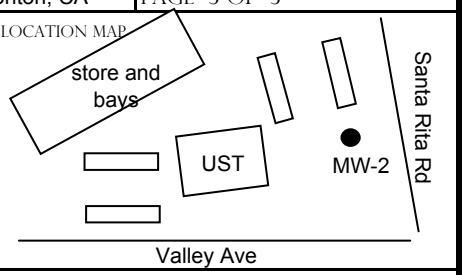
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-2
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	3 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/2002		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	93'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



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

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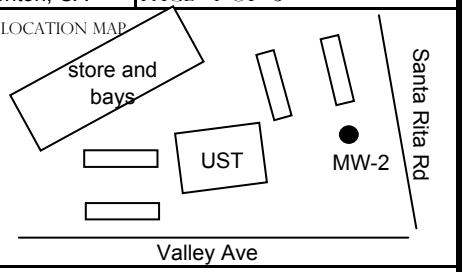
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/14/2002
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

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

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout						67			SW	Continued
						68				
					15	69				
			damp	2.6	21					
					37	70				
						71				
						72				
						73				
Bentonite Chips					20	74				
			damp	0.9	50					(trace FeO mottling)
					29	75				
						76				
						77				
						78				
Sand					18	79				(grades coarser, medium to coarse grained,
			moist	0.8	30					40% gravel up to 1" diameter, trace clay)
					33	80				
						81				
						82				
						83				
					18	84				
			moist/	0.6	31					(40% 1/4" diameter gravel)
		▽	wet		34	85				
					22					
					31	86				(decrease in gravel content to 25%)
					34					
					45	87			SP	**Poorly Graded SAND**; medium brown, fine grained
					50/3				SP	**Poorly Graded SAND with Gravel,**
						88				fine grained sand lens
					12					

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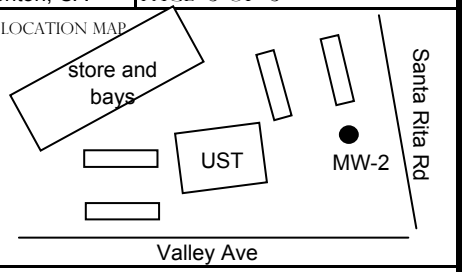
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-2
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	5 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/2002		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	93'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand				13	89			SP	continued, (coarse grained)
		wet		15				CL	**Lean CLAY**; medium brown
				9	90				(occasional FeO_3 and greyish white mottling)
				11					
				16	91				
		wet		10					
				14	92				
				19					(olive green)
					93				
					94				**BOTTOM OF BORING @ 93.5 ft**
					95				
					96				
					97				
					98				
					99				
					100				
					101				
					102				
					103				
					104				
					105				
					106				
					107				
					108				
					109				
					110				

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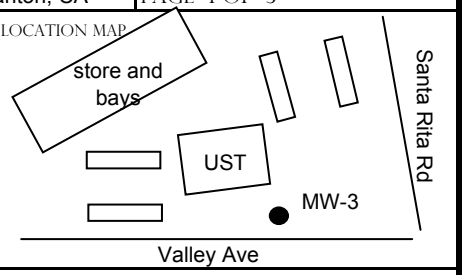
ENVIRONMENTAL MANAGEMENT INCORPORATED

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:	10/11/2002		
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	

LOCATION MAP



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

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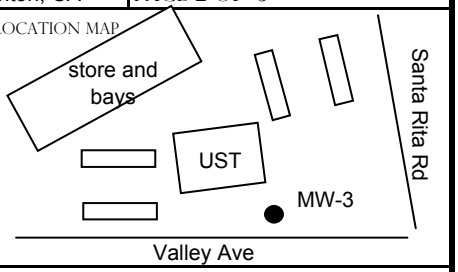
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3

LOCATION MAP



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

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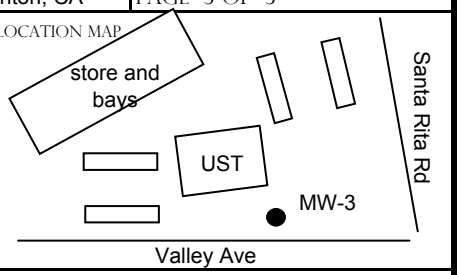
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
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

BORING/WELL NO: MW-3

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing				7	45		CL	Continued
					46			
					47			
					48			
				6	49			(olive brown)
		damp	1.7	11				
				15	50			
					51			
					52			
					53			
				21	54		SP	**Poorly Graded SAND with Gravel**; 60% grey to orange
		damp	1.6	36				brown medium grained sand, 40% light to dark grey gravel
				45	55			1/4" to 1/2" diameter
					56			
					57			
					58			
				28	59		GP	**Poorly Graded GRAVEL with Sand**; 60% gravel, 40%
		damp	1.0	38				coarse sand, very dense
				45	60			
					61			
					62			
					63			
				22	64		SW	**Well Graded SAND**; grey brown,
		damp	3.0	29				orange and olive brown, 10% gravel
				38	65			
					66			

Cement Grout

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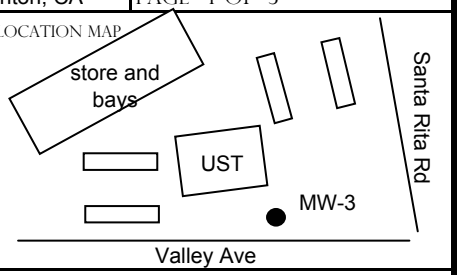
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
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

BORING/WELL NO: MW-3

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill: Cement Grout; Casing					67		SW	continued
					68			
				20	69			
		damp	1.3	42				
				50/5	70			(trace clay @ 70')
					71			
					72			
					73			
		dry/		35	74		SP	**Poorly Graded SAND with Gravel**; orange to grey brown
		damp	1.0	41				fine grained sand, 15% gravel 1/4" diameter
				49	75			
					76			
					77			
Bentonite Chips					78			
				29	79		SP/	**Poorly Graded SAND and GRAVEL**; light grey to dark
		moist	1.3	34			GP	grey, and medium brown, 50% medium grained sand,
				42	80			50% gravel ~1/4" diameter
					81			
					82			
					83			
Sand				25	84		GW	**Well Graded GRAVEL**; grey to grey brown,
		moist	0.8	28				10% coarse sand, poorly sorted, gravel 1/8 - 1/2" diameter
				32	85			
					86			
	▽	wet			87			
					88			

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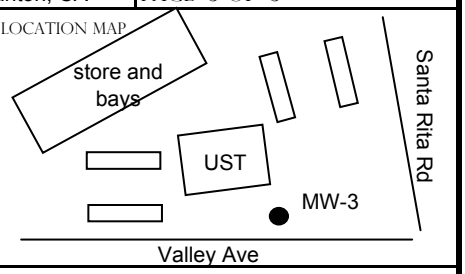
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-3
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA	PAGE	5 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/11/2002		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	97'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand					5	89				
					8				GW	continued
					12	90				
					6					
					6	91				
					10					
					6	92			GC	**Clayey GRAVEL**; medium brown, 60% gravel 1/4"
			wet		7					diameter, fairly angular, 40% clay
					9	93				
					6					
					9	94				
					13					
					8	95				
			damp/		12				ML	**SILT**; orange brown, olive staining, hard
			wet		17	96				
					24					
					28	97				
					33					
						98				**BOTTOM OF BORING @ 97.5 ft**
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

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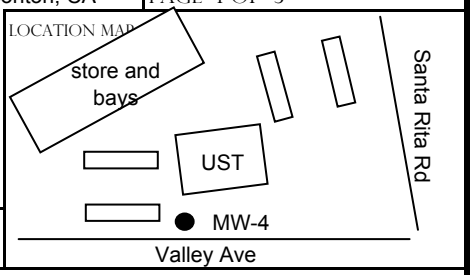
ENVIRONMENTAL MANAGEMENT INCORPORATED

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	1 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/10/2002		
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	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					Air Knifed				AF	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
						2				
			damp/ moist			3			CL	**Lean CLAY**; dark grey, <5% sand, low plasticity
						4				
						5				
						6				
						7				
						8				(medium brown)
					2	9				
			damp	0.3	3				ML	**SILT**; olive green, medium stiff
					4	10				
						11				
						12				
						13				
					2	14				
			damp	5.3	4					
					6	15			CL	**Lean CLAY**; olive green, distinctive zones of orange brown medium grained sand
						16				
						17				
						18				
					2	19				
			damp	1.2	4					
					5	20				(FeO mottling)
						21				
						22				

Cement Grout

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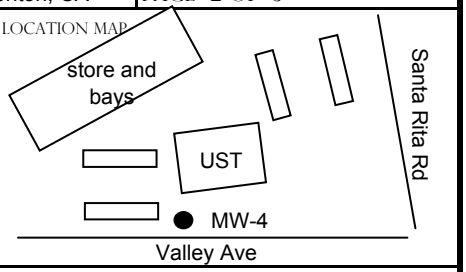
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement grout						23			CL	Continued
					3	24				(olive green, stiff)
			damp	27.6	4					
					7	25				
						26				
						27				
						28				(orange brown with occasional FeO mottling)
					3	29				
			damp	105	5					
					5	30				
						31				
						32				
						33				
					2	34				
			damp	73.5	4					
					6	35				
						36				
						37				
						38				
						39				
			damp	655						
						40				
						41				
						42				
						43				
						44				
				11.8	5					
					9					

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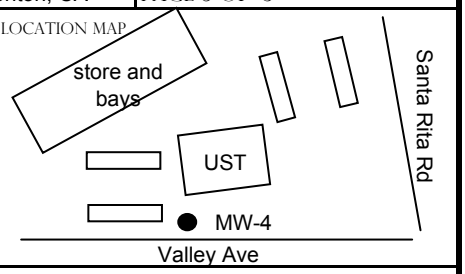
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
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

BORING/WELL NO: MW-4

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing								
Cement grout			11.8	11	45		CL	Continued
					46			
					47			
					48			
				4	49			(mottled, grey-green)
		damp	10.3	6				
				8	50			
					51			
					52			
					53			
				16	54			
		damp	1.8	19				
				25	55		SP	**Poorly Graded SAND with Gravel**; brown, 75% medium sand, 25% gravel up to 2" in diameter
					56			
					57			
					58			
		dry/		8	59			(10% gravel, poorly sorted sand, grey, trace of clay)
		damp	1.0	17				
				23	60			
					61			
					62			
					63			
		dry/	0.1	15	64			(70% sand, 30% gravel up to 1.5" diameter)
		damp		29				
				33	65			
					66			

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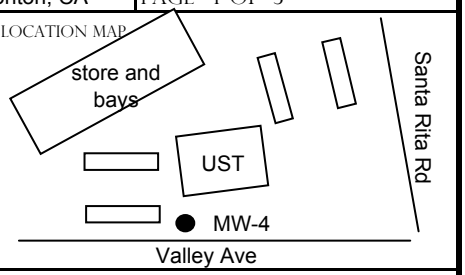
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4

LOCATION MAP



Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout					67		SP	Continued
					68			
		dry/		31	69			
		damp	0.1	48				
				50	70			
					71			
					72			
					73			
		dry/		21	74		SW	**Well Graded SAND**; medium brown,
		damp	0.1	34				90% fine to medium grained, very dense
				45	75			
Bentonite Chips					76			
					77			
					78			
				18	79		GP	**Poorly Graded GRAVEL;** medium brown,
		moist	0.1	29				90% gravel 1/8" to 1/4" diameter, 10% sand, trace clay,
				35	80			very dense
					81			
					82			
Sand					83			
		moist	0.1	15	84			
				37				
	▽	wet		46	85			
					86			
					87		SW	**Well Graded SAND with Gravel**; medium brown,
				23				
		wet		35	88			80% sand, 20% gravel,
				45				

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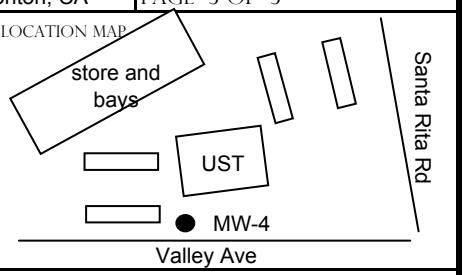
ENVIRONMENTAL MANAGEMENT INCORPORATED

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	5 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/10/2002		
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	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					21	89			SP	**Poorly Graded SAND**; medium brown, fine grained
			wet		35				GP	**Poorly Graded GRAVEL;** greyish to reddish brown,
					45					~1/4" diameter, trace 2" diameter, coarse grained sand
					24	90			SP	**Poorly Graded SAND**; medium brown, medium grained
					35				GP	**Poorly Graded GRAVEL**
					37	91				
					21					
Sand			wet		26	92				(gravel 1/8-1/4" diameter, occasionally up to 1/2")
					43					
					22	93				(olive, light brown, greyish to reddish,
					34					gravel fairly uniform 1/4" diameter)
					43	94			GC	**Clayey GRAVEL**; olive, light brown, greyish to reddish,
			wet		35					30% clay, gravel size coarsening with depth
					44	95				
						96				**BOTTOM OF BORING @ 95.5 ft**
						97				
						98				
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

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

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.

D. Arnold

Debbie Arnold
Project Geologist

R Lee Dooley

R. Lee Dooley, CHG 183
Senior Hydrogeologist

REGISTERED GEOLOGIST
R. LEE DOOLEY
No. 0183
CERTIFIED
HYDROGEOLOGIST
EXP 04/05
STATE OF CALIFORNIA

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

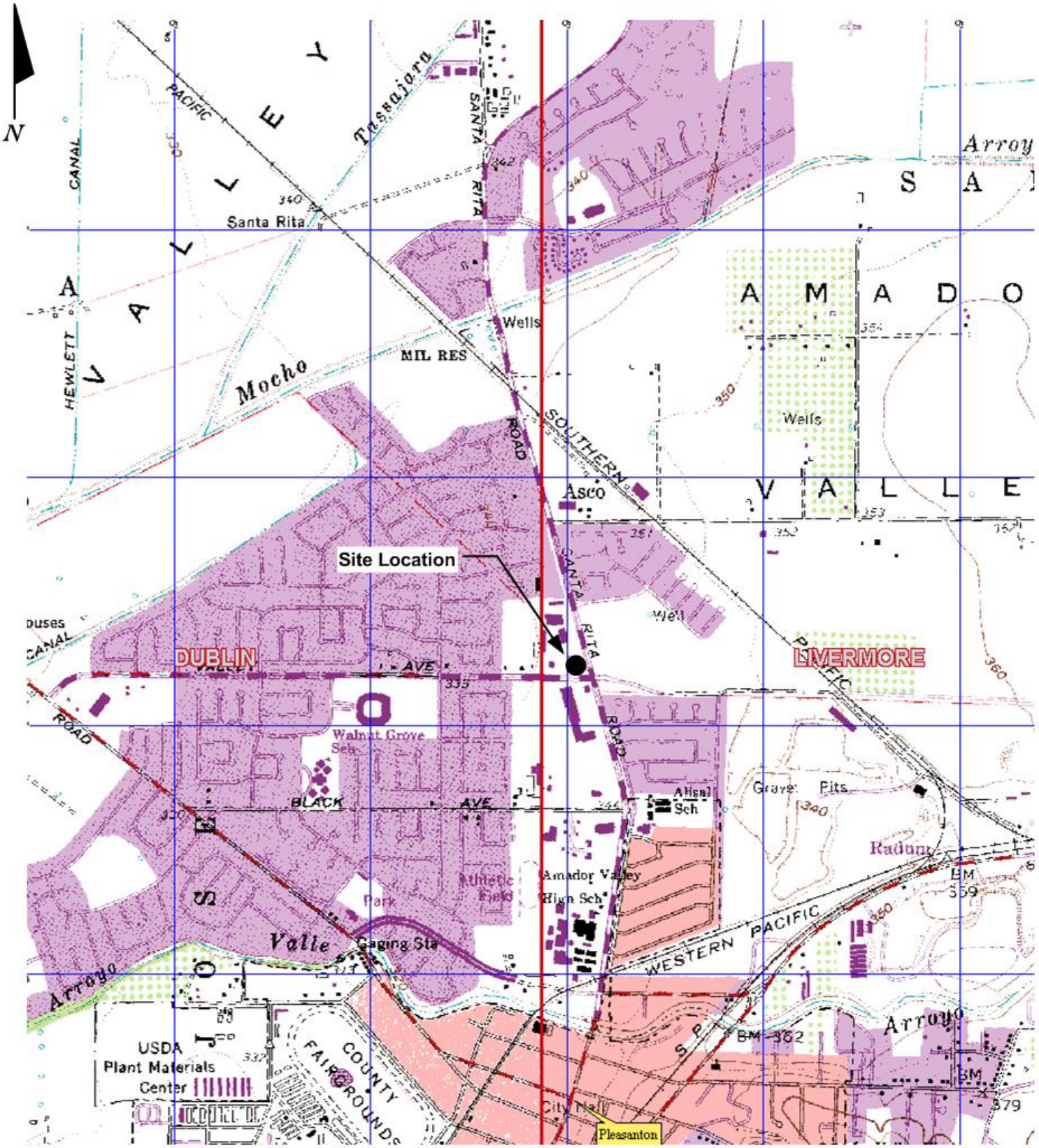
Sample I.D.	Sample Collection Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
MW-1 28.5'	10/15/02	**420**	<0.05	**1.5**	**5.1**	**37**	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1 30'	10/15/02	**3.2**	**0.023**	**0.13**	**0.094**	**0.59**	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1 35'	10/16/02	<1.0	<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
[1]TOC elevation and groundwater elevation relative to Mean Sea Level



0 1,800 3,600

Scale, Feet

KHM

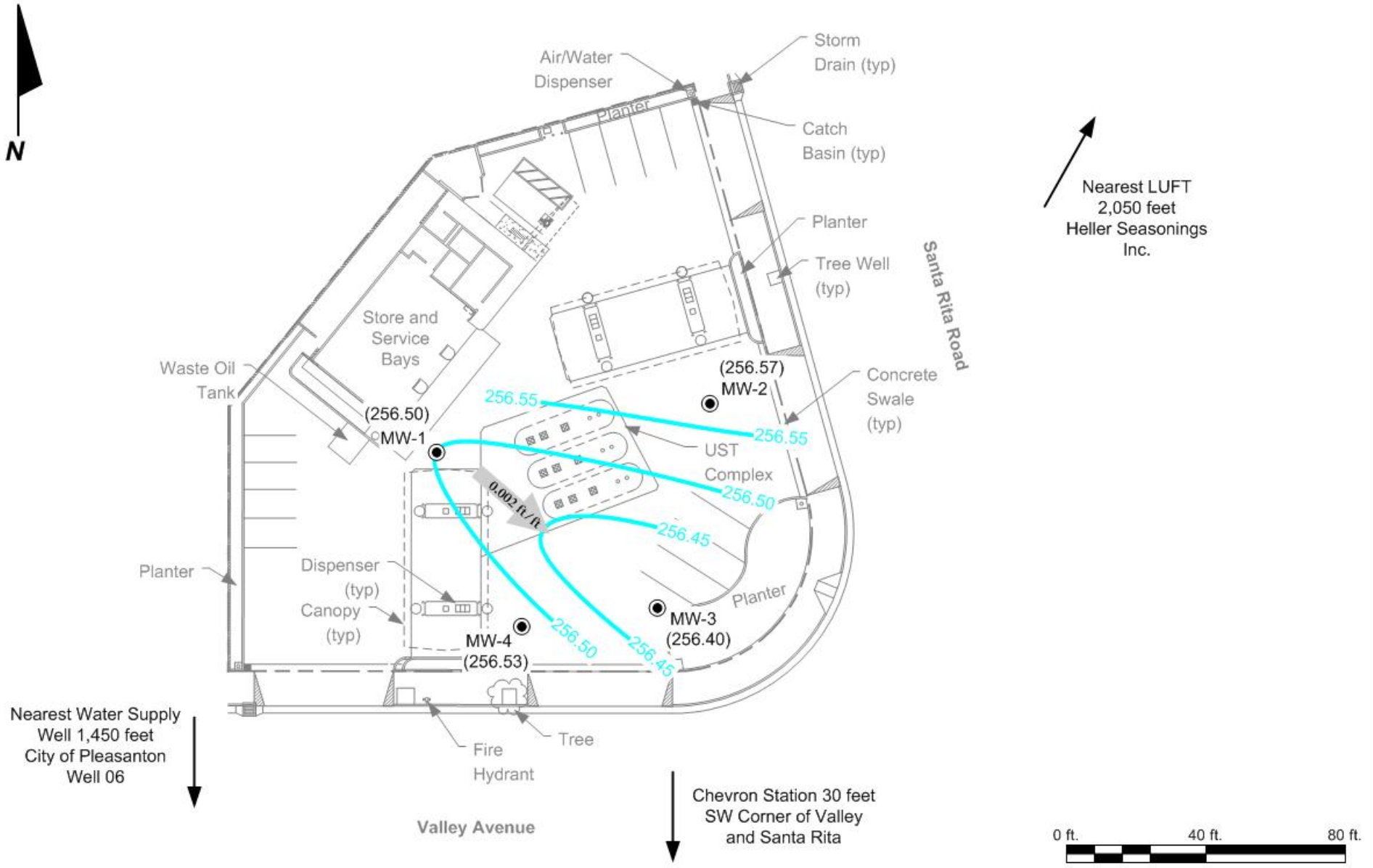
ENVIRONMENTAL MANAGEMENT, INC.

SITE LOCATION MAP

Shell Service Station
1801 Santa Rita Road
Pleasanton, California

DATE	PROJECT	FIGURE
11/25/02	C81-1801 Santa Rita	1

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



LEGEND

MW-3 ◉ **GROUNDWATER MONITORING WELL**

(256.53) **GROUNDWATER ELEVATION (FEET - MSL), 12/20/02**

256.50 **GROUNDWATER ELEVATION CONTOUR**

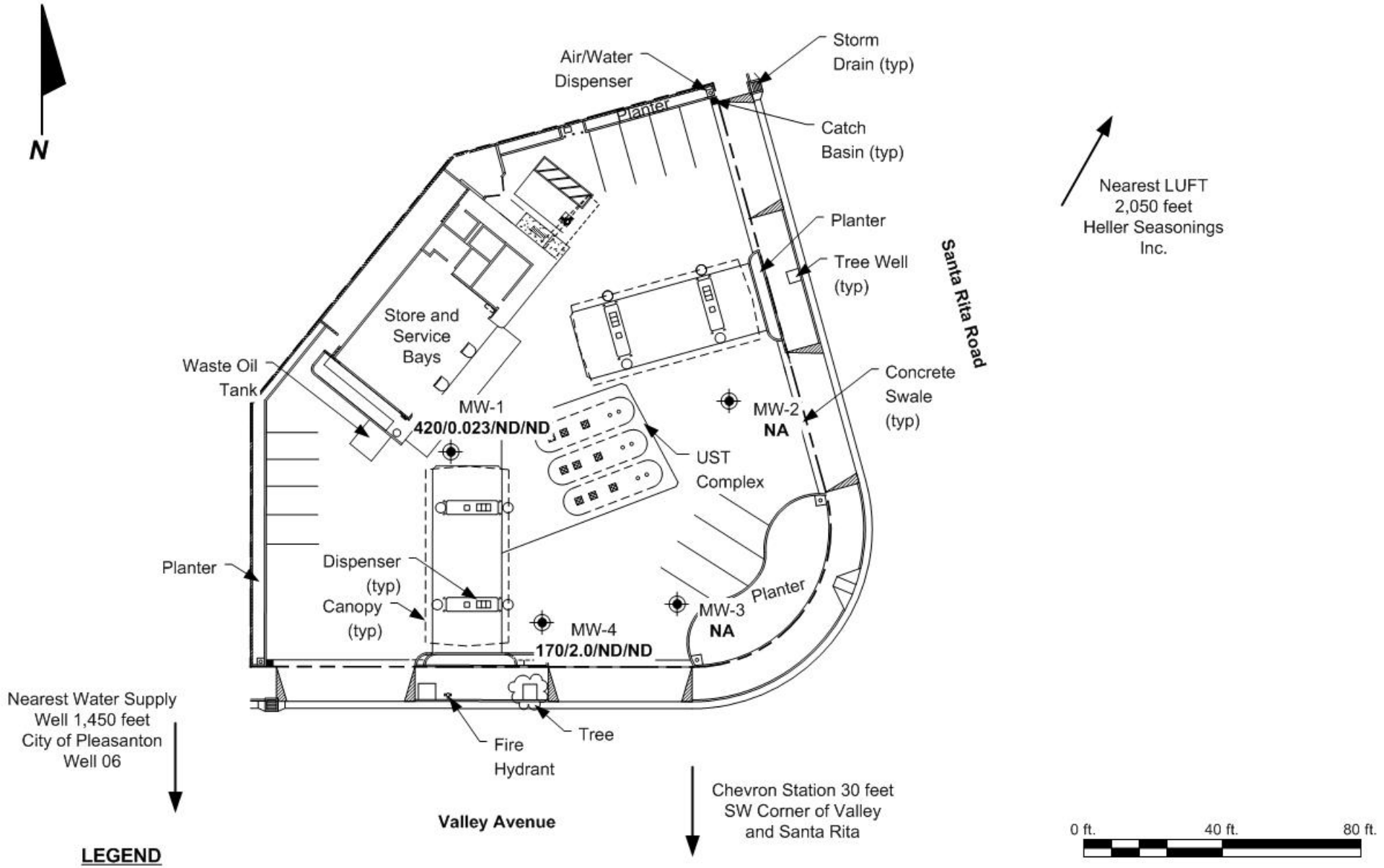
0.002 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

KHM
ENVIRONMENTAL MANAGEMENT, INC.

GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 20, 2002

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

DATE	PROJECT	FIGURE
02/10/03	C81-1801 Santa Rita	2



LEGEND

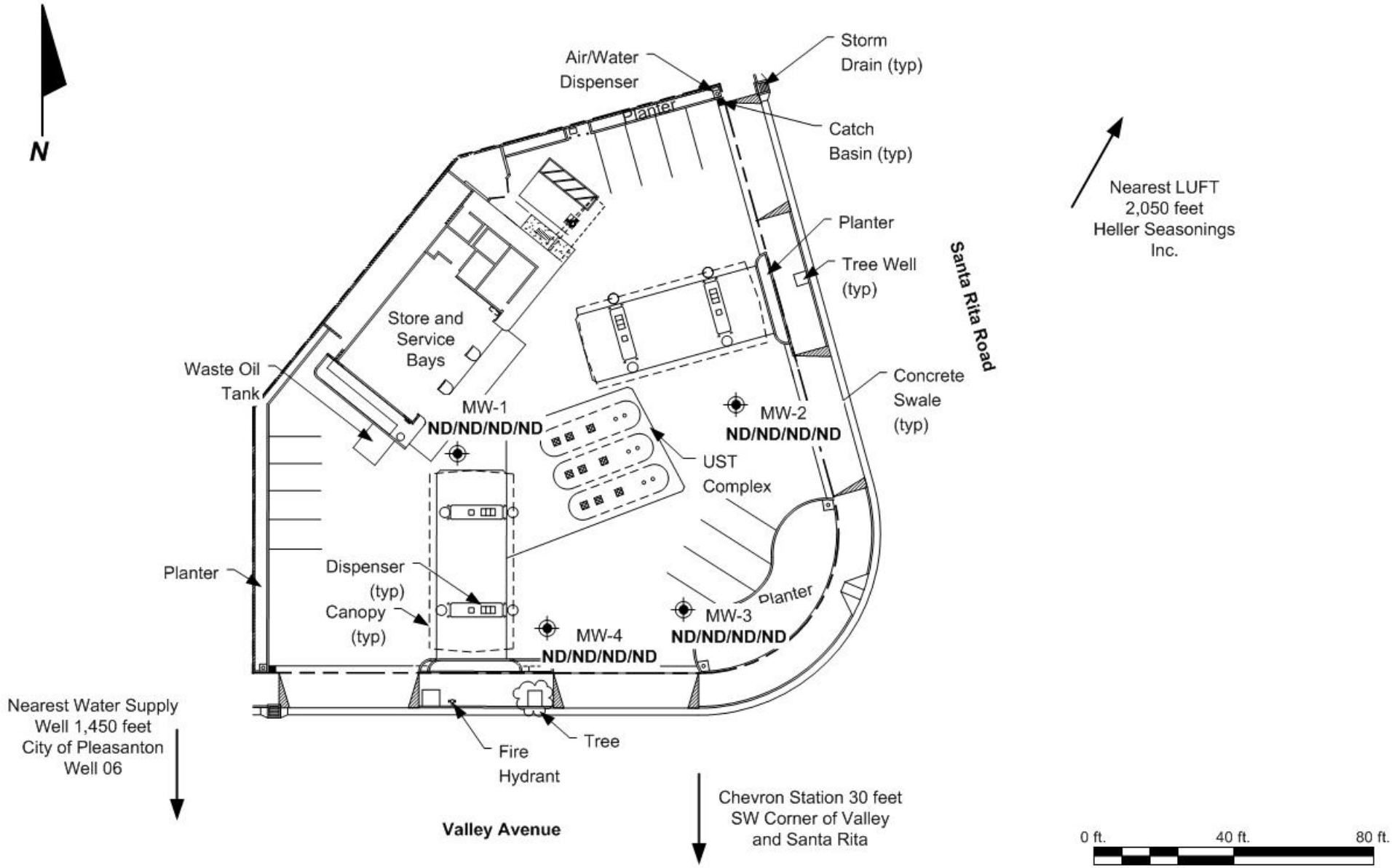
MW-1 ⊕	GROUNDWATER MONITORING WELL
ND/ND/1.9/0.5	MAXIMUM CONCENTRATIONS OF TPH-G/BENZENE/MTBE/TBA IN SOIL SAMPLED ON DECEMBER 10, 15 & 16, 2002 (mg/kg)
ND	NOT DETECTED AT LABORATORY LIMITS
NA	NO SOIL SAMPLE ANALYZED

KHM
ENVIRONMENTAL MANAGEMENT, INC.

MAXIMUM HYDROCARBON CONCENTRATION DISTRIBUTION IN SOIL MAP

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

DATE	PROJECT	FIGURE
02/06/03	C81-1801 Santa Rita	3



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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ENVIRONMENTAL MANAGEMENT, INC.

HYDROCARBON DISTRBUTION IN GROUNDWATER MAP

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

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

APPENDIX A

WELL PERMIT

ZONE 7 WATER AGENCY

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1801 Santa Rita Rd., Pleasanton, CA

California Coordinates Source _____ Accuracy: _____ ft.
CCN _____ ft. CCE _____ ft.
APN 946-3295-3-6

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

APPLICANT
Name KHM Environmental Management Inc.
Fax 408-224-4518
Address 6359 Santa Teresa Ave, E Phone 408-224-4724
City San Jose Zip 95119

TYPE OF PROJECT:

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

PROPOSED WELL USE:

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

DRILLING METHOD:

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

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

WELL SPECIFICATIONS:
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 50 ft
Surface Seal Depth 35 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 10/14/02

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

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 22138
WELL NUMBER 3S/1E 16D25 to 16D29
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

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

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

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

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

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

F. WELL DESTRUCTION. See attached.

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

Approved Wyman Hong Date 10/1/02
Wyman Hong

P:\WRE\WYMAN\drilling permit.wpd

Revised: March 26, 2002

APPENDIX B

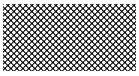
BORING LOGS

Boring Log Symbol Key

First Encounter of Groundwater

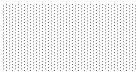
Stabilized Depth to Groundwater

Asphalt

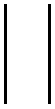


Cement Grout

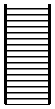
Bentonite



Sand



Blank Casing

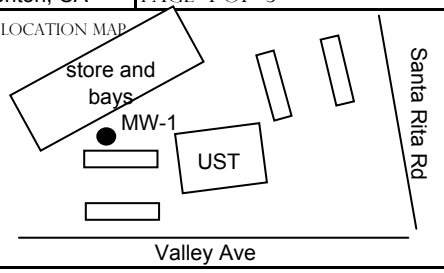


Screened Casing

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-1
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	1 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/15/2002		
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		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



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

Cement Grout

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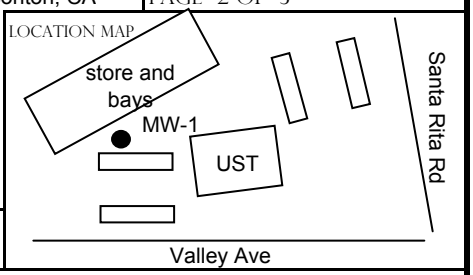
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-1
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	2 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/15/2002		
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		
ELEVATION		NORTHING		EASTING	

LOCATION MAP

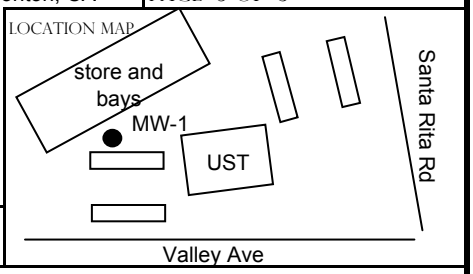


Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout					23			
				4	24		CL	continued
		damp	6.2	7				
				9	25			
					26			
					27			
					28			
		damp	1523	4	29		SP	**Poorly Graded SAND**; brown, fine-grained
				7			CL	**Lean CLAY**;medium brown, stiff
		damp	31.4	7	30			
					31			
					32			
					33			
				4	34			(trace olive mottling)
		damp	11.1	5				
				6	35			
					36			
					37			
					38			
				3	39			
		damp	4.5	5				
				7	40			
					41			
					42			
					43			
		damp	5.9	3	44			
				5				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-1
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	3 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/15/2002		
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		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



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

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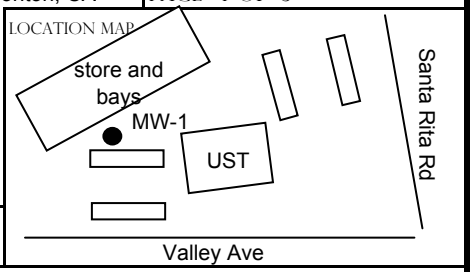
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/2002
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
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill: Cement Grout; Casing					67		SW-SC	continued
					68			
				24	69			
		moist	1.9	36				(5% gravel 1/4-1/2")
				39	70			
					71			
					72			
Backfill: Bentonite Chips; Casing					73			
		moist	3.0	22	74			(10% gravel)
				50/5				
Sand					75			
					76			
					77			
					78			
				28	79		SW	**Well Graded SAND**; 60% coarse grained sand, 10% gravel
		moist	2.3	22				1/4" diameter, trace of clay, dense
				24	80			
					81			
					82			
					83			
				12	84			
		moist	2.1	18				
				26	85			
	▽	wet			86			
					87			
					88			

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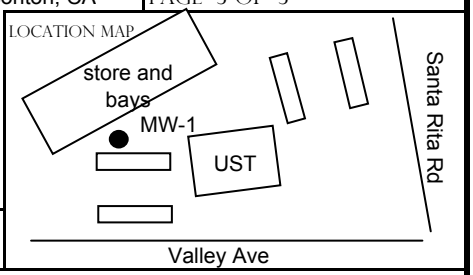
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	92.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	92'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

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

LOCATION MAP

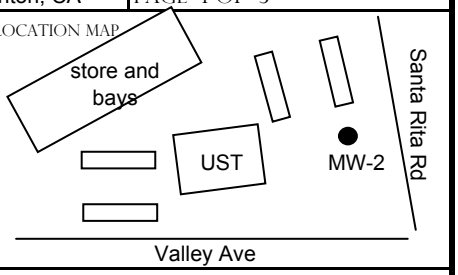


Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand			wet		6 10 13	89			GP	**Poorly Graded GRAVEL with Sand**; medium to grey brown, 1/4" diameter gravel
			damp		9 14 19	90			CL	**Lean CLAY**; medium brown, FeO_3 mottling, hard
						91				
						92				
						93				**BOTTOM OF BORING @ 92.5 ft**
						94				
						95				
						96				
						97				
						98				
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

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	1 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/2002		
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	

LOCATION MAP



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

Air Knifed

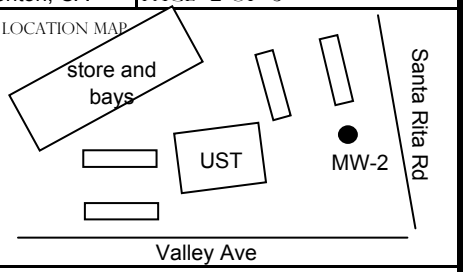
Cement Grout

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:	10/14/2002
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

BORING/WELL NO: MW-2

LOCATION MAP

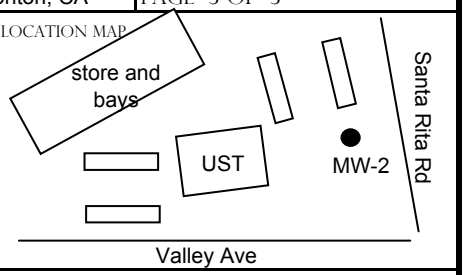


Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout					23			
				3	24		CL	Continued
		damp	2.2	4				
				5	25			
					26			
					27			
					28			
				2	29			
		moist	4.3	4			SC	(4" layer of clayey sand)
				6	30		CL	**Lean CLAY**; as above
					31			
					32			
					33			
				3	34			
		damp	2.5	3				
				6	35			
					36			
					37			
					38			
				3	39			(medium brown)
		moist	2.1	5				
				6	40			
					41			
					42			
					43			
		damp	1.2	5	44			
				7				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

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:	10/14/2002		
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	

LOCATION MAP



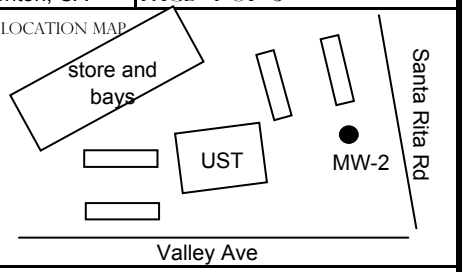
Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout				10	45			CL	Continued
					46				
					47				
					48				
				5	49				(olive and orange brown, very stiff)
		damp	1.6	6					
				11	50				
					51				
					52				
					53				
				14	54			SC	**Clayey SAND**; brown, 75% fine sand, 25% clay
		damp	1.9	27					trace gravel (1/4" diameter), very dense
				46	55				
					56				
					57				
					58				
				18	59			GP	**Poorly Graded GRAVEL with Sand**; grey, 65%
		damp	1.3	27					gravel (1/4" diameter), 35% fine grained sand, very dense
				34	60				
					61				
					62				
					63				
				13	64			SW	**Well Graded SAND with Gravel**; grey, dense
		damp	2.2	16					
				22	65				
					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:	10/14/2002
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

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

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout						67			SW	Continued
						68				
					15	69				
			damp	2.6	21					
					37	70				
						71				
						72				
						73				
Bentonite Chips					20	74				
			damp	0.9	50					(trace FeO mottling)
					29	75				
						76				
						77				
						78				
Sand					18	79				(grades coarser, medium to coarse grained,
			moist	0.8	30					40% gravel up to 1" diameter, trace clay)
					33	80				
						81				
						82				
						83				
					18	84				
			moist/	0.6	31					(40% 1/4" diameter gravel)
		▽	wet		34	85				
					22					
					31	86				(decrease in gravel content to 25%)
					34					
					45	87			SP	**Poorly Graded SAND**; medium brown, fine grained
					50/3				SP	**Poorly Graded SAND with Gravel,**
						88				fine grained sand lens
					12					

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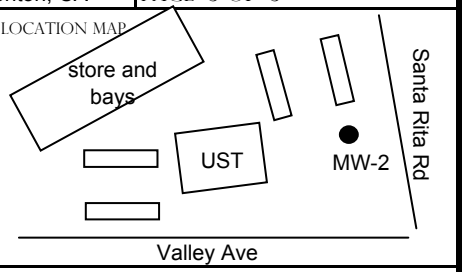
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-2
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	5 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/2002		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	93'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand				13	89			SP	continued, (coarse grained)
		wet		15				CL	**Lean CLAY**; medium brown
				9	90				(occasional FeO_3 and greyish white mottling)
				11					
				16	91				
		wet		10					
				14	92				
				19					(olive green)
					93				
					94				**BOTTOM OF BORING @ 93.5 ft**
					95				
					96				
					97				
					98				
					99				
					100				
					101				
					102				
					103				
					104				
					105				
					106				
					107				
					108				
					109				
					110				

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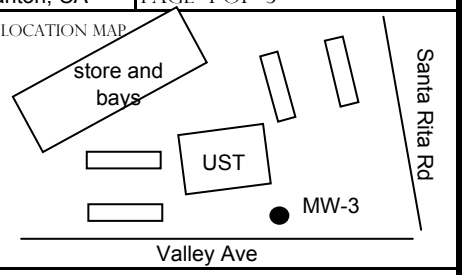
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
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

BORING/WELL NO: MW-3
PAGE 1 OF 5

LOCATION MAP



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

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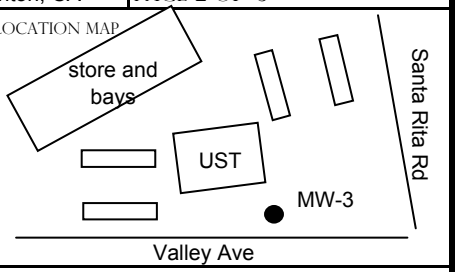
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3

LOCATION MAP



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

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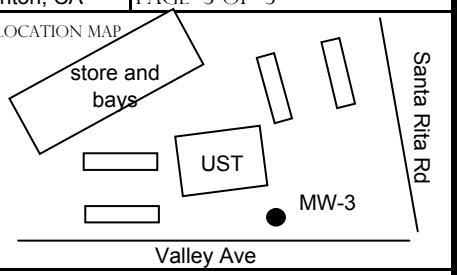
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing				7	45		CL	Continued
					46			
					47			
					48			
				6	49			(olive brown)
		damp	1.7	11				
				15	50			
					51			
					52			
					53			
				21	54		SP	**Poorly Graded SAND with Gravel**; 60% grey to orange
		damp	1.6	36				brown medium grained sand, 40% light to dark grey gravel
				45	55			1/4" to 1/2" diameter
					56			
					57			
					58			
				28	59		GP	**Poorly Graded GRAVEL with Sand**; 60% gravel, 40%
		damp	1.0	38				coarse sand, very dense
				45	60			
					61			
					62			
					63			
				22	64		SW	**Well Graded SAND**; grey brown,
		damp	3.0	29				orange and olive brown, 10% gravel
				38	65			
					66			

Cement Grout

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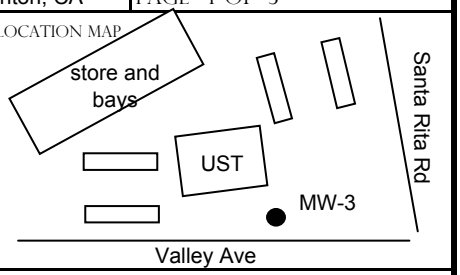
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill: Cement Grout; Casing					67		SW	continued
					68			
				20	69			
		damp	1.3	42				
				50/5	70			(trace clay @ 70')
					71			
					72			
					73			
		dry/		35	74		SP	**Poorly Graded SAND with Gravel**; orange to grey brown
		damp	1.0	41				fine grained sand, 15% gravel 1/4" diameter
				49	75			
					76			
					77			
Bentonite Chips					78			
				29	79		SP/	**Poorly Graded SAND and GRAVEL**; light grey to dark
		moist	1.3	34			GP	grey, and medium brown, 50% medium grained sand,
				42	80			50% gravel ~1/4" diameter
					81			
					82			
					83			
Sand				25	84		GW	**Well Graded GRAVEL**; grey to grey brown,
		moist	0.8	28				10% coarse sand, poorly sorted, gravel 1/8 - 1/2" diameter
				32	85			
					86			
	▽	wet			87			
					88			

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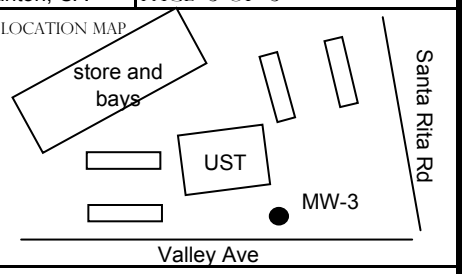
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-3
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA	PAGE	5 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/11/2002		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	97'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand					5	89				
					8				GW	continued
					12	90				
					6					
					6	91				
					10					
					6	92			GC	**Clayey GRAVEL**; medium brown, 60% gravel 1/4"
			wet		7					diameter, fairly angular, 40% clay
					9	93				
					6					
					9	94				
					13					
					8	95				
			damp/		12				ML	**SILT**; orange brown, olive staining, hard
			wet		17	96				
					24					
					28	97				
					33					
						98				**BOTTOM OF BORING @ 97.5 ft**
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

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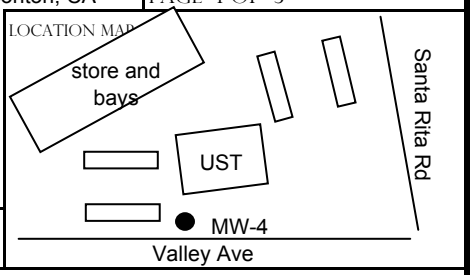
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
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

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

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
									AF	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
						2				
			damp/ moist			3			CL	**Lean CLAY**; dark grey, <5% sand, low plasticity
					Air Knifed	4				
						5				
						6				
						7				
						8				(medium brown)
					2	9				
			damp	0.3	3				ML	**SILT**; olive green, medium stiff
					4	10				
						11				
						12				
						13				
					2	14				
			damp	5.3	4					
					6	15			CL	**Lean CLAY**; olive green, distinctive zones of orange brown medium grained sand
						16				
						17				
						18				
					2	19				
			damp	1.2	4					
					5	20				(FeO mottling)
						21				
						22				

Cement Grout

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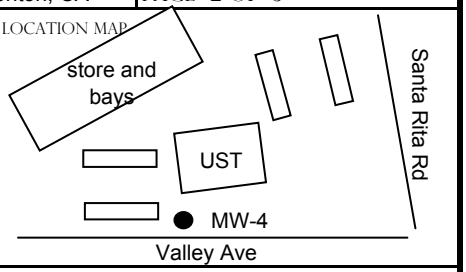
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement grout						23			CL	Continued
					3	24				(olive green, stiff)
			damp	27.6	4					
					7	25				
						26				
						27				
						28				(orange brown with occasional FeO mottling)
					3	29				
			damp	105	5					
					5	30				
						31				
						32				
						33				
					2	34				
			damp	73.5	4					
					6	35				
						36				
						37				
						38				
						39				
			damp	655						
						40				
						41				
						42				
						43				
						44				
				11.8	5					
					9					

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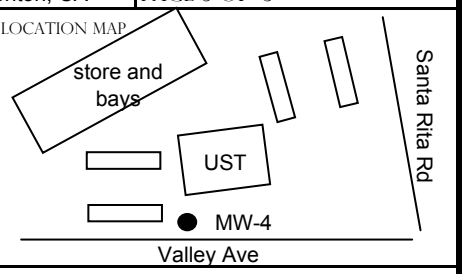
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
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

BORING/WELL NO: MW-4

LOCATION MAP



Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing								
Cement grout			11.8	11	45		CL	Continued
					46			
					47			
					48			
				4	49			(mottled, grey-green)
		damp	10.3	6				
				8	50			
					51			
					52			
					53			
				16	54			
		damp	1.8	19				
				25	55		SP	**Poorly Graded SAND with Gravel**; brown, 75% medium sand, 25% gravel up to 2" in diameter
					56			
					57			
					58			
		dry/		8	59			(10% gravel, poorly sorted sand, grey, trace of clay)
		damp	1.0	17				
				23	60			
					61			
					62			
					63			
		dry/	0.1	15	64			(70% sand, 30% gravel up to 1.5" diameter)
		damp		29				
				33	65			
					66			

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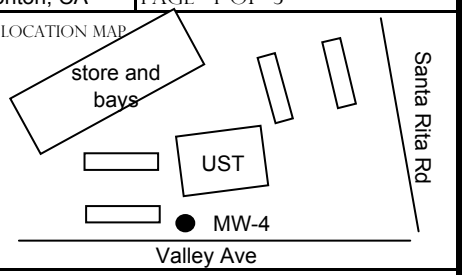
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/2002
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

BORING/WELL NO: MW-4

LOCATION MAP

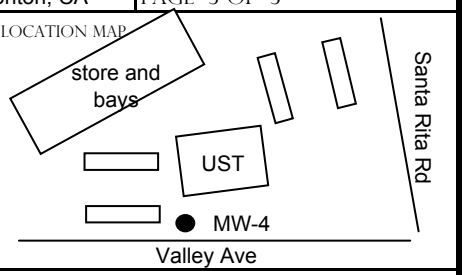


Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout					67		SP	Continued
					68			
		dry/		31	69			
		damp	0.1	48				
				50	70			
					71			
					72			
					73			
		dry/		21	74		SW	**Well Graded SAND**; medium brown,
		damp	0.1	34				90% fine to medium grained, very dense
				45	75			
Bentonite Chips					76			
					77			
					78			
				18	79		GP	**Poorly Graded GRAVEL;** medium brown,
		moist	0.1	29				90% gravel 1/8" to 1/4" diameter, 10% sand, trace clay,
				35	80			very dense
					81			
					82			
Sand					83			
		moist	0.1	15	84			
				37				
	▽	wet		46	85			
					86			
					87		SW	**Well Graded SAND with Gravel**; medium brown,
				23				
		wet		35	88			80% sand, 20% gravel,
				45				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

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	5 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/10/2002		
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	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					21	89			SP	**Poorly Graded SAND**; medium brown, fine grained
			wet		35				GP	**Poorly Graded GRAVEL;** greyish to reddish brown,
					45					~1/4" diameter, trace 2" diameter, coarse grained sand
					24	90			SP	**Poorly Graded SAND**; medium brown, medium grained
					35				GP	**Poorly Graded GRAVEL**
					37	91				
					21					
Sand			wet		26	92				(gravel 1/8-1/4" diameter, occasionally up to 1/2")
					43					
					22	93				(olive, light brown, greyish to reddish,
					34					gravel fairly uniform 1/4" diameter)
					43	94			GC	**Clayey GRAVEL**; olive, light brown, greyish to reddish,
			wet		35					30% clay, gravel size coarsening with depth
					44	95				
						96				**BOTTOM OF BORING @ 95.5 ft**
						97				
						98				
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

APPENDIX C

WELL DEVELOPMENT
FIELD DATA SHEETS

WELL DEVELOPMENT DATA SHEET

Project #: 021212 -MW1	Client: Shell
Developer: MW	Date Developed: 12/12/02
Well I.D. MW-1	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth:	Depth to Water:
Before 90.40 After 91.97	Before 85.83 After 89.94
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purge	

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

3.0	X	10	.	30.0
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:
1118	58.5	7.2	1384	>700	3.0	Brown, Silty (Fine Silt) Middleburg Pump @ ~.5 gpm
1124	61.0	7.0	1320	>700	6.0	Brown, Silty (Fine Silt) Thick
1130	62.2	7.1	1336	>700	9.0	Brown, Silty (Very Fine Silt) Thick Hard Bottom
1136	63.4	6.9	1455	>700	12.0	Brown Silty (Very Fine) Thinning out Slightly
1142	63.7	7.0	1447	>700	15.0	Brown, Silty (Very Fine)
1143	well	dewatered				DTW = 90.01
1345	restart	purge @	~.5 gpm	Middleburg	pump	DTW = 86.02
1351	63.1	7.0	1479	7700	18.0	Brown, Silty (Fine) Slightly Thick
1357	63.4	6.9	1404	7700	21.0	Light Brown, Less Silty, Thinning out
1403	63.3	6.9	1389	7700	24.0	Light Brown, Very Cloudy, Clearing
1409	63.1	6.9	1391	7700	27.0	Light Brown, Very Cloudy, Clearing
1414	63.3	6.9	1402	7700	30.0	Light Brown, Cloudy

Did Well Dewater? Yes	If yes, note above.	Gallons Actually Evacuated:	30.0

WELL DEVELOPMENT DATA SHEET

Project #: 021212-MW1	Client: Shell
Developer: MW	Date Developed: 12/12/02
Well I.D. MW-2	Well Diameter: (circle one) 2 3 (4) 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):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

4.2	X	10	=	42.0
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/Grey, Silty (Fine), Muddleburg @.5gpm, Thick
1214	64.5	7.1	16662	7700	8.4	Brown/Grey, Silty (Fine), Thick
1222	64.3	6.9	1498	7700	12.6	Brown/Grey, Slightly Less Silty, Thumping a.f.
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? NO If yes, note above. Gallons Actually Evacuated: 42.0

* Increase pump rate to ~1 gpm.

WELL DEVELOPMENT DATA SHEET

Project #: 021212 - MW1	Client: Shell
Developer: MW	Date Developed: 12/12/02
Well I.D. MW-3	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth:	Depth to Water:
Before 97.00 After 97.07	Before 85.49 After 95.21
Reason not developed:	If Free Product, thickness: —
Additional Notations: Surged for 15 min prior to purge	

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

7.5	X	10	=	75.0
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:
857	61.0	6.4	1365	>200	7.5	Brown, Silty (Fine Sand) Middleburg Pump (@ 1 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, Slightly less Silty (Fine Sand)
933	61.6	6.8	1370	>200	37.5	Brown, Less Silty, Very Cloudy, Very Fine Sand, Hard Bottom *
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	187	67.5	Cloudy, Clearing
1054	61.5	6.8	1374	171	75.0	Cloudy.

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 75.0

* Well starting to dewater DTW = 94.74
reduced pump rate to ~.5 gpm.

WELL DEVELOPMENT DATA SHEET

Project #: 021212 -MW1	Client: Shell
Developer: MW	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):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.5	X	10	=	15.0
1 Case Volume		Specified Volumes		gallons

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

Type of Installed Pump _____
Other equipment used 4" Swab

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1319	62.1	7.1	1535	>200	1.5	Brown, Silty (Fine) Middleburg @ .5 gpm.
1322	64.0	6.9	1655	>200	3.0	Brown, Silty (Fine) DTW = 84.36
1324	64.2	6.9	1663	>200	4.5	Brown, Silty (Fine), Increased pump rate to 1 gpm
1326	64.8	6.9	1627	>200	6.0	Brown, Silty (Fine)
1327	64.9	6.8	1592	>200	7.5	Brown, Slightly Less Silty, Hard Bottom
1329	64.5	6.8	1562	>200	9.0	Brown, Less Silty, Clearing Slightly
1330	64.5	6.9	1536	>200	10.5	Light Brown, Very Fine Silt, Clearing Slightly
1332	64.5	6.8	1528	>200	12.0	Light Brown, Cloudy, Slightly Silty.
1333	64.5	6.8	1522	>200	13.5	Light Brown, Cloudy, Clearing
1335	64.5	6.8	1509	>200	15.0	Light Brown, Very Cloudy.

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

APPENDIX D

SITE SURVEY DATA

MCE

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

APPENDIX F

WELL GAUGING DATA

WELL GAUGING DATA

Project # 021220-551 Date 12/20/02 Client SHELL

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	↓	

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		

APPENDIX G

GROUNDWATER LABORATORY REPORT
AND
CHAIN-OF-CUSTODY DOCUMENTATION

APPENDIX H

UNAUTHORIZED RELEASE REPORT

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

EMERGENCY ☐ YES ☒ NO

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

REPORT DATE: 10/31/02 (M/D/Y)

CASE #:

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

SIGNED _____ DATE _____

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Ms. Karen Petryna

PHONE: (559) 645-9306

SIGNATURE:

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER

COMPANY OR AGENCY NAME: Shell Oil Products US

ADDRESS: P.O. Box 7869 (STREET) Burbank (CITY) CA (STATE) 91510-7869 (ZIP)

RESPONSIBLE PARTY

NAME: Shell Oil Products US ☐ UNKNOWN

CONTACT PERSON: Karen Petryna

PHONE: (559) 645-9306

ADDRESS: 2255 N. Ontario (STREET) Burbank (CITY) CA (STATE) 91504 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Shell Service Station

OPERATOR:

PHONE: ( )

ADDRESS: 1801 Santa Rita Road (STREET) Pleasanton (CITY) Alameda (COUNTY) ZIP

CROSS STREET: Valley Avenue

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: Livermore-Pleasanton Fire Dep't

CONTACT PERSON: Danielle Stefani

PHONE: (925) 454-2338

REGIONAL BOARD: San Francisco Bay RWQCB

CONTACT PERSON: Mr. Chuck Headlee

PHONE: (510) 622-2433

SUBSTANCES INVOLVED

(1) NAME: TPH-g, BTEX compounds

QUANTITY LOST (GALLONS): _____ ☐ UNKNOWN

(2) _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 10/25/02 (M/D/Y)

HOW DISCOVERED: ☐ INVENTORY CONTROL ☒ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☐ OTHER

DATE DISCHARGE BEGAN: ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☐ YES ☐ NO IF YES, DATE

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING
☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE
☐ REPLACE TANK ☐ OTHER

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER

CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER

CASE TYPE

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

CURRENT STATUS

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

REMEDIAL ACTION

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

HSC 05 (8/90)

PERMIT

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

EMERGENCY: ☐ YES ☒ NO — HAS STATE OF FIRE OR EMERGENCY SERVICES REPORT BEEN FILED ? ☐ YES ☒ NO

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

REPORT DATE: 10/31/02 — CASE #:

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

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

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

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

SUBSTANCES INVOLVED
(1) NAME: TPH-g, BTEX compounds — QUANTITY LOST (GALLONS): ☐ UNKNOWN
(2) NAME: — QUANTITY LOST (GALLONS): ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 10/25/02 — HOW DISCOVERED: ☐ TANK TEST ☐ INVENTORY CONTROL ☒ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK REMOVAL ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED ? ☐ YES ☐ NO IF YES, DATE:
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER

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

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

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

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

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

ARCO 05 (6/92)

KIFF ANALYTICAL LLC

Report Number : 29898
Date : 11/21/02

Janet Yantis
KHM Environmental Management
6284 San Ignacio Avenue, Suite E
San Jose, CA

Subject : 5 Soil Samples
Project Name : 1801 Santa Rita Road, Pleasanton, CA
Project Number : C85-1801 Santa Rita
P.O. Number : SAP# 135783

Dear Ms. Yantis,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 29898
Date : 11/21/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita**

Sample : **Composite A** Matrix : Soil Lab Number : 29898-01
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**4.7**	1.0	mg/Kg	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	93.1		% Recovery	EPA 8260B	11/21/02

Sample : **Composite B** Matrix : Soil Lab Number : 29898-02
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	11/21/02

Sample : **Composite C** Matrix : Soil Lab Number : 29898-03
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	87.2		% Recovery	EPA 8260B	11/20/02

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29898
Date : 11/21/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita**

Sample : **Composite D** Matrix : Soil Lab Number : 29898-04
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	11/21/02

Sample : **Composite A,B,C,D** Matrix : Soil Lab Number : 29898-05
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**0.0088**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	115		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	92.6		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

Report Number : 29898

Date : 11/21/02

QC Report : Method Blank Data

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

Project Number : **C85-1801 Santa Rita**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	87.8		%	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		%	EPA 8260B	11/20/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 29898

Date : 11/21/02

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

Project Number : **C85-1801 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	29898-01	<0.0050	0.100	0.100	0.0925	0.0946	mg/Kg	EPA 8260B	11/20/02	92.5	94.6	2.24	70-130	25
Toluene	29898-01	<0.0050	0.100	0.100	0.0962	0.0968	mg/Kg	EPA 8260B	11/20/02	96.2	96.8	0.648	70-130	25
Tert-Butanol	29898-01	0.044	0.500	0.500	0.539	0.510	mg/Kg	EPA 8260B	11/20/02	98.9	93.2	5.92	70-130	25
Methyl-t-Butyl Ether	29898-01	0.030	0.100	0.100	0.123	0.118	mg/Kg	EPA 8260B	11/20/02	93.5	88.7	5.30	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 29898

Date : 11/21/02

QC Report : Laboratory Control Sample (LCS)

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

Project Number : **C85-1801 Santa Rita**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0390	mg/Kg	EPA 8260B	11/20/02	95.1	70-130
Toluene	0.0390	mg/Kg	EPA 8260B	11/20/02	99.4	70-130
Tert-Butanol	0.195	mg/Kg	EPA 8260B	11/20/02	90.7	70-130
Methyl-t-Butyl Ether	0.0390	mg/Kg	EPA 8260B	11/20/02	88.7	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Calscience
Environmental
Laboratories, Inc.

November 21, 2002

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

Subject: **Calscience Work Order No.: 02-11-1250**
Client Reference: 1801 Santa Rita Road, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/21/2002 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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

Date Received: 11/21/02
Work Order No: 02-11-1250
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 1801 Santa Rita Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite A,B,C,D	**02-11-1250-1**	**11/19/02**	**Solid**	**11/21/02**	**11/21/02**	**021121L02**

Comment(s): Mercury was analyzed on 11/21/2002 3:29:30 PM with batch 021121L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	5.46	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	144	0.500	1		mg/kg	Nickel	76.1	0.2	1		mg/kg
Beryllium	0.282	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	47.5	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	11.7	0.2	1		mg/kg	Vanadium	24.6	0.2	1		mg/kg
Copper	32.1	0.5	1		mg/kg	Zinc	69.8	1.0	1		mg/kg
Lead	10.2	0.5	1		mg/kg						

Method Blank	099-04-007-1,734	N/A	Solid	11/21/02	11/21/02	021121L01

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.0835	1		mg/kg

Method Blank	097-01-002-3,812	N/A	Solid	11/21/02	11/21/02	021121L02

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel	ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver	ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium	ND	0.250	1		mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc	ND	1.00	1		mg/kg
Copper	ND	0.500	1		mg/kg	Lead	ND	0.500	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Project: 1801 Santa Rita Road, Pleasanton, CA

Date Received: 11/21/02
Work Order No: 02-11-1250
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,812	Solid	ICP 3300	11/21/02	021121-I 02	021121L02

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony	50.0	49.4	99	80-120	
Arsenic	50.0	50.0	100	80-120	
Barium	50.0	53.6	107	80-120	
Beryllium	50.0	50.5	101	80-120	
Cadmium	50.0	51.7	103	80-120	
Chromium (Total)	50.0	50.1	100	80-120	
Cobalt	50.0	55.4	111	80-120	
Copper	50.0	50.7	101	80-120	
Lead	50.0	50.9	102	80-120	
Molybdenum	50.0	53.3	107	80-120	
Nickel	50.0	51.9	104	80-120	
Selenium	50.0	47.1	94	80-120	
Silver	25.0	23.7	95	80-120	
Thallium	50.0	51.0	102	80-120	
Vanadium	50.0	48.1	96	80-120	
Zinc	50.0	53.5	107	80-120	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Project: 1801 Santa Rita Road, Pleasanton, CA

Date Received: 11/21/02
Work Order No: 02-11-1250
Preparation: Total Digestion
Method: EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-1,734	Solid	Mercury	11/21/02	021121-L01	021121L01

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.835	0.892	107	82-124	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-11-1250

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-11-1250

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff DATE: Kiff 11/21/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

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

Initial: [illegible]

CUSTODY SEAL INTACT:

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

Initial: [illegible]

SAMPLE CONDITION:

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

Initial: [illegible]

COMMENTS:

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

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

Lab No. 1250 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff	EDF Report? __ Yes __X_ No
Company/Address: Kiff Analytical, LLC	Recommended but not mandatory to complete this section:
Phone No.:	FAX No.:
Project Number: C85-1801 Santa Rita	P.O. No.: 29898
Project Name: 1801 Santa Rita Road, Pleasanton, CA	
Project Address:	

Sampling Company Log Code:
Global ID:
EDF Deliverable to (Email Address):
E-mail address: inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container:	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Preservative:	Matrix: WATER	Matrix: SOIL	Matrix:	Analysis Request: CAM 17 METALS = TTLC METALS	STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM	TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS		IF ANY TTLC TOTAL METAL IS> OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED			Date Due: November 21, 2002	For Lab Use Only
Composite A,B,C,D	11/19/02	11:10	1							X	X			X		X	X	X		X			X	

Relinquished by: Dave TS-Kiff Andy Tibbl	Date 112002	Time 1900	Received by:	Remarks: SAP# 135783
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 11/20/02	Time 0700	Received by Laboratory:	Bill to:

TOTAL P.07

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING
☑ TECHNICAL SERVICES Jim Martin
☐ CRMT HOUSTON

29898

INCIDENT NUMBER (S&E ONLY)

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

DATE: 11/19/02

PAGE: 1 of 1

SAMPLING COMPANY: KHM Environmental Mangement	LOG CODE: KHMS
ADDRESS: 6284 San Ignacio Ave., San Jose, CA 95119	
PROJECT CONTACT (Hardcopy or PDF Report to): Janet Yantis	
TELEPHONE: (408) 224-4724	FAX: (408) 224-4518
E-MAIL: jyantis@khm1.com	
SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton, CA	GLOBAL ID NO.:
EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer	PHONE NO.: (408) 224-4724
E-MAIL: vbrower@khm1.com	CONSULTANT PROJECT NO.: C85-1801 Santa Rita
SAMPLER NAME(S) (Print): Vera Fischer	LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

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

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

*See attached "Residual Management Procedure" for additional analyses, if necessary

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48–)	CAM 17 METALS	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	Composite A, B, C, D	11/198/02	11:10	soil	4	X	X			X												X				-01,02,03,04,05

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date: 11/19/02	Time
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time
	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 112002	Time 1112

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01
CANCELS ISSUE:
ISSUED BY: LRR

RESIDUAL STREAM: SOIL WITH UNLEADED GASOLINE
VENDOR: ALLIED-BFI
LOCATION: ALLIED WASTE - MANTECA
9999 SOUTH AUSTIN ROAD
MANTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

BTEX - EPA 8021B/8260B (IF BENZENE IS > OR = TO 10 MG/KG THEN TCLP BENZENE IS REQUIRED)

CAM METALS = TTLC METALS
STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM
TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS
IF ANY TTLC TOTAL METAL IS > OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED

TOTAL PETROLEUM HYDROCARBONS, METHOD 418.1 OR 8015

MTBE METHOD 8260B (GC/MS)

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TPH. AQUATIC BIOASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)
-ALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE
-ALL REQUIRED TESTS ON COMPOSITE
-LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS
-MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM

PROCEDURE ORIGINAL DATE: 08/01/01
PROCEDURE REVISED DATE: 08/01/01

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Janet Yantis
KHM Environmental Management
6284 San Ignacio Avenue, Suite E
San Jose, CA

Subject : 11 Soil Samples
Project Name : 1801 Santa Rita Road, Pleasanton, CA
Project Number : C85-1801 Santa Rita-
P.O. Number : SAP# 135783

Dear Ms. Yantis,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 29879

Date : 11/23/02

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

Project Number : **C85-1801 Santa Rita-**

Sample : **D-1 @3.0'** Matrix : Soil Lab Number : 29879-01

Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/20/02

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-2 @3.5'** Matrix : Soil Lab Number : 29879-02
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	85.1		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-3 @3.5'** Matrix : Soil Lab Number : 29879-03
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-4 @2.5'** Matrix : Soil Lab Number : 29879-04
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879

Date : 11/23/02

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

Project Number : **C85-1801 Santa Rita-**

Sample : **P-1 @3.5'** Matrix : Soil Lab Number : 29879-05

Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/20/02

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-2 @3.0'** Matrix : Soil Lab Number : 29879-06
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-3 @5.0'** Matrix : Soil Lab Number : 29879-07
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-4 @3.0'** Matrix : Soil Lab Number : 29879-08
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-5 @4.0'** Matrix : Soil Lab Number : 29879-09
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-6 @3.0'** Matrix : Soil Lab Number : 29879-10
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/21/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	11/21/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-7 @3'** Matrix : Soil Lab Number : 29879-11
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	111		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	88.8		% Recovery	EPA 8260B	11/20/02

Joel Kiff

Approved By: Joel Kiff

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

Report Number : 29879

Date : 11/23/02

QC Report : Method Blank Data

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

Project Number : **C85-1801 Santa Rita-**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/02
Toluene - d8 (Surr)	109		%	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	88.2		%	EPA 8260B	11/21/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 29879

Date : 11/23/02

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

Project Number : **C85-1801 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	29879-11	<0.0050	0.0382	0.0380	0.0318	0.0317	mg/Kg	EPA 8260B	11/21/02	83.3	83.5	0.240	70-130	25
Toluene	29879-11	<0.0050	0.0382	0.0380	0.0299	0.0284	mg/Kg	EPA 8260B	11/21/02	78.3	74.6	4.81	70-130	25
Tert-Butanol	29879-11	<0.0050	0.191	0.190	0.158	0.142	mg/Kg	EPA 8260B	11/21/02	82.5	74.8	9.82	70-130	25
Methyl-t-Butyl Ether	29879-11	<0.0050	0.0382	0.0380	0.0311	0.0320	mg/Kg	EPA 8260B	11/21/02	81.4	84.1	3.32	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Laboratory Control Sample (LCS)

Report Number : 29879

Date : 11/23/02

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

Project Number : **C85-1801 Santa Rita-**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0382	mg/Kg	EPA 8260B	11/21/02	97.2	70-130
Toluene	0.0382	mg/Kg	EPA 8260B	11/21/02	95.6	70-130
Tert-Butanol	0.191	mg/Kg	EPA 8260B	11/21/02	86.2	70-130
Methyl-t-Butyl Ether	0.0382	mg/Kg	EPA 8260B	11/21/02	87.2	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Calscience Environmental Laboratories, Inc.

November 25, 2002

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

Subject: **Calscience Work Order No.: 02-11-1253**
Client Reference: 1801 Santa Rita Road, Pleasanton

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/21/2002 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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

Date Received: 11/21/02
Work Order No: 02-11-1253
Preparation: Total Digestion
Method: EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-1@3.0'	02-11-1253-1	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	10.9	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-2@3.5'	02-11-1253-2	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	11.6	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-3@3.5'	02-11-1253-3	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	11.3	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-4@2.5'	02-11-1253-4	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	21.6	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-1@3.5'	02-11-1253-5	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	19.5	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2@3.0'	02-11-1253-6	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	8.33	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-3@5.0'	02-11-1253-7	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	8.73	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-4@3.0'	02-11-1253-8	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	12.5	0.5	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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

Date Received:	11/21/02
Work Order No:	02-11-1253
Preparation:	Total Digestion
Method:	EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-5@4.0'	02-11-1253-9	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	10.7	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-6@3.0'	02-11-1253-10	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	10.5	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-7@3'	02-11-1253-11	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	12.4	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-3,813	N/A	Solid	11/21/02	11/21/02	021121L05

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

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 11/21/02
Work Order No: 02-11-1253
Preparation: Total Digestion
Method: EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
02-11-1274-1	Solid	ICP 3300	11/21/02	11/22/02	021121S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	100	99	75-125	1	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Project: 1801 Santa Rita Road, Pleasanton

Date Received: 11/21/02
Work Order No: 02-11-1253
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,813	Solid	ICP 3300	11/21/02	021121-05	021121L05

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Lead	50.0	48.2	96	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-11-1253

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-[1][1]-[1][2][5][3]

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff DATE: 11/21/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

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

Initial: _____

CUSTODY SEAL INTACT:

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

Initial: _____

SAMPLE CONDITION:

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

Initial: _____

COMMENTS:

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

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

Lab No. 1253 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff
Company/Address: Kiff Analytical, LLC
Phone No.: FAX No.:
Project Number: C85-1801 Santa Rita-JM
P.O. No.: 29879
Project Name: 1801 Santa Rita Road, Pleasanton
Project Address:

EDF Report? X Yes __ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code: KHMS
Global ID: pending
EDF Deliverable to (Email Address): inbox@kiffanalytical.com
E-mail address: inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request: LEAD	Date Due: November 26, 2002	For Lab Use Only
D-1 @3.0'	11/15/02	1032	1						X			X	X	X	
D-2 @3.5'	11/15/02	1010	1						X			X	X	X	
D-3 @3.5'	11/15/02	953	1						X			X	X	X	
D-4 @2.5'	11/15/02	941	1						X			X	X	X	
P-1 @3.5'	11/15/02	920	1						X			X	X	X	
P-2 @3.0'	11/15/02	932	1						X			X	X	X	
P-3 @5.0'	11/15/02	942	1						X			X	X	X	
P-4 @3.0'	11/15/02	957	1						X			X	X	X	
P-5 @4.0'	11/15/02	1015	1						X			X	X	X	
P-6 @3.0'	11/15/02	1025	1						X			X	X	X	
P-7 @3'	11/15/02	1035	1						X			X	X	X	

	Date	Time		
Relinquished by: Kiff Analytical	112002	1900	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	SAP# 135763
Relinquished by:	11/20/02	0700	Received by Laboratory:	Bill to:

TOTAL P.08

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be Invoiced:

☐ SCIENCE & ENGINEERING
☑ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jim Martin

29879

INCIDENT NUMBER (S&E ONLY):

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

DATE: ~~BJ~~ 11/19/02

PAGE: 1 of 2

SAMPLING COMPANY: KHM Environmental Mangement

LOG CODE: KHMS

SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton, CA

GLOBAL ID NO.:

ADDRESS: 6284 San Ignacio Ave., San Jose, CA 95119

EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer

PHONE NO.: (408) 224-4724

E-MAIL: vbrower@khm1.com

CONSULTANT PROJECT NO.: C85-1801 Santa Rita JM

PROJECT CONTACT (Hardcopy or PDF Report to): Janet Yantis

TELEPHONE: (408) 224-4724

FAX: (408) 224-4518

E-MAIL: jyantis@khm1.com

SAMPLER NAME(S) (Print): Garrett Haertel

LAB USE ONLY

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

JY

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

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

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48-)	Lead	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	D-1 @ 3.0'	11/15/02	1032	S	1	X	X			X												X				-01
	D-2 @ 3.5'		1010																							-02
	D-3 @ 3.5'		953																							-03
	D-4 @ 2.5'		941																							-04
	P-1 @ 3.5'		920																							-05
	P-2 @ 3.0'		932																							-06
	P-3 @ 5.0'		942																							-07
	P-4 @ 3.0'		957																							-08
	P-5 @ 4.0'		1015																							-09
	P-6 @ 3.0'	↓	1025	↓	↓	↓	↓			↓												↓				-10

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 11/19/02	Time: 1124

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING
☑ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jim Martin

29879

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/19/02

PAGE: 1 of 2

SAMPLING COMPANY: **KHM Environmental Mangement**

LOG CODE: **KHMS**

SITE ADDRESS (Street and City): **1801 Santa Rita Road, Pleasanton, CA**

GLOBAL ID NO.:

ADDRESS: **6284 San Ignacio Ave., San Jose, CA 95119**

EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer

PHONE NO.: (408) 224-4724

E-MAIL: vbrower@khm1.com

CONSULTANT PROJECT NO.: C85-1801 Santa Rita - JM

PROJECT CONTACT (Hardcopy or PDF Report to): **Janet Yantis**

TELEPHONE: **(408) 224-4724**

FAX: **(408) 224-4518**

E-MAIL: **jyantis@khm1.com**

SAMPLER NAME(S) (Print): Garrett Haertel

LAB USE ONLY

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

JK

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	Lead	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note
	P-7@ 3'	11/15/02	1035	S	1	X	X			X												X			

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

TEMPERATURE ON RECEIPT C°: -11

Relinquished by: (Signature)	Received by: (Signature)	Date: / Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: / Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 11/19/02 Time: 1124

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

Shell Oil Products US

December 6, 2005

Re: **Former Shell-branded Service Station**
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US

Denis L. Brown
Project Manager

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.224.4518

December 8, 2005
Project Number: SJ18-01S-G.2005

Mr. Jerry Wickham
Environmental Health Services - Environmental Protection
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Semi-Annual Groundwater Monitoring Report – Fourth Quarter 2005
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following quarterly groundwater monitoring and sampling report for the above referenced site. A site location map is included as Figure 1.

BACKGROUND

Wells MW-1 through MW-4 were installed during October 2002 as part of Shell's GRoundwater ASsessment Program (GRASP). 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.

An Unauthorized Release Report (URR) was previously submitted for this site in November 2002 based on detections of Total Petroleum Hydrocarbons as gasoline (TPH-G) (maximum concentration = 170 milligrams per kilogram (mg/kg)) and benzene (maximum concentration = 2 mg/kg) in soil during site fuel dispenser and piping upgrades.

On April 19, 2005, a hydraulic hoist located within the station building service bay was removed and Delta collected a soil sample beneath the former hoist at a depth of 8.5 feet below grade (bg). A second URR was submitted for the site based on detections of petroleum based total oil and grease (7,900 mg/kg) and total petroleum hydrocarbons as diesel (TPH-D, 18,000 mg/kg) in May 2005.

Shell recently received a notice of responsibility letter dated August 17, 2005 from the Alameda County Health Care Services Agency (ACHCSA) placing the site in the Local Oversight Program.

GROUNDWATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services (Blaine), at the direction of Delta, on October 20, 2005. Depth to groundwater was measured in Wells MW-1 through MW-4. Groundwater elevation data and contours are presented on Figure 2.

Blaine purged each monitoring well (MW-1 through MW-4) prior to sampling for the first time since well installation in 2002. Groundwater samples were collected from Wells MW-1 through MW-4. Samples were submitted by Blaine to Severn Trent Laboratories (STL) in Pleasanton, California for analysis for TPH-G; TPH-D; TPH-D; benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); the fuel oxygenates methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA) using EPA Method 8260B. TPH-G, benzene, and MTBE concentrations in groundwater are presented on Figure 3.

Blaine's groundwater monitoring and sampling report, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the current monitoring event, is included as Attachment A.

Discussion

Depth to groundwater in site wells has increased by an average of 0.52 feet since the last groundwater monitoring event conducted in April 2005. Depth to groundwater has continually decreased since well installation in 2002 (with the exception of third quarter 2005), resulting in a total water table rise of approximately 30 feet at the site. Well screens in Wells MW-1 through MW-4 (77 to 97 feet bg) are now drowned. The horizontal groundwater gradient on October 20, 2005 was toward the west-northwest at a magnitude of less than 0.01 feet/feet (essentially flat), consistent with previous site data.

The purging of site wells prior to sampling resulted in a slight increase in petroleum hydrocarbon concentrations. TPH-D was detected in Wells MW-1, MW-2, and MW-3 at 330 micrograms per liter (ug/l), 75 ug/l, and 55 ug/l, respectively. After silica gel cleanup was performed on the groundwater samples, TPH-D was detected at a lower concentration in MW-1 (190 ug/l) and TPH-D was below the laboratory detection limits in Wells MW-2 and MW-3. TPH-D detections did not match the laboratory's standard chromatographic pattern for diesel. Benzene and xylenes were detected in MW-1 at 0.86 ug/l and 1.2 ug/l, respectively. MTBE was detected for the first time in Wells MW-1 (0.87 ug/l) and MW-2 (0.54 ug/l) at levels just above the laboratory detection limits. All analytes remained below the laboratory reporting limit in Well MW-4.

Recommendations

Delta is currently preparing a comprehensive site conceptual model (SCM) spreadsheet for submittal to the Alameda County Health Care Services Agency (ACHCSA). The SCM, in electronic report format,

will include recommendations for possible additional soil and groundwater investigation activities at the site in order to move towards case closure.

REMARKS

The information contained in this report represent Delta's professional opinions based upon the currently available information and is arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site, please contact Debbie Arnold (Delta) at (408) 224-4724, or Mr. Denis Brown (Shell Project Manager) at (707) 865-0251.

Sincerely,
Delta Environmental Consultants, Inc.

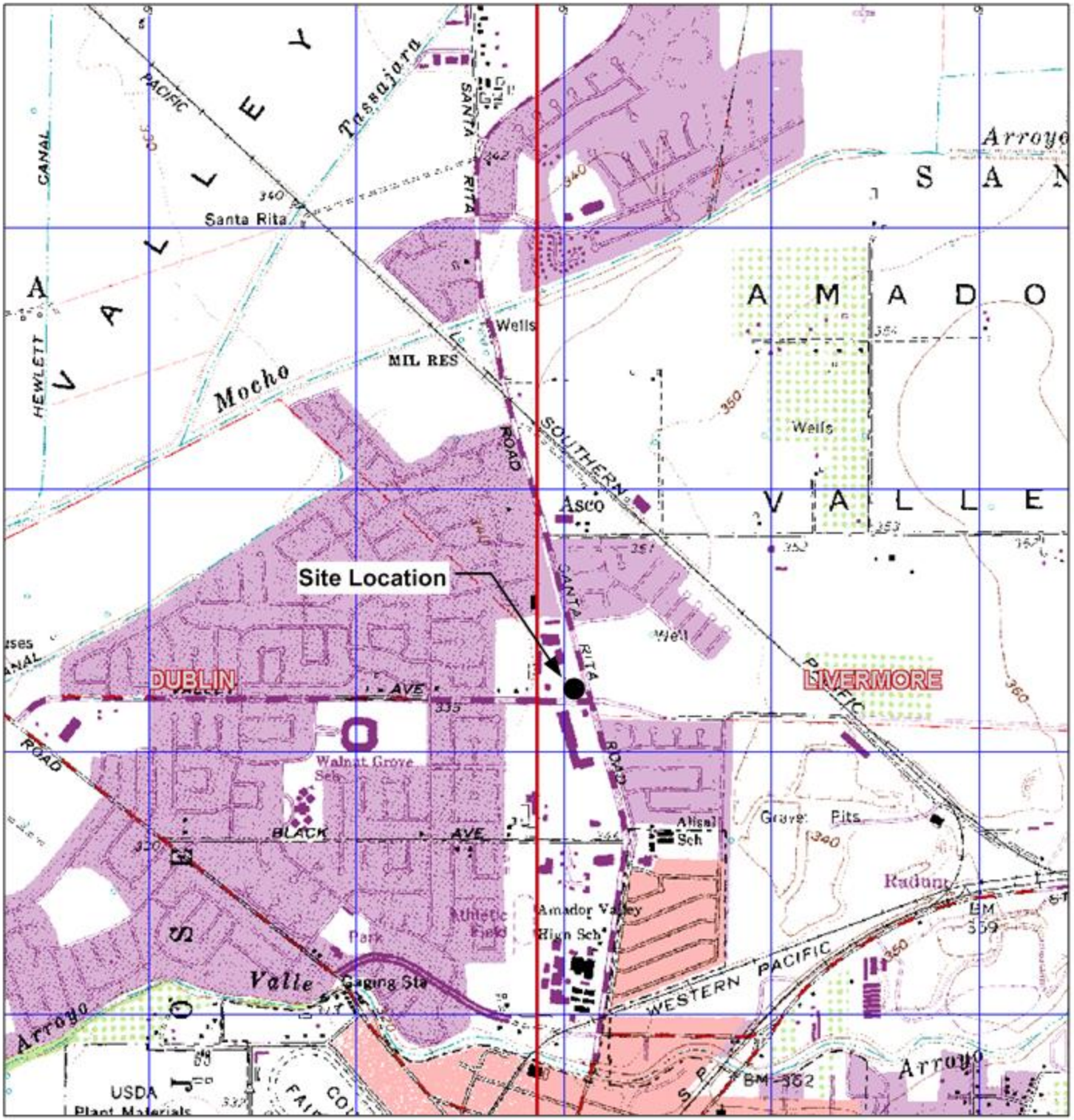
Heather Buckingham
Senior Staff Geologist

Debbie Arnold
Project Manager
PG 7745

Attachments: Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map, October 20, 2005
Figure 3 – TPH-G, Benzene, and MTBE Concentration Map, October 20, 2005

Attachment A – Groundwater Monitoring and Sampling Report, November 8, 2005

cc: Isabel Mejia, Shell Oil Products US, Carson
Denis Brown, Shell Oil Products US (by email)



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

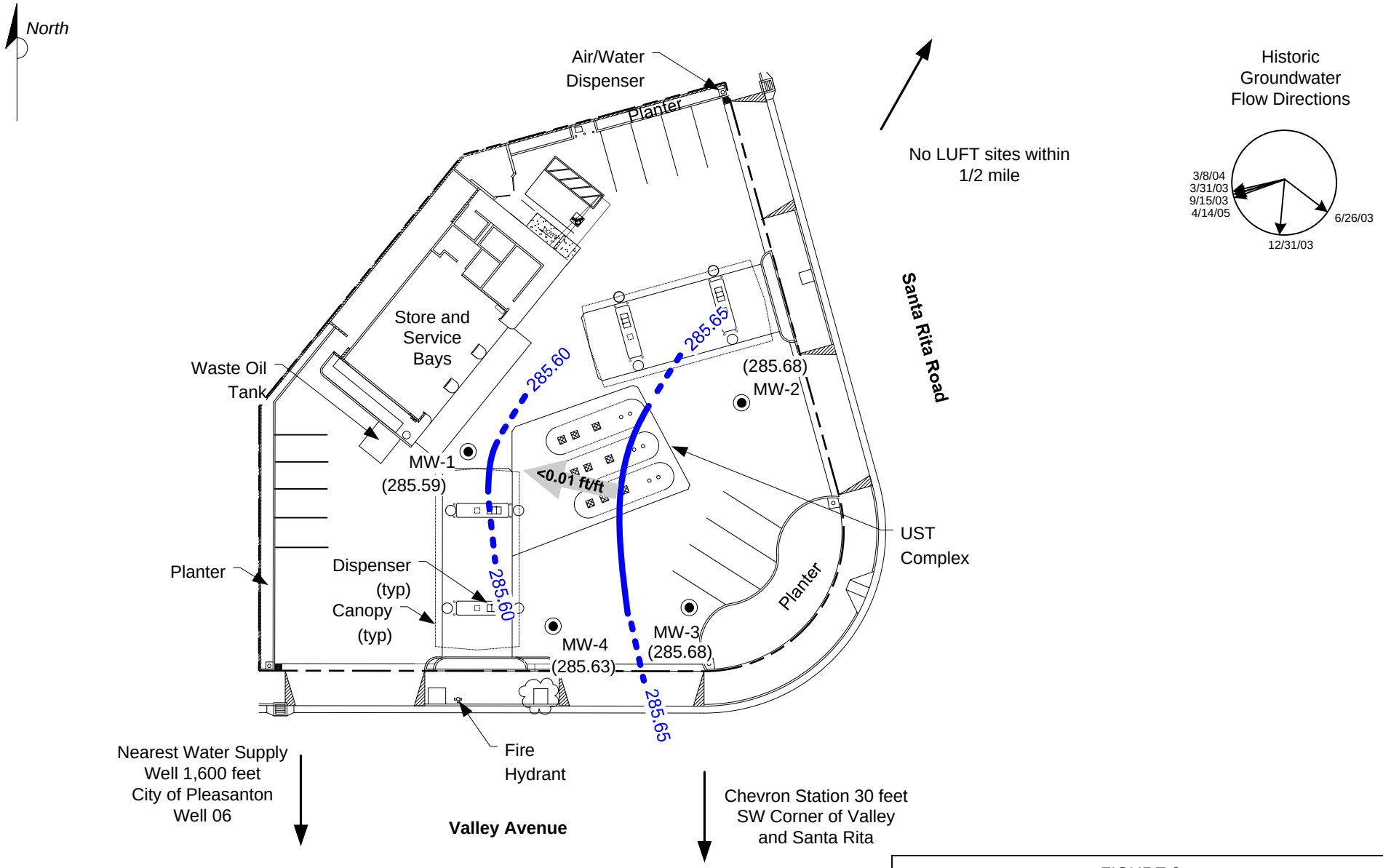
0 1,800 3,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2004	DRAWN BY VF 10/23/03
FILE NO. SJ18-01S-G.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.



LEGEND

MW-1 **GROUNDWATER MONITORING WELL**

(285.68) **GROUNDWATER ELEVATION (FEET-MSL), 10/20/05**

285.60 **GROUNDWATER ELEVATION CONTOUR**

<0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

0 40 FT

APPROX. SCALE

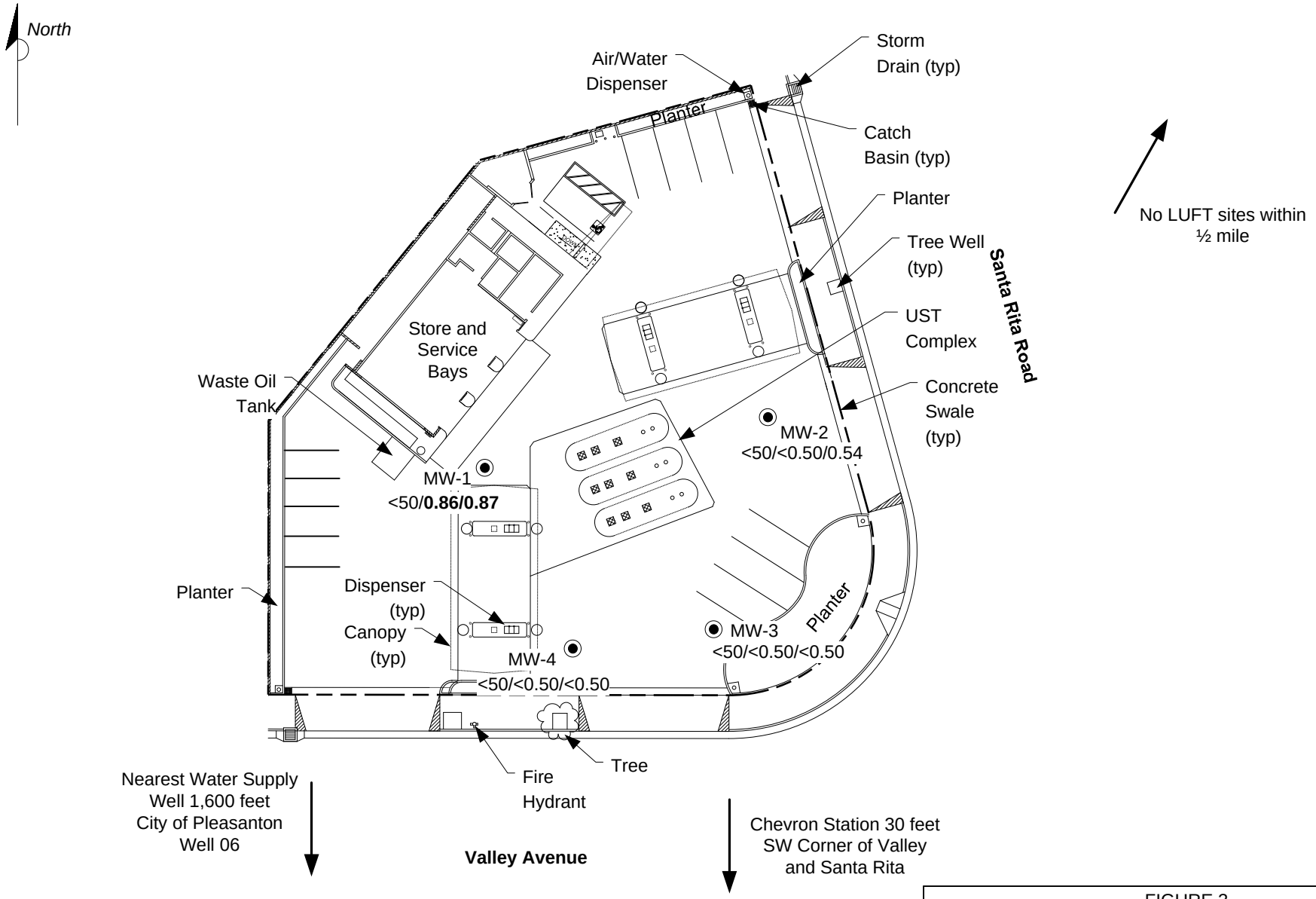
FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP,
OCTOBER 20, 2005

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

PROJECT NO. SJ18-01S-G.2005	DRAWN BY JL 11/30/05
FILE NO. SJ18-01S-G.2005	PREPARED BY HB
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

MW-1 ◉ **GROUNDWATER MONITORING WELL**

<50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATIONS (UG/L), 10/20/05**

0 40 FT

APPROX. SCALE

FIGURE 3
TPH-G, BENZENE, AND MTBE CONCENTRATIONS MAP
OCTOBER 20, 2005

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

PROJECT NO. SJ18-01S-G.000G	DRAWN BY JL12/05/05
FILE NO. SJ18-01S-G.000G	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

November 8, 2005

Denis Brown
Shell Oil Products US
20945 S. Wilmington Avenue
Carson, CA 90810

Third Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, CA

Monitoring performed on October 20, 2005

Groundwater Monitoring Report **051020-MN-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Coordinator

MN/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Debbie Arnold
Delta Environmental
175 Bernal Road, Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.83	NA
MW-1	12/20/2002	<50	<50	<0.50	<0.50	<0.50	0.71	<0.50	<2.0	<2.0	<2.0	<50	NA	85.60	NA
MW-1	03/31/2003	<50	75	<0.50	<0.50	<0.50	<1.0	<5.0	NA	NA	NA	NA	342.10	77.36	264.74
MW-1	06/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	72.48	269.62
MW-1	09/15/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	79.03	263.07
MW-1	12/31/2003	<50	<50	<0.50	0.99	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	70.57	271.53
MW-1	03/08/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	65.95	276.15
MW-1	06/16/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	66.50	275.60
MW-1	04/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	55.97	286.13
MW-1	**10/20/2005**	**<50**	**330 b/190 b**	**0.86**	**<0.50**	**<0.50**	**1.2**	**0.87**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**342.10**	**56.51**	**285.59**
MW-2	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.15	NA
MW-2	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	85.00	NA
MW-2	03/31/2003	<50	63	<0.50	0.71	<0.50	<1.0	<5.0	NA	NA	NA	NA	341.57	76.63	264.94
MW-2	06/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	71.94	269.63
MW-2	09/15/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	78.41	263.16
MW-2	12/31/2003	<50	120 a	<0.50	1.3	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	69.96	271.61
MW-2	03/08/2004	<50	110 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	65.34	276.23
MW-2	06/16/2004	<50	90 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	65.86	275.71
MW-2	04/14/2005	<50	77 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	55.35	286.22
MW-2	**10/20/2005**	**<50**	**75 a/<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.54**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**341.57**	**55.89**	**285.68**
MW-3	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.49	NA
MW-3	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	85.25	NA
MW-3	03/31/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	NA	NA	NA	NA	341.65	76.81	264.84
MW-3	06/26/2003	<50	80 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	72.05	269.60

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MW-3	09/15/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	78.52	263.13
MW-3	12/31/2003	<50	<50	<0.50	1.2	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	70.15	271.50
MW-3	03/08/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	65.46	276.19
MW-3	06/16/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	65.87	275.78
MW-3	04/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	55.50	286.15
MW-3	**10/20/2005**	**<50**	**55 a/<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**341.65**	**55.97**	**285.68**
MW-4	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84.36	NA
MW-4	12/20/2002	<50	69	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	84.15	NA
MW-4	03/31/2003	<50	70	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	340.68	75.90	264.78
MW-4	06/26/2003	<50	86 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	71.01	269.67
MW-4	09/15/2003	<50	120 a	1.0	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	77.57	263.11
MW-4	12/31/2003	<50	<50	<0.50	0.64	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	69.15	271.53
MW-4	03/08/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	64.51	276.17
MW-4	06/16/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	65.04	275.64
MW-4	04/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	54.53	286.15
MW-4	**10/20/2005**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**340.68**	**55.05**	**285.63**

WELL CONCENTRATIONS
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary Butanol or Tertiary butyl alcohol
n/n = TEPH/TEPH w/Silica Gel Clean-up
TOC = Top of Casing Elevation
GW = Groundwater
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable

Notes:
a = Hydrocarbon does not match pattern of laboratory's standard.
b = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.
Site surveyed January 14, 2003 by Mid Coast Engineers.

SEVERN TRENT STL

Submission#: 2005-10-0484

Blaine Tech Services, Inc.

November 03, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Michael Ninokata

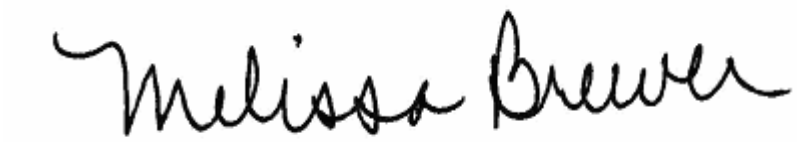
Project#: BTS#051020-MN1
Project: 97615964
Site: 1801 Santa Rita Rd., Pleasanton

Attached is our report for your samples received on 10/21/2005 14:39
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/05/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/20/2005 11:31	Water	1
MW-3	10/20/2005 12:12	Water	2
MW-2	10/20/2005 15:28	Water	3
MW-4	10/20/2005 14:42	Water	4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1**	Lab ID:	2005-10-0484 - 1
Sampled:	10/20/2005 11:31	Extracted:	10/28/2005 10:25
Matrix:	Water	QC Batch#:	2005/10/28-1A.64
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/28/2005 10:25	
Benzene	0.86	0.50	ug/L	1.00	10/28/2005 10:25	
Toluene	ND	0.50	ug/L	1.00	10/28/2005 10:25	
Ethylbenzene	ND	0.50	ug/L	1.00	10/28/2005 10:25	
Total xylenes	1.2	1.0	ug/L	1.00	10/28/2005 10:25	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/28/2005 10:25	
Methyl tert-butyl ether (MTBE)	0.87	0.50	ug/L	1.00	10/28/2005 10:25	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/28/2005 10:25	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/28/2005 10:25	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/28/2005 10:25	
Surrogate(s)						
1,2-Dichloroethane-d4	106.5	73-130	%	1.00	10/28/2005 10:25	
Toluene-d8	106.8	81-114	%	1.00	10/28/2005 10:25	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-3**	Lab ID:	2005-10-0484 - 2
Sampled:	10/20/2005 12:12	Extracted:	10/26/2005 23:08
Matrix:	Water	QC Batch#:	2005/10/26-2A.71
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/26/2005 23:08	
Benzene	ND	0.50	ug/L	1.00	10/26/2005 23:08	
Toluene	ND	0.50	ug/L	1.00	10/26/2005 23:08	
Ethylbenzene	ND	0.50	ug/L	1.00	10/26/2005 23:08	
Total xylenes	ND	1.0	ug/L	1.00	10/26/2005 23:08	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/26/2005 23:08	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/26/2005 23:08	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/26/2005 23:08	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/26/2005 23:08	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/26/2005 23:08	
Surrogate(s)						
1,2-Dichloroethane-d4	99.4	73-130	%	1.00	10/26/2005 23:08	
Toluene-d8	98.1	81-114	%	1.00	10/26/2005 23:08	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-2**	Lab ID:	2005-10-0484 - 3
Sampled:	10/20/2005 15:28	Extracted:	10/29/2005 11:20
Matrix:	Water	QC Batch#:	2005/10/29-1A.64
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/29/2005 11:20	
Benzene	ND	0.50	ug/L	1.00	10/29/2005 11:20	
Toluene	ND	0.50	ug/L	1.00	10/29/2005 11:20	
Ethylbenzene	ND	0.50	ug/L	1.00	10/29/2005 11:20	
Total xylenes	ND	1.0	ug/L	1.00	10/29/2005 11:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/29/2005 11:20	
Methyl tert-butyl ether (MTBE)	0.54	0.50	ug/L	1.00	10/29/2005 11:20	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/29/2005 11:20	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/29/2005 11:20	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/29/2005 11:20	
Surrogate(s)						
1,2-Dichloroethane-d4	96.4	73-130	%	1.00	10/29/2005 11:20	
Toluene-d8	107.0	81-114	%	1.00	10/29/2005 11:20	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: BTS#051020-MN1
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Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-4**	Lab ID:	2005-10-0484 - 4
Sampled:	10/20/2005 14:42	Extracted:	10/26/2005 23:35
Matrix:	Water	QC Batch#:	2005/10/26-2A.71
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/26/2005 23:35	
Benzene	ND	0.50	ug/L	1.00	10/26/2005 23:35	
Toluene	ND	0.50	ug/L	1.00	10/26/2005 23:35	
Ethylbenzene	ND	0.50	ug/L	1.00	10/26/2005 23:35	
Total xylenes	ND	1.0	ug/L	1.00	10/26/2005 23:35	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/26/2005 23:35	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/26/2005 23:35	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/26/2005 23:35	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/26/2005 23:35	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/26/2005 23:35	
Surrogate(s)						
1,2-Dichloroethane-d4	98.6	73-130	%	1.00	10/26/2005 23:35	
Toluene-d8	100.1	81-114	%	1.00	10/26/2005 23:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B | Test(s): 8260B

Method Blank | **Water** | **QC Batch # 2005/10/26-2A.71**

MB: 2005/10/26-2A.71-004 | Date Extracted: 10/26/2005 19:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/26/2005 19:24	
Benzene	ND	0.5	ug/L	10/26/2005 19:24	
Toluene	ND	0.5	ug/L	10/26/2005 19:24	
Ethylbenzene	ND	0.5	ug/L	10/26/2005 19:24	
Total xylenes	ND	1.0	ug/L	10/26/2005 19:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/26/2005 19:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/26/2005 19:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/26/2005 19:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/26/2005 19:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/26/2005 19:24	
Surrogates(s)					
1,2-Dichloroethane-d4	102.5	73-130	%	10/26/2005 19:24	
Toluene-d8	106.0	81-114	%	10/26/2005 19:24	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/10/28-1A.64**

MB: 2005/10/28-1A.64-028 — Date Extracted: 10/28/2005 08:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/28/2005 08:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/28/2005 08:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/28/2005 08:28	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/28/2005 08:28	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/28/2005 08:28	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/28/2005 08:28	
Benzene	ND	0.5	ug/L	10/28/2005 08:28	
Toluene	ND	0.5	ug/L	10/28/2005 08:28	
Ethylbenzene	ND	0.5	ug/L	10/28/2005 08:28	
Total xylenes	ND	1.0	ug/L	10/28/2005 08:28	
Surrogates(s)					
1,2-Dichloroethane-d4	100.4	73-130	%	10/28/2005 08:28	
Toluene-d8	105.8	81-114	%	10/28/2005 08:28	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/10/29-1A.64**

MB: 2005/10/29-1A.64-006 — Date Extracted: 10/29/2005 09:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/29/2005 09:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/29/2005 09:06	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/29/2005 09:06	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/29/2005 09:06	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/29/2005 09:06	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/29/2005 09:06	
Benzene	ND	0.5	ug/L	10/29/2005 09:06	
Toluene	ND	0.5	ug/L	10/29/2005 09:06	
Ethylbenzene	ND	0.5	ug/L	10/29/2005 09:06	
Total xylenes	ND	1.0	ug/L	10/29/2005 09:06	
Surrogates(s)					
1,2-Dichloroethane-d4	99.2	73-130	%	10/29/2005 09:06	
Toluene-d8	104.2	81-114	%	10/29/2005 09:06	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/10/26-2A.71**

LCS 2005/10/26-2A.71-057 Extracted: 10/26/2005 Analyzed: 10/26/2005 18:57

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.5		25	98.0			65-165	20		
Benzene	26.7		25	106.8			69-129	20		
Toluene	25.7		25	102.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	484		500	96.8			73-130			
Toluene-d8	535		500	107.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/10/28-1A.64**

LCS 2005/10/28-1A.64-007 Extracted: 10/28/2005 Analyzed: 10/28/2005 08:07

LCSD 2005/10/28-1A.64-050 Extracted: 10/28/2005 Analyzed: 10/28/2005 08:49

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.4	24.2	25	101.6	96.8	4.8	65-165	20		
Benzene	27.8	27.6	25	111.2	110.4	0.7	69-129	20		
Toluene	26.7	27.3	25	106.8	109.2	2.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	480	476	500	96.0	95.2		73-130			
Toluene-d8	528	544	500	105.6	108.8		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/10/29-1A.64**

LCS 2005/10/29-1A.64-045 Extracted: 10/29/2005 Analyzed: 10/29/2005 08:45

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.2		25	92.8			65-165	20		
Benzene	26.4		25	105.6			69-129	20		
Toluene	25.8		25	103.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	466		500	93.2			73-130			
Toluene-d8	534		500	106.8			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/10/26-2A.71**

MW-2 >> MS

Lab ID: 2005-10-0484 - 003

MS: 2005/10/26-2A.71-048 Extracted: 10/26/2005

Analyzed: 10/26/2005 21:48

Dilution: 50.00

MSD: 2005/10/26-2A.71-015 Extracted: 10/26/2005

Analyzed: 10/26/2005 22:15

Dilution: 50.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	1140	1210	45	1250	87.6	93.2	6.2	65-165	20		
Benzene	1180	1240	1.73	1250	94.3	99.1	5.0	69-129	20		
Toluene	1130	1190	ND	1250	90.4	95.2	5.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	459	465		500	91.8	93.0		73-130			
Toluene-d8	518	503		500	103.6	100.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/10/28-1A.64**

MS/MSD

Lab ID: 2005-10-0549 - 001

MS: 2005/10/28-1A.64-049 Extracted: 10/28/2005 Analyzed: 10/28/2005 11:49

Dilution: 1.00

MSD: 2005/10/28-1A.64-010 Extracted: 10/28/2005 Analyzed: 10/28/2005 12:10

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	31.1	31.5	6.94	25	96.6	98.2	1.6	65-165	20		
Benzene	25.2	26.1	ND	25	100.8	104.4	3.5	69-129	20		
Toluene	24.8	25.0	ND	25	99.2	100.0	0.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	509	509		500	101.8	101.8		73-130			
Toluene-d8	529	538		500	105.8	107.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/10/29-1A.64**

MS/MSD

Lab ID: 2005-10-0563 - 006

MS: 2005/10/29-1A.64-099 Extracted: 10/29/2005 Analyzed: 10/29/2005 09:45

Dilution: 1.00

MSD: 2005/10/29-1A.64-088 Extracted: 10/29/2005 Analyzed: 10/29/2005 10:06

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	19.9	23.4	ND	25	79.6	93.6	16.2	65-165	20		
Benzene	28.2	26.7	ND	25	112.8	106.8	5.5	69-129	20		
Toluene	27.5	25.4	ND	25	110.0	101.6	7.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	449	506		500	89.8	101.2		73-130			
Toluene-d8	531	535		500	106.2	107.0		81-114			

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/20/2005 11:31	Water	1
MW-3	10/20/2005 12:12	Water	2
MW-2	10/20/2005 15:28	Water	3
MW-4	10/20/2005 14:42	Water	4

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-1**	Lab ID:	2005-10-0484 - 1
Sampled:	10/20/2005 11:31	Extracted:	10/28/2005 14:54
Matrix:	Water	QC Batch#:	2005/10/28-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	330	50	ug/L	1.00	10/31/2005 20:47	Q6
Surrogate(s)						
o-Terphenyl	116.0	64-127	%	1.00	10/31/2005 20:47	

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-3**	Lab ID:	2005-10-0484 - 2
Sampled:	10/20/2005 12:12	Extracted:	10/28/2005 14:54
Matrix:	Water	QC Batch#:	2005/10/28-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	55	50	ug/L	1.00	10/31/2005 21:15	ndp
Surrogate(s)						
o-Terphenyl	116.2	64-127	%	1.00	10/31/2005 21:15	

Diesel (C9-C24)

Blaine Tech Services, Inc.
Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-2**	Lab ID:	2005-10-0484 - 3
Sampled:	10/20/2005 15:28	Extracted:	10/28/2005 14:54
Matrix:	Water	QC Batch#:	2005/10/28-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	75	50	ug/L	1.00	10/31/2005 21:42	ndp
Surrogate(s)						
o-Terphenyl	115.2	64-127	%	1.00	10/31/2005 21:42	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-4**	Lab ID:	2005-10-0484 - 4
Sampled:	10/20/2005 14:42	Extracted:	10/28/2005 14:54
Matrix:	Water	QC Batch#:	2005/10/28-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	10/31/2005 10:09	
Surrogate(s)						
o-Terphenyl	119.6	64-127	%	1.00	10/31/2005 10:09	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 3511 Test(s): 8015M

Method Blank **Water** **QC Batch # 2005/10/28-04.10**

MB: 2005/10/28-04.10-001 Date Extracted: 10/28/2005 14:54

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	10/31/2005 16:15	
Surrogates(s)					
o-Terphenyl	111.2	64-127	%	10/31/2005 16:15	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/10/28-04.10**

LCS 2005/10/28-04.10-002 Extracted: 10/28/2005 Analyzed: 10/31/2005 15:17

LCSD 2005/10/28-04.10-003 Extracted: 10/28/2005 Analyzed: 10/31/2005 15:47

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	597	540	714	83.6	75.6	10.1	60-150	25		
Surrogates(s)										
o-Terphenyl	1.59	1.46	1.25	126.9	117.1		64-127	0		

Diesel (C9-C24)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/20/2005 11:31	Water	1
MW-3	10/20/2005 12:12	Water	2
MW-2	10/20/2005 15:28	Water	3

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-1**	Lab ID:	2005-10-0484 - 1
Sampled:	10/20/2005 11:31	Extracted:	10/31/2005 10:43
Matrix:	Water	QC Batch#:	2005/10/31-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	190	50	ug/L	1.00	11/01/2005 03:34	Q6
Surrogate(s)						
o-Terphenyl	117.6	60-130	%	1.00	11/01/2005 03:34	

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-3**	Lab ID:	2005-10-0484 - 2
Sampled:	10/20/2005 12:12	Extracted:	10/31/2005 10:43
Matrix:	Water	QC Batch#:	2005/10/31-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/01/2005 06:17	
Surrogate(s)						
o-Terphenyl	113.1	60-130	%	1.00	11/01/2005 06:17	

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-2**	Lab ID:	2005-10-0484 - 3
Sampled:	10/20/2005 15:28	Extracted:	10/31/2005 10:43
Matrix:	Water	QC Batch#:	2005/10/31-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/01/2005 06:44	
Surrogate(s)						
o-Terphenyl	111.1	60-130	%	1.00	11/01/2005 06:44	

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 3511 Test(s): 8015M

Method Blank **Water** **QC Batch # 2005/10/31-03.10**

MB: 2005/10/31-03.10-001 Date Extracted: 10/31/2005 10:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	11/01/2005 04:55	
Surrogates(s)					
o-Terphenyl	115.8	60-130	%	11/01/2005 04:55	

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/10/31-03.10**

LCS 2005/10/31-03.10-002 Extracted: 10/31/2005 Analyzed: 11/01/2005 05:22

LCSD 2005/10/31-03.10-003 Extracted: 10/31/2005 Analyzed: 11/01/2005 05:50

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	575	545	714	80.5	76.3	5.4	60-150	25		
Surrogates(s)										
o-Terphenyl	1.48	1.41	1.25	118.6	112.8		60-130	0		

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Michael Ninokata

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#051020-MN1
97615964

Received: 10/21/2005 14:39

Site: 1801 Santa Rita Rd., Pleasanton

Legend and Notes

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

LAB: STL

SHELL Chain Of Custody Record

98529

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Denis Brown

2005-10-0484

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

SAP or CRMT NUMBER (TS/CRMT):

DATE: 10/20/05

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:
Blaine Tech Services	BTSS

ADDRESS:
1680 Rogers Avenue, San Jose, CA 95112

PROJECT CONTACT (Hardcopy or PDF Report to):		
Michael Ninokata		
TELEPHONE:	FAX:	E-MAIL:
408-573-0555	408-573-7771	mninokata@blainetech.com

SITE ADDRESS (Street and City):	GLOBAL ID NO.:
1801 Santa Rita Rd., Pleasanton	pending

EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
Heather Buckingham	(408)224-4724	hbuckingham@deltaenv.com	BTS # 030610-MN1

SAMPLER NAME(S) (Print): Michael Ninokata

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 ☐

Run TPH-d with silica gel cleanup if detected

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	TPH - Diesel, Extractable
	MW-1	10/20/05	1131	H2O	6	X	X			X	X
	MW-3		1212			X	X			X	X
	MW-2		1528			X	X			X	X
	MW-4		1442			X	X			X	X

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

TEMPERATURE ON RECEIPT C°: 4

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] Sample Custodian	10/20/05	1605
[signature] SAMPLE CUSTODIAN	[signature]	10/21/05	1439
[signature] 10/21/05	[signature]	10/21/05	17:45

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

Q&Q Graphic (714) 898-9702

10/15/99 Revision

WELLHEAD INSPECTION CHECKLIST

Date 10/20/05 Client Shell

Site Address 1801 Santa Rita Rd. Pleasanton

Job Number 051020-MN1 Technician Mike N.

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	✓							
MW-2	✓							
MW-3	✓							
MW-4	✓							

NOTES:

Repair Data Sheet

Client Shell Date 5/31/05

Site Address 1801 Santa Rita RD

Job Number 053105AA1 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency	Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
MW-4						X												X
Notes: Annular Seal fixed, HOLE IN ANNULAR SEAL																		
MW-1							X											X
Notes: Replaced wellbox, 1 OF 2 TABS BROKEN																		
Notes:																		
Notes:																		
Notes:																		
Notes:																		

WELL GAUGING DATA

Project # 051020-MN1 Date 10/20/05 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					56.51	91.54		
MW-2	4					55.89	92.88		4
MW-3	4					55.97	96.70		
MW-4	2					55.05	94.28	▽	

35.03

SHELL WELL MONITORING DATA SHEET

BTS #: 051020-MN1	Site: 97615964 @1801 Santa Rita Rd. Pleasanton
Sampler: MDN	Date: 10/20/05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 91.54	Depth to Water (DTW): 56.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 63.53	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

22.8 (Gals.) X 3 = 68.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1105	66.5	6.62	1661	47	22.8	clear
1121	66.7	6.62	1661	27	45.6	clear
1126	66.7	6.60	1662	32	68.3	clear

Did well dewater? Yes (No) Gallons actually evacuated: 68.3

Sampling Date: 10/20/05 Sampling Time: 1131 Depth to Water: 56.55

Sample I.D.: MW-1 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: OXYS by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ ~~TPH-D~~ Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 050120-MN1	Site: 97615964 @ 1801 Santa Rita Rd. Pleasanton
Sampler: MDN	Date: 10/20/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 92.88	Depth to Water (DTW): 55.89
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 63.29	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ✗ Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: ✗ Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

24.04 (Gals.) X 3 = 72.13 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1500	67.5	6.8	1602	762	24	clear
1506	66.9	6.8	1583	64	48	"
1512	67.7	6.9	1584	22	72.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 72.5

Sampling Date: 10/20/05 Sampling Time: 1528 Depth to Water: 55.90

Sample I.D.: MW-2 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxys by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

40.73

SHELL WELL MONITORING DATA SHEET

BTS #: 051020-MN1	Site: 97615964 @ 1801 Santa Rita Rd. Pleasanton
Sampler: MDN	Date: 10/20/05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 96.70	Depth to Water (DTW): 55.97
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 64.12	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

1 Case Volume	Specified Volumes	Calculated Volume
26.47 (Gals.) X	3	= 79.42 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
11:56	66.6	6.76	1559	>1000	26.5	light brown, cloudy
12:02	66.7	6.76	1561	273	26.5	cloudy
12:08	66.8	6.75	1557	165	26.5	clearing

Did well dewater? Yes (No) Gallons actually evacuated: 79.40

Sampling Date: 10/20/05 Sampling Time: 12:12 Depth to Water: 57.60

Sample I.D.: MW-MW3 Laboratory: (STL) Other____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: OXYS by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

39.23

SHELL WELL MONITORING DATA SHEET

BTS #: 051020-MN1	Site: 97615964 @1801 Santa Rita Rd. Pleasanton
Sampler: MDN	Date: 10/20/05
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 94.28	Depth to Water (DTW): 55.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 62.90	

Purge Method:
- Bailer
- Disposable Bailer
- X Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:_____

6.27 (Gals.) X 3 = 18.83 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1410	65.8	7.2	1606	>1000	6.5	brown, cloudy
1422	65.3	6.9	1605	>1000	13	↓ ↓
1433	65.4	6.9	1606	>1000	19	

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Date: 10/20/05 Sampling Time: 1442 Depth to Water: 55.09

Sample I.D.: MW-4 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: OXYS by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

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

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

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

REPORT DATE: 05/05/05 — CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: ~~CAROL CAMPAGNA~~ Wes Taylor — PHONE: 916-261-0916 ~~(707)399-7878~~ — SIGNATURE: on behalf of Shell 5/6/05
REPRESENTING: ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER ____ — COMPANY OR AGENCY NAME: SHELL OIL PRODUCTS US
ADDRESS: 20945 S. WILMINGTON (STREET) — CITY: CARSON — STATE: CA — ZIP: 90810

RESPONSIBLE PARTY
NAME: SHELL OIL PRODUCTS ☐ UNKNOWN — CONTACT PERSON: ~~CAROL CAMPAGNA~~ Aura Sibley — PHONE: 916-240-1610 ~~(707)399-7878~~
ADDRESS: 20945 S. WILMINGTON (STREET) — CITY: CARSON — STATE: CA — ZIP: 90810

SITE LOCATION
FACILITY NAME (IF APPLICABLE): SHELL SERVICE STATION — OPERATOR: — PHONE: ( )
ADDRESS: 1801 SANTA RITA RD (STREET) — CITY: PLEASANTON — COUNTY: ALAMEDA — ZIP: 94566
CROSS STREET: VALLEY AVE.

IMPLEMENTING AGENCIES
LOCAL AGENCY — AGENCY NAME: LIVERMORE-PLEASANTON FIRE DEPT. — CONTACT PERSON: MR. PAUL SMITH — PHONE: (925)454-2339
REGIONAL BOARD: SAN FRANCISCO BAY RWQCB — MR. CHUCK HEADLEE — PHONE: (510)622-2433

SUBSTANCE(S) INVOLVED
(1) NAME — QUANTITY LOST (GALLONS): ____ ☐ UNKNOWN
(2) ____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 05/03/05 — HOW DISCOVERED: ☐ TANK TEST ☐ INVENTORY CONTROL ☐ TANK REMOVAL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☒ OTHER HOIST REMOVAL
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☐ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☒ OTHER REPLACED HOIST

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

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

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

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

COMMENTS
SOIL SAMPLE TAKEN FROM BOTTOM OF HOLE DURING HOIST REPLACEMENT
OIL AND GREASE DETECTED AT 7,900 mg/Kg at 8.5 feet below grade.
DIESEL DETECTED AT 18,000 mg/Kg @ 8.5 feet below grade.

HSC 05 (8/95)

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

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San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.225.8506

September 30, 2005
Project SJ18-01S-B.2005

Mr. Paul Smith
Livermore-Pleasanton Fire Department
Hazardous Materials Division
3560 Nevada Street
Pleasanton, California 94566

Re: **Soil Sampling Report**
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Smith,

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this report documenting soil sampling performed in association with the removal of a hydraulic hoist from a service bay at the above-referenced site.

BACKGROUND

The following sections present a brief description of the former service station and a brief summary of previous site soil and groundwater investigations.

SITE DESCRIPTION

The site is located on the northwest corner of Santa Rita Road and Valley Avenue Drive in Pleasanton, California (Figure 1). The property is currently the site of an active Shell-branded service station. The Shell service station has three 12,000-gallon gasoline underground storage tanks (USTs) and four separate fuel dispensers (Figure 2). A building housing service bays and a convenience store is located in the northwestern portion of the property. The site is located in an area characterized as mixed commercial and residential.

PREVIOUS INVESTIGATIONS

In October 2002, four groundwater monitoring wells were installed on the site by KHM Environmental Management, Inc. (KHM) as part of the Groundwater Assessment Program (GRASP) initiated by Shell (Figure 2). Borings for the wells encountered primarily clay and clayey sand from the ground surface to a depth of approximately 25 feet. Clay and silty clay were encountered from approximately 25 to 55 feet; and well graded sand and gravels were encountered from approximately 55 feet to 97.5 feet, the maximum depth explored. Groundwater was encountered in borings at a depth of approximately 85 feet below grade (bg). The four groundwater monitoring wells are currently monitored and reported annually. Since the installation of the groundwater monitoring wells, total petroleum hydrocarbons as gasoline (TPH-G) and methyl tert butyl ether (MTBE) have not been detected. Benzene, toluene, ethyl benzene, and total xylenes (BTEX compounds) have been detected ranging from 0.64 micrograms per liter (ug/L) to 1.3 ug/L.

In November 2002, Armer-Norman & Associates, Inc. (AN) performed SB 989 fuel system upgrades at the service station. The UST complex was uncovered for upgrade activities, but did not require soil sampling. Samples were collected by KHM from beneath each of the four dispenser locations and from the base of the piping trench. Lead was detected in the soil samples collected beneath the fuel dispensers, ranging from 10.9 milligrams per kilogram (mg/kg) to 21.6 mg/kg. These levels are below the Risk Based Screening Levels (RBSLs) set by the California Regional Water Quality Control Board. Lead was detected in the soil samples collected from the piping trenches ranging from 6.73 mg/kg to 19.5 mg/kg. TPH-G, BTEX compounds, and fuel oxygenates were not detected in any soil samples from beneath the fuel dispensers or from the piping trenches.

HOIST REMOVAL, SAMPLING AND ANALYSIS

The below ground hydraulic hoist located within the station building, was removed by Able Maintenance, Inc. The soil beneath the former hoist was exposed when Delta arrived on the site on April 19, 2005. Delta collected a grab soil sample S-1@8.5' from beneath the former hoist by means of the contractor's post hole digger. The collect soil was pushed into a brass tube which was then sealed with Teflon sheeting and tight fitting plastic caps, and clearly labeled. The sample was placed on ice for the transportation to Severn Trent Laboratories (STL) for analysis.

The soil sample was analyzed for metals (cadmium, chromium, lead, nickel, and zinc) by EPA Method 6010B, Oil and Grease (Total) by EPA Method 1664A, Oil and Grease (Petroleum)* by EPA Method 1664A, and Total petroleum hydrocarbon as diesel (TPH-D) by EPA Method 8015M. The soil sample was also analyzed for TPH-G, BTEX compounds, and fuel oxygenates by 8260B. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A.

Cadmium, chromium, lead, nickel, and zinc were detected in the sample at concentrations of 0.98 mg/kg, 23 mg/kg, 17 mg/kg, 36 mg/kg, and 40 mg/kg, respectively. Total Oil and Grease was detected at a concentration of 11,000 mg/kg. Petroleum based Oil and Grease was detected at a concentration of 7,900 mg/kg. TPH-D was detected at 18,000 mg/kg, but it did not match the pattern of the laboratory Diesel

* Oil and Grease (Petroleum) is analyzed following application of a silica clean-up gel to remove non-petroleum hydrocarbons from the sample.

standard. TPH-G, BTEX compounds, or fuel oxygenates were not detected. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A.

A new hydraulic hoist was installed by Able Maintenance, Inc. in the location of the former hoist.

SOIL STOCKPILE SAMPLING AND ANALYSES

All soil excavated from beneath the hoist was placed in a stockpile located next to the service station bays (Figure 2). On April 19, 2005, Delta collected a soil sample Composite-A,B from the soil stockpile generated from the hoist removal. The stockpile soil sample consisted of two randomly collected, 6-inch brass tubes of soil. The soil samples were collected by removing the upper one-foot of soil on the surface of the stockpile and then pushing a brass tube into the underlying soil. The brass tube was then removed, sealed with Teflon sheeting and a tight fitting plastic cap, and clearly labeled. Samples were placed on ice for transportation to STL.

The sample was composited and analyzed for metals (cadmium, chromium, lead, nickel, and zinc) by EPA Method 6010B, Total Oil and Grease by EPA Method 1664A, and Volatile Organic Compounds (VOCs) by EPA Method 8260B. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A. Metals were detected at concentrations ranging from 1.1 mg/kg (cadmium) to 35 mg/kg (nickel). Total Oil and Grease was detected at 420 mg/kg. The VOCs detected were tetrachloroethene (0.025 mg/kg) 1,2,4-trimethylbenzene (0.005 mg/kg), and total xylenes (0.005 mg/kg). Soils were transported off-site for disposal at Forward Landfill in Manteca, California (Attachment B).

SUMMARY

Petroleum hydrocarbons as Total Oil and Grease were detected in a soil sample at the base of a hoist at 7,900 mg/kg. An Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report dated May 5, 2005 was submitted by Shell to Livermore-Pleasanton Fire Department (Attachment C).

REMARKS

The recommendations and conclusions contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site, please contact Debbie Arnold (Delta) at (408) 224-4724.

Sincerely,

Delta Environmental Consultants, Inc.

Debbie Arnold
Project Geologist
PG 7745

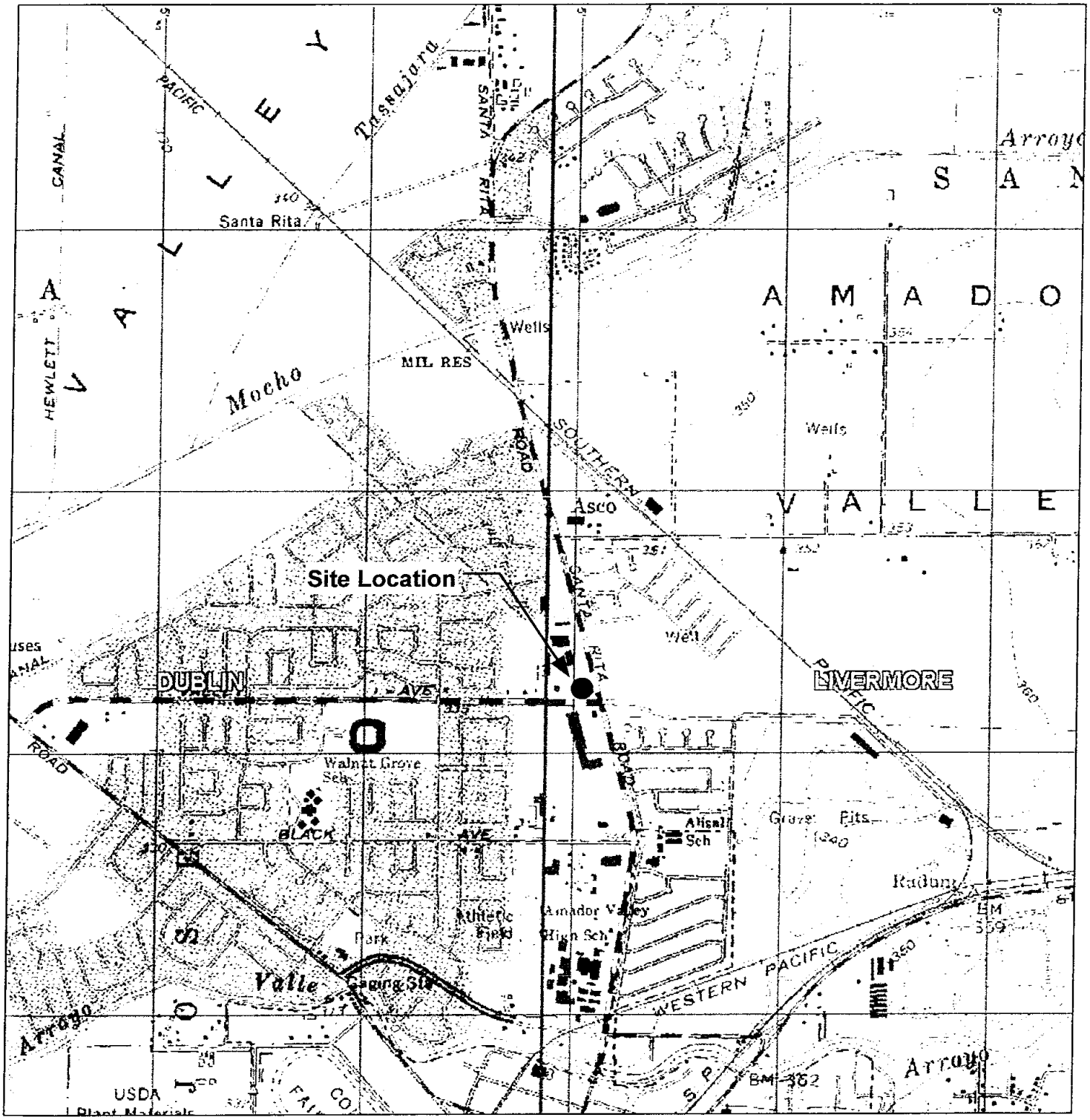
ATTACHMENTS:

Figure 1 – Site Location Map
Figure 2 – Soil Sample Location Map

Attachment A – Laboratory Certified Analytical Results and Chain-of-Custody Documentation
Attachment B – Waste Disposal Manifests
Attachment C – Unauthorized Release Report

cc: Denis Brown, Shell Oil Products US, Carson, CA
Jerry Wickham, Alameda County Environmental Health Department, Oakland, CA

Figures



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

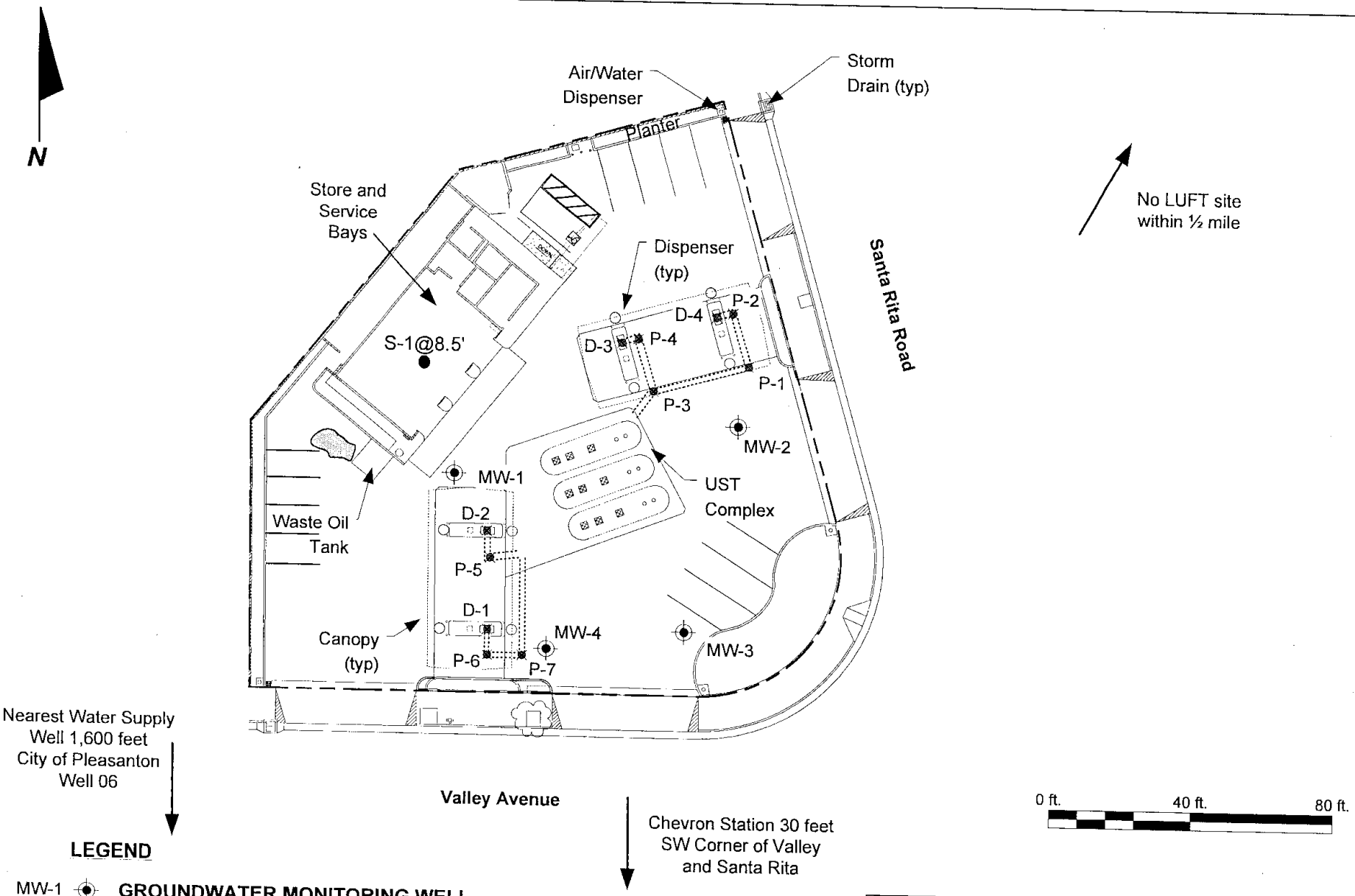
0 1,800 3,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2004	DRAWN BY VF 10/23/03
FILE NO. SJ18-01S-G.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

MW-1 **GROUNDWATER MONITORING WELL**

PIPING TRENCH

DISPENSER AND PIPING SOIL SAMPLE LOCATION (NOV. 2002)

HOIST SOIL SAMPLE LOCATION

STOCKPILE (Composite Sample Location)

FIGURE 2
SOIL SAMPLE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2005	DRAWN BY JL 6/22/05
FILE NO. SJ18-01S-G.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY DA

Delta
Environmental Consultants, Inc.

Attachment A

LABORATORY CERTIFIED ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION

Submission#: 2005-04-0686

Delta Env. Consultants San Jose May 03, 2005

175 Bernal Road
San Jose, CA 95119

Attn.: Rebecca Wolff

Project#: SJ18-01S-B
Project: Shell SAP Number 135783
Site: 1801 Santa Rita Road, Pleasanton, CA

Attached is our report for your samples received on 04/21/2005 14:12
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/05/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,

Melissa Brewer
Project Manager

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
COMPOSITE-A,B	04/19/2005 14:25	Soil	2

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	5035	Test(s):	8260B
Sample ID:	**COMPOSITE-A,B**	Lab ID:	2005-04-0686 - 2
Sampled:	04/19/2005 14:25	Extracted:	4/24/2005 17:12
Matrix:	Soil	QC Batch#:	2005/04/24-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Acetone	ND	50	ug/Kg	1.00	04/24/2005 17:12	
Benzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Bromobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Bromochloromethane	ND	20	ug/Kg	1.00	04/24/2005 17:12	
Bromoform	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Bromomethane	ND	10	ug/Kg	1.00	04/24/2005 17:12	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	04/24/2005 17:12	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Carbon disulfide	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Chlorobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Chloroethane	ND	10	ug/Kg	1.00	04/24/2005 17:12	
Chloroform	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Chloromethane	ND	10	ug/Kg	1.00	04/24/2005 17:12	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	04/24/2005 17:12	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	5035	Test(s):	8260B
Sample ID:	**COMPOSITE-A,B**	Lab ID:	2005-04-0686 - 2
Sampled:	04/19/2005 14:25	Extracted:	4/24/2005 17:12
Matrix:	Soil	QC Batch#:	2005/04/24-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,2-Dibromoethane	ND	10	ug/Kg	1.00	04/24/2005 17:12	
Dibromomethane	ND	10	ug/Kg	1.00	04/24/2005 17:12	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	04/24/2005 17:12	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Ethylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
2-Hexanone	ND	50	ug/Kg	1.00	04/24/2005 17:12	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Methylene chloride	ND	10	ug/Kg	1.00	04/24/2005 17:12	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	04/24/2005 17:12	
Naphthalene	ND	10	ug/Kg	1.00	04/24/2005 17:12	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Styrene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Tetrachloroethene	25	5.0	ug/Kg	1.00	04/24/2005 17:12	
Toluene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	5035	Test(s):	8260B
Sample ID:	**COMPOSITE-A,B**	Lab ID:	2005-04-0686 - 2
Sampled:	04/19/2005 14:25	Extracted:	4/24/2005 17:12
Matrix:	Soil	QC Batch#:	2005/04/24-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Trichloroethene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,2,4-Trimethylbenzene	5.0	5.0	ug/Kg	1.00	04/24/2005 17:12	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Vinyl acetate	ND	50	ug/Kg	1.00	04/24/2005 17:12	
Vinyl chloride	ND	5.0	ug/Kg	1.00	04/24/2005 17:12	
Total xylenes	5.0	5.0	ug/Kg	1.00	04/24/2005 17:12	
Surrogate(s)						
4-Bromofluorobenzene	101.9	60-130	%	1.00	04/24/2005 17:12	
1,2-Dichloroethane-d4	103.7	60-140	%	1.00	04/24/2005 17:12	
Toluene-d8	95.6	70-130	%	1.00	04/24/2005 17:12	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/04/24-01.70**

MB: 2005/04/24-01.70-046 Date Extracted: 04/24/2005 09:46

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	04/24/2005 09:46	
Acetone	ND	50	ug/Kg	04/24/2005 09:46	
Benzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Bromodichloromethane	ND	5.0	ug/Kg	04/24/2005 09:46	
Bromobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Bromochloromethane	ND	20	ug/Kg	04/24/2005 09:46	
Bromoform	ND	5.0	ug/Kg	04/24/2005 09:46	
Bromomethane	ND	10	ug/Kg	04/24/2005 09:46	
2-Butanone(MEK)	ND	50	ug/Kg	04/24/2005 09:46	
n-Butylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
sec-Butylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
tert-Butylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Carbon disulfide	ND	5.0	ug/Kg	04/24/2005 09:46	
Carbon tetrachloride	ND	5.0	ug/Kg	04/24/2005 09:46	
Chlorobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Chloroethane	ND	10	ug/Kg	04/24/2005 09:46	
Chloroform	ND	5.0	ug/Kg	04/24/2005 09:46	
Chloromethane	ND	10	ug/Kg	04/24/2005 09:46	
2-Chlorotoluene	ND	5.0	ug/Kg	04/24/2005 09:46	
4-Chlorotoluene	ND	5.0	ug/Kg	04/24/2005 09:46	
Dibromochloromethane	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,3-Dichloropropane	ND	5.0	ug/Kg	04/24/2005 09:46	
2,2-Dichloropropane	ND	5.0	ug/Kg	04/24/2005 09:46	
1,1-Dichloropropene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	04/24/2005 09:46	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/04/24-01.70**

MB: 2005/04/24-01.70-046 Date Extracted: 04/24/2005 09:46

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2-Dibromoethane	ND	10	ug/Kg	04/24/2005 09:46	
Dibromomethane	ND	10	ug/Kg	04/24/2005 09:46	
Dichlorodifluoromethane	ND	10	ug/Kg	04/24/2005 09:46	
1,1-Dichloroethane	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2-Dichloroethane	ND	5.0	ug/Kg	04/24/2005 09:46	
1,1-Dichloroethene	ND	5.0	ug/Kg	04/24/2005 09:46	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	04/24/2005 09:46	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2-Dichloropropane	ND	5.0	ug/Kg	04/24/2005 09:46	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	04/24/2005 09:46	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	04/24/2005 09:46	
Ethylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Hexachlorobutadiene	ND	5.0	ug/Kg	04/24/2005 09:46	
2-Hexanone	ND	50	ug/Kg	04/24/2005 09:46	
Isopropylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
p-Isopropyltoluene	ND	5.0	ug/Kg	04/24/2005 09:46	
Methylene chloride	ND	10	ug/Kg	04/24/2005 09:46	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	04/24/2005 09:46	
Naphthalene	ND	10	ug/Kg	04/24/2005 09:46	
n-Propylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Styrene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	04/24/2005 09:46	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	04/24/2005 09:46	
Tetrachloroethene	ND	5.0	ug/Kg	04/24/2005 09:46	
Toluene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	04/24/2005 09:46	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/04/24-01.70**

MB: 2005/04/24-01.70-046 Date Extracted: 04/24/2005 09:46

Compound	Conc.	RL	Unit	Analyzed	Flag
1,1,2-Trichloroethane	ND	5.0	ug/Kg	04/24/2005 09:46	
Trichloroethene	ND	5.0	ug/Kg	04/24/2005 09:46	
Trichlorofluoromethane	ND	5.0	ug/Kg	04/24/2005 09:46	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	04/24/2005 09:46	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	04/24/2005 09:46	
Vinyl acetate	ND	50	ug/Kg	04/24/2005 09:46	
Vinyl chloride	ND	5.0	ug/Kg	04/24/2005 09:46	
Total xylenes	ND	5.0	ug/Kg	04/24/2005 09:46	
Surrogates(s)					
4-Bromofluorobenzene	100.5	60-130	%	04/24/2005 09:46	
1,2-Dichloroethane-d4	101.4	60-140	%	04/24/2005 09:46	
Toluene-d8	97.5	70-130	%	04/24/2005 09:46	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

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Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5035

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/04/24-01.70**

LCS 2005/04/24-01.70-013 Extracted: 04/24/2005 Analyzed: 04/24/2005 09:13

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	112		100.0	112.0			69-129	20		
Chlorobenzene	110		100.0	110.0			61-121	20		
1,1-Dichloroethene	99.3		100.0	99.3			65-125	20		
Toluene	111		100.0	111.0			70-130	20		
Trichloroethene	112		100.0	112.0			74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	530		500	106.0			60-130			
1,2-Dichloroethane-d4	499		500	99.8			60-140			
Toluene-d8	518		500	103.6			70-130			

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

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Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/04/24-01.70**

MS/MSD Lab ID: 2005-04-0575 - 009

MS: 2005/04/24-01.70-007 Extracted: 04/24/2005 Analyzed: 04/24/2005 11:07
Dilution: 1.00

MSD: 2005/04/24-01.70-040 Extracted: 04/24/2005 Analyzed: 04/24/2005 11:40
Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	91.3	89.8	ND	89.9	101.6	99.7	1.9	69-129	20		
Chlorobenzene	98.0	95.3	ND	89.9	109.0	105.8	3.0	61-121	20		
1,1-Dichloroethene	88.7	90.1	ND	89.9	98.7	100.0	1.3	65-125	20		
Toluene	90.8	91.0	ND	89.9	101.0	101.0	0.0	70-130	20		
Trichloroethene	93.3	88.7	ND	89.9	103.8	98.4	5.3	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	487	488		500	97.4	97.6		60-130			
1,2-Dichloroethane-d4	481	490		500	96.1	98.0		60-140			
Toluene-d8	513	480		500	102.5	96.0		70-130			

Oil & Grease (Total) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1@8.5`	04/19/2005 14:15	Soil	1
COMPOSITE-A,B	04/19/2005 14:25	Soil	2

Oil & Grease (Total) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**S-1@8.5`**	Lab ID:	2005-04-0686 - 1
Sampled:	04/19/2005 14:15	Extracted:	4/25/2005 16:28
Matrix:	Soil	QC Batch#:	2005/04/25-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	11000	50	mg/Kg	1.00	04/26/2005 16:20	

Oil & Grease (Total) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**COMPOSITE-A,B**	Lab ID:	2005-04-0686 - 2
Sampled:	04/19/2005 14:25	Extracted:	4/25/2005 16:28
Matrix:	Soil	QC Batch#:	2005/04/25-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	420	50	mg/Kg	1.00	04/26/2005 16:20	

Oil & Grease (Total) by EPA 1664A

Delta Env. Consultants San Jose

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Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 1664A — Test(s): 1664A

Method Blank — **Soil** — **QC Batch # 2005/04/25-01.23**

MB: 2005/04/25-01.23-001 — Date Extracted: 04/25/2005 16:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	04/26/2005 16:20	

Oil & Grease (Total) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Laboratory Control Spike **Soil** **QC Batch # 2005/04/25-01.23**

LCS 2005/04/25-01.23-002 Extracted: 04/25/2005 Analyzed: 04/26/2005 16:20

LCSD 2005/04/25-01.23-003 Extracted: 04/25/2005 Analyzed: 04/26/2005 16:20

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Oil & Grease (total)	774	789	800	97.0	98.6	1.6	79-114	18		

LUFT 5 Metals

Delta Env. Consultants San Jose

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1@8.5`	04/19/2005 14:15	Soil	1
COMPOSITE-A,B	04/19/2005 14:25	Soil	2

LUFT 5 Metals

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**S-1@8.5`**	Lab ID:	2005-04-0686 - 1
Sampled:	04/19/2005 14:15	Extracted:	4/26/2005 06:31
Matrix:	Soil	QC Batch#:	2005/04/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	0.98	0.50	mg/Kg	1.00	04/26/2005 10:57	
Chromium	23	1.0	mg/Kg	1.00	04/26/2005 10:57	
Lead	17	1.0	mg/Kg	1.00	04/26/2005 10:57	
Nickel	36	1.0	mg/Kg	1.00	04/26/2005 10:57	
Zinc	40	1.0	mg/Kg	1.00	04/26/2005 10:57	

LUFT 5 Metals

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**COMPOSITE-A,B**	Lab ID:	2005-04-0686 - 2
Sampled:	04/19/2005 14:25	Extracted:	4/26/2005 06:31
Matrix:	Soil	QC Batch#:	2005/04/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	1.1	0.50	mg/Kg	1.00	04/26/2005 11:07	
Chromium	26	1.0	mg/Kg	1.00	04/26/2005 11:07	
Lead	4.4	1.0	mg/Kg	1.00	04/26/2005 11:07	
Nickel	35	1.0	mg/Kg	1.00	04/26/2005 11:07	
Zinc	33	1.0	mg/Kg	1.00	04/26/2005 11:07	

LUFT 5 Metals

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 3050B | Test(s): 6010B

Method Blank | **Soil** | **QC Batch # 2005/04/26-01.15**

MB: 2005/04/26-01.15-038 | Date Extracted: 04/26/2005 06:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	04/26/2005 10:33	
Chromium	ND	1.0	mg/Kg	04/26/2005 10:33	
Lead	ND	1.0	mg/Kg	04/26/2005 10:33	
Nickel	ND	1.0	mg/Kg	04/26/2005 10:33	
Zinc	ND	1.0	mg/Kg	04/26/2005 10:33	

LUFT 5 Metals

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2005/04/26-01.15**

LCS 2005/04/26-01.15-039 Extracted: 04/26/2005 Analyzed: 04/26/2005 10:36

LCSD 2005/04/26-01.15-040 Extracted: 04/26/2005 Analyzed: 04/26/2005 10:39

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Cadmium	98.4	97.7	100.0	98.4	97.7	0.7	80-120	20		
Chromium	101	100	100.0	101.0	100.0	1.0	80-120	20		
Lead	98.5	97.7	100.0	98.5	97.7	0.8	80-120	20		
Nickel	100	99.6	100.0	100.0	99.6	0.4	80-120	20		
Zinc	97.8	96.8	100.0	97.8	96.8	1.0	80-120	20		

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1@8.5`	04/19/2005 14:15	Soil	1

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**S-1@8.5`**	Lab ID:	2005-04-0686 - 1
Sampled:	04/19/2005 14:15	Extracted:	4/25/2005 16:31
Matrix:	Soil	QC Batch#:	2005/04/25-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	7900	50	mg/Kg	1.00	04/27/2005 17:30	.

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 1664A — Test(s): 1664A

Method Blank — **Soil** — **QC Batch # 2005/04/25-02.23**

MB: 2005/04/25-02.23-001 — Date Extracted: 04/25/2005 16:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	04/27/2005 17:30	

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Laboratory Control Spike **Soil** **QC Batch # 2005/04/25-02.23**

LCS 2005/04/25-02.23-002 Extracted: 04/25/2005 Analyzed: 04/27/2005 17:30

LCSD 2005/04/25-02.23-003 Extracted: 04/25/2005 Analyzed: 04/27/2005 17:30

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Oil & Grease (Petroleum)	371	382	400	92.8	95.5	2.9	66-114	24		

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/04/25-02.23**

S-1@8.5` >> MS

Lab ID: 2005-04-0686 - 001

MS: 2005/04/25-02.23-004 Extracted: 04/25/2005

Analyzed: 04/27/2005 17:30

Dilution: 1.00

MSD:

Analyzed:

Dilution:

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Oil & Grease (Petroleum)	8160		7920	400	60.0			66-114	24	M5	

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Legend and Notes

Result Flag

.

-

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1@8.5`	04/19/2005 14:15	Soil	1

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**S-1@8.5`**	Lab ID:	2005-04-0686 - 1
Sampled:	04/19/2005 14:15	Extracted:	4/28/2005 22:42
Matrix:	Soil	QC Batch#:	2005/04/28-3B.62

Analysis Flag: N1 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	04/28/2005 22:42	
Benzene	ND	0.0050	mg/Kg	1.00	04/28/2005 22:42	
Toluene	ND	0.0050	mg/Kg	1.00	04/28/2005 22:42	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/28/2005 22:42	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/28/2005 22:42	
Surrogate(s)						
1,2-Dichloroethane-d4	133.6	76-124	%	1.00	04/28/2005 22:42	S4
Toluene-d8	93.1	75-116	%	1.00	04/28/2005 22:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2005/04/28-3B.62**

MB: 2005/04/28-3B.62-006 — Date Extracted: 04/28/2005 19:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	04/28/2005 19:06	
Benzene	ND	0.0050	mg/Kg	04/28/2005 19:06	
Toluene	ND	0.0050	mg/Kg	04/28/2005 19:06	
Ethyl benzene	ND	0.0050	mg/Kg	04/28/2005 19:06	
Total xylenes	ND	0.0050	mg/Kg	04/28/2005 19:06	
Surrogates(s)					
1,2-Dichloroethane-d4	109.6	76-124	%	04/28/2005 19:06	
Toluene-d8	102.6	75-116	%	04/28/2005 19:06	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/04/28-3B.62**

LCS 2005/04/28-3B.62-039 Extracted: 04/28/2005 Analyzed: 04/28/2005 18:39

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	0.0633		0.05	126.6			69-129	20		
Toluene	0.0644		0.05	128.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	546		500	109.2			76-124			
Toluene-d8	516		500	103.2			75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/04/28-3B.62**

MS/MSD

Lab ID: 2005-04-0612 - 002

MS: 2005/04/28-3B.62-031 Extracted: 04/28/2005 Analyzed: 04/28/2005 20:31

Dilution: 1.00

MSD: 2005/04/28-3B.62-057 Extracted: 04/28/2005 Analyzed: 04/28/2005 20:57

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	0.0469	0.0562	ND	0.046816	100.2	120.3	18.2	69-129	20		
Toluene	0.0499	0.0573	ND	0.046816	106.6	122.6	14.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	532	514		500	106.4	102.8		76-124			
Toluene-d8	532	527		500	106.4	105.4		75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Legend and Notes

Analysis Flag

N1

Internal standard out of range.

Result Flag

S4

Surrogate recovery was higher than QC limit due to matrix interference.

Diesel (C9-C24)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1@8.5`	04/19/2005 14:15	Soil	1

Diesel (C9-C24)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

175 Bernal Road
Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**S-1@8.5`**	Lab ID:	2005-04-0686 - 1
Sampled:	04/19/2005 14:15	Extracted:	4/28/2005 16:48
Matrix:	Soil	QC Batch#:	2005/04/28-4A.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	18000	200	mg/Kg	200.00	04/30/2005 15:35	ndp
Surrogate(s)						
o-Terphenyl	NA	60-130	%	200.00	04/30/2005 15:35	S3

Diesel (C9-C24)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 3550/8015M
Test(s): 8015M

Method Blank **Soil** **QC Batch # 2005/04/28-4A.10**

MB: 2005/04/28-4A.10-001
Date Extracted: 04/28/2005 16:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	04/29/2005 01:17	
Surrogates(s)					
o-Terphenyl	78.0	60-130	%	04/29/2005 01:17	

Diesel (C9-C24)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike **Soil** **QC Batch # 2005/04/28-4A.10**

LCS 2005/04/28-4A.10-002 Extracted: 04/28/2005 Analyzed: 04/29/2005 01:45

LCSD 2005/04/28-4A.10-003 Extracted: 04/28/2005 Analyzed: 04/29/2005 02:12

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	30.7	31.0	41.6	73.8	74.5	0.9	60-130	25		
Surrogates(s)										
o-Terphenyl	16.5	16.5	20.0	82.3	82.4		60-130			

Diesel (C9-C24)

Delta Env. Consultants San Jose

Attn.: Rebecca Wolff

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Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ18-01S-B
Shell SAP Number 135783

Received: 04/21/2005 14:12

Site: 1801 Santa Rita Road, Pleasanton, CA

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

S3

Surrogate recovery not reportable due to required dilution.

SHELL Chain Of Custody Record

114458

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced: **Bill Merchant**

☐ SCIENCE & ENGINEERING ☑ TECHNICAL SERVICES ☐ CRMT HOUSTON

2005-04-0686

INCIDENT NUMBER (S&E ONLY)

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

DATE: 4/19/05

PAGE: 1 of 1

SAMPLING COMPANY: Delta Environmental Consultants, Inc.	LOG CODE:	SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton, CA	GLOBAL ID NO.:
ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95119		EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fisher	PHONE NO.: (928) 468-6417
PROJECT CONTACT (Hardcopy or PDF Report to): Rebecca Wolff		E-MAIL: vfischer@deltaenv.com	CONSULTANT PROJECT NO.: SJ18-01S-B
TELEPHONE: (408) 224-4724	FAX: (408) 225-8506	E-MAIL: rwolff@deltaenv.com	SAMPLER NAME(S) (Print): Jim Bobey

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	tBA	Oxygenates (5) by (8260B)	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐ Total ☐ STLC ☐ TCLP	LUFT5 ☐ Total ☐ STLC ☐ TCLP	CAM17 ☐ Total ☐ STLC ☐ TCLP	Test for Disposal	Total Oil + Grease 1664	Total Oil + Grease Silica gel 1664			
	S-1 @ 8.5'	4-19-05	14:15	Soil	1	X	X	X										X			X	X			
	Composite - A, B	4-19-05	14:25	Soil	2										X			X			X				

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

2 ice

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature) Jim Bobey	Received by: (Signature)	Date: 4/21/05	Time: 1412
Relinquished by: (Signature) 4/21/05 1847	Received by: (Signature)	Date: 04/21/05	Time: 1847
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

Attachment B

WASTE DISPOSAL MANIFESTS

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

25866

GENERATOR Shell Oil Products US

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

on behalf of
*[illegible] SOPUS | 8-11-05

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or Title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

☒ DISPOSAL
☐ CONSTRUCTION
☐ DEBRIS
☐ SPECIAL WASTE
☐ SLUDGE
☐ WOOD
☐ OTHER

GENERATING FACILITY

1801 Santa Rita, Pleasanton CA

TRANSPORTER

ADDRESS

CITY, STATE, ZIP

PHONE

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

on behalf of
*[illegible] SOPUS | 8-11-05

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

* [illegible] 08/12/05

WASTE ACCEPTANCE NO.

5686

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT
☐ TY-VEK ☐ OTHER

SPECIAL HANDLING PROCEDURES

RIPR# 44182

RECEIVING FACILITY

NOTES: VEHICLE LICENSE NUMBER: 7V39913 TRUCK NUMBER: 140

END DUMP	BOTTOM DUMP	TRANSFER
☐	☐	☐

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
☒	☐	☐	☐

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
☒ SOIL		
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUB... TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEF...

MANIFEST # 43751

421

FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298 / WEIGHING LOCATION
Resource Recovery: (209) 982-4936

P.O. Box 6336
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

SALE	TICKET NO.	DATE	PAID
CR	713952		

SCALE OPERATOR
MICHAEL CLM

DATE IN	TIME IN
12 August 2005	11:12 AM

DATE OUT	TIME OUT
12 August 2005	11:15 AM

VEHICLE	ROLL OFF
PSC 140	

REFERENCE	ORIGIN
	PLEASANTON

Gross Weight 29,360.00 LB
Tare Weight 27,240.00 LB
Net Weight 2,120.00 LB 1.06 TN

Inbound - SCALE TICKET

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
1.06	TN	C SPECIAL II SOIL				

NET AMOUNT

TENDERED

CHANGE

CHECK #

DRIVER'S SIGNATURE

Attachment C

UNAUTHORIZED RELEASE REPORT

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

EMERGENCY ☐ YES ☒ NO

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

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

REPORT DATE: 05/05/05 | CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Wes Taylor | PHONE: 916-261-0915 | SIGNATURE: on behalf of Shell 5/6/05
REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER
COMPANY OR AGENCY NAME: SHELL OIL PRODUCTS US
ADDRESS: 20945 S. WILMINGTON (STREET) | CITY: CARSON | STATE: CA | ZIP: 90810

RESPONSIBLE PARTY
NAME: SHELL OIL PRODUCTS ☐ UNKNOWN | CONTACT PERSON: Aura Sibley | PHONE: 916-240-1610
ADDRESS: 20945 S. WILMINGTON (STREET) | CITY: CARSON | STATE: CA | ZIP: 90810

SITE LOCATION
FACILITY NAME (IF APPLICABLE): SHELL SERVICE STATION | OPERATOR | PHONE: ( )
ADDRESS: 1801 SANTA RITA RD (STREET) | CITY: PLEASANTON | COUNTY: ALAMEDA | ZIP: 94566
CROSS STREET: VALLEY AVE.

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: LIVERMORE-PLEASANTON FIRE DEPT. | CONTACT PERSON: MR. PAUL SMITH | PHONE: (925)454-2359
REGIONAL BOARD: SAN FRANCISCO BAY RWQCB | MR. CHUCK HEADLEE | PHONE: (510)622-2433

SUBSTANCES INVOLVED
(1) NAME | QUANTITY LOST (GALLONS) ☐ UNKNOWN
(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 05/03/05 | HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☒ OTHER HOIST REMOVAL
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☐ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☒ OTHER REPLACED HOIST

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

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

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

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

COMMENTS
SOIL SAMPLE TAKEN FROM BOTTOM OF HOLE DURING HOIST REPLACEMENT
OIL and GREASE DETECTED AT 7,900 mg/Kg at 8.5 feet below grade.
DIESEL DETECTED AT 18,000 mg/Kg @ 8.5 feet below grade.

HSG 01 (rev 9)

Description of Methods

Prior to conducting any field work at the site, Delta will prepare a site specific Health and Safety Plan (HASP). The Delta field geologist on-site will review the HASP with site subcontractors at the start of each work day.

Soil Sampling: Borings B-1 through B-4

Delta proposes to use hollow stem auger drilling equipment to sample soil and groundwater beneath the site at four locations (B-1 through B-4).

Prior to drilling, each borehole location will be surveyed by a geophysical locator and marked for underground utilities. Underground Services Alert (USA) will be notified of the proposed borings a minimum of 48-hours before Delta begins work at the site. Lastly, approximately the upper 7 feet of each borehole will be excavated by air vacuum equipment in order to minimize the risk of damaging any unidentified underground utilities. Borings B-1 through B-4 will be cored from a depth of 7 feet bg to a total depth of approximately 60 feet bg in order to collect a grab groundwater sample between 55 and 60 feet bg.

Soil samples for laboratory analysis will be collected at 5-foot intervals from the ground surface to the total depth of each boring. A hand-augered sample will be collected at 5 feet bg in each boring location during borehole clearance with the air vacuum tools. Retained soil samples will be capped with Teflon tape and tight fitting caps, and placed in a cooler with ice for transportation to Sequoia Laboratory (Sequoia) in Morgan Hill, California. Samples will be analyzed in the field with a photo-ionization detector (PID), and petroleum hydrocarbon concentrations in the soil will be recorded on the field logs. The PID soil samples will be placed in a sealed plastic bag. After approximately 5-minutes, the PID probe will be inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilize.

Well Installation: Well MW-1B, MW-4B, and MW-5

Wells MW-1B, MW-4B, and MW-5 will be installed using hollow-stem auger drilling equipment.

Soil samples for laboratory analysis will be collected at 5-foot intervals from the ground surface to the total depth of the boring for each well. A hand-augered sample will be collected at 5 feet bg in each boring location during borehole clearance with the air vacuum tools. Soil samples will be capped with Teflon tape and tight fitting caps, and placed in a cooler with ice for transportation to Sequoia in Morgan Hill, California. A PID will be used to measure soil hydrocarbon concentrations at 5-foot intervals. The PID soil samples will be placed in a sealed plastic bag. After approximately 5-minutes, the PID probe will be inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilize.

Wells will be constructed of 4-inch diameter PVC casing and well screens. Delta anticipates constructing the wells with screens from approximately 55 to 60 feet bg. The wells will be developed by cycles of surging followed by pumping until clear water is obtained. The wells will be sampled by Blaine Tech Services (Blaine) a minimum of 24 hours after development. The location and top of casing elevation of each well will be established by a California licensed surveyor.

Groundwater Sampling: Borings B-1 through B-4

A grab groundwater sample will be collected if groundwater is encountered in Borings B-1 through B-4. A temporary PVC screen will be placed in the boring. A bailer, lowered through the temporary PVC screen, will then be used to collect a groundwater sample from the boring. Groundwater will be decanted in 40-milliliter glass vials, labeled, and placed on ice for transport to Sequoia. Upon completion of soil and groundwater sampling, each borehole will be tremmie filled with cement grout.

Sample Analyses

All soil samples submitted for laboratory testing will be analyzed for total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethylbenzene, total xylenes (BTEX compounds), five fuel oxygenates, methyl-t-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butanol (TBA), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and total lead per ACHCSA recommendations.

All groundwater samples from Borings B-1 through B-4 will be analyzed for TPH-G, TPH-D, BTEX compounds, the five fuel oxygenates, 1,2-DCA, and EDB, per ACHCSA recommendations. Analyses for petroleum hydrocarbons, fuel oxygenates, and 1,2-DCA will be performed by EPA Method 8260B. Analysis for EDB will be performed by EPA Method 504.1. Groundwater samples with initial TPH-D detections will be run with a silica gel clean-up to remove non-petroleum hydrocarbons from the sample.

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.225.8506

September 2, 2004
Project SJ18-01S-G

Mr. Paul Smith
Livermore-Pleasanton Fire Department
Hazardous Materials Division
3560 Nevada Street
Pleasanton, California 94566

RE: Soil Sampling Report
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Smith:

As requested, on behalf of Shell Oil Products US (Shell), Delta Environmental Consultants, Inc. (Delta) submits a copy of the above mentioned report for work performed in November 2002.

If you have any questions regarding this report, please contact Debbie Arnold (Delta) at (408) 224-4724.

Sincerely,
DELTA ENVIRONMENTAL CONSULTANTS, INC.

D. Arnold

Debbie Arnold
Project Manager
RG 7745

cc: Ms. Roseanna Garcia-La Grille, Alameda County Health Care Services Agency, Alameda, CA

COPY

December 20, 2002
Project C85-1801 Santa Rita-PP

Mr. Paul Smith
Livermore-Pleasanton Fire Department
Hazardous Materials Division
3560 Nevada Street
Pleasanton, California 94566

RE: Soil Sampling Report
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Dear Mr. Smith:

KHM Environmental Management, Inc. (KHM), on behalf of Shell Oil Products US (Shell) has prepared this report documenting soil sampling performed in association with SB 989 upgrade of product piping and fuel dispensers at the above-referenced site (Figure 1).

BACKGROUND AND SITE DESCRIPTION

LOCATION

The subject site is located on the northwest corner of Santa Rita Road and Valley Avenue Drive in Pleasanton, California (Figure 2). The property is currently the site of an active Shell service station.

SITE DESCRIPTION

The Shell service station has three 12,000-gallon gasoline underground storage tanks (USTs) and four separate fuel dispensers (Figure 2). A building housing service bays and a convenience store is located in the northwestern portion of the property. The site is located in an area characterized as mixed commercial and residential.

In October 2002, four groundwater monitoring wells were installed on the site by KHM as part of the GRoundwater ASsessment Program (GRASP) initiated by Shell (Figure 2). Borings for the wells encountered primarily clay and clayey sand from the ground surface to a depth of approximately 25 feet.

Clay and silty clay were encountered from approximately 25 to 55 feet; and a well graded sand and gravels were encountered from approximately 55 feet to 97.5 feet, the maximum depth explored. Groundwater was encountered in borings at a depth of approximately 85 feet below grade (bg).

SOIL SAMPLING AND ANALYSES

Armer-Norman & Associates, Inc. (AN) performed SB 989 fuel system upgrades at the service station in November 2002. The soil beneath former dispensers and product piping was exposed when KHM arrived on the site on November 15, 2002. Soil sampling was performed under the direction of Mr. Paul Smith of the Livermore-Pleasanton Fire Department. The UST complex was also uncovered for upgrade activities, but did not require any soil sampling by Delta.

FUEL DISPENSERS SAMPLING AND ANALYSES

KHM collected a soil sample from beneath each of the four former dispensers (D-1 through D-4) (Figure 2). Gravel fill material and the upper two feet of soil was excavated from beneath each dispenser location. A soil sample was collected by driving a brass tube into the underlying soil at a total depth of approximately 2½ to 3½ feet bg. The brass tube was then removed, sealed with Teflon sheeting and a tight fitting plastic cap, and clearly labeled. Samples were placed on ice for transportation to the laboratory.

The soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); fuel oxygenates: methyl-tert butyl ether [MTBE], diisopropyl ether [DIPE], ethyl-tert-butyl ether [ETBE], tert-amyl methyl ether [TAME], and tert-butanol [TBA] by EPA Method 8260B and for lead by EPA Method 6010B - Total Digestion. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A. Analytical results are summarized on Table 1. TPH-G, BTEX compounds, and fuel oxygenates were not detected in any soil sample collected from beneath the dispensers. Lead was detected in the soil samples collected from beneath the fuel dispensers, ranging from 10.9 milligrams per kilogram (mg/kg) to 21.6 mg/kg. These levels are below the Risk Based Screening Levels (RBSLs) set by the California Regional Water Quality Control Board.

PIPING TRENCH SAMPLING AND ANALYSES

The product piping connecting USTs to fuel dispensers was removed by AN exposing the underlying soil. KHM collected seven soil samples (P-1 through P-7) from the base of the piping trench at the locations shown on Figure 2. The samples were collected by pushing a brass tube into the soil at the base of the trench. The brass tube was then removed, sealed with Teflon sheeting and a tight fitting plastic cap, and clearly labeled. Samples were placed on ice for transportation to the laboratory.

The soil samples were analyzed for TPH-G, BTEX compounds, and fuel oxygenates by EPA Method 8260B and lead by EPA Method 6010B – Total Digestion. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A. Analytical results are summarized on Table 1. TPH-G, BTEX compounds, and fuel oxygenates were not detected in any soil sample collected from the product piping trenches. Lead was detected in all seven piping trench samples, ranging from 6.73 mg/kg to 19.5 mg/kg.

SOIL DISPOSAL

Approximately 150 cubic yards of stockpiled soil was transported to the Forward landfill in Manteca, California for disposal. Stockpiled soil was generated from dispenser and piping trench excavations, combined with cover material excavated from the UST complex.

CONCLUSIONS

Petroleum hydrocarbons were not detected in the area of site dispensers and product piping. Based upon the soil analytical results, a release of petroleum hydrocarbons has not occurred beneath fuel dispensers and product piping.

RECOMMENDATIONS

KHM recommends no further action in the area of site dispensers and product piping.

If you have any questions about the content of this report, please call.

Sincerely,
KHM Environmental Management, Inc.

COPY

Janet W. Yantis
Project Geologist

COPY

R. Lee Dooley
California Certified Hydrogeologist
CHG 183

Attachments: Table 1 – Summary of Soil Analytical Data
Figure 1 - Site Location Map
Figure 2 – Soil Sample Location Map
Attachment A - Certified Analytical Report and Chain-of-Custody Documentation

cc: Ms. Karen Petryna PE, Shell Oil Products US, Carson, CA
Mr. Perry Pineda, Shell Oil Products US, Pleasant Hill, CA

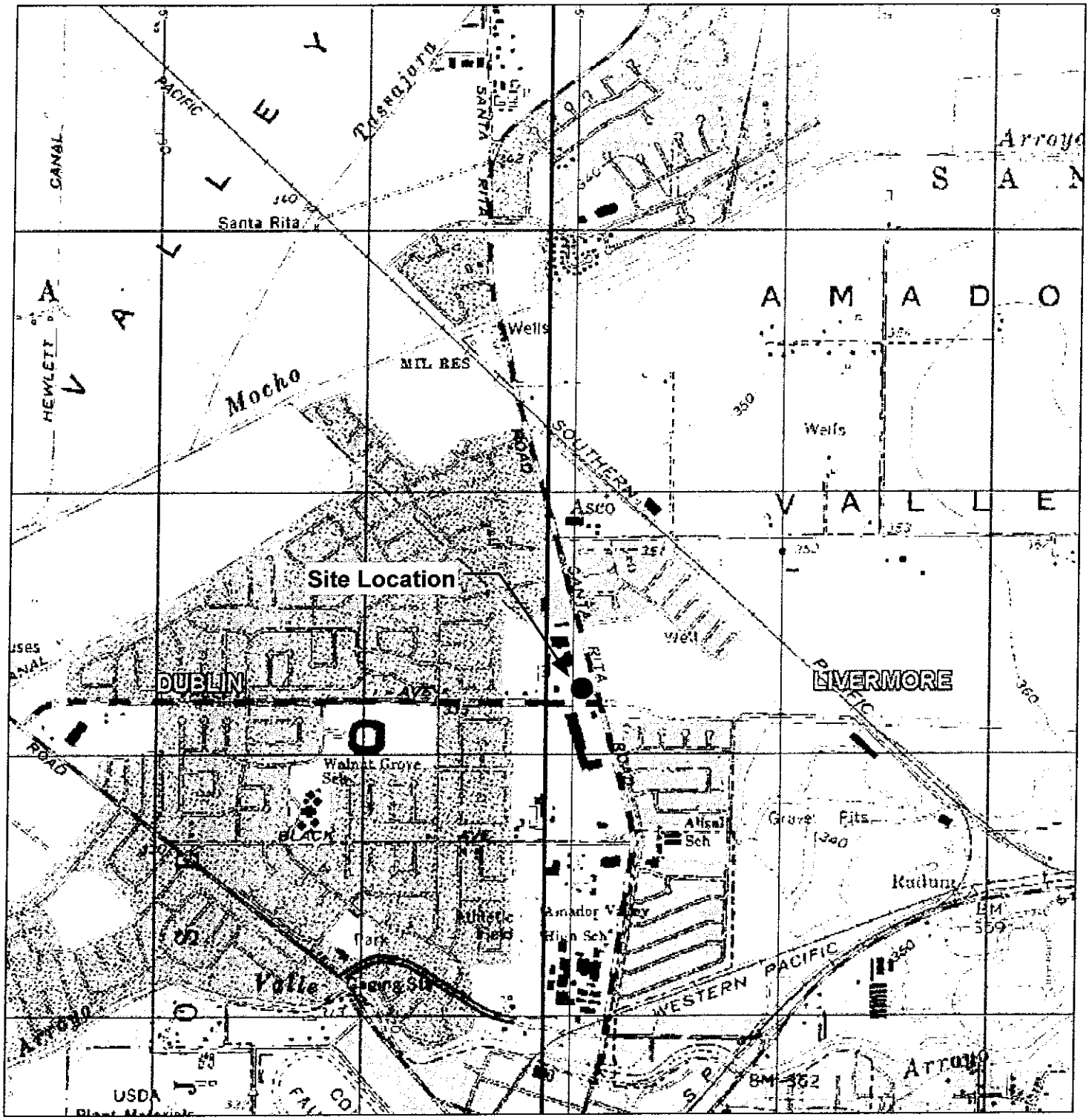
ATTACHMENT A

CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Table 1
Summary of Soil Analytical Data
Shell Service Station
1801 Santa Rita Road
Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Lead* (mg/kg)
Dispenser Samples													
D-1 @ 3'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**10.9**
D-2 @ 3.5'	11/15/2002	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**11.6**
D-3 @ 3.5'	11/15/2002	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**11.3**
D-4 @ 2.5'	11/15/2002	2.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**21.6**
Piping Trench Samples													
P-1 @ 3.5'	11/15/2002	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**19.5**
P-2 @ 3.0'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**8.33**
P-3 @ 5.0'	11/15/2002	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**6.73**
P-4 @ 3.0'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**12.5**
P-5 @ 4.0'	11/15/2002	4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**10.7**
P-6 @ 3.0'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**10.5**
P-7 @ 3'	11/15/2002	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	**12.4**
Soil Stockpile Samples													
Composite A	11/19/2002	-	**4.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite B	11/19/2002	-	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite C	11/19/2002	-	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite D	11/19/2002	-	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite ABCD	11/19/2002	-	NA	<0.005	<0.005	<0.005	**0.0088**	<0.5	<0.5	<0.5	<0.5	<0.5	**10.2**
RBSLs		-	NE	0.045	2.5	2.6	1.0	0.028	NE	NE	NE	NE	1000

Notes:
RBSL = Risk based screening level components for soil set by the California Regional Water Quality Control Board
All analysis performed by EPA Method 8260B
mg/kg = milligrams per kilogram
TPH-G = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
TBA = Tert-Butanol
NA = Not analyzed
NE = Not established
<n = Below the laboratory detection limit
* = See Certified Analytical Report for entire suite of metals results



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

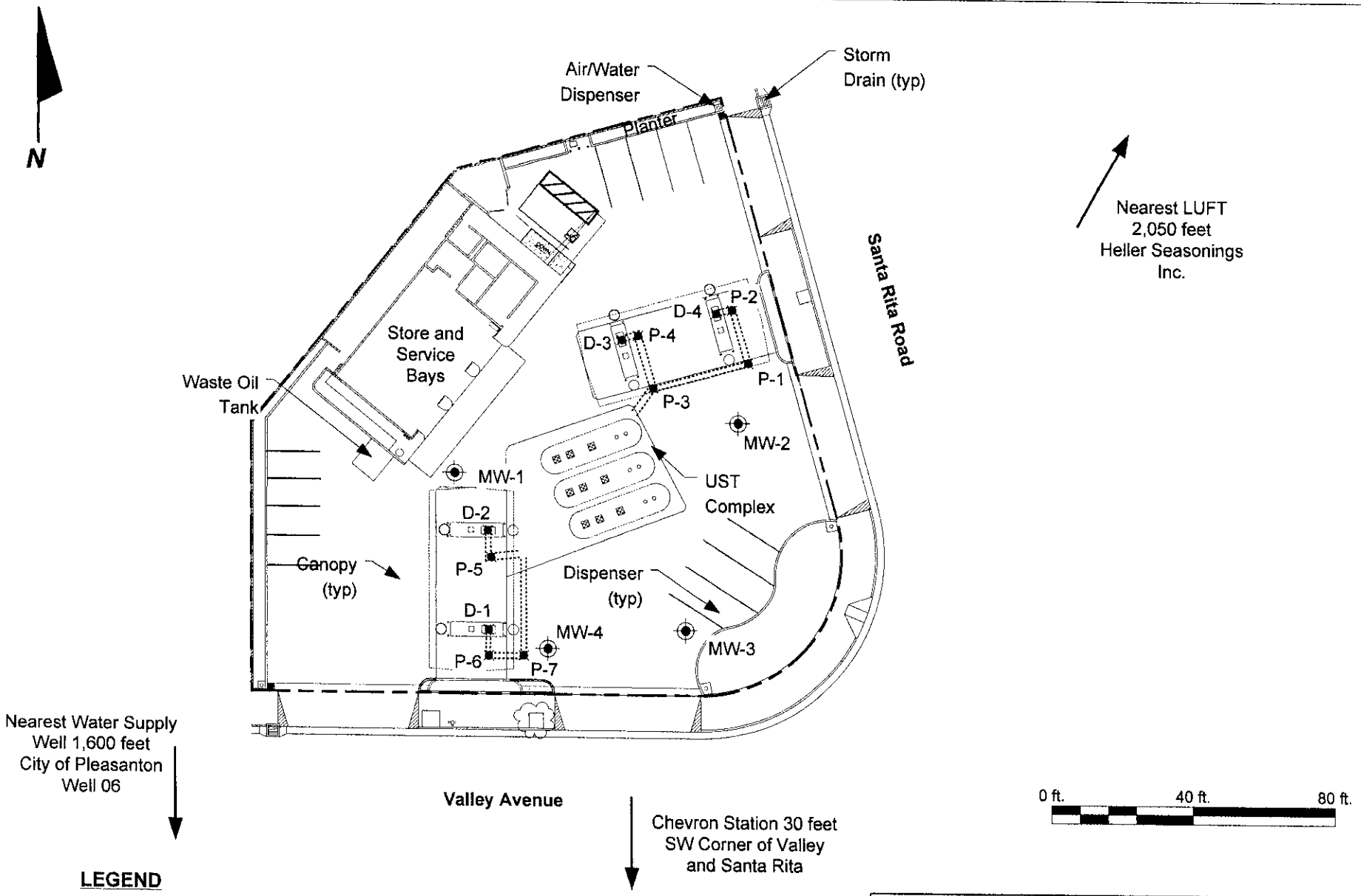
0 1,800 3,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2004	DRAWN BY VF 10/23/03
FILE NO. SJ18-01S-G.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.



LEGEND

MW-1 **GROUNDWATER MONITORING WELL**

PIPING TRENCH

DISPENSER AND PIPING SOIL SAMPLE LOCATION

FIGURE 2
SOIL SAMPLE LOCATION MAP

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

PROJECT NO. SJ18-01S-G.2004	DRAWN BY VF 10/23/03
FILE NO. SJ18-01S-G.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta Environmental Consultants, Inc.

ATTACHMENT A

CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Janet Yantis
KHM Environmental Management
6284 San Ignacio Avenue, Suite E
San Jose, CA

Subject : 11 Soil Samples
Project Name : 1801 Santa Rita Road, Pleasanton, CA
Project Number : C85-1801 Santa Rita-
P.O. Number : SAP# 135783

Dear Ms. Yantis,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-1 @3.0'** Matrix : Soil Lab Number : 29879-01
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-2 @3.5'** Matrix : Soil Lab Number : 29879-02
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	85.1		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-3 @3.5'** Matrix : Soil Lab Number : 29879-03
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **D-4 @2.5'** Matrix : Soil Lab Number : 29879-04
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-1 @3.5'** Matrix : Soil Lab Number : 29879-05
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-2 @3.0'** Matrix : Soil Lab Number : 29879-06
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-3 @5.0'** Matrix : Soil Lab Number : 29879-07
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-4 @3.0'** Matrix : Soil Lab Number : 29879-08
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-5 @4.0'** Matrix : Soil Lab Number : 29879-09
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-6 @3.0'** Matrix : Soil Lab Number : 29879-10
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/21/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/21/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/21/02
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	11/21/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita-**

Sample : **P-7 @3'** Matrix : Soil Lab Number : 29879-11
Sample Date :11/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	111		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	88.8		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

Report Number : 29879

Date : 11/23/02

QC Report : Method Blank Data

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

Project Number : **C85-1801 Santa Rita-**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/02
Toluene - d8 (Surr)	109		%	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	88.2		%	EPA 8260B	11/21/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 29879

Date : 11/23/02

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

Project Number : **C85-1801 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	29879-11	<0.0050	0.0382	0.0380	0.0318	0.0317	mg/Kg	EPA 8260B	11/21/02	83.3	83.5	0.240	70-130	25
Toluene	29879-11	<0.0050	0.0382	0.0380	0.0299	0.0284	mg/Kg	EPA 8260B	11/21/02	78.3	74.6	4.81	70-130	25
Tert-Butanol	29879-11	<0.0050	0.191	0.190	0.158	0.142	mg/Kg	EPA 8260B	11/21/02	82.5	74.8	9.82	70-130	25
Methyl-t-Butyl Ether	29879-11	<0.0050	0.0382	0.0380	0.0311	0.0320	mg/Kg	EPA 8260B	11/21/02	81.4	84.1	3.32	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Laboratory Control Sample (LCS)

Report Number : 29879
Date : 11/23/02

Project Name : **1801 Santa Rita Road,**
Project Number : **C85-1801 Santa Rita-**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0382	mg/Kg	EPA 8260B	11/21/02	97.2	70-130
Toluene	0.0382	mg/Kg	EPA 8260B	11/21/02	95.6	70-130
Tert-Butanol	0.191	mg/Kg	EPA 8260B	11/21/02	86.2	70-130
Methyl-t-Butyl Ether	0.0382	mg/Kg	EPA 8260B	11/21/02	87.2	70-130

Approved By: Joel Kiff

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

Calscience Environmental Laboratories, Inc.

November 25, 2002

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

Subject: **Calscience Work Order No.: 02-11-1253**
Client Reference: 1801 Santa Rita Road, Pleasanton

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/21/2002 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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

Date Received: 11/21/02
Work Order No: 02-11-1253
Preparation: Total Digestion
Method: EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-1@3.0'	02-11-1253-1	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	10.9	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-2@3.5'	02-11-1253-2	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	11.6	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-3@3.5'	02-11-1253-3	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	11.3	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-4@2.5'	02-11-1253-4	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	21.6	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-1@3.5'	02-11-1253-5	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	19.5	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2@3.0'	02-11-1253-6	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	8.33	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-3@5.0'	02-11-1253-7	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	8.73	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-4@3.0'	02-11-1253-8	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	12.5	0.5	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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

Date Received: 11/21/02
Work Order No: 02-11-1253
Preparation: Total Digestion
Method: EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-5@4.0'	02-11-1253-9	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	10.7	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-6@3.0'	02-11-1253-10	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	10.5	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-7@3'	02-11-1253-11	11/15/02	Solid	11/21/02	11/22/02	021121L05

Parameter	Result	RL	DF	Qual	Units
Lead	12.4	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-3,813	N/A	Solid	11/21/02	11/21/02	021121L05

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical		Date Received:	11/21/02
2795 2nd Street, Suite 300		Work Order No:	02-11-1253
Davis, CA 95616-6593		Preparation:	Total Digestion
		Method:	EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
02-11-1274-1	Solid	ICP 3300	11/21/02	11/22/02	021121S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	100	99	75-125	1	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Date Received: 11/21/02
Work Order No: 02-11-1253
Preparation: Total Digestion
Method: EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,813	Solid	ICP 3300	11/21/02	021121-05	021121L05

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Lead	50.0	48.2	96	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-11-1253

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-[1][1]-[1][2][5][3]

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFT DATE: 11/21/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

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

Initial: _____

CUSTODY SEAL INTACT:

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

Initial: _____

SAMPLE CONDITION:

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

Initial: _____

COMMENTS:

KIFF ANALYTICAL LLC
2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

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

Lab No. 1253 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to):	Joel Kiff
Company/Address:	Kiff Analytical, LLC
Phone No.:	FAX No.:
Project Number:	CB5-1801 Santa Rita-JM
P.O. No.:	29879
Project Name:	1801 Santa Rita Road, Pleasanton
Project Address:	

EDF Report? X Yes __ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:	KHMS
Global ID:	pending
EDF Deliverable to (Email Address):	inbox@kiffanalytical.com
E-mail address:	inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Preservative: Other	Matrix: WATER	Matrix: SOIL	Matrix: Other	Analysis Request: LEAD	Analysis Request:	Analysis Request:	Analysis Request:	Analysis Request:	Analysis Request:	Analysis Request:	Analysis Request:	Date Due: November 26, 2002	For Lab Use Only
D-1 @3.0'	11/15/02	1032	1							X				X		X								X	
D-2 @3.5'	11/15/02	1010	1							X				X		X								X	
D-3 @3.5'	11/15/02	953	1							X				X		X								X	
D-4 @2.5'	11/15/02	941	1							X				X		X								X	
P-1 @3.5'	11/15/02	920	1							X				X		X								X	
P-2 @3.0'	11/15/02	932	1							X				X		X								X	
P-3 @5.0'	11/15/02	942	1							X				X		X								X	
P-4 @3.0'	11/15/02	957	1							X				X		X								X	
P-5 @4.0'	11/15/02	1015	1							X				X		X								X	
P-6 @3.0'	11/15/02	1025	1							X				X		X								X	
P-7 @3'	11/15/02	1035	1							X				X		X								X	

Relinquished by: Kiff Analytical	Date 11/20/02	Time 1700	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 11/21/02	Time 0700	Received by Laboratory:

Remarks:
SAP# 135783
Bill to:

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING

☑ TECHNICAL SERVICES Jim Martin

☐ CRMT HOUSTON

29879

INCIDENT NUMBER (S&E ONLY):

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

DATE: 11/19/02

PAGE: 1 of 2

SAMPLING COMPANY: KHM Environmental Mangement

LOG CODE: KHMS

SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton, CA

GLOBAL ID NO.:

ADDRESS: 6284 San Ignacio Ave., San Jose, CA 95119

EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer

PHONE NO.: (408) 224-4724

E-MAIL: vbrower@khm1.com

CONSULTANT PROJECT NO.: C85-1801 Santa Rita JM

PROJECT CONTACT (Hardcopy or PDF Report to): Janet Yantis

TELEPHONE: (408) 224-4724

FAX: (408) 224-4518

E-MAIL: jyantis@khm1.com

SAMPLER NAME(S) (Print): Garrett Haertel

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☑ 24 HOURS JG ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48- Lead)	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	D-1 @ 3.0'	11/15/02	1032	S	1	X	X			X												X				-01
	D-2 @ 3.5'		1010																							-02
	D-3 @ 3.5'		953																							-03
	D-4 @ 2.5'		941																							-04
	P-1 @ 3.5'		920																							-05
	P-2 @ 3.0'		932																							-06
	P-3 @ 5.0'		942																							-07
	P-4 @ 3.0'		957																							-08
	P-5 @ 4.0'		1015																							-09
	P-6 @ 3.0'		1025																							-10

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

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

Relinquished by: (Signature) _____ Received by: (Signature) John Cuttle/Kiff Analytical Date: 111902 Time: 1124

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10/16/00 Revision

Q&Q Graphic (714) 898-9702

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING
☑ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jim Martin

29879

INCIDENT NUMBER (S&E ONLY):

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/19/02

PAGE: 2 of 2

SAMPLING COMPANY: KHM Environmental Mangement

LOG CODE: KHMS

SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton, CA

GLOBAL ID NO.:

ADDRESS: 6284 San Ignacio Ave., San Jose, CA 95119

EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer

PHONE NO.: (408) 224-4724

E-MAIL: vbrower@khm1.com

CONSULTANT PROJECT NO.: C85-1801 Santa Rita JM

PROJECT CONTACT (Hardcopy or PDF Report to): Janet Yantis

TELEPHONE: (408) 224-4724

FAX: (408) 224-4518

E-MAIL: jyantis@khm1.com

SAMPLER NAME(S) (Print): Garrett Haertel

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48- ____	Lead	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°
	P-7 @ 3'	11/15/02	1035	S	1	X	X			X												X				-11

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

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received by: (Signature) John Cuttle / Kiff Analytical

Date: 11/19/02 Time: 1124

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

KIFF ANALYTICAL LLC

Report Number : 29898
Date : 11/21/02

Janet Yantis
KHM Environmental Management
6284 San Ignacio Avenue, Suite E
San Jose, CA

Subject : 5 Soil Samples
Project Name : 1801 Santa Rita Road, Pleasanton, CA
Project Number : C85-1801 Santa Rita
P.O. Number : SAP# 135783

Dear Ms. Yantis,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 29898
Date : 11/21/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita**

Sample : **Composite A** Matrix : Soil Lab Number : 29898-01
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**4.7**	1.0	mg/Kg	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	93.1		% Recovery	EPA 8260B	11/21/02

Sample : **Composite B** Matrix : Soil Lab Number : 29898-02
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	11/21/02

Sample : **Composite C** Matrix : Soil Lab Number : 29898-03
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	87.2		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 29898
Date : 11/21/02

Project Name : **1801 Santa Rita Road, Pleasanton, CA**
Project Number : **C85-1801 Santa Rita**

Sample : **Composite D** Matrix : Soil Lab Number : 29898-04
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	11/21/02
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	11/21/02

Sample : **Composite A,B,C,D** Matrix : Soil Lab Number : 29898-05
Sample Date :11/19/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	**0.0088**	0.005	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	**< 0.5**	0.5	mg/Kg	EPA 8260B	11/20/02
Toluene - d8 (Surr)	115		% Recovery	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	92.6		% Recovery	EPA 8260B	11/20/02

Approved By: Joel Kiff

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

QC Report : Method Blank Data

Report Number : 29898

Date : 11/21/02

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

Project Number : **C85-1801 Santa Rita**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/20/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/20/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/20/02
4-Bromofluorobenzene (Surr)	87.8		%	EPA 8260B	11/20/02
Toluene - d8 (Surr)	103		%	EPA 8260B	11/20/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 29898

Date : 11/21/02

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

Project Number : **C85-1801 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	29898-01	<0.0050	0.100	0.100	0.0925	0.0946	mg/Kg	EPA 8260B	11/20/02	92.5	94.6	2.24	70-130	25
Toluene	29898-01	<0.0050	0.100	0.100	0.0962	0.0968	mg/Kg	EPA 8260B	11/20/02	96.2	96.8	0.648	70-130	25
Tert-Butanol	29898-01	0.044	0.500	0.500	0.539	0.510	mg/Kg	EPA 8260B	11/20/02	98.9	93.2	5.92	70-130	25
Methyl-t-Butyl Ether	29898-01	0.030	0.100	0.100	0.123	0.118	mg/Kg	EPA 8260B	11/20/02	93.5	88.7	5.30	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Laboratory Control Sample (LCS)

Report Number : 29898
Date : 11/21/02

Project Name : **1801 Santa Rita Road,**
Project Number : **C85-1801 Santa Rita**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0390	mg/Kg	EPA 8260B	11/20/02	95.1	70-130
Toluene	0.0390	mg/Kg	EPA 8260B	11/20/02	99.4	70-130
Tert-Butanol	0.195	mg/Kg	EPA 8260B	11/20/02	90.7	70-130
Methyl-t-Butyl Ether	0.0390	mg/Kg	EPA 8260B	11/20/02	88.7	70-130

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

Approved By: Joel Kiff

Calscience
Environmental
Laboratories, Inc.

November 21, 2002

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

Subject: **Calscience Work Order No.: 02-11-1250**
Client Reference: 1801 Santa Rita Road, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/21/2002 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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

Date Received: 11/21/02
Work Order No: 02-11-1250
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 1801 Santa Rita Road, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite A,B,C,D	02-11-1250-1	11/19/02	Solid	11/21/02	11/21/02	021121L02

Comment(s): Mercury was analyzed on 11/21/2002 3:25:30 PM with batch 021121L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	5.46	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	144	0.500	1		mg/kg	Nickel	76.1	0.2	1		mg/kg
Beryllium	0.282	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	47.5	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	11.7	0.2	1		mg/kg	Vanadium	24.6	0.2	1		mg/kg
Copper	32.1	0.5	1		mg/kg	Zinc	69.8	1.0	1		mg/kg
Lead	10.2	0.5	1		mg/kg						

Method Blank	099-04-007-1,734	N/A	Solid	11/21/02	11/21/02	021121L01

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.0835	1		mg/kg

Method Blank	097-01-002-3,812	N/A	Solid	11/21/02	11/21/02	021121L02

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel	ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver	ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium	ND	0.250	1		mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc	ND	1.00	1		mg/kg
Copper	ND	0.500	1		mg/kg	Lead	ND	0.500	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Date Received: 11/21/02
Work Order No: 02-11-1250
Preparation: Total Digestion
Method: EPA 6010B

Project: 1801 Santa Rita Road, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,612	Solid	ICP 3300	11/21/02	021121-I-02	021121L02

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony	50.0	49.4	99	80-120	
Arsenic	50.0	50.0	100	80-120	
Barium	50.0	53.6	107	80-120	
Beryllium	50.0	50.5	101	80-120	
Cadmium	50.0	51.7	103	80-120	
Chromium (Total)	50.0	50.1	100	80-120	
Cobalt	50.0	55.4	111	80-120	
Copper	50.0	50.7	101	80-120	
Lead	50.0	50.9	102	80-120	
Molybdenum	50.0	53.3	107	80-120	
Nickel	50.0	51.9	104	80-120	
Selenium	50.0	47.1	94	80-120	
Silver	25.0	23.7	95	80-120	
Thallium	50.0	51.0	102	80-120	
Vanadium	50.0	48.1	96	80-120	
Zinc	50.0	53.5	107	80-120	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Project: 1801 Santa Rita Road, Pleasanton, CA

Date Received: 11/21/02
Work Order No: 02-11-1250
Preparation: Total Digestion
Method: EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-1,734	Solid	Mercury	11/21/02	021121-L01	021121L01

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.835	0.892	107	82-124	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-11-1250

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-11-1250

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff DATE: Kiff 11/21/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

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

Initial: [illegible]

CUSTODY SEAL INTACT:

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

Initial: [illegible]

SAMPLE CONDITION:

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

Initial: [illegible]

COMMENTS:

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

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

Lab No. 1250 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff	EDF Report? __ Yes _X_No
Company/Address: Kiff Analytical, LLC	Recommended but not mandatory to complete this section:
Phone No.:	FAX No.:
Project Number: C85-1801 Santa Rita	P.O. No.: 29898
Project Name: 1801 Santa Rita Road, Pleasanton, CA	
Project Address:	

Sampling Company Log Code:
Global ID:
EDF Deliverable to (Email Address):
E-mail address: Inbox@kiffanalytical.com

Analysis Request — Date Due: November 21, 2002

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Preservative: Other	Matrix: WATER	Matrix: SOIL	Matrix: Other	CAM 17 METALS = TTLC METALS	STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM	TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS		IF ANY TTLC TOTAL METALS => OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED			For Lab Use Only
Composite A,B,C,D	11/19/02	11:10	1							X	X			X		X	X	X		X			X	

Relinquished by: Dave To-Kiff Analytical	Date 11/20/02	Time 1900	Received by:	Remarks: SAP# 135783
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 11/21/02	Time 0700	Received by Laboratory:	Bill to:

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

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

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING
☑ TECHNICAL SERVICES
☐ CRMT HOUSTON

Jim Martin

29898

INCIDENT NUMBER (S&E ONLY):

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

DATE: 11/19/02

PAGE: 1 of 1

SAMPLING COMPANY: KHM Environmental Mangement	LOG CODE: KHMS
ADDRESS: 6284 San Ignacio Ave., San Jose, CA 95119	
PROJECT CONTACT (Hardcopy or PDF Report to): Janet Yantis	
TELEPHONE: (408) 224-4724	FAX: (408) 224-4518
E-MAIL: jyantis@khm1.com	
TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☑ 24 HOURS ☐ LESS THAN 24 HOURS	
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:	
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____	
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑	
*See attached "Residual Management Procedure" for additional analyses, if necessary	

SITE ADDRESS (Street and City): 1801 Santa Rita Road, Pleasanton, CA	GLOBAL ID NO.:
EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer	PHONE NO.: (408) 224-4724
E-MAIL: vbrower@khm1.com	CONSULTANT PROJECT NO.: C85-1801 Santa Rita
SAMPLER NAME(S) (Print): Vera Fischer	LAB USE ONLY

REQUESTED ANALYSIS

LAB Use ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	CAM 17 METALS	TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°
	Composite A, B, C, D	11/198/02	11:10	soil	4	X	X			X												X				-01,02,03,04705

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

Relinquished by: (Signature)	Received by: (Signature)	Date: 11/19/02	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 112002	Time: 1112

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01
CANCELS ISSUE:
ISSUED BY: LRR

RESIDUAL STREAM: SOIL WITH UNLEADED GASOLINE
VENDOR: ALLIED-BFI
LOCATION: ALLIED WASTE - MANTECA
9999 SOUTH AUSTIN ROAD
MANTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

BTEX - EPA 8021B/8260B (IF BENZENE IS > OR = TO 10 MG/KG THEN TCLP BENZENE IS REQUIRED)

CAM METALS = TTLC METALS
STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM
TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS
IF ANY TTLC TOTAL METAL IS > OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED

TOTAL PETROLEUM HYDROCARBONS, METHOD 418.1 OR 8015

MTBE METHOD 8260B (GC/MS)

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TPH. AQUATIC BIOASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)
-ALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE
-ALL REQUIRED TESTS ON COMPOSITE
-LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS
-MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM

PROCEDURE ORIGINAL DATE: 08/01/01
PROCEDURE REVISED DATE: 08/01/01