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11:07 am, Aug 10, 2009

Alameda County Environmental Health

July 30, 2009 Project SCA5251H1A SAP #: 135785

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

Re: 2009 Well Installation Report Shell-branded Service Station 5251 Hopyard Road Pleasanton, California

Dear Mr. Wickham:

On behalf of Shell Oil Products US (Shell), Delta Consultants (Delta) has prepared this report to document the installation of two onsite groundwater monitoring wells (S-10 and S-12) and one offsite groundwater monitoring well (S-11) at the referenced site. The wells were installed in general accordance with Delta's *Revised Work Plan for the Installation of Monitoring Wells S-10 through S-12*, dated March 19, 2009, which was approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter to Shell dated March 27, 2009.

SITE DESCRIPTION

The subject site is located on the eastern corner at the intersection of Hopyard Road and Owen Drive in a primarily commercial area of Pleasanton, California (Figure 1). The facility consists of a station building, two rows of product dispenser islands, four underground storage tanks (USTs), and a car wash.

SCOPE OF WORK

On June 18 and 19, 2009, Delta installed three groundwater monitoring wells (S-10 through S-12) to further delineate the extent of groundwater contamination northwest (down-gradient), northeast (cross-gradient), and south (up-gradient) of the previous and current UST complexes.





July 30, 2009 2009 Well Installation Report 5251 Hopyard Road, Pleasanton, California Page 2

Pre-field

Prior to field activities, Delta obtained a drilling permit from the Zone 7 Water Agency, and confirmed a valid Access Agreement between Shell and the offsite property owner to the northeast. Copies of the permit and Access Agreement are presented as Appendix A. Prior to drilling, the borehole locations were marked for subsurface utility clearance, Underground Services Alert (USA) was notified a minimum of 48 hours before work began, and a private utility locating company was contracted to survey the boring locations for the presence of subsurface utilities. To further avoid damaging any existing subsurface utilities, each boring location was cleared to a depth of approximately 8 feet below ground surface (bgs) using an air-knife.

Well Installations

The borings for monitoring wells S-10 through S-12 were advanced using 8-inch diameter hollow-stem auger drilling equipment. Each boring was converted to a groundwater monitoring well by the installation 4-inch diameter polyvinyl chloride (PVC) well casing with 14 feet of 0.02-inch slotted screen placed from 6 to 20 feet bgs. A filter pack of # 2/12 sand was placed in the annular space from 20 to 5 feet bgs, followed by a seal consisting of approximately 1 foot of hydrated bentonite and 3 feet of cement. The top of each well was finished with a flush-mounted, traffic-rated a well vault box set in concrete dyed to match the existing surface material.

All down-hole drilling and sampling equipment was cleaned prior to use and between boring locations. All soils, water and debris generated during the well installation activities were stored onsite in Department of Transportation (DOT) rated, 55-gallon drums pending characterization and appropriate disposal.

Soil Sampling

Soil was collected continuously from each well boring between 8 and 20 feet bgs using a direct-push sampler with acetate liners. The soil types were logged by Delta field staff. Boring logs are presented in Appendix B.

Samples were cut from the acetate liners at approximate 5-foot depth intervals and field-screened using a photo-ionization detector (PID). None of the soil samples had a PID reading greater than 10 parts per million by volume (ppmv). A soil sample from the soil/groundwater interface in each well boring was retained for laboratory analyses. The retained samples were sealed with *Teflon* tape and tight fitting end caps and placed on ice for transport to a California State certified laboratory for analysis. The soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by Environmental Protection Agency (EPA) Method 8015B; and for benzene, toluene, ethylbenzene and total xylenes (BTEX compounds), methyl tert-butyl ether (MTBE); tert-amyl methyl ether (TAME), diisopropyl ether (DIPE); ethyl tert-butyl ether (ETBE), and tert-butyl alcohol (TBA) by EPA Method 8260B. Soil sample results are summarized in Table 1. The laboratory analytical report and chain of custody documentation is included in Appendix C.

Groundwater Sampling

On June 30, 2009, the new monitoring wells were developed by Blaine Tech Services, Inc. (Blaine) using a surge and bail technique. Each well was developed until a minimum of ten casing volumes were removed, groundwater quality parameters began to stabilize and a relative change in groundwater clarity was observed. The well development field data sheets are presented in Appendix D.

July 30, 2009 2009 Well Installation Report 5251 Hopyard Road, Pleasanton, California Page 3

Following development, the new wells were gauged and sampled by Blaine during the third quarter 2009 monitoring and sampling event on July 6, 2009. The groundwater samples were analyzed for total purgeable petroleum hydrocarbons (TPPH), BTEX compounds, MTBE, TAME, DIPE, ETBE and TBA by EPA Method 8260B. The groundwater analytical results are summarized in Table 2 and presented on Figure 2. The laboratory analytical report and chain of custody documentation is included in Appendix C. Field data sheets from Blaine are included in Appendix D.

Well Surveying

On June 25, 2009, wells S-10 through S-12 were surveyed for northings, eastings, latitude, longitude and elevation relative to mean sea level using both conventional survey techniques and GPS technology. The survey data will be uploaded to the California State GeoTracker database. The report from the California state licensed surveyor is included as Appendix E.

FINDINGS

The primary contaminants of concern (COC) beneath the Shell-branded service station are TPPH, benzene, MTBE, and TBA. With the exception of a very low concentration of MTBE (0.0059 milligrams per kilogram) in the soil sample collected from the S-12 well boring near the soil/groundwater interface at approximately 10 feet bgs, the COC, and additional chemicals tested during this event, were not detected at concentrations above the laboratory reporting limits in any of the soil analyzed. In groundwater, TPPH was detected in the samples collected from wells S-10 and S-12 at concentrations of 340 micrograms per liter (μ g/l) and 83 μ g/l, respectively. MTBE was only detected in the groundwater sample from Well S-12 at a concentration of 37 μ g/l. TBA was only detected in the groundwater sample from Well S-10 at a concentration of 5,100 μ g/l. Benzene and the other chemical analyzed were not detected in any of the groundwater samples from the three new wells.

Historically, the groundwater flow direction beneath the site has been variable. The COC concentrations in Well S-10 confirm that the predominant direction of groundwater flow is to the northwest. Well S-11 completes delineation of the plume to the northeast in the cross-gradient direction. The TPPH and MTBE concentrations in Well S-12 suggest that there is some migration of the plume in the up-gradient direction, which is most likely due to the variations in groundwater flow and the relatively flat gradient beneath the site.

REMARKS

The recommendations contained in this document represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This document 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 document were performed. This document is intended only for the use of Delta's Client and anyone else specifically listed on this document. 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 document.

July 30, 2009 2009 Well Installation Report 5251 Hopyard Road, Pleasanton, California Page 2

If you have any questions regarding this site, please contact Suzanne McClurkin-Nelson (Delta) at (408) 826-1875 or Mr. Denis Brown (Shell) at (707) 865-0251.

Sincerely,

DELTA CONSULTANTS

Cora Olson

Staff Engineer

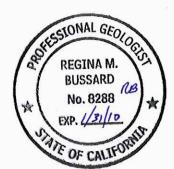
Suzanne McClurkin-Nelson

Rozain Emssons

Senior Project Manager

Regina Bussard, P.G.

Project Geologist



Attachments:

Figure 1 – Site Location Map

Figure 2 – Groundwater Hydrocarbon Concentration Map

Table 1 - Soil Analytical Data

Table 2 - Groundwater Analytical Data

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Appendix A - Permit and Access Agreement

Appendix B - Boring Logs and Field Data Sheets

Appendix C - Certified Analytical Reports with Chain-of-Custody Documentation

Appendix D - Blaine Tech Services, Inc. Field Data Sheets

Appendix E – Survey Report

cc: Denis Brown, Shell Oil Products US, Monte Rio

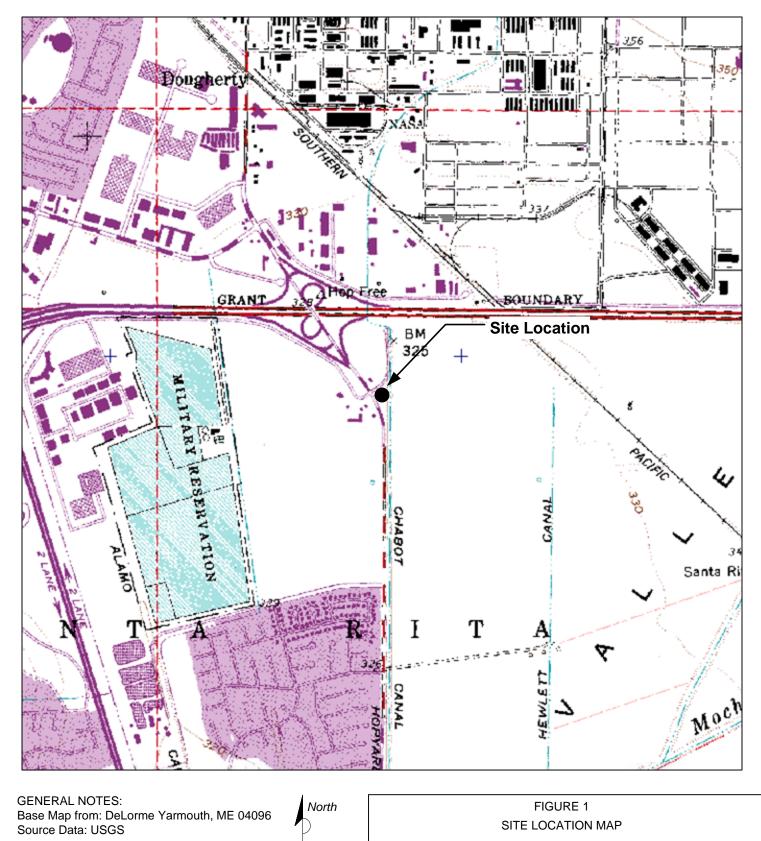
Matt Katen, Zone 7 Water District

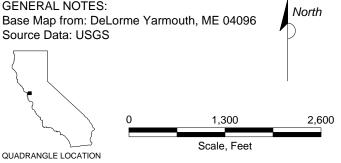
Colleen Winey, Zone 7 Water Agency, Livermore

Carl Cox, C and J Cox Corporation, Pleasanton

Danielle Stefani, Livermore-Pleasanton Fire Department, Pleasanton







SHELL-BRANDED SERVICE STATION 5251 Hopyard Road Pleasanton, California

PROJECT NO.	DRAWN BY
SCA5251H1A	V. F. 3/31/05
FILE NO.	PREPARED BY
	VF
REVISION NO.	REVIEWED BY



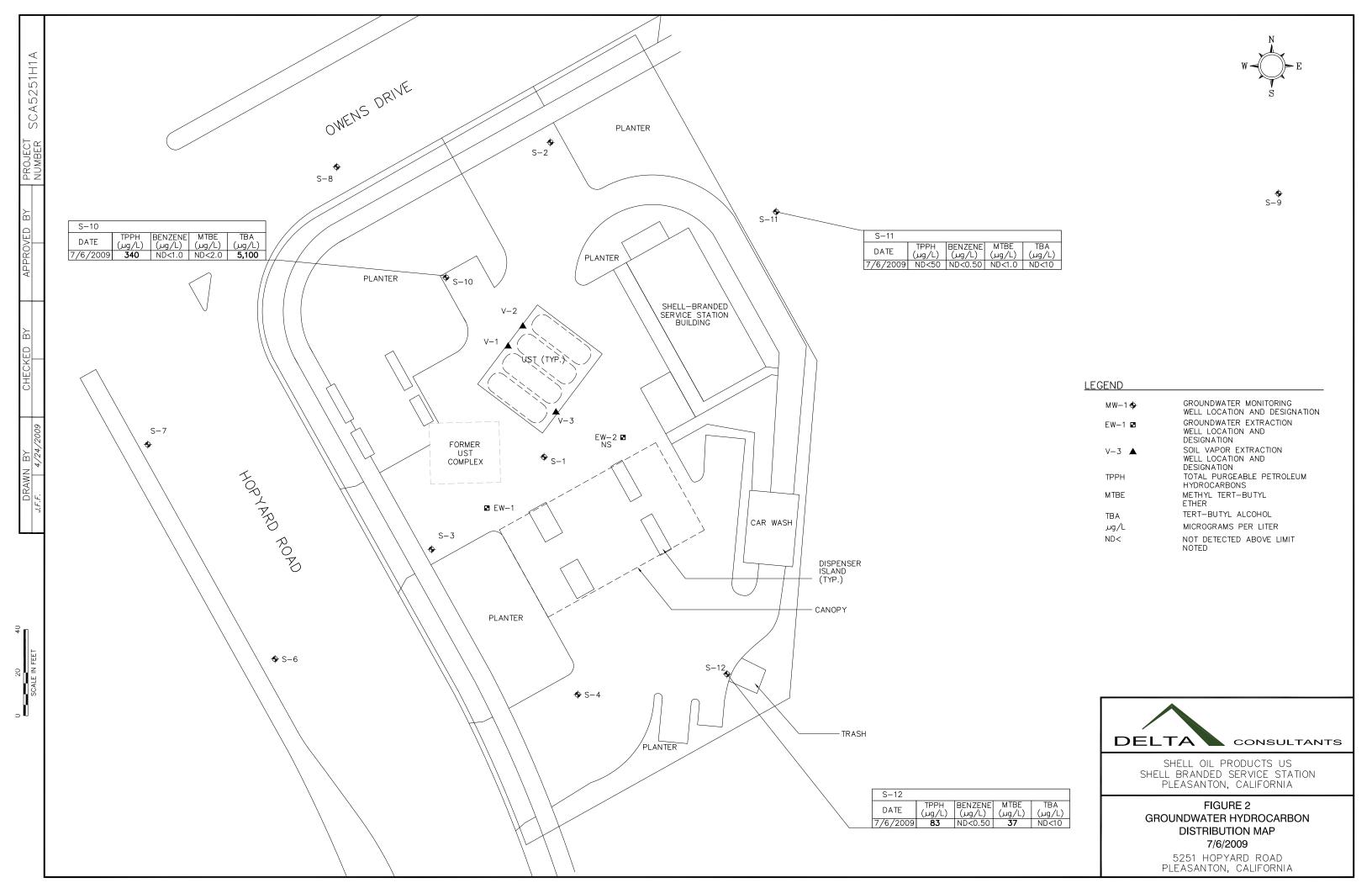




TABLE 1 SOIL ANALYTICAL DATA Shell-branded Service Station 5251 Hopyard Road Pleasanton, CA

Sample ID	Date Collected	TPH-G (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)
S-10 @10'	6/18/2009	<0.50	< 0.0050	<0.0050	<0.0050	<0.0050	<0.0050	< 0.050	<0.10	<0.10	<0.10
S-11 @10'	6/18/2009	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	< 0.050	<0.10	<0.10	<0.10
S-12 @10'	6/19/2009	<0.50	< 0.0050	<0.0050	<0.0050	<0.0050	0.0059	<0.050	<0.10	<0.10	<0.10

Abbreviations:

TPH-G = Total petroleum hydrocarbons calculated as gasoline by EPA Method 8015B.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl tertiary butyl ether by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

DIPE = Diisopropyl Ether by EPA Method 8260B

ETBE = Ethyl-tert-Butyl Ether by EPA Method 8260B

TAME = Tert-Amyl-Methyl Ether by EPA Method 8260B

mg/kg = milligrams per kilogram (parts per million)

<n = Below the specified detection limit

TABLE 2

GROUNDWATER ANALYTICAL DATA

Shell-branded Service Station 5251 Hopyard Road

Pleasanton, CA

Sample ID	Date Collected	TPH-G ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TBA ug/L	DIPE ug/L	ETBE ug/L	TAME ug/L
S-10	7/6/2009	340	<1.0	<2.0	<2.0	<2.0	<2.0	5,100	<4.0	<4.0	<4.0
S-11	7/6/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0
S-12	7/6/2009	83	<0.50	<1.0	<1.0	<1.0	37	<10	<2.0	<2.0	<2.0

Abbreviations:

TPH-G = Total petroleum hydrocarbons calculated as gasoline by EPA Method 8260B.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl tertiary butyl ether by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

DIPE = Diisopropyl Ether by EPA Method 8260B

ETBE = Ethyl-tert-Butyl Ether by EPA Method 8260B

TAME = Tert-Amyl-Methyl Ether by EPA Method 8260B

ug/L = micrograms per liter (parts per billion)

<n = Below the specified detection limit

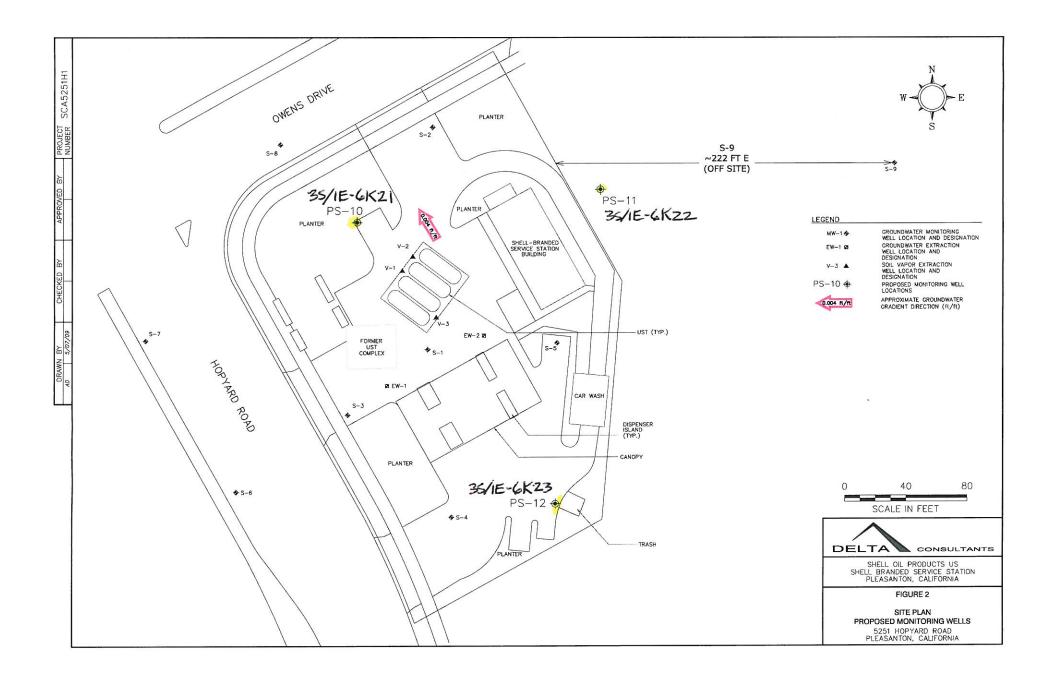
APPENDIX A PERMIT AND ACCESS AGREEMENT

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306 E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 5251 Hopyard Road Pleasantal, CA	
LOST-site well at 5900 Owens Drive	PERMIT NUMBER 29032 WELL NUMBER 3S/1E-6K21 to 6K23 (S-10 to S-12
Coordinates Sourceft. AccuracyVft. LAT: \(\frac{7041'54}{67''N} \) ft. LONG: \(\frac{12-054}{12-66''} \) ft. APN \(\frac{941-2774-1}{12-66''} \)	APN 941-2772-001-00 PERMIT CONDITIONS
	(Circled Permit Requirements Apply)
CLIENT Shell Oil Products US Address 20945 S. Wilmington Averhone 707 -864-1617 City Carson Zip 90810 APPLICANT DI C. D. II. C. D. II.	GENERAL A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well
Name Coru Ulson for Delta CONSULTANTS Email COLSO NO Cle La env. Com Fax 408-225-806 Address 312 Precey Road Phone 408-826-1877	Drillers Report (DWR Form 188), signed by the driller. 3. Permit is void if project not begun within 90 days of approval date.
City San Soce Zip 95 38 TYPE OF PROJECT: Well Construction 9 Geotechnical Investigation 9 Well Destruction 9 Contamination Investigation 9 Cathodic Protection 9 Other 9 PROPOSED WELL USE: Domestic 9 Irrigation 9 Municipal 9 Remediation 9 Industrial 9 Groundwater Monitoring 9	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.
Dewatering 9 Other 9 DRILLING METHOD: Mud Rotary 9 Air Rotary 9 Hollow Stem Auger 9 Cable Tool 9 Direct Push 9 Other 9 DRILLING COMPANY RSI Drilling DRILLER'S LICENSE NO. 80 2 3 3 4	 GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. Grout placed by tremie.
WELL SPECIFICATIONS: Drill Hote Diameter 10 in. Maximum Casing Diameter 1 in. Depth 20 ft. Surface Seal Depth 6 ft. Number 3 well 5	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.
SOIL BORINGS: Number of Borings Maximum Hole Diameter in. Depth ft.	E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
ESTIMATED STARTING DATE 6/16/09 ESTIMATED COMPLETION DATE 6/17/09	F. WELL DESTRUCTION. See attached.
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No 73-68.	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.
APPLICANT'S APPLICANT'S Date 5 7 09	Approved Wyman Hong Date 5/27/09



May 12, 2009

Re:

Request for Access to Property Located at

5900 Owens Drive Pleasanton, California

The undersigned has reviewed your request and hereby consents to the entry by Shell Oil Products US upon its property for the purpose of performing the work described herein. The undersigned understands that it may be prevented from using a portion of its property and agrees to the minor disruption of the normal use of the premises as described.

The undersigned further represents and warrants that it is the owner of the property located at 4900 Owens Drive in Pleasanton, California, with full authority to provide the consent given above. You ARE ASKED TO INFORM US TWO DISCRETE YOR WORK TO BEGIN! PLS CALL

Northern California DL

Northern California Di 4780 Chabot Drive Pleasanton, CA 94588

By Northern California DL, its general partner

Date:

ADDENDUM

Request for Access to Property Located at 5900 Owens Drive, Pleasanton California

DESCRIPTION OF FIELD ACTIVITIES Proposed for May 2009

SUMMARY

Field activities are to include (1) marking of the boring location PMW-11 (see attached site map), (2) clearing the boring location for public utilities by Underground Services Alert (USA) and onsite by a private subsurface utility location company, (3) air-knife excavation of the boring location to approximately 8 feet below ground surface, (4) advancement of one boring to a depth of approximately 25 feet, (5) completion of the boring as a groundwater monitoring well, and (6) development and sampling of the well, which will be added to the quarterly sampling program.

DETAILS

Notification of the scheduled field date(s) will be made at least 10 days prior to the field event. A minimum of 48 hours prior to drilling, the PMW-11 boring location will be marked with white paint at a location approved by the property owner. This event should require 15 to 30 minutes.

Various local utility companies will arrive on site prior to the scheduled field event to verify the location or absence of subsurface utilities in the vicinity of the proposed boring location. Each utility representative should be on site for no more than 15 minutes.

A representative of Delta Consultants will be on site with a subsurface utility location company prior to drilling to evaluate the potential for subsurface utilities in the vicinity of the proposed boring. This event should take no more than 30 minutes.

The first day of field activities, a representative of Delta Consultants will arrive with a contracted drilling company to pre-excavate of the boring location to a depth of 8 feet using air-knife technology to minimize potential damage to undetected subsurface utilities. The excavated location will be backfilled to eliminate hazards prior to drilling the next day. This activity is expected to require approximately 2-3 hours.

The second day on site, a representative of Delta Consultants will arrive with a contracted drilling company to advance a 10-inch diameter boring to a depth of 25 feet. A groundwater monitoring well will be installed in the bore hole. The top of the monitoring well will be finished flush with the surface, with a well vault set in concrete dyed black to match the surrounding asphalt. All debris generated during field activities will be placed in closed 55-gallon steel drums, labeled, and stored onsite at the Shell station for characterization and offsite removal.

A minimum of 72 hours after completion of the well, a subcontractor will arrive to develop the well (remove several gallons of groundwater). This event should take no more than one hour and may be combined with the next scheduled quarterly monitoring and sampling event. On a quarterly basis (4 times a year), a well sampling company will visit the well location to collect groundwater samples. This event should take no more than one hour.

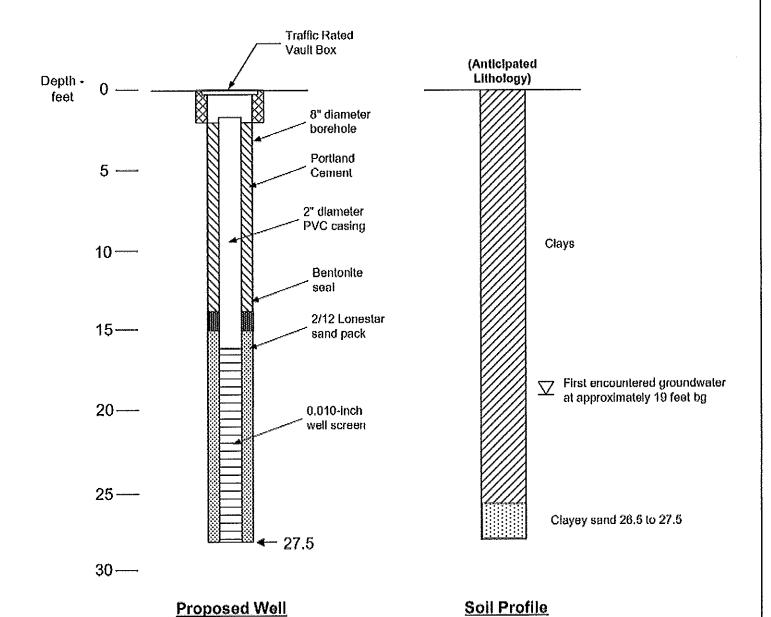
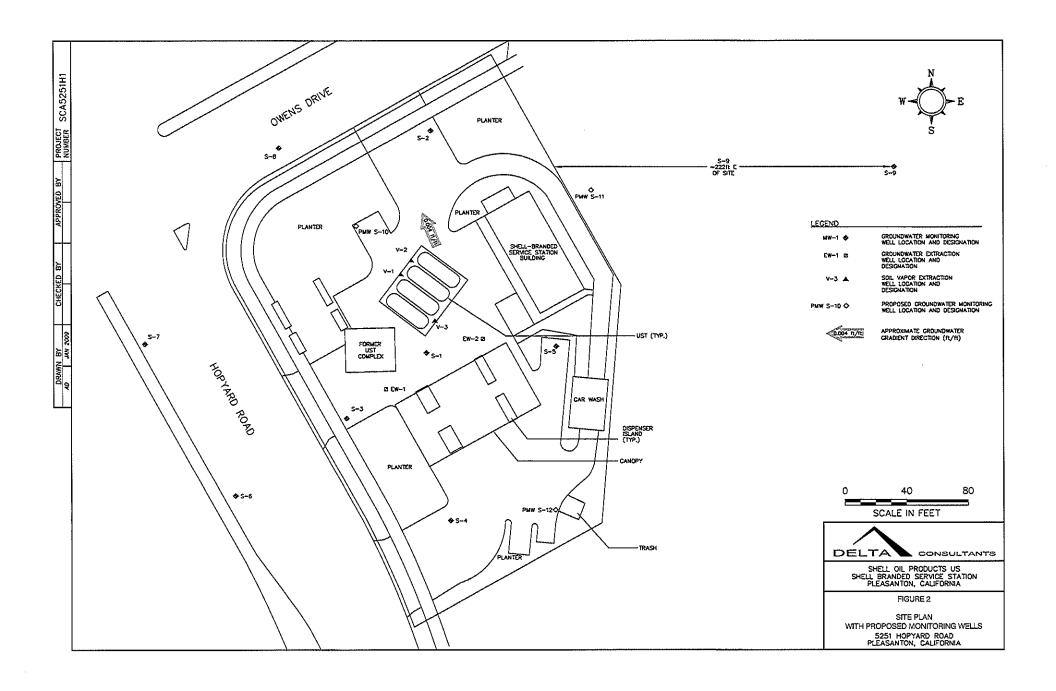


FIGURE 1 TYPICAL WELL DETAILS

5251 Hopyard Road Dublin, California

PROJECT NO.	DRAWN BY
9J5251H-1	JL 07/07/05
FILE NO.	PREPARED BY
8J5251H-1	HB
REVISION NO.	REVIEWED BY





Mr. and Mrs. George and Luna Dai 27073 Horseshoe Lane Los Altos Hills, CA

Re: Request for Access to Property Located at 5900 Owens Drive Pleasanton, California

Dear Property Owner:

As a result of an ongoing environmental assessment at the Shell-branded service station located at 5251 Hopyard Road, Pleasanton, California, Shell Oil Products US (Shell) has been advised that there may be hydrocarbons (gasoline, oil, etc.) in or about your property located at 5900 Owens Drive, Pleasanton, California in the vicinity of the service station. Therefore, on behalf of Shell, we request permission to enter your property and perform the work outlined below to determine if hydrocarbons originating from the Shell-branded service station are present and remediate such hydrocarbons as may be required by applicable law.

The work to be performed may include the installation of monitoring well(s) and periodic monitoring of such wells, tests, inspections, borings, engineering studies, surveys, appraisals, environmental studies, remediation operations and/or other activities that Shell deems necessary to comply with all applicable federal, state and local statutes, regulations, ordinances, directives, orders and standards governing underground storage tank systems and the assessment or remediation of petroleum hydrocarbons. Any monitoring wells we install will be capped at grade level per the attached typical installation drawing (Figure 1). Currently, two (2) small diameter, adjacent soil borings are proposed at the location indicated on the attached site map (Figure 2).

A licensed contractor retained by Shell will perform the above work. This work is being performed on behalf of Shell to comply with the environmental requirements of the State of California.

The work may result in minor disruptions of the normal use of your property. The property will be restored to its approximate former condition as soon as possible after we have ascertained if hydrocarbons from the Shell-branded service station are present and, to the extent required, such hydrocarbons have been remediated. Shell agrees to defend indemnify, and hold harmless you and your partners, officers, employees and other representatives from any and all claims by third parties arising out of the contamination or the work performed by Shell under this agreement.

(j.1)

Please sign both copies of this letter to signify your consent, and return one signed copy with the attachments to Delta in the enclosed stamped envelope. Please keep the other copy for your files.

We appreciate your cooperation in this matter and would appreciate your timely response. If you have any questions, please call Lee Dooley of Delta Environmental Consultants, Inc. at (408) 224-4724.

Very truly yours,

SHELL OIL PRODUCTS US

Denis Brown, Environmental Engineer

The undersigned has reviewed your request and hereby consents to the entry by Shell Oil Products US upon its property for the purpose of performing the work described herein. The undersigned understands that it may be prevented from using a portion of its property and agrees to the minor disruption of the normal use of the premises as described.

The undersigned further represents and warrants that it is the owner of the property located at 5900 Owens Drive, Pleasanton, California, with full authority to provide the consent given above.

George and Luna Dai 27073 Horseshoe Lane Los Altos Hills, CA 94022

By George or Luna Dai

 $\mathbf{R}_{\mathbf{V}^{*}}$

Date

Attachments (2):

Figure 1 – Typical Well Details

Figure 2 – Site Map (showing Proposed Soil Boring Location)

JD-

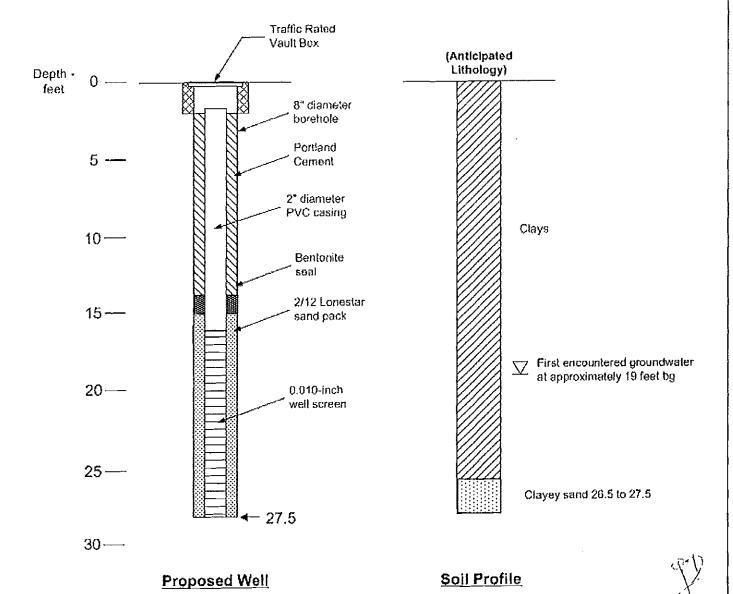
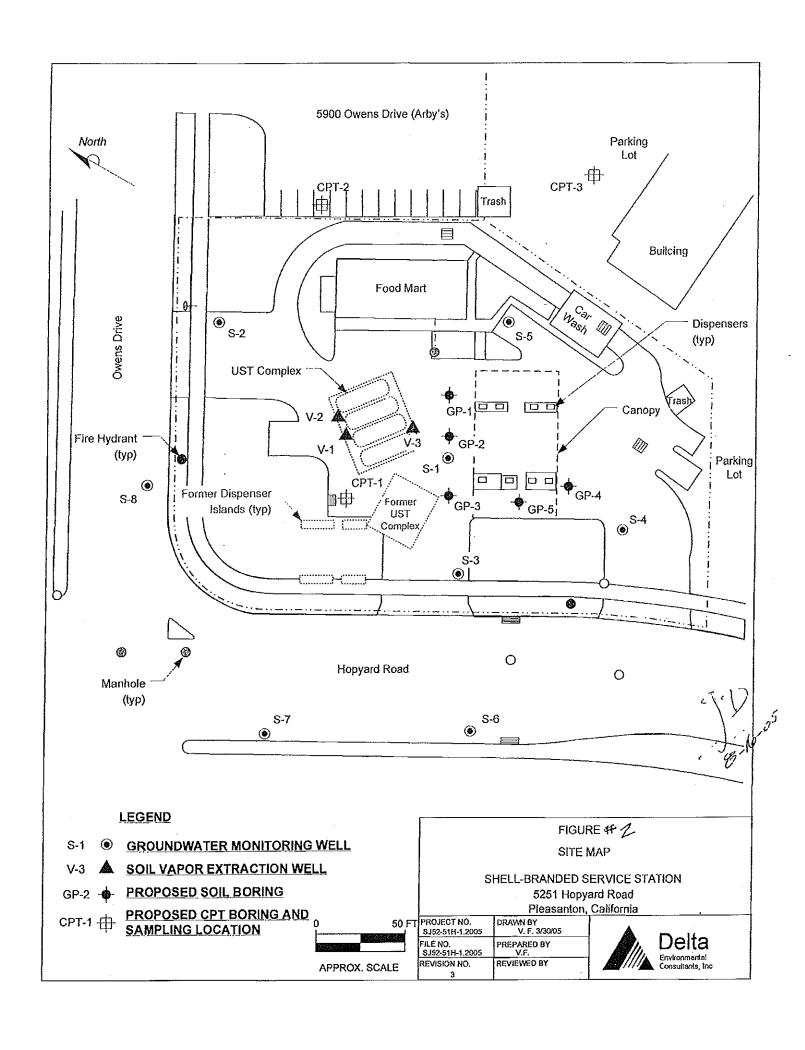


FIGURE 1
TYPICAL WELL DETAILS

5251 Hopyard Road Dublin, California

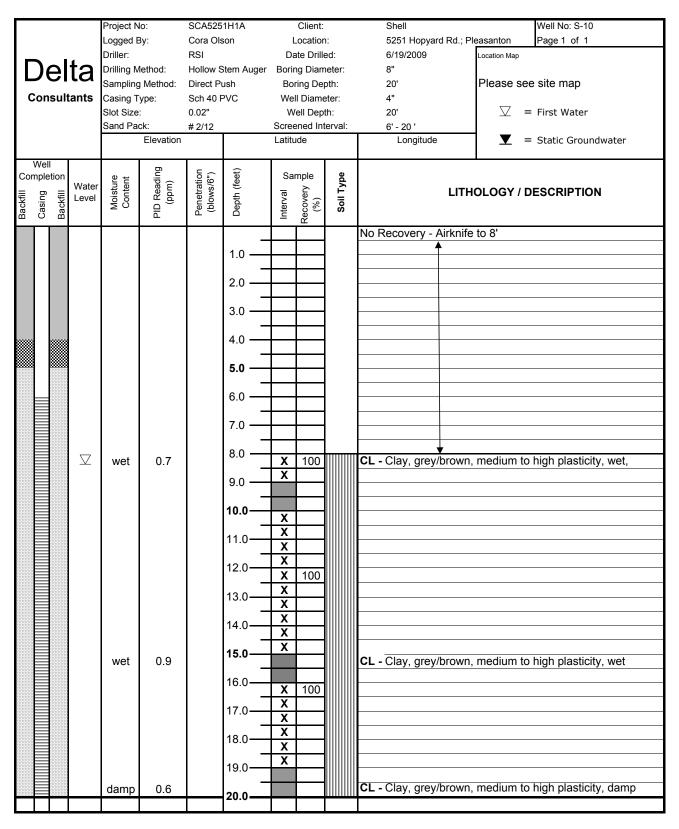
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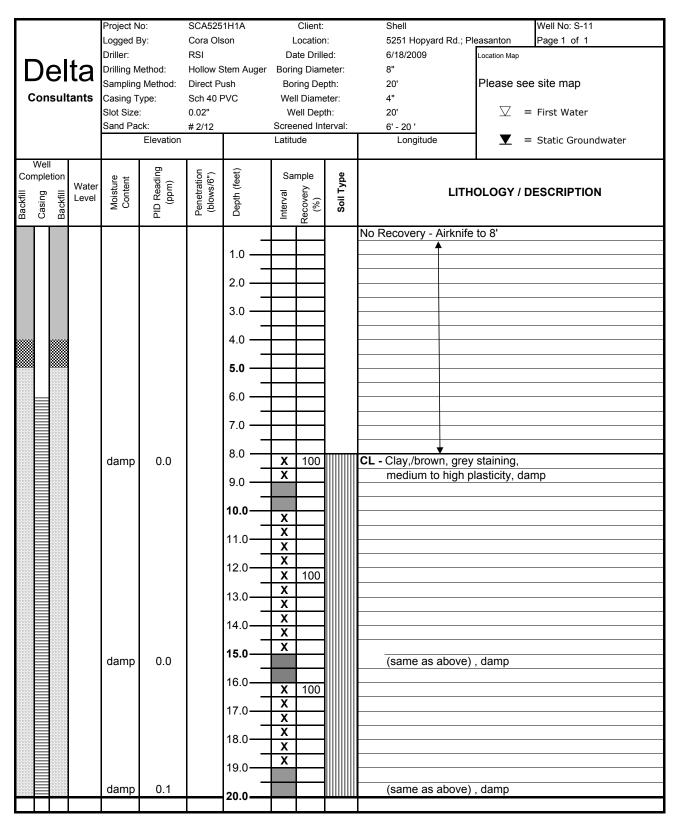
APPENDIX B

BORING LOGS AND FIELD DATA SHEETS

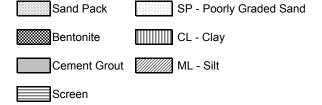


Legend

Sand Pack	SP - Poorly Graded Sand
Bentonite	CL - Clay
Cement Grout	ML - Silt
Screen	

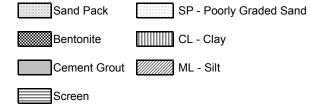


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Problem/Work Description:							···	Return Ca Damage		yes / no yes / no
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☐ PROTECTIVE CLOTHING ☐	GLOVES	SAFETY GLAS	SES/GOGGLES		WELDING	PPE		OTHER:		
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WORK DOCUMENTATION REQUIREMENTS:	Lower Risk - no JSA require	ed .	Medium Risk / High	er Risk	- JSA required	Higher Ris	k - JSA require	d & appropriate o	hecklist comple	eted (see below)
Examples of Higher / Medium risk tasks:	Work at heights: in all cases on oper Trenching or excavation related to Heavy lifting	underground tank / pro	oduct line	0 0	Hot work with r	ed spaces (e.g. tal isk of product or v egassing, installati	apor ignition on or maintenar	ıç e		
SIGN IN	Contractor representative name	Signature	id updated and re-sig			SIGN OUT		ă III	Contractor sign	gnature / 20
Operating sites: to be signed by the Site Representative Non-operating sites: to be signed by the Contractor Representative only	Day UN	Coall	Su	- Has the w	eneral safety ork area been left	tidy and safe?	Y	1/	(1	
GENERAL SAFETY CHECKS						status of work inc		g isolation? Y	1	
- Have all site personnel been informed?	Site Representative Name	Signature		- Are cha	nges to equipmen communicate	t documented and ed?		ntative Name	Signature	
- Has fuel delivery service been informed?	Solioha	Joh	10 Lag	- विशेष्ठभूष		1	50%	then	JUN	10 Leon
- Have isolation procedures been agreed - lock out/tag out? - Are work areas cordoned off to protect workers, site staff of										
(10 pg /		4-3								
	model and serial #'s as appropria	te)				····	·			
PARTS - Ordered, replaced, and/or disposed of (include									*****	
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PARTS - Ordered, replaced, and/or disposed of (include										

3 2 2 3 m i i i i					Job Clea	ce For	m						
CONTACTOR INSTRU	NS PRIORITO STAF	RTOF WORK 1. Review	form, check appropri	ate boxes, read and s	gn bottom of this to.	2 Internie	ealer manager, o	risite representati	e of the job to b	performed and	potentia safety	concerns and	signature
Station #	Station Address: 5251 H	topyard	Rd; P	leasanto	<u>~</u>	Work Order	Number: A52	si H1	A	Date: 6/	10/0	9	
Contractor Company N	lame:	· · · // ·	rson in charge (print	name):	Number of Workers:	; JSA Refere	nce Number;	Start Time:	End Time:	Labor:	Travel Time:	Travel Distance	ic.
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WORK DOO Examples of Higher /	CUMENTATION REQUIRE	MENTS: Lower	· <u>Risk</u> - no JSA requ	ired	Medium Risk / Higi	<u>her Risk</u>	- JSA required	Higher Ris	k - JSA required	& appropriate of	checklist comple	ted (see below)	
		☐ Trenching or ☐ Heavy lifting	excavation related to	o underground tank / p	sites if no JSA present product line		Hot work with a	ed spaces (e.g. ta risk of product or v egassing, installati	vapor ignition ion or maintenan	ce	entry)		
	SIGN IN	Commactor re	presentative name	Signature			477 % , 1775, 1985, 19	SIGN OUT	the sales to all out	Canne South	Contractor sig	nature	
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- Have all site personn	nel been informed? (Site Represe	ntative Name -	Signature		- Are cha	nges to equipmen communicat	nt documented and ed?	Site Represer	tative Name	Signature		
- Has fuel delivery serv	7.		Mour	19/1	121	- Quaer z			A.R.	HALL		Nepw	
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PARTS - Ordered, rep	placed, and/or disposed	of (include model and se	rial #'s as appropri	ate)									
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Job Clea	e Form	
CONTACTOR INSTRU UNS PRIOR TIO START OF WORK IT Review form check appropriate boxes head and sign bottom of this to	2. Inform déaleir manager, or site representative of the jobito de perform	ed and potential safety concerns and usignature
Station # Station Address: SI Howard Rd; Pleasenten, CA	Work Order Number: Date:	6/16/09
Contractor Company Name: Contractor person in charge (print name): Number of Workers:	: JSA Reference Number: Start Time: End Time: Labor:	Travel Time: Travel Distance;
Problem/Work Description:		urn Call: yes / no
ANRATHUS DELLASTICATORS		nage Claim: yes / no
TO THE STATE OF TH	DOP SELECTION AND SPACE OF THE SELECTION	
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		ER:
PROTECTIVE CLOTHING GLOVES SAFETY GLASSES/GOGGLES		
Hazards not covered by JS		on of minatersk PRETO be Work IIII III III III III III III III III
WORK DOCUMENTATION REQUIREMENTS: Lower Risk - no JSA required Medium Risk / Hig Examples of Higher / Medium risk tasks:	ther Risk - JSA required Higher Risk - JSA required & appro	priate checklist completed (see below)
Examples of Higher / Medium risk tasks: Work at heights: in all cases on open sites - on closed sites if no JSA present Trenching or excavation related to underground tank / product line Heavy lifting		anhole entry)
Examples of Higher / Medium risk tasks: Work at heights: in all cases on open sites - on closed sites if no JSA present Trenching or excavation related to underground tank / product line Heavy lifting	Work in confined spaces (e.g. tank, interceptor or deep m Hot work with risk of product or vapor ignition LPG system degassing, installation or maintenance	anhole entry) .
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CONTACTOR INSTRUMONS PRIOR TIO START OF WO	DRK: 1 Review form; check ap	propriate boxes, read and	i sign bottom of this fo.	2 Inform d	ealer, manager, or	site representativ	e of the job to b	performed and	potential safety	concerns and	, signature
Station # Station Address; 5251	Hopywa	(Relip	eventa	Work Orde	r Number: CASZ	SIHIA	Hi	Date:	117/	9 4	
Contractor Company Name:	Contractor person in charge	(print name): /	Number of Workers;	JSA Refere	nce Number;	Start Time:	End Time:	Labor:	Travel Time;	Travel Distance	:
Problem/Work Description:								Return C	ali:	yes / no	
								Damage	Claim:	yes / no	
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Examples of Higher / Medium risk tasks:											
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	Trenching or excavation rel	ated to underground tank	/ product line			isk of product or va					
	Heavy lifting					gassing, installatio					
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- Have all site personnel been informed?	Site Representative Name	Signature		- Are cha	nges to equipment communicate		Site Represer	tative Name	Signature		
- Has fuel delivery service been informed?	1	۱ ۱	i i	- O herry			<u> </u>				
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- Is a ruer derivery due? - Have isolation procedures been agreed - lock out/tag out		y -n 0 -	0 401	-			<u> </u>		ı		
- Are work areas cordoned off to protect workers, site staff											
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PARTS - Ordered, replaced, and/or disposed of (include	e model and serial #'s as ap;	propriate)									

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CONTACTOR INSTRUMONS PRIOR TO START OF WO	DE L PARTITION OF THE PROPERTY OF THE	Job Clea	e Forn	1 let manager of					concerns and signature
Station # Station Address:	· ID DI		Work Order		111/1/	entamina es anares	Date: (C	119/00	
Contractor Contranty Name:	Contractor person in charge (print n	ame): Number of Workers:	JSA Referen	ce Number:	Start Time;	End Time:	Labor:	Trave/Time;	Travel Distance:
Problema Vork Description: 3 Marie	peins me						Return C Damage		yes / no yes / no
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GENERAL SAFETY CHECKS	***************************************			rsonnel aware of a ges to equipment			g isolation?	<u> </u>	
- Have all site personnel been informed?	Site Representative Name	Signature	- Alc chang	communicate		Site Represe	ntative Name	Signature	
- Has fuel delivery service been informed?	Juliobean	Jul Leon	Other?						
- Is a fuel delivery due? - Have isolation procedures been agreed - lock out/tag out	L	I	1						
- Are work areas cordoned off to protect workers, site staff									
PARTS - Ordered, replaced, and/or disposed of (include	e model and serial #'s as appropriat	e)							
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CONTACTOR INSTRU JNS PRIOR TO START OF IWO	RK If Review form, check appropriat	Job Cler a boxes, read and sign bottom of this fu	ce Form	slie representati	Velocine jes kojs	performed and	pojentjal salety	concerns and signature	
Station # Station Address: HOOK	azl Rd	***************************************	Work Order Number:	4141		Date:	19/0	27	
Contractor Company Name:	Contractor person in charge (print n	ame): Number of Workers:	JSA Reference Number:	Start Time:	End Time:	Labor:	Travel Time;	Travel Distance;	
Problem/Work Description:		,				Return C	all:	yes / no	
						Damage	Claim:	yes / no	
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	Trenching or excavation related to L		☐ Hot work with r	isk of product or	vapor ignition				
	Heavy lifting			egassing, installat			SS TO STATE OF THE		
	vi.	electroriesch (ebisad updated und reis)s	gred if clicumstances chang	or to gastiggarden and or a					
SIGN IN	Contractor representative name	Sjenature		SIGN OU	55 - 25 de la compansión d La compansión de la compa		Contractor sig	nature	
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GENERAL SAFETY CHECKS	<u> </u>		- Are site personnel aware of	status of work in	cluding remaining	isolation?			
- Have all site personnel been informed?	Site Representative Name	Signature	- Are changes to equipmen communicate		Site Represer	itative Name	Signature	<u>^</u>	
- Has fuel delivery service been informed?	Tilm	Julio Lyon	Other?		Mot	KIN.	h	MILLER TO THE STATE OF THE STAT	
- Is a fuel delivery due?		0000 2409	-			<i>.</i>	<i>N</i>	Man	
- Have isolation procedures been agreed - lock out/tag out?									
 Are work areas cordoned off to protect workers, site staff & (10) (3) 2 	ž briplici.								
PARTS - Ordered, replaced, and/or disposed of (include	a model and serial #'s as appropriat	n)							***************************************
		· · · · · · · · · · · · · · · · · · ·							

The contractor, through is authorized representative, shall sign, issue, and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work



SIGNATURE:

	FIELD WORK LOG
CLIENT:	Shell JOB NO. SCA 5251 HA
PERSONNE	C Man ST /2/11/160
	RSI
TIME	NOTES/OBSERVATIONS
7:30	Anne onsile
	Sikuale tetup HSM
8:30	Begin Setup
9:15	Ugiccom mot working
91110	Call Suzume about "Stop work"
10.40	Su rane actived on site
10:00	Denist Suzanne leave site
11:45	Call off work because Hertz tech can not fix
12:12	Lenvesite.

DATE:__

PAGE ____OF ___



Y W

	FIELD WORK LOG
CLIENT:	Slell JOBNO. SCA 525/11/A
	1 Alex Der
PERSONN	
	17-CEO
TIME	NOTES/OBSERVATIONS
-7:30	Augusta 17-09
7.00	Arrive on site HSM+Jerup
7:30_	Waiting for AN COMPressor that had flat thre
8:30	Ar Compressor arrives
9:30	Difficulty with hose Cloading w/day @ S.S'
10:30	Gret to 8 1/1 5-11
13472	Cleunop + Move to 2/18
181/20	Begin nork of S-12
12:30	Finish 5-12 to 8'
1.20	Feldeling
1845	Beach AK ON 5-10
3:27	Finish S-10 to 8'
3.40	Start Chamut of Vac took
5300	Finish Cleanup - do paperaork
5:30	Legal Site
<u> </u>	· /1 /V
	GNATURE: DATE: 0/17/0CPAGE_OF_
SIC	GNATURE: DATE: OFOFOF



	LD WORK LOG
CLIENT: Shell	JOB NO. SCASZSI HAA
PERSONNEL: Gra Usar, RSI	DATE: 6/18/09
TERCOUNTED. COLOR VICTOR TO	

TIME	NOTES/OBSERVATIONS
7:00	Arrive onsite RSI Allive
7:15	HSM HIME
8:20	Bean sotup
9:00	Consult Sozanie + rich to see it we should
9:30	Consult Solzand + rich to see it we shall
9:40	Boundrilling WHOGERT
10:17	Beach well Install
17:00	Beak for Panch well selvery
12:30	Mare dinns + appl+ 5-11 - Wait lot can
13:20	Move to S-12 and begin sumpling wasn to clarfost
14:05	Begin to drill S-12 W/Augens
15:∞ 15:45	Bean decen of Augers + Cleans
16:45	BORN CACOED MY WELL DOX
17:15	Leave Sile
17:30	cenve stre

SIGNATURE:	DATE:	PAGE	OF
BIGINATORE.			



PERSONNEL: COR DENN, RST DATE: Co/19/09

TIME	NOTES/OBSERVATIONS
7:00	Arrive on Sile 1+SM Setur
8:00 8:30	Begin Gilling on S-10 / Sampling) Begin dilling with August on S-10
10:30 10:45	Clanop and wait for Dentanite to hydrale four arost and install well box
11:00	Finan Cleans of Docontrailer

SIGNATURE:	DATE:	PAGE	OF
DIGITIZAD			

DELTA ENVIRONMENTAL CONSULTANTS
DAILY (TAILGATE) HEALTH AND SAFETY BRIEFING LOG

ite: 0 10 000	***************************************
tart Time:	
Subjects Reviewed:	
Protective Clothing Requirements	(hard hat, steel toes, vest, glasses, plugs, & gloves)
Emergency Procedures (hospital ro	oute)
Physical Hazards	
Chemical Hazards	
Exclusion Zone (cones with flags 4	12", caution tape, totally enclosed)
✓ Vehicular Traffic	
Hand Tools	
Other:	
Other:	
Other:	
Attendees:	y Cruz Brotners
Print Name Mike Gil	Signature Mil

Date: 0/10/09	
Start Time: 7:30	
Subjects Reviewed:	
Protective Clothing Requirements (ha	ard hat, steel toes, vest, glasses, plugs, & gloves)
Emergency Procedures (hospital rout	e)
/ Physical Hazards	
Chemical Hazards	
Exclusion Zone (cones with flags 42"	', caution tape, totally enclosed)
Vehicular Traffic	
Hand Tools Site walk+	selp,
Other: Saw cot	
Other: Arknife + 1	Accom
	y, 12 Cife saving Ruler
Vork to be performed:	
Arknife 3 hole + dri	
•	
Attendees:	
rint _i Name	Signature
Artomio Villegus Ruben Moreyo	Lamies May 1
WOEN MOTEYO	- fr. will
eeting Conducted by: (xu) LSW)	
me (Site Health and Safety Officer):	
gnature: Em Co	

Date: 0 17 09
Start Time:
Subjects Reviewed:
Protective Clothing Requirements (hard hat, steel toes, vest, glasses, plugs, & gloves)
Emergency Procedures (hospital route)
Physical Hazards
Chemical Hazards
Exclusion Zone (cones with flags 42", caution tape, totally enclosed)
Vehicular Traffic
Hand Tools
Other: Site setup, Airknise, goinel disturb
Other: (vac forck)
Other:
Work to be performed: AIX Knife I hales to 8
Attendees: Print Name Signature Ruben Moveno Ruben Moveno
Meeting Conducted by:Name (Site Health and Safety Officer):Signature:

Date: 0/10/0 /	
Start Time: /: SO Subjects Reviewed:	
	hard hat, steel toes, vest, glasses, plugs, & gloves)
Emergency Procedures (hospital ro	
Physical Hazards	
Chemical Hazards	
Exclusion Zone (cones with flags 4	2", caution tape, totally enclosed)
Vehicular Traffic	
Hand Tools	
At Other: Hallows slew	Auger Well Install
Other: (18 58.7) 0 1	Auger, Well Install + walk, Drom Mosing
Other:	
Work to be performed:	
3 Well Installs	
Attendees: Print Name	Signature
Thit is an in the interest of	
Seeting Conducted by: (Ju 015	
fame (Site Health and Safety Officer):(ignature:	(Sane)

	_
t Time: 7:15	
jects Reviewed:	at, steel toes, vest, glasses, plugs, & gloves
	at, steer toes, vest, glasses, plugs, & gloves
Emergency Procedures (hospital route)	
Physical Hazards	
Chemical Hazards	
Exclusion Zone (cones with flags 42", cau	ntion tape, totally enclosed)
Vehicular Traffic	
Hand Tools	
Other: Si'le walk + Setyp,	dean,
Other:	
Other:	
ttendees: nt Name oun Cerountes van Muñoz	Signature Jum July
_ / / /	Alley.
grando Ambriz	
ernando Ambriz	
Prinando Ambria	





Task Desc	ription: Utility Locates			Date JSA Developed	d: <u>(</u>	0/10/09
Name and	Address of Worksite: 525	1 Hopy				
Project Ma	nnager/Site Supervisor: Soza	nne Mé	Chrky-Nelsa	1		
	PPE Required for this Job		Specia	l Considerations		Required Permits
Hard Hat Safety Gla Safety Too Hearing P Hi-Vis Tra Respirato	e Shoes	litile/paint	☐ Lighting ☐ Nearby Activities ☐ Simultaneous Operations ☐ Weather and Temperature Extremes	☐ Time of Day/Night ☐ Tight/Crowded Work Space ☐ Environmental Sensitivities ☐ Automatic Equipment ☐ Other:	☐ Hot V	ined Space Vork nd Disturbance ting From Heights
			JOB SAFETY ANAL	YSIS		
Step Number:	Sequence of Basic Task Steps List the steps required to perform the activity in the sequence they occur)		azards:Involved.With This. Step ist the energy sources)	How will the energy be managed Control Measures (Eliminate: Control Protect)	? List	Stop Work Triggers for this task? (We will stop the job if any of these
1.	Site Walkover/Locate Dig Areas	Motion- Traf	fic	Wear reflective safety vest. Be award traffic patterns. Set up traffic control buddy system if more than one persuaware of other potential activities/webeing conducted at site.	. Use on. Be	Proper PPE not available, or in poor condition. Traffic control equipment inadequate.
		Gravity, Mot unsafe surfa	ion- Slip/trip/fall, debris, aces	Inspect/be aware of ground condition Clear hazards, if possible.	ns.	Debris, hazards cannot be cleared. Ground condition not safe to walk on.
2.	Locating Utilities/Use of Spray Paint,		otion- Injuries (hand ch points, back safety)	Proper PPE (leather or synthetic wingloves, hard hat, safety glasses), Utools for the job. Use proper lifting techniques. Do not lift over 40 lbs wassistance. Bend at knees, use yo legs, do not bend with your back	se right vithout ur	Proper PPE not available or in poor condition. Right tool for the job not available or in poor condition. Objects too heavy to be lifted safely.
		Biological H	azards .	Be aware of potential insect hazard take action to avoid contact (long sl shirts, insect repellent), Inspect are potential poisonous plants, and take to avoid contact (long sleeve shirts, contact w/outer clothing, etc.)	eeve a for action	Biological hazards at site cannot be managed to avoid contact

12 LIFE SAVING RULES Work with a valid work permit when required. Conduct gas tests when required. Verify energy isolation before work begins. Obtain authorization before entering a confined space. > Obtain authorization before overriding or disabling critical equipment. Protect yourself from fall when working at height. > Do not walk under a suspended load. Do not smoke outside of designated areas. No alcohol or drugs while working or driving. While driving, do not use your phone and do not exceed Speed limits. Wear your seat belt. Follow prescribed Journey Management Plan. PLEASE CHECK ALL THAT APPLY

Initials AV. Company 25I Date 6-16-09

CEO





Task Descr	ription: Decon Procedures			Date JSA Developed	t: <u> </u>	1009
	Address of Worksite: 525)	Hop	Yard; Pleasant	1/ 61		
Project Ma	nager/Site Supervisor: Ssagn	e MLY	Wirkin-Nelson 1	Cora Ol San		
	PPE Required for this Job		Special	Considerations		Required Permits
Hard Hat Safety Gla Safety Toe Hearing Pi Hi-Vis Trat Respirator	ned Space Vork nd Disturbance ing From Heights r Permit					
			NO ESPARANAMENTO			
Step Number	Sequence of Basic Task Steps (List the steps required to perform the activity in the sequence they occur)		lazards Involved With This Step ist the energy sources)	How will the energy be managed Control Measures (Eliminate, Control, Protect)	? List	Stop Work Triggers for this task? (We will stop the job if any of these
1.	Decon Set-Up Motion- E		xposure to site traffic	Proper PPE (reflective vest), Identify high traffic areas, Use buddy system if more than one person, and Be aware of other potential activities/work being conducted at site, Set up exclusione to include decon	e r	Safe decon location cannot be identified
			ravity- Decon unit hile disconnecting from hit	Chalk tire to prevent unit from moving		Unable to chalk tires
2	Decon Operations	Pressure-		Hearing Protection must be w	orn	Hearing PPE not available
		Motion, G falling obj	ravity- Pinch points and ects	Secure equipment, wear hard safety glasses, leather or synt work gloves, safety toed boots	thetic	Correct PPE not available
·			, Heat/Cold- High water or steam	Proper PPE to include safety shield and gloves	face	Correct PPE not available

6/16/09

5251 Hopyard Rd.

FIND SHEAVATELYSIS

•		<u>.</u>									
Type: SAR Oper	ations Transport Office		Construction		Revised	Date: 9/1	5/04				
Cascade Drilling:	Vorwalk			ient: General	Loc: Various		-				
Work Type: Environmental Work Activity: Drilling / Well Installation											
Personal Protective Equip	Personal Protective Equipment (PPE): Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent										
on ich manific requireme	nte)										
Additional PPE may be	required in the Health & Safety	Pian (#	IASP). Also refer to the	MASI TOT TO							
and emergency procedu		<u> </u>	Reviewed B	γ .	· Position/	Title .	Date				
Development Team		eger .	Dean Coblis		LA Operations	: Manager					
Mike Thomas, CSI Shannon Magers	Field Supervisor	-5	Don Kinlock	h	CA General l		·				
. Scott Campbell	Operations Manage		Vera chapma	n	SAC Operation						
. Kurt Magee	Operations Manage		John Murnar	ie .	WA Operation		·				
			-		OR Operations		<u> </u>				
Field staff must review job-specific work plan and coordinate with project manager to verify that all up-front logistics are completed prior to starting work including, but not limited to, permitting, access agreements, and notification to required contacts (e.g. site managers, inspectors, clients, subcontractors, etc.). Additionally, a tailgate safety meeting must be performed and documented at the beginning of each work day. Safe Performance Self Assessment (SPSA) procedures must be used during field activities. Also consider weather conditions (heat, cold, rain, lightning). THEALTH & SAFETY DIRECTOR:											
PROJECT MANAGER:			HEADIN & BALLI	② Critical	d ofices		•				
Job Steps	Potential Hazard										
			Perform SPSA bet			for					
1. Site Walk & Set-up	Vehicle Traffic (These hazards will be present in all phases of the job and all precautions will apply for the entire job.)		Follow all critical actions action in a critical action is a critical action in a critical action in a critical action is a critical action in action action in action	p"			He was				
2. Remove asphalt borehole surface patch	Hitting someone with bar pick	• V	Communicate with co Wear hard hats		•						
Surface pateri	Back strain	• (Use proper lifting tech cosition one foot to the straighten and arch y Stretch before lifting Get assistance with h	ne side of the our back. neavy or awk	e object if post	sible, IIIT nea	ia 10				
		0 1	Use appropriate tools	s such as hal	nd trucks, boo	oms, lift truc	ks, etc.				
3. Mast-up drill rig	Overhead obstructions/ Power lines	 Power lines Double check area for obstructions beforehand Have a lookout watch while driller moves vehicle or raises mast Do not move drill rig with mast raised Keep mast a minimum of 15 feet from overhead power line (20 ft. if 230, 285 kv / 25 ft. if 345 kv / 35 ft if 500 kv) 									
		 	Check with utility Level truck using hyd	company n	and lack nade	if needed					
	Uneven surfaces	0 L	Level truck using nya	naulic Jacks	anu jaok paus	1 1100000					
(If drilling	at an angle, see JSA for	Angle	Buddy system			·····	• .				
4. Unload tooling	Strain and sprains	•	Proper lifting technic	ques as liste	d above unde	r "Back Stra	in"				
5.Drill, Well ·	Pinch points	•	Be aware of hazards Stay away from mov	s ·							
Installation, Collect mples			possible								
npies	Flying dirt/mud		Safety Glasses requ	uired ·	•						
	Back strains	•	Same precautions a	s listed abov	/e ·						
· ·	Fall from height	•	Fall protection requi	red when wo	orking 6' off th	e ground	· · · · · ·				

6/16/09

5251 Hopyard Rd

WIND SHEET WATER COURT

•	<u>. </u>	•					√ nemine !	Date:6/1/04		
Type: SAR Op			Office		nstruction		Revised			
Cascade Drilling: Nor	walk, Sac	ramento, Portland,	Seattle			Client: Ge		Various .		
Work Type: Environmental Work Activity: Drilling / Air Rotary										
7 17 15 7		PE):			•	-	•		,	
Minimum PPE is Leve	I D includi	ng: safety glasses o	r gogg	les, hard h	at, traffic vest, steel-to	ed boots, hea	ring protection,	and gloves (type	aependent	
' 1 ifia magnira	mantel									
Additional PPE may	be require	d in the Health &	Safety	Plan (HA	SP). Also refer to the	e HASP for	required trailic	COREFOR MIT MOR	troi ing,	
and emergency procedures. Paylayed By Position/Title Date										
. Development Te		_ ·			Dean Coblis			ons Manager		
Mike Thomas, C		Regional Safe Field Sup			Don Kinloc		·	al Manager		
Shannon Mage		Operations			Vera Chapm			ions Manager		
Scott Campbe Kurt Magee	11	Operations			John Murna			ions Manager		
				•				ons Manager		
Field staff must review	v job-speci	fic work plan and c	oordin	ate with p	roject manager to verif	y that all up-	front logistics a	re completed prior	r to starting	
work including, but r	ot limited	to, permitting, ac	cess ag	reements,	and normand and	daenmented daenmented	at the heginnin	g of each work	day. Safe	
subcontractors, etc.). Performance Self Asse	Addition	ally, a tailgate sat PSA) procedures m	ety me ust he	cung mus used durin	st de performed and grid in a performed and activities. Also	consider we	ather conditions	(heat, cold, rain,	lightning).	
Performance Self Asset PROJECT MANAGE	R:	(3,1) procederes in		HEAL	TH & SALET I DIKE	CIOR.				
O Job Steps		tential Hazard				O Critical A				
1. Site Walk		e traffic	0	Follow a	Il critical action est	ablished o	n the JSA for			
and	·(These ha	azards will be		"Site W	ˈa̞lk and Set-up"					
Set-up	present in lob and a	n all phases of the It precautions will	1							
	apply for	the entire job.)	<u> • </u>		_!_	tions with	whin chacks			
		ressure	0	of the library for greater						
	hoses	••								
			 Communicate with co-workers and make sure nobody is in the way 							
2. Remove		someone								
asphalt	ı with	pick bar		Wear hard hats						
borehole patch	Back s	train ·		Use pro	per lifting techni	gues – sta	and close to	object, bend	knees,	
	טמטת פ	цин		 Use proper lifting techniques – stand close to object, bend knees, position one foot to the side of the object if possible, lift head to 						
				straight	en and arch you	back.				
		•	0	Stretch	before lifting					
		•	•	Get ass	sistance with hea	vy or awk	ward object	s	ton -1	
		<u> </u>	•	Use ap	propriate tools su	ich as ha	nd trucks, bo	ooms, lift truc	ks, etc.	
3. Mast-up	Overh		•	Double	check area for o	bstruction	is betorehar	iala an raisse i	moct	
drill rig		tructions/	•	Have a	lookout watch w	nile driller	moves vehi	cie of talses	เกสรีเ	
	Pow	<i>i</i> er lines		Do not	move drill rig with	n mast rai	SEU verheed now	wer lines		
				Keep m	nast at least 15 fe	die jeeke	and lack nor	de		
	1	n surfaces	•		ruck using hydrau	and Jacks	anu jaun pal			
4. Unload	Strain	and sprains		Buddy	system lifting techniques					
tooling	Dinah	points from .	<u> </u>		re of hazards	· · · · · · · · · · · · · · · · · · ·				
		tooling			vay from moving	parts	•			
	neavy	rooming		Do not	let heavy tooling	land on h	ands or feet	į ·		
				If drops	oed, do not try to	catch or s	stop with you	ır body		
. Drill, collect	Pinch	points	•	Be awa	are of hazards		•			
samples	1, 1,1011	F			vay from moving	parts			<u></u>	
- Samples	Trippir	ng hazard	0		your step	•			•	
	1 1	he air hoses,			ep over larger ite	ems			NAMED AND ADDRESS	
The second secon	A PRINCIPAL PRIN		UREA NA			1 3 a 2 3 2 3 5 7 - 1 4 2 5 7 a 2	设备的管理和管理			





Task Description: Soil Sampling			Date JSA Developed	: <u>(</u>	0//10/09						
Name and Address of Worksite: 525 Project Manager/Site Supervisor: 5020AM	e Mello	ard Rd j Pleas sikin-Aldisan	Con Olsa		- 4						
PPE Required for this Job Special Considerations Required Permits											
☐ Hard Hat ☐ Safety Glasses ☐ Gloves (specify type): ☐ Safety Toe Shoes ☐ Other: ☐ Hearing Protection ☐ Other: ☐ Hi-Vis Traffic Safety Vest ☐ Other: ☐ Respirator		☐ Lighting ☐ Nearby Activities ☐ Simultaneous Operations ☐ Weather and Temperature Extremes	☐ Time of Day/Night ☐ Tight/Crowded Work Space ☐ Environmental Sensitivities ☐ Automatic Equipment ☐ Other:	☐ Hot V ☐ Grou	ined Space Vork Ind Disturbance ing From Heights						
JOB SAFETY ANALYSIS											
Step Sequence of Basic Task Steps List the steps required to perform the activity In the sequence they occur)		lazards Involved With This Step ist the energy sources)	How will the energy be managed Control Measures (Eliminate, Control Protect)	? List	Stop Work Triggers for this task? (We will stop the job if any of these occur)						
Mobilization- Loading/unloading vehicle	Gravity, Mot moving mate	ion- Back strain from lifting erials	Use two people if needed, use proper lifting techniques, do not lift over 40		Equipment too heavy to lift safety, correct tools for job not available						
	Motion- Han scrapes	id injuries – pinch points,	Wear leather or synthetic work glove avoid pinch points.	es,	PPE not available						
	Motion- Traf	ffic	Wear reflective safety vest, Identify traffic areas, Set up traffic control. U buddy system if more than one personal be aware of other potential activities/work being conducted at significant set.	se on,	Traffic too heavy to work safely, sufficient traffic control not available						
	Gravity, Mot vehicle	tion- Equipment falling off of	Use straps or rope, not bungee cord		Correct equipment not available						
	Motion, Hea	at/Cold- Weather	Wear sunscreen and/or protective c when working in intense sunlight, W proper clothing to avoid heat/cold st Drink plenty of fluids to avoid dehyd Take breaks as needed.	ress, ration.	Weather too dangerous to work in. Workers not properly dressed for weather.						
Site Walkover 2.	Gravity, Mo	tion- Debris/tripping hazards	Inspect/be aware of ground condition Clear hazards, if possible, for icy sures sand or ice melt for walk/work a	rfaces-	Walking/working surfaces not safe for workers						

6/16/09

5251 Hopyard Rd

THE STREET WHITE

						· · · · · · · · · · · · · · · · · · ·		10.4		
A Type: SAR Operation	tions Transport []	Office [Const	truction	New	Revised	Date: 9/15/	Ų4 ————————————————————————————————————		
Cascade Drilling: N	orwalk, Sacramento, Portla	nd, Scattle	B	_ Client:		Loc; Various				
Work Type: Environmenta		Work Activ		Jacuum Truck	Operation	ns & Air-Vac B	ore Hole Cle	earance		
Work Type. Environment										
Personal Protective Equipment (PPE): Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection, and gloves (type dependent Minimum PPE is Level D including: safety glasses or goggles, hard hat, traffic vest, steel-toed boots, hearing protection (type dependent protection).										
on job-specific requiremen	its)	, , , , ,					turk niu man	itoring		
on job-specific requirements) Additional PPE may be required in the Health & Safety Plan (HASP). Also refer to the HASP for required traffic control, air monitoring,										
and emergency procedures. Position/Title Date										
Development Team	Position/			Reviewed I Dean Cobli		LA Operation				
Mike Thomas, CSP	Regional Safet		<u>r</u>	Don Kinlo		LA General				
Shannon Magers	Field Supe			Vera Chapn		Sac Operatio	ns Manager			
. Scott Campbell	Operations Operations			John Murna		WA Operation		· 		
Kurt Magee						OR Operatio	ns Manager			
	b-specific work plan and c	oordinate s	with nro	iect manager to veri	fy that all u	p-front logistics-are	completed prior	r to starting		
Field staff must review jo	b-specific work plan and c limited to, permitting, acc	cess agree	ments,	and notification to	required co	ntacts (e.g. site ma	magers, inspecte	JES, CHEIRS,		
work including, but not	limited to, permitting, accordingly, a tailgate safe	ety meetin	ig must	be performed and	documente	d at the beginning	OF CACH WOLK	i rain and		
Subcontractors, etc.). A	dditionally, a tailgate safe ment (SPSA) procedures	must be u	ised dur	ing field activities.	Also cons	ider weather condi	nons (neac con	1, 111111, 11111		
lightning).			*Y	EALTH & SAFETY	DIRECTO)R:				
PROJECT MANAGER:		-,	<u>_</u>	EVETIT & BULDIT		ritical Actions				
Ø Job Steps	Potential Hazar	rd ·		erform SPSA	hefore e	ach step				
		. Dv-	• P	entinue followi	ng all crit	ical actions list	ed on Pre-C	Fround		
	All hazards listed o	n Pre- I		Continue following all critical actions listed on Pre-Ground Clearance and Saw Cutting JSA including proper PPE,						
· .	Ground Clearand		traffic control, underground and overhead utilities							
	Saw Cutting JSA	١.	precautions; Slips, Trips&Falls, bio-hazards, fire prever							
			precautions; Slips, Hipsaralis, bio-riazards, mo. P. a							
,		•	е	emergency reaction, noise, eye hazards, pinch hazar						
			and truck stabilization.							
1. Borehole	Flying debris	٠.	. 8							
clearance.	٠,			Use debris shieldWear proper PPE to include face shield						
			· V	vear proper Pr	C IO IIIOI	d minimizing				
	Slips, trips and fal	ls due	•	mployee awar	eness ai		•			
	to hoses on groun	id and] . ti	ripping hazards	· :					
	open holes			Mary Language	rataction	<u> </u>				
	Noise		<u> </u>	Wear hearing p Jse vacuum to	ramava	debris and van	ors ·			
•	Build-up of flamm	able	•	Jse vacuum to	16HIOVE	TODING CITIC TOP				
	vapors		ļ <u>,</u>	/ac holes will b	a 2" lara	er in diameter	than drilling			
,	Hitting subsurface)	0 \	vac noies will b	io going	to be used dow	on the hole.			
	structures includir	ng	•	equipment that	is going.	to be used dov	ities and oth	er		
	underground utilit	ies,	0	Jse hand-held	tiooalign	to look for an	Illes and on	101		
	tanks, etc.		1 0	objects continu	ously.		ahaania dal	un hole		
			8	Stop operations	s every 3	to 4 inches to	Observe do	WIT-HOLD		
				conditions.			ملمام المساملة	ad inta		
				Air-knife will no	ot be use	d as a probing	tool or Japp	ga irito		
		•	1 .	the hole			•			
•	:	•	0	if any non-nativ	∕e materi	al is discovere	d the			
1. - ,				geologist/prima	irv contra	actor will be into	ormea. Ope	rations		
· · · · · · · · · · · · · · · · · · ·			1,	will not confinu	e until dir	rected by prima	ary contracto)! .		
· •		•		When air press	sure has	met refusal, th	e primary co	nsultant		
1			_1	7111011 WII P. 1991			AND THE PROPERTY OF THE PARTY O			

616/09

5251 Hopyard Rd

TOP SETTING ATTENDED

		Construction	Nev	w ⊠'Revised	Date: 9/15	/04	
Type: SAR Opera	tions Transport Office		Client: General	Loc: Various			
Cascade Drilling: N	orwalk, Sacramento, Portland, Seat			round Disturb	ance & Saw C	Lut	
Work Type: Environment	al	Work Acti	vity: Fre-C	Hound Distarb	ARCO CO STATE		
Personal Protective Equip	ment (PPE):				and aloves (type	dependent	
Minimum PPE is Level D	including: safety glasses or goggles	, hard hat, traffic ve an (HASP). Also r	st, steel-tood boots efer to the HASP	for required traffi	c control, air mor	nitoring,	
Additional FFE may be and emergency procedu	res,				ion/Title	Date	
Development Team	Position/Title		eviewed By		ions Manager		
Mike Thomas, CSP	Regional Safety Manag		on Kinloch		ral Manager		
Shannon Magers	Field Supervisor		era Chapman		tions Manager		
Scott Campbell	Operations Manager Operations Manager		hn Murnane	- WA Opera	tions Manager		
Kuit Magee	ob-specific work plan and coordinate access and			OR Opera	tions Manager	<u>.L</u>	
subcontractors, etc.). A Performance Self Assess lightning). PROJECT MANAGER:	ob-specific work plan and coordinated limited to, permitting, access agradditionally, a tailgate safety measurement (SPSA) procedures must be	used during field	activities. Also c	onsider weather co	nditions (heat, co	ld, rain, and	
Job Steps	Potential Hazard	•		Critical Actions			
@ Jon Grebs	•	 Perform S 	PSA before	each step	C. L. Hanna	a traffic	
Il pre- pround disturbance activities to include site walk, set- up, etc.	Station traffic (These hazards will be present in all phases of the job and all precautions will apply for the entire job.)	rnese hazards will be present in all phases of the job and all precautions will apply for the precautions will apply for the					
	Underground utilities	Visual sur manhole (covers, water A markings /	es, cuts in asp and gas meter numbers	locations		
	Overhead utilities	 Check all overhead locations for cables, wires, canopies and any other overhead obstructions Keep a minimum of 15 feet from overhead power lines (20 ft. if 230, 285 kv / 25 ft. if 345 kv / 35 ft if 500 kv) Check with utility company if in doubt Keep work area free of excess material and debris Remove all trip hazards by keeping materials/objects organized and out of walkways Keep work surfaces dry when possible Wear appropriate PPE including non-slip rubber boots if working on wet or slick surfaces Install rough work surface covers where possible 					
	Slips, Trips & Falls						
-	Insects, snakes, animals, vegetation	Inspect v Use inse Stay plan	ct repellant as t and safe dis	en arrive at site	m biological f	nazards	

TEOPER INDISTIGATIVATION OF THE PROPERTY OF TH

			S. Director of the Control	•					D-1-0/25	704
Type: SAR Opt	erations (Transport	Office	Con	struction		☐ New	⊠ Revised	Date: 9/15.	. PU\
Cascade Drilling:	Norwalk,	Sacramento, Porti	and, Sea	attic	Clier	nt: Ge		oc: Various	G.4 Y.	
Work Type: Environme					Work Activity:		Sit	e Walk and	ger-ob	
·		PE);	•						I allowed (type	dependent
Personal Protective Equation Minimum PPE is Level on job-specific requirer Additional PPE may be	D includi	ng: safety glasses o	or goggl Safety l	es, hard h	at, traffic vest, st SP). Also refer	teel-to	e HASP fo	r required traffi	e control, air mor	sitoring,
and emergency proced	lurës.								ion/Title	Date
· Development Te		Position			Review Dean-				tions Manager	
Mike Thomas, C	SP	Regional Safe			Don k				eral Manager	
Shannon Mager		Field Sup . Operations			. Vera C				ations Manager	
Scott Campbel	<u> </u>	Operations			John N	Murna	ne		tions Manager	
Kurt Magee								OR Opera	tions Manager	r to starting
Field staff must review work including, but n subcontractors, etc.). Performance Self Asset PROJECT MANAGE	Addition: Ssment (S)	m nomumer e	UUUUU ~E	eting mus	_	and . Als	documente o consider ' ECTOR:	d at the beginni weather condition	na at each work	HMV. DATE
O Job Steps ·	❷ Po	tential Házard					Critica			
1. Site Walk and Set-up	Vehicle (These highersent light) job and a apply for Slips, Under utilities	e traffic azards will be n all phases of the all precautions will the entire job.) Trips & Falls		Wear proteed shot Conduct Watch for Set up a Make sure Remove of walky Keep wo Wear a slick sure Stay aw Secure Review Visual stay and Check and Check and Check and Covers, Cover	tes, gloves an tailgate safet or vehicles exclusion zone area for unever all trip hazar ways ork surfaces ough work surfaces outility maps a survey for tren water and gautility ground reall overhead le	ncluded he had been so and a safe and a safe and a safe and a safe as means and a safe as a safe as means and a safe as a safe	de hard he raring properting and traffic contractor hourfaces and comments of the covers with	et, safety glass tection when not review this July ontrol per writte as notified the not other trippir erial and debre materials/object ible on-slip rubber in to prevent sli s in asphalt, ele ons A Dig Alert ef	en plan station attenda ig hazards is ects organized boots if working ding into walke	ant and out g on wet or way manhole
	Overn	icad damoo	•	overhead Keep 1	ad obstruction mast a minit if 230, 285	is mun kv /	n of 15 fo 25 ft. if		head power li	
	Hand	ering with lcap Parking/ ss (ADA)	0	Make s Par Do not	sure client has king/Access block Handic	ap P	dé accom arking/ A	modations for ccess with dril	I rig, trucks, or	•
		e/Explosions	•		المحمد فيستنا والأراف	~ir~	ot-reading or supplie	real-illie ills	ot Work Permit truments such ire watch, PID,	UO





Task Description: Drum Moving		Date JSA Developed	: <u>0/10/0-1</u>
Name and Address of Worksite: 525	1 Hopvard Rd; Plea	asarton, CA	
	ne McClaten - Nelson 1	Cara Olsan	
PPE Required for this Job		Considerations	Required Permits
☐ Hard Hat ☐ Safety Glasses ☐ Gloves (specify type): ☐ Safety Toe Shoes ☐ Other: ☐ Hearing Protection ☐ Other: ☐ Hi-Vis Traffic Safety Vest ☐ Other: ☐ Respirator	Lighting Nearby Activities Simultaneous Operations Weather and Temperature Extremes	☐ Nearby Activities ☐ Tight/Crowded Work Space ☐ Simultaneous Operations ☐ Environmental Sensitivities ☐ Weather and Temperature ☐ Automatic Equipment	
	JOB SAFETY ANALY		
Step Number (List the steps required to perform the activity)	Potential Hazards: Involved: With This Step (List/the energy sources)	How will the energy be managed? Control Measures (Eliminate, Control Protect)	? List Stop Work Triggers for this task? (We will stop the job if any of these occur)
	Motion, Gravity- Injuries (hands, back)	Proper PPE for task (cut-resist gloves - leather or chemical resistant gloves - rubber), Use tool for the job, proper lifting/bending techniques, do lift over 40 lbs.	c right Correct tools not available to do job
	Chemical- Regulatory/Environmental (leaking drums)	Identify drums in poor condition (leaks/excessive damage). Overpack prior to transportation Call for assistance (if needed) overpack drum. Report to De immediately, Verify proper lab of drum/contents.	danger to workers, necessary overpack or clean
	Biological	Be aware of potential insect hazards, and take action to avecontact (long sleeve shirts, insepellent), Inspect area for popoisonous plants, and take action avoid contact (long sleeve)	ction cannot be prevented,





JOB SAFETY ANALYSIS								
Step Number	Sequence of Basic Task Steps (List the steps required to perform the activit in the sequence they occur)	Potential Hazards Involved With This Step [Cist the energy sources]	How will the energy be managed? List Control Measures (Eliminate, Control, Protect)	Stop Work Triggers for this task? (We will stop the job if any of these occur)				
			is in operation, Ensure that feet are clear of the edge of lift gate where it meets the trailer (pinch point).					
4.	Securing Load	Motion- Movable equipment in vehicle	Use straps or rope, NOT bungee cords.	Correct equipment not available				
		Motion- Drum shift	Use load locks for drums when vehicle is in motion.	Drums cannot be secured properly				
		Motion, Gravity- Transporting drum within vehicle	Transport drums using drum cart to appropriate location, Use steady motion while maneuvering drum cart. Avoid "jerking motions" to reduce strain on body.	Drum cannot be moved safely within vehicle (space too small, awkward, etc.)				
		Radiation- Poor lighting conditions	Vehicle inspection/maintenance (lights within vehicle).	Insufficient lighting to move around safely within vehicle				
5.	De-mobilization from site	Motion, Gravity- Lift Gate	Ensure all safety pins are placed in the side rails.	Lift gate cannot be secured properly				
		Notification (as necessary)	Sign out and/or check out with facility as required so your location is known to facility.					
	MN Ban M	dod i-bag						

	7 7		5-0.77 67	
SMN	prion	Ville X	6-16-09	
Project Manager	/ Signat	ure	Date	Site Safet
	1 /		•	•

Site Safety Officer	Signature	Date

12 LIFE SAVING RULES Work with a valid work permit when required. Conduct gas tests when required. Verify energy isolation before work begins. Obtain authorization before entering a confined space. Obtain authorization before overriding or disabling critical equipment. Protect yourself from fall when working at height. Do not walk under a suspended load.

	$\overline{\hspace{0.1cm}}$ Do not walk under a suspended load.
(3)	Do not smoke outside of designated areas.

No alcohol or drugs while working or driving.

While driving, do not use your phone and do not exceed Speed limits.

Wear your seat belt.

__ Follow prescribed Journey Management Plan.

PLEASE CHECK ALL THAT APPLY

Initials (%)	Company RSI Delta Date	
FA		
J-C		
JM		



5251 Hopyard Rd

ATTENTION SHICK VANDANTINGS

					Revised .	Date: 9/15/	04
57 o in 0-s	rations . Transport C	office Co	IISH BUILDIF				
Type: SAR Ope	Norwalk, Sacramento, Portlan	nd, Seattle	Client: Gener		: Various	C TT-	· .
Ottomor			Work Activity:	Site	Walk and	Set-Up	
Work Type: Environmen	atal				•		1 don't
Personal Protective Equ	ipment (PPE): D including: safety glasses or	de maler hard	hat traffic vest, steel-toed	boots, hea	ring protection,	and gloves (type	gebennent
— Minimum PPE is Level	D including: safety glasses or	goggies, nad	titit, tra-	•		l oir man	itaring.
on job-specific requiren	nents)	ofota Plan (H.	ASP). Also refer to the F	(ASP for 1	equired traffic	control, an mon	, in the same of t
Additional PPE may b	D including: Shiely glasses of nents) e required in the Health & S	micry Lian (xx	·		Dogisti	on/Title	Date
and emergency proces	ures.		Reviewed By		1, 001	ions Manager	
· Development Te	311 Cafet		Dean-Coblish		. LA Opeiat	ral Manager	
Mike Thomas, C	Piald Cum	ervisor	Don Kinloch	<u> </u>	LA Gene	ntions Manager	
Shannon Mager	O metions	Manager .	. Vera Chapman		WA Opera	tions Manager	
Scott Campbel	Organions	Manager	John Murnane		On Onora	tione Manager	
'Kurt Magee		_				lated pric	or to starting
Field staff must review work including, but r subcontractors, etc.). Performance Self Asso PROJECT MANAGE	o job-specific work plan and cont limited to, permitting, ac Additionally, a tailgate safessment (SPSA) procedures man.	oordinate with cess agreement ety meeting m ust be used du HEA	ing field activities. Also	puired con ocumented consider w TOR:	eather condition	managers, inspecting of each work	day. Safe ; lightning).
O Job Steps .	Potential Hazard	Doute	rm SPSA before ea	ch ste	o <u> </u>		
1. Site Walk and Set-up	Vehicle traffic. (These hazards will be present in all phases of the lob and all precautions will apply for the entire job.) Slips, Trips & Falls Underground utilities	Wear toed si Condu Watch Set up Make Surve Keep Remo of wal Keep Wear slick Insta Stay Revie	proper PPE to include the proper PPE to exclusion zone and the sure the primary control of the primary	ring proteting and raffic co ractor har faces an ess mate keeping en possiuding no covers was do not remainer, builts and cuts fer locations.	ection when review this J ntrol per writtes notified the dother trippierial and debimaterials/objection rubber where possible in to prevent slip in asphalt, econs	en plan e station attend ng hazards ris jects organized boots if workin e liding into wall	ant I and out Ing on wet or cway I manhole
	Interfering with Handicap Parking Access (ADA) Noise • Fire/Explosions	over Kee (20 • Mak • Do • We	head obstructions p mast a minimum If. if 230, 285 kv / Check with utility on the sure client has made Parking/Access not block Handicap Participation ar hearing protection site conditions/activities monitoring using direct ter. (Primary contracts	of 15 for 25 ft. if companies accompanies accompanies arking/ Aduring uses warra.	eet from over 345 kv / 35 y if in doubt nmodations for ccess with di se of drill rig nt, establish I	erhead power ft if 500 kv) or Handicap rill rig, trucks, o	or work area



Transport Control Cont

Task Description: Decon Procedures Date JSA Developed: HOOYOU eason han Name and Address of Worksite: Project Manager/Site Supervisor: N520 Required Permits **Special Considerations** PPE Required for this Job ☐ Time of Day/Night □ None ☐ Hard Hat ☐ Lighting ☐ Confined Space Nearby Activities ☐ Tight/Crowded Work Space Gloves (specify type): ☐ Safety Glasses ☐ Hot Work ☐ Safety Toe Shoes Other: ☐ Simultaneous Operations ☐ Environmental Sensitivities Hearing Protection ☐ Weather and Temperature ☐ Automatic Equipment Ground Disturbance Other: Working From Heights ☐ Hi-Vis Traffic Safety Vest Other: Other: Extremes Other Permit

☐ Respirato	or		·	er Permit
Step Number	Sequence of Basic Task Steps (List the steps required to perform the activity) in the sequence they occur)	Potential Hazards Involved With This Step (List the energy sources)	How will the energy be managed? List. Control Measures (Eliminate, Control, Protect)	Stop Work Triggers for this task? (We will stop the job if any of these occur)
1.	Decon Set-Up	Motion- Exposure to site traffic	Proper PPE (reflective vest), Identify high traffic areas, Use buddy system if more than one person, and Be aware of other potential activities/work being conducted at site, Set up exclusion zone to include decon	Safe decon location cannot be identified
		Motion, Gravity- Decon unit shifting while disconnecting from equipment	Chalk tire to prevent unit from moving	Unable to chalk tires
2	Decon Operations	Pressure- Noise	Hearing Protection must be worn	Hearing PPE not available
		Motion, Gravity- Pinch points and falling objects	Secure equipment, wear hard hat, safety glasses, leather or synthetic work gloves, safety toed boots	Correct PPE not available
	. *-	Pressure, Heat/Cold- High pressure water or steam	Proper PPE to include safety face shield and gloves	Correct PPE not available

6/17/09

5251 Hopyard Rd

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	Partition of the second		•	·	·	D-4- 0/25	104
Type: SAR Opera	tions Transport Office	□c	onstruction	L	Revised	Date: 9/15	0/04
	lorwalk			lient: Gener			
Work Type: Environment	al .		Work Activity: I	rilling /	Well Installation	on .	
			•			ad alarian Ituma	dependent
Minimum PPE is Level D	including: safety glasses or gogg	les, hard	l hat, traffic vest, steel-to	red boots, h	earing protection, at	in gioves (type	itoring
Additional PPE may be	required in the Health & Safety	Plan (H	IASP). Also refer to th	a HASP for	required traine c	ontroi, air moi	ito, ing,
and emergency procedu	res.	<u> </u>	Reviewed I		Position		Date
Development Team	5 1 10 C++ 3 for	ager	Dean Cobli		. LA Operation		
Mike Thomas, CSP Shannon Magers	Field Supervisor		Don Kinloo		CA General		· · ·
. Scott Campbell	Operations Manag	er	Vera chapm		SAC Operation		
. Kurt Magee	Operations Manag	er	John Murna	ne	OR Operation		
	bb-specific work plan and coordin		· · · · · · · · · · · · · · · · · · ·	futhat all m	- Sont logistics are	completed prio	r to starting
work including, but not subcontractors, etc.). A Performance Self Assessi	Additionally, a tailgate safety mement (SPSA) procedures must be	»·		documente o consider v	d at the beginning veather conditions (of each Work	Gay, Sare I
PROJECT MANAGER:	Potential Hazard	T			tical Actions		•
O Job Steps	e Potential Hazard		Perform SPSA be				
_1. Site Walk & Set-up	Vehicle Traffic (These hazards will be present in all phases of the Job and all precautions will apply for the entire Job.)	و ا	Follow all critical act "Site Walk and Set-1	ion establ ip"	Ished on the JS/	•	the way
2. Remove asphalt borehole surface patch	Hitting someone with bar pick		Communicate with owners hard hats Use proper lifting te				
	Back strain	• • •	position one foot to straighten and arch Stretch before liffing Get assistance with	the side o your back I heavy or Ils such a	t the object if po awkward object hand trucks, bo	ssible, lift truc s ooms, lift truc	
3, Mast-up drill rig	Overhead obstructions/ Power lines	•	Double check area Have a lookout wate Do not move drill rig Keep mast a min (20 ft. if 230, 285 Check with utility	oh while d g with mas imum of kv / 25 v compar	riller moves veni it raised 15 feet from o ft. if 345 kv / 3 ay if in doubt	verhead po 5 ft if 500 kv	wer lines
	Uneven surfaces	9	Level truck using hy	/draulic ja	скѕ апо јаск рас	19 II LIEGUGU	·····
· · (If drilling	g at an angle, see JSA fo	r Angl	e Drilling)				• •
4. Unload tooling	Strain and sprains		Proper lifting techn	iques as	listed above und	ler "Back Str	ai <u>n"</u>
5.Drill, Well Installation, Collect mples	Pinch points	•	Be aware of hazar Stay away from m possible	ds oving part	•		
inhing .	Flying dirt/mud	•	Safety Glasses re	quired	above :		
<u> </u>	Back strains		Same precautions Fall protection req	ulred who	n working 6' off	the ground	
	Fall from height		rail protection req	allea Mile	ii violinig o, on	<u>-</u> - <u>-</u>	

6/17/09

5251 Hopyard Rd.

STEVENT PROPERTY OF THE STEVENTS

*				Construction	New	⊠ Revised	Date:6/1/04		
.Type: SAR Op	erations		Office	COBSTRUCTION	Client: C		arious		
Cascade Drilling: Nor	walk , Saci	amento, Portland,	Seattle		D. III / Ala Determ				
Work Type: Environm		•		Work Activity:	<u>u</u>	rming / Air rec	·		
Personal Protective Eq	uipment (P	PE):			. 11 h	onling protection	and gloves (type	dependent	
Minimum PPE is Leve	l D includi	ng: safety glasses	or goggle	es, hard hat, traffic vest, steel	-toed boots, ii	washing protections.	control, air mon	itoring,	
Additional PPE may	, be required	d in the Health &	Safety 1	Plan (HASP). Also refer to	the HASP 10	r required traine	Court of an in-		
and emergency proce	dures.			Reviewe		Positio		Date	
Development Te		Position				LA Operation	ns Manager		
Mike Thomas, C		Regional Safe Field Su		Don Kin		LA Genera			
Shannon Mage		Operations		vera Cha	pman	SAC Operati		<u> </u>	
Scott Campbe		Operations			mane	WA Operation		ļ	
Kurt Magee						OR Operation	ons Manager	r to otarting	
work including, but a subcontractors, etc.). Performance Self Ass	not limited Addition: essment (SI	In Deliniums, a	nomia uP	te with project manager to vercements, and notification teting must be performed and activities. A HEALTH & SAFETY DI	nd documente Aso consider	J at the hearinging	w of each work	uay. ome	
PROJECT MANAGE		tential Hazard	T		Critica				
Job Steps	·	e traffic	•	follow all critical action of	established	on the JSA for			
1. Site Walk and Set-up	· (These h	azards will be a all phases of the Il precautions will		Site Walk and Set-u	p"			-	
00t ap	apply for	the entire job.)	<u> · </u>			h whin-checks			
	High p	ressure	•	Secure air hose conn	BONOLS WI	11 Mulb-cucous	•	•	
<u>.</u>	hoses	*•	Check all hoses for cracks						
				Communicate with co	workers s	and make sure	nobody is it	the wa	
2. Remove asphalt		someone pick bar	• '	Wear hard hats		•			
borehole patch	Back s	strain	6	Use proper lifting tech position one foot to th straighten and arch ye Stretch before lifting Get assistance with h Use appropriate tools	e side of to our back. eavy or aversely	ne object if po wkward objects nand trucks, bo	ssible, lift true	au to	
3. Mast-up	Overh	ead	•	Double check area fo	r obstructi	ons beforenan	IO olo or raises	mast	
drill rig		tructions/	•	Have a lookout watch	rWniie ariii	-ojeaq Blilloves veili	CIE OI TAIDOO	made	
	Pov	ver lines	•	Do not move drill rig v Keep mast at least 15	Nilli IIIasi i 5 faat from	overhead pov	ver lines		
			<u></u>	Level truck using hyd	raulic lack	s and lack par	ds		
		en surfaces	- 8	Level truck using hyd	Hauno Jaon	a arra jaon par			
4. Unload	Strain	and sprains	•	Buddy system Proper lifting techniqu	ues .	•			
tooling	 	lud- fr-ma	<u> </u>	Be aware of hazards		·			
	Pinch	points from		Stay away from movi	no parts				
	neavy	tooling		Do not let heavy tool	ing land or	hands or feet			
		•		If dropped, do not try	to catch o	or stop with you	ır body		
D.:!! 11 1	Dinah	points		Be aware of hazards		•	•		
. Drill, collect	Pinch	hours		Stay away from movi	ng parts		<u> </u>		
samples	Trinni	ing hazard		Watch your step	, =		,	•	
		the air hoses,	0	Side-step over large	r items				
	ווטוו		PART TO STATE						



Tanada Ali

Name and	ription: Soil Sampling Address of Worksite: 5251 nager/Site Supervisor: Sozoav	Hopy e Millor	, , ,	Date JSA Developed	1:	6/17/09	
Liojeci ivia		5 / 154 101				Required Permits	
Hard Hat Safety Gla Safety Toe Hearing P Hi-Vis Tra Respirator	e Shoes		Special Lighting Nearby Activities Simultaneous Operations Weather and Temperature Extremes	Considerations Time of Day/Night Tight/Crowded Work Space Environmental Sensitivities Automatic Equipment Other:	☐ Hot V ☐ Grou ☐ Work	Confined Space Hot Work Ground Disturbance	
			JOB SAFETY ANALY	'SIS			
Step Number	Sequence of Basic Task Steps (List the steps required to perform the activity		azards involved With This Step st the energy sources	How.will.the energy be managed Control Measures (Eliminate Control, Protect)	2 List	Stop:Work Triggers for this task? (We will stop the job if any of these	
1.	Mobilization- Loading/unloading vehicle	Gravity, Mot moving mate	ion- Back strain from lifting erials	Use two people if needed, use proper lifting techniques, do not lift over 40		Equipment too heavy to lift safety, correct tools for job not available	
		Motion- Han scrapes	d injuries – pinch points,	Wear leather or synthetic work glove avoid pinch points.	es,	PPE not available	
		Motion- Traf	·	Wear reflective safety vest, Identify I traffic areas, Set up traffic control. U buddy system if more than one persand be aware of other potential activities/work being conducted at si	se on, te.	Traffic too heavy to work safely, sufficient traffic control not available	
		Gravity, Mot vehicle	ion- Equipment falling off of	Use straps or rope, not bungee cord	s.	Correct equipment not available	
		Motion, Hea	t/Cold- Weather	Wear sunscreen and/or protective cl when working in intense sunlight, W proper clothing to avoid heat/cold str Drink plenty of fluids to avoid dehydr Take breaks as needed.	ear ress, ration.	Weather too dangerous to work in. Workers not properly dressed for weather.	
2.	Site Walkover	Gravity, Mot	ion- Debris/tripping hazards	Inspect/be aware of ground conditio Clear hazards, if possible, for icy sur use sand or ice melt for walk/work a	rfaces-	Walking/working surfaces not safe for workers	



Common Paris Control C

Task Description: Drum Moving		Date JSA Developed	: <u>0/14/09</u>
Name and Address of Worksite: 525) Project Manager/Site Supervisor: 5250	M. M. Jan Alalay	Core Olsen	
PPE Required for this Job		Considerations	Required Permits
Hard Hat Safety Glasses Safety Toe Shoes Hearing Protection Hi-Vis Traffic Safety Vest Respirator	☐ Lighting ☐ Nearby Activities ☐ Simultaneous Operations ☐ Weather and Temperature Extremes	☐ Time of Day/Night ☐ Tight/Crowded Work Space ☐ Environmental Sensitivities ☐ Automatic Equipment ☐ Other:	□ None □ Confined Space □ Hot Work □ Ground Disturbance □ Working From Heights □ Other Permit
	JOB SAFETY ANALY	'SIS	
Step Sequence of Basic Task Steps (List the steps required to perform the activity in the sequence they occur)	Potential Hazards Involved With This Step (Listthe energy sources)	How will the energy be managed Control Measures (Eliminate: Control, Protect)	? List Stop Work Triggers for this task? (We will stop) the job if any of these occur)
Inspect Drums	Motion, Gravity- Injuries (hands, back)	Proper PPE for task (cut-resis gloves - leather or chemical resistant gloves - rubber), Use tool for the job, proper lifting/bending techniques, do lift over 40 lbs.	e right Correct tools not available to do job
	Chemical- Regulatory/Environmental (leaking drums)	Identify drums in poor condition (leaks/excessive damage). Overpack prior to transportation Call for assistance (if needed overpack drum. Report to Desimmediately, Verify proper late of drum/contents.	danger to workers, necessary overpack or clean
	Biological	Be aware of potential insect hazards, and take action to a contact (long sleeve shirts, in repellent), Inspect area for popoisonous plants, and take a to avoid contact (long sleeve	ction cannot be prevented,





		JOB SAFETY ANALY	'SIS	
Step Number	Sequence of Basic Task Steps (List the steps required to perform the activity in the sequence they occur)	Potential Hazards Involved With This Step (List the energy sources)	How will the energy be managed? List Control Measures (Eliminate' Control, Protect)	Stop Work Triggers for this task? (We will stop the job if any of these occur)
2/20時間出來發出組	用种种交流的复数形式有效相似的专项工作。另外的由外的自由和的对抗产用。例如由于中心企业。然而不是		is in operation, Ensure that feet are clear of the edge of lift gate where it meets the trailer (pinch point).	
4.	Securing Load	Motion- Movable equipment in vehicle	Use straps or rope, NOT bungee cords.	Correct equipment not available
		Motion- Drum shift	Use load locks for drums when vehicle is in motion.	Drums cannot be secured properly
		Motion, Gravity- Transporting drum within vehicle	Transport drums using drum cart to appropriate location, Use steady motion while maneuvering drum cart. Avoid "jerking motions" to reduce strain on body.	Drum cannot be moved safely within vehicle (space too small, awkward, etc.)
		Radiation- Poor lighting conditions	Vehicle inspection/maintenance (lights within vehicle).	Insufficient lighting to move around safely within vehicle
5.	De-mobilization from site	Motion, Gravity- Lift Gate	Ensure all safety pins are placed in the side rails.	Lift gate cannot be secured properly
		Notification (as necessary)	Sign out and/or check out with facility as required so your location is known to facility.	
			·	

	(/: 2 2) /		_
SMN	Man Vith Mel	6-1609	
Project Manager	Signature	Date	<u>_</u>
<u></u>			

	·	
Site Safety Officer	Signature	Date

APPENDIX C

CERTIFIED ANALYTICAL REPORTS WITH CHAIN-OF-CUSTODY DOCUMENTATION





June 29, 2009

Suzanne McClukin-Nelson Delta Environmental Consultants, Inc. 312 Piercy RD. San Jose, CA 95138-1401

Subject: Calscience Work Order No.: 09-06-1861

Client Reference: 5251 Hopyard Rd, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/20/2009 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 Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, 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

Philip Samelle for

Laboratories, Inc.

Jessie Lee Project Manager

CA-ELAP ID: 1230 · NELAP ID: 03220CA · CSDLAC ID: 10109 · SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501





Delta Environmental Consultants, Inc.

312 Piercy RD.

<u>Parameter</u>

Copper

San Jose, CA 95138-1401

Date Received:

06/20/09

Work Order No:

09-06-1861 EPA 3050B / EPA 7471A Total

Preparation: Method:

EPA 6010B / EPA 7471A

Units:

mg/kg

Project: 5251 Hopyard Rd, Pleasanton, CA

Result

ND

Page 1 of 1

Client Sample Nu	mber		Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Ba	tch ID
Composite (W	aste A,B,C)		09-06-1861-13-A	06/19/09 00:00	Solid	ICP 5300	06/24/09	06/24/09 21:26	090624	\$L02
Comment(s):	-Mercury was analyze	ed on 6/24/2009 2	2:27:38 PM with batc	h 090624L03						
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u> Q	ual Parameter		Result	<u>RL</u>		<u>DF</u>	Qual
Antimony	ND	0.750	1	Mercury		ND	0.083	5	1	
Arsenic	4.95	0.750	1	Molybdenun	1	0.251	0.250)	1	
Barium	222	0.500	1	Nickel		35.5	0.250	1	1	
Beryllium	0.481	0.250	1	Selenium		ND	0.750	1	1	
Cadmium	ND	0.500	1	Silver		ND	0.250	1	1	
Chromium	28.4	0.250	1	Thallium		ND	0.750	1	1	
Cobalt	11.1	0.250	1	Vanadium		41.4	0.250	1	1	
Copper	24.0	0.500	1	Zinc		60.8	1.00		1	
Lead	5.09	0.500	1							
Method Blank			099-04-007-6,374	4 N/A	Solid	Mercury	06/24/09	06/24/09 13:51	090624	1L03

Mercury	ND	0.0835	1								
Method Blank			097-01-002-	12,443	N/A	Solid	ICP 5300	06/24/09	06/25/09 16:46	09062	4L02
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>		Result	<u>RL</u>		<u>DF</u>	<u>Qual</u>
Antimony	ND	0.750	1		Lead		ND	0.500)	1	
Arsenic	ND	0.750	1		Molybdenum		ND	0.250)	1	
Barium	ND	0.500	1		Nickel		ND	0.250)	1	
Beryllium	ND	0.250	1		Selenium		ND	0.750)	1	
Cadmium	ND	0.500	1		Silver		ND	0.250)	1	
Chromium	ND	0.250	1		Thallium		ND	0.750)	1	
Cobalt	ND	0.250	1		Vanadium		ND	0.250)	1	

Zinc

Qual

<u>DF</u>



<u>RL</u>

0.500

ND

1.00





Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received:

Work Order No: Preparation:

mg/kg

Method:

06/20/09

09-06-1861

EPA 3550B

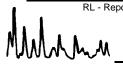
EPA 8015B

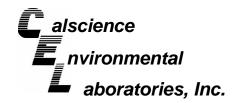
Project: 5251 Hopyard Rd, Pleasanton, CA

Page 1 of 1

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Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Composite (Waste A,B,C)		09-06-1861-13-A	06/19/09 00:00	Solid	GC 43	06/23/09	06/24/09 05:21	090623B03
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Diesel Range Organics	ND	5.0	1		mg/kg			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
Decachlorobiphenyl	98	61-145						
Method Blank		099-12-025-755	N/A	Solid	GC 43	06/23/09	06/24/09 02:20	090623B03
Parameter	Result	RL	DF	Qual	Units			

<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	
Diesel Range Organics	ND	5.0	1		
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	94	61-145			







Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received:

Work Order No: Preparation:

Method:

06/20/09 09-06-1861

EPA 5030B

EPA 8015B (M)

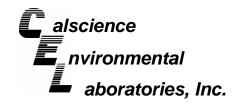
Project: 5251 Hopyard Rd, Pleasanton, CA

Page 1 of 2

Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11@10'		09-06-1861-1-A	06/18/09 09:05	Solid	GC 5	06/22/09	06/23/09 00:24	090622B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
TPH as Gasoline	ND	0.50	1		mg/kg			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene - FID	81	42-126						
S-12@10'		09-06-1861-4-A	06/18/09 13:35	Solid	GC 5	06/23/09	06/23/09 18:43	090623B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
TPH as Gasoline	ND	0.50	1		mg/kg			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene - FID	79	42-126						
S-10@10'		09-06-1861-7-A	06/19/09 08:05	Solid	GC 5	06/23/09	06/23/09 18:06	090623B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	0.50	1		mg/kg			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene - FID	79	42-126						
Composite (Waste A,B,C)		09-06-1861-13-A	06/19/09 00:00	Solid	GC 5	06/23/09	06/23/09 16:34	090623B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	0.50	1		mg/kg			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene - FID	77	42-126						

DF - Dilution Factor

Qual - Qualifiers





Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received:

Work Order No: Preparation:

Method:

06/20/09

09-06-1861 EPA 5030B

EPA 8015B (M)

Project: 5251 Hopyard Rd, Pleasanton, CA

Page 2 of 2

Client Sample Number Number Collected Matrix Instrument Prepared Al Method Blank 199-12-279-2 960 N/A Solid GC 5 06/22/09	Date/Time Analyzed 06/22/09 12:11	QC Batch ID 090622B01
Parameter Result RL DF Qual Units		090622B01
TPH as Gasoline ND 0.50 1 mg/kg		
· ·		
Surrogates: REC (%) Control Limits Qual		
1,4-Bromofluorobenzene - FID 82 42-126		
	06/23/09 10:51	090623B01
Parameter Result RL DF Qual Units		
TPH as Gasoline ND 0.50 1 mg/kg		
Surrogates: REC (%) Control Limits Qual		
1,4-Bromofluorobenzene - FID 82 42-126		





Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received:

Work Order No: Preparation:

Method:

Units:

EPA 5030B EPA 8260B

mg/kg

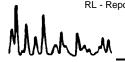
Project: 5251 Hopyard Rd, Pleasanton, CA

Page 1 of 1

06/20/09

09-06-1861

Client Sample Number				ib Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Tir I Analyze		QC Batch ID
Composite (Waste A,B,C)			09-06-	1861-13-A	06/19/09 00:00	Solid	GC/MS EE	06/24/09	06/24/0 20:27		090624L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Toluene			ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Xylenes (total)			ND	0.0050	1	
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	100	73-139			1,2-Dichloroetha	ane-d4		103	73-145		
Toluene-d8	102	90-108			1,4-Bromofluoro	benzene		97	71-113		
Method Blank			099-12	-796-1,677	N/A	Solid	GC/MS EE	06/24/09	06/24/0 16:11	-	090624L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Toluene			ND	0.0050	1	
Ethylbenzene	ND	0.0050	1		Xylenes (total)			ND	0.0050	1	
Surrogates:	REC (%)	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	99	73-139			1,2-Dichloroetha	ane-d4		96	73-145		
Toluene-d8	100	90-108			1,4-Bromofluoro	benzene		97	71-113		







Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received:

Work Order No: Preparation:

Method:

Units:

09-06-1861 EPA 5030B EPA 8260B

06/20/09

mg/kg

Project: 5251 Hopyard Rd, Pleasanton, CA

Page 1 of 2

Client Sample Number				ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti I Analyz		QC Batch ID
S-11@10'			09-06-	1861-1-A	06/18/09 09:05	Solid	GC/MS JJ	06/26/09	06/26/ 15:17		090626L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	DF	<u>Qual</u>
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1								
Surrogates:	REC (%)	Control		Qual	Surrogates:			REC (%)	Control		Qual
•	, ,	<u>Limits</u>			•			, ,	<u>Limits</u>		
Dibromofluoromethane	108	73-139			1,2-Dichloroeth	nane-d4		117	73-145		
Toluene-d8	100	90-108			1,4-Bromofluor	obenzene		98	71-113		
S-12@10'			09-06-	1861-4-A	06/18/09 13:35	Solid	GC/MS JJ	06/26/09	06/26/ 15:46		090626L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	,		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	` ,)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth			ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	0.0059	0.0050	1		,	,	,		0.0.0	•	
Surrogates:	<u>REC (%)</u>	Control Limits		Qual	Surrogates:			REC (%)	Control Limits		Qual
Dibromofluoromethane	101	73-139			1,2-Dichloroeth	nane-d4		103	73-145		
Toluene-d8	100	90-108			1,4-Bromofluor			98	71-113		
	100	30-100			•					00	
S-10@10'			09-06-	1861-7-A	06/19/09 08:05	Solid	GC/MS EE	06/24/09	06/24/ 17:1		090624L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	,		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et)	ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth		•	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1		,	,	,			•	
Surrogates:	REC (%)	Control	•	Qual	Surrogates:			REC (%)	Control		Qual
-		Limits		_	<u> </u>				Limits		
Dibromofluoromethane	101	73-139			1,2-Dichloroeth	nane-d4		102	73-145		
Toluene-d8	101	90-108			1,4-Bromofluor	obenzene		98	71-113		

Mahan

DF - Dilution Factor , Qual - Qualifiers





Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received:

Work Order No: Preparation:

Method:

Units:

09-06-1861 EPA 5030B EPA 8260B

06/20/09

mg/kg

Project: 5251 Hopyard Rd, Pleasanton, CA

Page 2 of 2

Client Sample Number				b Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Ti I Analyz		QC Batch ID
Method Blank			099-12	-796-1,677	N/A	Solid	GC/MS EE	06/24/09	06/24/ 16:1		090624L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1								
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:			REC (%)	Control		<u>Qual</u>
Dibromofluoromethane	99	<u>Limits</u> 73-139			1.2-Dichloroeth	nane-d4		96	<u>Limits</u> 73-145		
Toluene-d8	100	90-108			1,4-Bromofluor			97	71-113		
Method Blank			099-12	-796-1,685	N/A	Solid	GC/MS JJ	06/26/09	06/26/	09	090626L01
									12:4	5	
<u>Parameter</u>	Result	RL	<u>DF</u>	Qual	Parameter			Result	<u>RL</u>	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alco	hol (TBA)		ND	0.050	1	
Ethylbenzene	ND	0.0050	1		Diisopropyl Eth	er (DIPE)		ND	0.010	1	
Toluene	ND	0.0050	1		Ethyl-t-Butyl Et	her (ETBE)		ND	0.010	1	
Xylenes (total)	ND	0.0050	1		Tert-Amyl-Meth	nyl Ether (T	AME)	ND	0.010	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1								
Surrogates:	REC (%)	Control		<u>Qual</u>	Surrogates:			REC (%)	Control		<u>Qual</u>
57 (1)	404	<u>Limits</u>			400111			00	<u>Limits</u>		
Dibromofluoromethane	101	73-139			1,2-Dichloroeth			99	73-145		
Toluene-d8	98	90-108			1,4-Bromofluor	openzene		95	71-113		

Muha





Delta Environmental Consultants, Inc. 312 Piercy RD. San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method: 06/20/09 09-06-1861 EPA 3050B EPA 6010B

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-06-1892-7	Solid	ICP 5300	06/24/09		06/24/09	090624S02
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	27	26	50-115	1	0-20	3
Arsenic	100	101	75-125	1	0-20	ŭ
Barium	43	62	75-125	5	0-20	3
Beryllium	100	104	75-125	4	0-20	
Cadmium	101	104	75-125	2	0-20	
Chromium	101	107	75-125	4	0-20	
Cobalt	105	108	75-125	2	0-20	
Copper	103	119	75-125	8	0-20	
Lead	100	107	75-125	5	0-20	
Molybdenum	92	91	75-125	1	0-20	
Nickel	101	106	75-125	4	0-20	
Selenium	93	95	75-125	3	0-20	
Silver	100	102	75-125	3	0-20	
Thallium	89	90	75-125	1	0-20	
Vanadium	105	115	75-125	5	0-20	
Zinc	68	69	75-125	0	0-20	3

All Marie





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method: 06/20/09 09-06-1861 EPA 3550B EPA 8015B

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date nalyzed	MS/MSD Batch Number
Composite (Waste A,B,C)	Solid	GC 43	06/23/09	06	6/24/09	090623S03
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
Diesel Range Organics	104	100	64-130	4	0-15	

RPD - Relative Percent Difference ,
7440 Lincoln

CL - Control Limit





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method: 06/20/09 09-06-1861 EPA 5030B EPA 8015B (M)

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	,	Date Analyzed	MS/MSD Batch Number
09-06-1810-1	Solid	GC 5	06/22/09	(06/22/09	090622S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
TPH as Gasoline	92	94	48-114	2	0-23	

MMM_

RPD - Relative Percent Difference , CL - Control Limit





Delta Environmental Consultants, Inc. 312 Piercy RD. San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method: 06/20/09 09-06-1861 EPA 5030B EPA 8015B (M)

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Д	Date nalyzed	MS/MSD Batch Number
09-06-1881-1	Solid	GC 5	06/23/09	(06/23/09	090623S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Gasoline	91	93	48-114	2	0-23	

Mulling.

RPD - Relative Percent Difference , CL - Control Limit

06/20/09

09-06-1861



Quality Control - Spike/Spike Duplicate

Date Received:



Delta Environmental Consultants, Inc. 312 Piercy RD.

Work Order No: San Jose, CA 95138-1401 Preparation: Method:

EPA 7471A Total **EPA 7471A**

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Date Prepared	A	Date nalyzed	MS/MSD Batch Number	
09-06-1892-7	Solid	Mercury	06/24/09	0	06/24/09	090624S03
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
Mercury	118	118	71-137	0	0-14	





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method: 06/20/09 09-06-1861 EPA 5030B EPA 8260B

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
S-10@10'	Solid	GC/MS EE	06/24/09		06/24/09	090624S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>
Benzene	95	86	79-115	10	0-13	
Carbon Tetrachloride	100	92	55-139	9	0-15	
Chlorobenzene	91	81	79-115	12	0-17	
1,2-Dibromoethane	92	80	70-130	14	0-30	
1,2-Dichlorobenzene	88	75	63-123	15	0-23	
1,1-Dichloroethene	91	86	69-123	6	0-16	
Ethylbenzene	94	85	70-130	10	0-30	
Toluene	99	91	79-115	8	0-15	
Trichloroethene	105	96	66-144	9	0-14	
Vinyl Chloride	80	91	60-126	14	0-14	
Methyl-t-Butyl Ether (MTBE)	91	79	68-128	15	0-14	4
Tert-Butyl Alcohol (TBA)	74	59	44-134	22	0-37	
Diisopropyl Ether (DIPE)	77	69	75-123	11	0-12	3
Ethyl-t-Butyl Ether (ETBE)	89	78	75-117	14	0-12	4
Tert-Amyl-Methyl Ether (TAME)	90	79	79-115	13	0-12	4
Ethanol	57	43	42-138	29	0-28	4







0-28

Delta Environmental Consultants, Inc. 312 Piercy RD. San Jose, CA 95138-1401

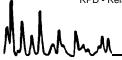
Date Received: Work Order No: Preparation: Method: 06/20/09 09-06-1861 EPA 5030B EPA 8260B

Project 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-06-1881-2	Solid	GC/MS JJ	06/26/09		06/26/09	090626S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
Benzene	88	89	79-115	2	0-13	
Carbon Tetrachloride	94	102	55-139	8	0-15	
Chlorobenzene	94	95	79-115	1	0-17	
1,2-Dibromoethane	87	87	70-130	0	0-30	
1,2-Dichlorobenzene	92	95	63-123	3	0-23	
1,1-Dichloroethene	91	95	69-123	5	0-16	
Ethylbenzene	94	96	70-130	2	0-30	
Toluene	92	94	79-115	1	0-15	
Trichloroethene	88	91	66-144	3	0-14	
Vinyl Chloride	101	100	60-126	1	0-14	
Methyl-t-Butyl Ether (MTBE)	84	85	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	99	95	44-134	4	0-37	
Diisopropyl Ether (DIPE)	91	95	75-123	4	0-12	
Ethyl-t-Butyl Ether (ETBE)	84	88	75-117	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	82	86	79-115	4	0-12	

109

116



Ethanol

RPD - Relative Percent Difference , CL - Control Limit

42-138





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation:

Method:

N/A 09-06-1861 **EPA 3050B**

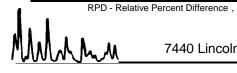
EPA 6010B

Project: 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		ate yzed	LCS/LCSD Numbe	
097-01-002-12,443	Solid	ICP 5300	06/24/09	06/24	/09	090624L	02
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	96	93	80-120	73-127	3	0-20	
Arsenic	96	94	80-120	73-127	2	0-20	
Barium	103	102	80-120	73-127	1	0-20	
Beryllium	94	93	80-120	73-127	1	0-20	
Cadmium	101	101	80-120	73-127	0	0-20	
Chromium	96	96	80-120	73-127	1	0-20	
Cobalt	105	103	80-120	73-127	1	0-20	
Copper	100	100	80-120	73-127	0	0-20	
Lead	102	99	80-120	73-127	2	0-20	
Molybdenum	100	98	80-120	73-127	1	0-20	
Nickel	102	99	80-120	73-127	3	0-20	
Selenium	92	91	80-120	73-127	0	0-20	
Silver	99	98	80-120	73-127	1	0-20	
Thallium	99	96	80-120	73-127	3	0-20	
Vanadium	97	97	80-120	73-127	0	0-20	
Zinc	101	99	80-120	73-127	2	0-20	

Total number of LCS compounds: 16 Total number of ME compounds: 0 Total number of ME compounds allowed:

LCS ME CL validation result: Pass



CL - Control Limit





Delta Environmental Consultants, Inc.

312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No:

Preparation:

Method:

N/A 09-06-1861

EPA 3550B

EPA 8015B

Project: 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Dat Analy		LCS/LCSD Batcl Number	n
099-12-025-755	Solid	GC 43	06/23/09	06/24/	09	090623B03	
<u>Parameter</u>	LCS %	6REC LCSD	%REC %	REC CL	<u>RPD</u>	RPD CL	Qualifiers
Diesel Range Organics	108	109	1	75-123	0	0-12	

Muha_





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method: N/A 09-06-1861 EPA 5030B EPA 8015B (M)

Project: 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD E Number	
099-12-279-2,960	Solid	GC 5	06/22/09	06/22/09	090622B0	01
<u>Parameter</u>	LCS %	6REC LCSD	%REC %F	REC CL R	PD RPD CL	Qualifiers
TPH as Gasoline	92	93	7	70-124	1 0-18	

Mulling.





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method:

09-06-1861 EPA 5030B EPA 8015B (M)

N/A

Project: 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyz		LCS/LCSD Batc Number	h
099-12-279-2,962	Solid	GC 5	06/23/09	06/23/0	9	090623B01	
<u>Parameter</u>	LCS %	6REC LCSD	<u>%REC</u> <u>%</u> I	REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Gasoline	91	89		70-124	3	0-18	

MMM_





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method:

09-06-1861 EPA 7471A Total EPA 7471A

N/A

Project: 5251 Hopyard Rd, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyz		LCS/LCSD Batcl Number	h
099-04-007-6,374	Solid	Mercury	06/24/09	06/24/0	9	090624L03	
<u>Parameter</u>	LCS %	6REC LCSD	<u>%REC</u> <u>%</u>	REC CL	<u>RPD</u>	RPD CL	Qualifiers
Mercury	108	109		85-121	0	0-10	

Mulling.





Delta Environmental Consultants, Inc. 312 Piercy RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation: Method:

09-06-1861 EPA 5030B

N/A

EPA 8260B

Project: 5251 Hopyard Rd, Pleasanton, CA

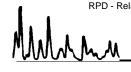
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal	ite yzed	LCS/LCSD I Numbe	
099-12-796-1,677	Solid	olid GC/MS EE		06/24	/09	090624L	01
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	102	100	84-114	79-119	2	0-7	
Carbon Tetrachloride	107	102	66-132	55-143	5	0-12	
Chlorobenzene	101	99	87-111	83-115	2	0-7	
1,2-Dibromoethane	99	101	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	97	96	79-115	73-121	1	0-8	
1,1-Dichloroethene	97	94	73-121	65-129	4	0-12	
Ethylbenzene	103	101	80-120	73-127	2	0-20	
Toluene	107	105	78-114	72-120	2	0-7	
Trichloroethene	101	99	84-114	79-119	2	0-8	
Vinyl Chloride	101	95	63-129	52-140	6	0-15	
Methyl-t-Butyl Ether (MTBE)	96	96	77-125	69-133	1	0-11	
Tert-Butyl Alcohol (TBA)	95	94	47-137	32-152	2	0-27	
Diisopropyl Ether (DIPE)	100	90	76-130	67-139	11	0-8	Χ
Ethyl-t-Butyl Ether (ETBE)	94	95	76-124	68-132	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	97	82-118	76-124	1	0-11	
Ethanol	80	76	59-131	47-143	5	0-21	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass







Delta Environmental Consultants, Inc. 312 Piercy RD.

012 1 1010y RD.

San Jose, CA 95138-1401

Date Received: Work Order No: Preparation:

Method:

N/A 09-06-1861 EPA 5030B

EPA 8260B

Project: 5251 Hopyard Rd, Pleasanton, CA

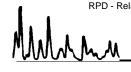
Quality Control Sample ID	Matrix	Instrument	Date Prepared		ate yzed	LCS/LCSD Numbe	
099-12-796-1,685	Solid	GC/MS JJ	06/26/09	06/26	/09	090626L	01
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	98	98	84-114	79-119	0	0-7	
Carbon Tetrachloride	113	112	66-132	55-143	1	0-12	
Chlorobenzene	105	103	87-111	83-115	1	0-7	
1,2-Dibromoethane	103	103	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	102	102	79-115	73-121	0	0-8	
1,1-Dichloroethene	106	105	73-121	65-129	1	0-12	
Ethylbenzene	106	105	80-120	73-127	1	0-20	
Toluene	104	104	78-114	72-120	0	0-7	
Trichloroethene	104	106	84-114	79-119	2	0-8	
Vinyl Chloride	110	110	63-129	52-140	1	0-15	
Methyl-t-Butyl Ether (MTBE)	98	98	77-125	69-133	1	0-11	
Tert-Butyl Alcohol (TBA)	96	97	47-137	32-152	1	0-27	
Diisopropyl Ether (DIPE)	101	100	76-130	67-139	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	101	101	76-124	68-132	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	99	82-118	76-124	1	0-11	
Ethanol	90	93	59-131	47-143	4	0-21	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass





Glossary of Terms and Qualifiers



Work Order Number: 09-06-1861

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
Α	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Е	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

	LAB (LOCATION) ALSCIENCE (Shell Oil Products Chain Of Custody Record																										
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408-8	26-1875 408-225-8506	408-225-8506 SMcClurkin-Nelson@deltaenv.com Cora Olson													00	q -	06-1861											
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LAB UŞE ONLY	Field Sample Identification	DATE	TIME	MATRIX	HCL HNO	2 112001	ONE OTHER	NO. OF CONT.	TPH-Gasoline (8015M)	BTEX (8260B)	5 Shell Oxygenates	EDB (8260B)	EDC (8260B) Ethanol (8260B)	TPH-Diesel (8015M)		full suite VOCs (8260B)	1,2-DCA and EDB (8260B)	CAM 5 Metals (6010)	PNA and cresote (8270)	PCBs (8082)	TPH-D Extractable (8015M)	Oil and grease (8015M)	CAM 17 Metals (6010)	Run STLC/TCLP Metals/Org Pb if needed	Run Bioassay if TRPH >5000 ppm,		Container PID Readings or Laboratory Notes	
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05/2/06 Revision

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312 Piercy Road, San Jose, CA 95138 PROJECT CONTACT (Hardcopy or PDF Report to):									Ana	ela P	ico						40	8-826	-1862			An	രവാ	deltae	env.co	m	SCA5251H1A
Suzanne McClurkin- Nelson										oled By												(2.10	.00(03)	Jonas	<i>,,,,,,,</i>	LAB:US	EONLY
TELEPHONE: FAX: 408-826-1875 408-225-8506		E-MAIL: SMcClu	rkin-Nelson@	deltae	nv.com				Coi	ra Ol	lson															00	9-06-186
TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS	AYS 2 DAYS	·	☐ 24 HC	URS	□ F	RESULTS ON W	NEEDE								•				REQU	ESTE	D AN	ALY	'SIS	•			
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LAB Field Sample Identification USE UNIX	DATE	TIME	MATRIX	HCL	HN03 H2SO4	NONE	OTHER	NO. OF CONT.	TPH-Gasoline	BTEX (8260B)	5 Shell Oxygenates	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-Diesel (8015M)		full suite VOCs (8260B)	Sylvan England Late	PNA and cresote (8270)	PCBs (8	TPH-D Extractable (8015M)	Oil and	CAM 17 Metals	Run STI	Pb if needed	Run Bioassay if TRPH >5000 p	Container PID Reading or Laboratory Notes
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05/2/06 Revision



WORK ORDER #: **09-06-** ☐ **6 6 6 6**

SAMPLE RECEIPT FORM

CLIENT: Octo	DATE: <u>06</u>	20/09
TEMPERATURE: (Criteria: 0.0 °C − 6.0 °C, not frozen) Temperature	of sampling. ier.	ample nitial:
CUSTODY SEALS INTACT: Cooler		nitial:
SAMPLE CONDITION: Chain-Of-Custody (COC) document(s) received with samples. COC document(s) received complete.		N/A
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels. ☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished. Sampler's name indicated on COC		
Sample container label(s) consistent with COC.		
Correct containers and volume for analyses requested		
Proper preservation noted on COC or sample container		y
Tedlar bag(s) free of condensation		9
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve □EnCores® □Te Water: □VOA □VOAh □VOAna₂ □125AGB □125AGBh □125AGBp □		
□500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs □ □250PB □250PBn □125PJ □125PJznna □100PB □100PBna₂ □ Air: □Todlar® □Summe® □	□	<u> </u>
Air: ☐Tedlar® ☐Summa® ☐ Other: ☐ (Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) Preservative: h: HCL n: HNO3 na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ znna: ZnAc₂+NaOH f: Fiel	Reviewed	by: YL





July 21, 2009

Michael Ninokata Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105

Subject: Calscience Work Order No.: 09-07-0657

Client Reference: 5251 Hopyard Rd., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/9/2009 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 Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, 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

Philip Samelle for

Laboratories, Inc. Jessie Lee

Project Manager

CA-ELAP ID: 1230 · NELAP ID: 03220CA · CSDLAC ID: 10109 · SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received:
Work Order No:
Preparation:

Preparation: EPA 5030B Method: LUFT GC/MS / EPA 8260B

Units: ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

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07/09/09

09-07-0657

Client Sample Number				ib Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Tin Analyze		QC Batch ID
S-1			09-07-	0657-1-A	07/06/09 14:10	Aqueous	GC/MS OO	07/14/09	07/14/0 17:55		090714L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
Benzene	25	2.5	5		Tert-Butyl Alc	ohol (TBA)		180	50	5	
Ethylbenzene	370	5.0	5		Diisopropyl Et	,		ND	10	5	
Toluene	34	5.0	5		Ethyl-t-Butyl E	,		ND	10	5	
Xylenes (total)	44	5.0	5		Tert-Amyl-Me	thyl Ether (T	AME)	ND	10	5	
Methyl-t-Butyl Ether (MTBE)	22	5.0	5		TPPH			5800	250	5	
Surrogates:	REC (%)	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	106	74-140			1,2-Dichloroe			102	74-146		
Toluene-d8	103	88-112			Toluene-d8-T	PPH		109	88-112		
1,4-Bromofluorobenzene	100	74-110									
S-2			09-07-	0657-2-A	07/06/09 13:55	Aqueous	GC/MS OO	07/14/09	07/14/0 16:08	9	090714L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	Ether (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	59	1.0	1		TPPH			110	50	1	
Surrogates:	<u>REC (%)</u>	Control		<u>Qual</u>	Surrogates:			REC (%)	Control		<u>Qual</u>
D3	400	<u>Limits</u>			4.0 Diables	0 14		440	<u>Limits</u>		
Dibromofluoromethane	108	74-140			1,2-Dichloroe Toluene-d8-T			113	74-146		
Toluene-d8 1.4-Bromofluorobenzene	104 88	88-112			i oluene-a8- i	PPH		110	88-112		
,	00	74-110								_	
S-3			09-07-	0657-3-A	07/06/09 13:00	Aqueous	GC/MS OO	07/14/09	07/14/0 18:22	-	090714L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	500	2.5	5		Tert-Butyl Alc	ohol (TBA)		ND	50	5	
Ethylbenzene	30	5.0	5		Diisopropyl Et	ther (DIPE)		ND	10	5	
Toluene	10	5.0	5		Ethyl-t-Butyl E	,		ND	10	5	
Xylenes (total)	13	5.0	5		Tert-Amyl-Me	thyl Ether (T	AME)	ND	10	5	
Methyl-t-Butyl Ether (MTBE)	21	5.0	5		TPPH			2300	250	5	
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	100	74-140			1,2-Dichloroe	thane-d4		99	74-146		
Toluene-d8	99	88-112			Toluene-d8-T	PPH		104	88-112		
1,4-Bromofluorobenzene	97	74-110									







Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: 07/09/09 09-07-0657

Preparation: Method:

EPA 5030B

Units:

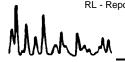
LUFT GC/MS / EPA 8260B

ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

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Client Sample Number				ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Tim Analyzed		QC Batch ID
S-4			09-07-	0657-4-A	07/06/09 12:30	Aqueous	GC/MS OO	07/14/09	07/14/09 18:49)	090714L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E			ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>	Surrogates:		<u> </u>	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	74-140			1,2-Dichloroet	thane-d4		108	74-146		
Toluene-d8	102	88-112			Toluene-d8-T	PPH		107	88-112		
1,4-Bromofluorobenzene	87	74-110									
S-5			09-07-	0657-5-A	07/06/09 11:50	Aqueous	GC/MS OO	07/14/09	07/14/09 19:16	•	090714L01
Parameter	Result	RL	DF	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TRA)		11	10	1	<u> </u>
Ethylbenzene	ND	1.0	1		Diisopropyl Et	` ,		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	,		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	,		ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	2.5	1.0	1		TPPH	(/	62	50	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:			REC (%)	Control	•	Qual
<u></u>		Limits					-	· · · · ·	Limits		
Dibromofluoromethane	109	74-140			1,2-Dichloroet	thane-d4		110	74-146		
Toluene-d8	101	88-112			Toluene-d8-T	PPH		107	88-112		
1,4-Bromofluorobenzene	91	74-110									
S-6			09-07-	0657-6-A	07/06/09 09:31	Aqueous	GC/MS OO	07/14/09	07/14/09 19:42)	090714L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et			ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E			ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me			ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	,	,	ND	50	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:		1	REC (%)	Control		Qual
- 		Limits					_		Limits		_
Dibromofluoromethane	106	74-140			1,2-Dichloroet	thane-d4		110	74-146		
Toluene-d8	97	88-112			Toluene-d8-T	PPH		103	88-112		
1,4-Bromofluorobenzene	99	74-110									



DF - Dilution Factor ,

Qual - Qualifiers



Method:



Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received:
Work Order No:
Preparation:

EPA 5030B LUFT GC/MS / EPA 8260B

Units: ug/L

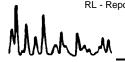
Project: 5251 Hopyard Rd., Pleasanton, CA

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09-07-0657

Client Sample Number				ab Sample Number	Date/Time Collected	Matrix	Instrument	1 Toparco		ed	QC Batch ID
S-7			09-07-	0657-7-A	07/06/09 09:46	Aqueous	GC/MS OO	07/14/09	07/14/0 20:09		090714L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	Ether (ETBE))	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	ethyl Ether (T.	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	4.3	1.0	1		TPPH			58	50	1	
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	103	74-140			1,2-Dichloroe	thane-d4		98	74-146		
Toluene-d8	101	88-112			Toluene-d8-T	PPH		106	88-112		
1,4-Bromofluorobenzene	97	74-110									
S-8			09-07-	0657-8-A	07/06/09 10:16	Aqueous	GC/MS OO	07/14/09	07/14/0 20:36	-	090714L01
Davameter	Dogult	DI	ר	Ougl	Doromotor			Dogult	DI	DE	Ougl
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter T. A.B. A.L.A.L.	(TDA)		Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Tert-Butyl Alc	` ,		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	, ,		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E			ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	etnyi Etner (i .	AIVIE)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	Ougl	TPPH			ND	50 Control	1	Ougl
Surrogates:	REC (%)	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	111	74-140			1,2-Dichloroe	thana d4		115	74-146		
Toluene-d8	99	74-140 88-112			Toluene-d8-T			104	74-146 88-112		
1,4-Bromofluorobenzene	93	74-110			i oluene-uo- i	FFII		104	00-112		
S-9	93	74-110	09-07-	0657-9-A	07/06/09	Aqueous	GC/MS OO	07/14/09	07/14/0		090714L01
					11:05				21:03		
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Tert-Butyl Alc	` ,		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	,		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	` ,		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	ethyl Ether (T.	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	101	74-140			1,2-Dichloroe	thane-d4		114	74-146		
Toluene-d8	105	88-112			Toluene-d8-T			110	88-112		
1,4-Bromofluorobenzene	93	74-110									



DF - Dilution Factor , Qual - Qualifiers





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation:

09-07-0657 EPA 5030B

07/09/09

Method: Units: LUFT GC/MS / EPA 8260B

ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

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Client Sample Number				ib Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Tim Analyze		QC Batch ID
S-10			09-07-	0657-10-C	07/06/09 11:35	Aqueous	GC/MS W	07/18/09	07/18/09 15:46	9	090718L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	1.0	2		Tert-Butyl Alc	ohol (TBA)		5100	100	10	
Ethylbenzene	ND	2.0	2		Diisopropyl E	ther (DIPE)		ND	4.0	2	
Toluene	ND	2.0	2		Ethyl-t-Butyl E	Ether (ETBE)		ND	4.0	2	
Xylenes (total)	ND	2.0	2		Tert-Amyl-Me	thyl Ether (T	AME)	ND	4.0	2	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	2		TPPH		•	340	100	2	
Surrogates:	REC (%)	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		Qual
Dibromofluoromethane	110	74-140			1,2-Dichloroe	thane-d4		121	74-146		
Toluene-d8	104	88-112			Toluene-d8-T	PPH		104	88-112		
1,4-Bromofluorobenzene	90	74-110									
S-11			09-07-	0657-11-A	07/06/09 10:40	Aqueous	GC/MS OC	07/14/09	07/14/09 21:56	9	090714L01
Dorometer	Decult	DI	חר	Ovel	Daramatar			Dooult	DI	DE	Ougl
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Tert-Butyl Alc	` ,		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	. ,		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E			ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (17	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	REC (%)	Control		<u>Qual</u>	Surrogates:			REC (%)	Control		<u>Qual</u>
Dib as a self as a self as a	404	<u>Limits</u>			4.0 Diableses	41		400	<u>Limits</u>		
Dibromofluoromethane	101	74-140			1,2-Dichloroe			106	74-146		
Toluene-d8	92	88-112			Toluene-d8-T	PPH		97	88-112		
1,4-Bromofluorobenzene	100	74-110									
S-12			09-07-	0657-12-A	07/06/09 12:10	Aqueous	GC/MS OC	07/14/09	07/14/09 22:23	9	090714L01
Parameter	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	DF	<u>Qual</u>
Benzene	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	Ether (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	37	1.0	1		TPPH	. ,	•	83	50	1	
Surrogates:	REC (%)	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	105	74-140			1.2-Dichloroe	thane-d4		101	74-146		
Toluene-d8	93	88-112			Toluene-d8-T			98	88-112		
1,4-Bromofluorobenzene	94	74-110			1 3140110 40-1			00	00-112		
i, i Distributionoborizono	0-1	7-110									



DF - Dilution Factor

Qual - Qualifiers





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation:

EPA 5030B LUFT GC/MS / EPA 8260B

Method: Units: ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

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07/09/09

09-07-0657

					Matrix	Instrument	Date			QC Batch ID
									·u	090714L01
				13:20				22:49		
Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
18	5.0	10		Tert-Butyl Ald	cohol (TBA)		ND	100	10	
750	10	10		•	, ,		ND	20	10	
82	10	10		Ethyl-t-Butyl	Ether (ETBE)		ND	20	10	
140	10	10		Tert-Amyl-Me	ethyl Ether (T	AME)	ND	20	10	
ND	10	10		TPPH	`	,	17000	500	10	
REC (%)	Control		Qual	Surrogates:			REC (%)	Control		Qual
	Limits		· <u>········</u>			•		Limits		
100	74-140			1,2-Dichloroe	thane-d4		104	74-146		
106	88-112			Toluene-d8-T	PPH		112	88-112		
96	74-110									
		099-12	-767-2,200	N/A	Aqueous	GC/MS OO	07/14/09			090714L01
								15:13		
Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	DF	Qual
ND	0.50	1		Tert-Butyl Ald	cohol (TBA)		ND	10	1	
ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
ND		1			, ,		ND		1	
ND	-	1			, ,		ND	-	1	
ND		1			, , , , ,	,	ND		1	
REC (%)	-	•	Qual				REC (%)		•	Qual
	Limits					•		Limits		
97	74-140			1,2-Dichloroe	thane-d4		118	74-146		
99	88-112			Toluene-d8-T	PPH		104	88-112		
100	74-110									
		099-12	-767-2,207	N/A	Aqueous	GC/MS RR	07/17/09			090717L01
Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	DF	Qual
ND	0.50	1		Tert-Butyl Ald	cohol (TBA)		ND	10	1	
ND	1.0	1		Diisopropyl E	ther (DIPE)		ND	2.0	1	
ND	1.0	1			, ,		ND	2.0	1	
ND	1.0	1		Tert-Amyl-Me	ethyl Ether (T	AME)	ND	2.0	1	
ND	1.0	1		TPPH	•	•	ND	50	1	
REC (%)	Control		Qual	Surrogates:			REC (%)	Control		Qual
	Limits					•		Limits		
0.4	74-140			1,2-Dichloroe	thane-d4		93	74-146		
94	74-140			1,2-0101110100	ilialic u -		55	74-140		
94 98	88-112			Toluene-d8-T			96	88-112		
	18 750 82 140 ND REC (%) 100 106 96 Result ND ND ND ND ND ND REC (%) 97 99 100 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	18 5.0 750 10 82 10 140 10 ND 10 EEC (%) Control Limits 100 74-140 106 88-112 96 74-110 Result RL ND 0.50 ND 1.0 ND 1.0 ND 1.0 ND 1.0 REC (%) Control Limits 97 74-140 99 88-112 100 74-110 Result RL ND 0.50 ND 1.0 REC (%) Control Result RL DF 10 10 10 10 10 10 10 1	18 5.0 10 750 10 10 82 10 10 140 10 10 ND 10 10 REC (%) Control Limits 100 74-140 106 88-112 96 74-110 Result RL DF Qual ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 REC (%) Control Limits 97 74-140 99 88-112 100 74-110 Result RL DF Qual ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 REC (%) Control Limits 97 74-140 99 88-112 100 74-110 Result RL DF Qual Limits 97 74-140 99 88-112 100 74-110 Result RL DF Qual ND 1.0 1 REC (%) Control Limits Qual Limits Qual Limits Qual Result RL DF Qual ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 ND 1.0 1 REC (%) Control	Number Collected 09-07-0657-13-A 07/06/09 13:20	Number Collected Matrix	Number Collected Matrix Instrument	Number Collected Matrix Instrument Prepared	Number Collected Matrix Instrument Prepared Analyze	Number Collected Matrix Instrument Prepared Analyzed	



DF - Dilution Factor Qual - Qualifiers





Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: 07/09/09 09-07-0657

Method:
Units:

EPA 5030B LUFT GC/MS / EPA 8260B

ug/L

Project: 5251 Hopyard Rd., Pleasanton, CA

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Client Sample Number				ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepare	Date/T d Analyz		QC Batch ID
Method Blank			099-12	-767-2,219) N/A	Aqueous	GC/MS W	07/18/09	07/18 13:4		090718L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			<u>Result</u>	<u>RL</u>	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alco	ohol (TBA)		ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Et	her (DIPE)		ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl E	ther (ETBE)		ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Met	hyl Ether (T.	AME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH			ND	50	1	
Surrogates:	<u>REC (%)</u>	Control Limits		<u>Qual</u>	Surrogates:			REC (%)	Control Limits		<u>Qual</u>
Dibromofluoromethane	113	74-140			1,2-Dichloroet	hane-d4		122	74-146		
Toluene-d8	100	88-112			Toluene-d8-TI	PPH		100	88-112		
1,4-Bromofluorobenzene	85	74-110									

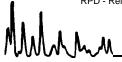




Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 07/09/09 09-07-0657 EPA 5030B LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
S-2	Aqueous	GC/MS OO	07/14/09		07/14/09	090714S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	105	88-118	7	0-7	
Carbon Tetrachloride	103	108	67-145	4	0-11	
Chlorobenzene	97	98	88-118	1	0-7	
1,2-Dibromoethane	92	101	70-130	10	0-30	
1,2-Dichlorobenzene	100	100	86-116	0	0-8	
1,1-Dichloroethene	93	99	70-130	6	0-25	
Ethylbenzene	95	101	70-130	5	0-30	
Toluene	94	101	87-123	7	0-8	
Trichloroethene	92	90	79-127	2	0-10	
Vinyl Chloride	90	96	69-129	6	0-13	
Methyl-t-Butyl Ether (MTBE)	78	87	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	102	97	36-168	5	0-45	
Diisopropyl Ether (DIPE)	88	93	81-123	6	0-9	
Ethyl-t-Butyl Ether (ETBE)	107	108	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	106	72-126	3	0-12	
Ethanol	97	95	53-149	2	0-31	







Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 07/09/09 09-07-0657 EPA 5030B LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-07-1235-2	Aqueous	GC/MS RR	07/17/09		07/17/09	090717S01
						<u>.</u>
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	107	88-118	0	0-7	
Carbon Tetrachloride	107	106	67-145	1	0-11	
Chlorobenzene	106	106	88-118	0	0-7	
1,2-Dibromoethane	108	105	70-130	2	0-30	
1,2-Dichlorobenzene	103	103	86-116	0	0-8	
1,1-Dichloroethene	108	108	70-130	1	0-25	
Ethylbenzene	107	107	70-130	0	0-30	
Toluene	106	106	87-123	0	0-8	
Trichloroethene	104	105	79-127	0	0-10	
Vinyl Chloride	93	91	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	105	104	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	107	98	36-168	8	0-45	
Diisopropyl Ether (DIPE)	100	100	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	103	103	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	104	72-126	0	0-12	
Ethanol	109	98	53-149	11	0-31	







Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method: 07/09/09 09-07-0657 EPA 5030B LUFT GC/MS / EPA 8260B

Project 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-07-1396-20	Aqueous	GC/MS W	07/18/09		07/18/09	090718S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>
Benzene	100	102	88-118	3	0-7	
Carbon Tetrachloride	101	105	67-145	3	0-11	
Chlorobenzene	100	104	88-118	4	0-7	
1,2-Dibromoethane	102	109	70-130	7	0-30	
1,2-Dichlorobenzene	101	102	86-116	1	0-8	
1,1-Dichloroethene	99	101	70-130	2	0-25	
Ethylbenzene	108	112	70-130	4	0-30	
Toluene	108	107	87-123	1	0-8	
Trichloroethene	99	99	79-127	0	0-10	
Vinyl Chloride	80	83	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	103	108	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	92	99	36-168	7	0-45	
Diisopropyl Ether (DIPE)	104	107	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	102	111	72-126	8	0-12	
Tert-Amyl-Methyl Ether (TAME)	113	117	72-126	4	0-12	
Ethanol	83	83	53-149	0	0-31	







Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method:

09-07-0657 **EPA 5030B**

N/A

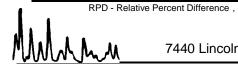
LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal		LCS/LCSD Numbe	
099-12-767-2,200	Aqueous	GC/MS OO	07/14/09	07/14	/09	090714L	01
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	101	84-120	78-126	5	0-8	
Carbon Tetrachloride	104	100	63-147	49-161	4	0-10	
Chlorobenzene	99	97	89-119	84-124	2	0-7	
1,2-Dibromoethane	106	96	80-120	73-127	10	0-20	
1,2-Dichlorobenzene	104	94	89-119	84-124	10	0-9	Χ
1,1-Dichloroethene	93	92	77-125	69-133	0	0-16	
Ethylbenzene	103	98	80-120	73-127	5	0-20	
Toluene	90	96	83-125	76-132	7	0-9	
Trichloroethene	90	94	89-119	84-124	5	0-8	
Vinyl Chloride	90	90	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	98	95	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	100	98	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	89	85	81-123	74-130	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	98	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	106	76-124	68-132	0	0-10	
Ethanol	92	95	60-138	47-151	3	0-32	
TPPH	86	79	65-135	53-147	8	0-30	

Total number of LCS compounds: 17 Total number of ME compounds: 0 Total number of ME compounds allowed :

LCS ME CL validation result: Pass







Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method:

09-07-0657 EPA 5030B

N/A

LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

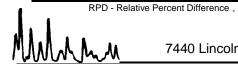
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal	ate yzed	LCS/LCSD I Numbe	
099-12-767-2,207	Aqueous	GC/MS RR	07/17/09	07/17	/09	090717L	01
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	107	106	84-120	78-126	1	0-8	
Carbon Tetrachloride	103	106	63-147	49-161	3	0-10	
Chlorobenzene	105	106	89-119	84-124	0	0-7	
1,2-Dibromoethane	109	106	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	105	103	89-119	84-124	2	0-9	
1,1-Dichloroethene	102	105	77-125	69-133	2	0-16	
Ethylbenzene	104	105	80-120	73-127	1	0-20	
Toluene	105	105	83-125	76-132	0	0-9	
Trichloroethene	107	105	89-119	84-124	2	0-8	
Vinyl Chloride	94	96	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	104	106	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	99	98	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	100	101	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	104	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	103	76-124	68-132	1	0-10	
Ethanol	96	99	60-138	47-151	4	0-32	
TPPH	91	90	65-135	53-147	1	0-30	

Total number of LCS compounds: 17

Total number of ME compounds: 0

Total number of ME compounds allowed:

LCS ME CL validation result : Pass







Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112-1105 Date Received: Work Order No: Preparation: Method:

09-07-0657 EPA 5030B

N/A

LUFT GC/MS / EPA 8260B

Project: 5251 Hopyard Rd., Pleasanton, CA

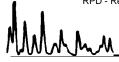
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal	ate yzed	LCS/LCSD Numbe	
099-12-767-2,219	Aqueous	GC/MS W	07/18/09	07/18	/09	090718L	01
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-120	78-126	1	0-8	
Carbon Tetrachloride	104	101	63-147	49-161	3	0-10	
Chlorobenzene	103	99	89-119	84-124	4	0-7	
1,2-Dibromoethane	108	97	80-120	73-127	11	0-20	
1,2-Dichlorobenzene	105	102	89-119	84-124	2	0-9	
1,1-Dichloroethene	104	101	77-125	69-133	3	0-16	
Ethylbenzene	113	108	80-120	73-127	4	0-20	
Toluene	109	110	83-125	76-132	1	0-9	
Trichloroethene	106	103	89-119	84-124	3	0-8	
Vinyl Chloride	84	88	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	107	105	82-118	76-124	3	0-13	
Tert-Butyl Alcohol (TBA)	85	97	46-154	28-172	13	0-32	
Diisopropyl Ether (DIPE)	105	101	81-123	74-130	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	107	106	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	117	112	76-124	68-132	4	0-10	
Ethanol	83	89	60-138	47-151	8	0-32	
TPPH	102	104	65-135	53-147	2	0-30	

Total number of LCS compounds: 17

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass





Glossary of Terms and Qualifiers



Work Order Number: 09-07-0657

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
Α	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

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SPE	CIAL INSTRUCTIONS OR NOTES :			SHELL STATE				n IFS		(80	(8015M)													:					`		C°		
				☐ EDD N						(826	(80 a		(E0B)									_											
	uzanne McClurkin-Nelson w/final report clurkin-nelson@deltaenv.com			☑ RECEI	PT VERIF	ICATION R	EQUESTE	D		- Purgeable (8260B)	ctabl	<u>@</u>	es (8;	9	≖	â	(8)	<u> </u>			(B)	015M						ļ					
		SAMPL	ING			PRESER	VATIVE			Purg	xtra	8260	enat	826(260E	2601	826	8260	2000		1 (82	8) 0			ı								
LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	нст н	NO3 H2SO	4 NONE		NO. OF CONT.	трн -	TPH - Extractable	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8280B)	2	Ethanol (8260B)	Methanol (8015M)									ner PID R boratory		
11 12	5-11	7/40	W40	W	3				3	X		X	X	7	1	\top												\exists					┨
12	5-12	1 1	210	1	3				3	X		X	X								\top												٦
13	EW-1	1	1320	V	3				3	X		X	X																				
					<u> </u>										_	_	_ _			_	\perp							\perp					
	· · · · · · · · · · · · · · · · · · ·									_						\perp	_	\perp															į
							-				\rightarrow	_		_	_	_		4		_ _	\downarrow							\perp					4
		-							ľ						İ	l			ŀ														1
	_																											T					٦
Relinquishe	od by: (Sumator)	<u> </u>	Re	ecotved by: (\$10	11/1	11	R	,		 ^				7									Date:	1	. 1			,	Time:				-
	a by ks (Mayle)				10	U/		ems	<u>i</u> _		usl	oel	yeu	۸)										711	ble	<u>)</u>	₹ 		16	25	•		
ANH	T // MON Sampe C	. لـ اسم	<u> </u>	(1907/899	nature)	SÓ	\ \	lly	4.	رم	17	_		/									Date:	7/1	2/	, 29)		Time:	003			7
Tannquishe	d by: (Signature)	3-09	Re	eceived by: (Sig	nature)		jes	<u>vy</u>	"													-	Dale:	<u> </u>	<u> </u>			+	Time:				7
18	(SI)	37				2_	$\overline{}$	_0		E	_	_											7	19	6	9	7		10	لاد	0		Ę
<u>~</u>	830 5/22/29[7																•		•					1		/			0:	5/2/06 Rev	sion		-9



work order #: **09-07-** 回管管

Laboratories, Inc. SAMPLE RECEIPT FORM Cooler ____ of ____

CLIENT: Blaine Tech	DATE: <u>07</u>	109109
TEMPERATURE: (Criteria: 0.0 °C − 6.0 °C, not frozen) Temperature	of sampling.	Sample Initial:
CUSTODY SEALS INTACT: Cooler	□ N/A	Initial: YC Initial: T.M
SAMPLE CONDITION: Ye		N/A
Chain-Of-Custody (COC) document(s) received with samples		
COC document(s) received complete	2 0	
\square Collection date/time, matrix, and/or # of containers logged in based on sample labels.		
\square COC not relinquished. \square No date relinquished. \square No time relinquished.		
Sampler's name indicated on COC	1 -	
Sample container label(s) consistent with COC	Z □	
Sample container(s) intact and good condition	7 0	
Correct containers and volume for analyses requested		
Analyses received within holding time		
Proper preservation noted on COC or sample container		
☐ Unpreserved vials received for Volatiles analysis		
Volatile analysis container(s) free of headspace	2	
Tedlar bag(s) free of condensation		
CONTAINER TYPE:		
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve □EnCores® □To	erraCores [®] □]
Water: □VOA 🗹 VOAh □VOAna₂ □125AGB □125AGBh □125AGBp □	11AGB □1AGI	Bna₃ □1AGBs
□500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs [
□250PB □250PBn □125PB □125PB znna □100PJ □100PJ na ₂ □		
Air: □Tedlar [®] □Summa [®] □ Other: □		_
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth)		A 1 A
Preservative: h: HCL n: HNO3 na ₂ :Na ₂ S ₂ O ₃ Na: NaOH p: H ₂ PO ₄ s: H ₂ SO ₄ znna: ZnAc ₂ +NaOH f: Fie		

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APPENDIX D

BLAINE TECH SERVICES, INC. FIELD DATA SHEETS

SHELL SITE INSPECTION CHECKLIST

Client Date	6/23/0	9
Site Address 5251 Hopyard Rd Pleasanton		
Job Number 090623-MS2 Technician	v5	
Site Status Scall Branded Station, Vacant Lot Other		
Inspected / Labeled / Cleaned - all wells on Scope Of Work		
Inspected / Cleaned Components - all other identifiable wells		N/A
Inspected site for site investigation & site remediation related trip hazards		
Completed all outstanding BLAINE Wellhead Repair Order(s)		N/A
Completed Shell Wellhead Repair Form(s)		N/A
Inspected treatment / remediation system compound for security, cleanliness and appearance		DIR
Inspected vacant lot for signs of habitation, hazardous materials or terrain, overgrown vegetation and security		WAA
Visually inspected site drums for condition and proper labeling		ATTA
Unresolved deficiencies identified - "Notice of Deficient Condition"		
form(s) completed		N/A
Notes		
		
PROJECT MANAGER ONLY		
Checklist Reviewed Notes Initial/Date		-

BLAINE TECH SERVICES, INC.

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

SEATTLE

www.blainetech.com

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address	52	.Sl	140	PYA	42D	RD			Date
Job Number	09	0630) <u>- つ</u> (Pi		Tec	hnician	75	Date 63009 Page of
Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-10				Х	Х		Χ		NO TAG
S-11					×		X		NO TEG
S-12	XD				×		X		NO TAG
								·	
*Well box must meet "MONITORING WELL Notes: -	all three	e criteria r less) 3)	to be	comp L TAC	liant: S IS PI	1) WELL IS RESENT, S	S SECURA SECURE, A	BLE BY DE ND CORRE	ESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS ECT
	-								·
- Pr.							·		

1200

WELL GAUGING DATA

Project # 525	4 [®] 090630	Date	6/30/09	Client	SHELL	
Site 5251	HOPVARD	RD.				

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Immiscible	Immiscibles Removed		Depth to well bottom (ft.)	Survey Point: TOB or	Notes
S-10	0755	4					8,04	18.87		
S-11	0800	4					7.97	19.85	ang dalah serjanya Cimikibate	
S-12	0750	4					8.49	20,20		
									**	
					:					
							:			
; =										
								·		

	- Translation	W	DEVEL	OPMENT	DATA J	ET	
Project #	: 09063	30-JP	Andrews and Andrew	Client: St	4ECL		
Develope	er: 3 0			Date Deve	eloped: 6/3	30/09	
Well I.D.	S-10			Well Dian	neter: (circle	e one) 2	3 🛈 6
Total We	ll Depth:		A.C. von Annew Service and Control Afficial Service (Control Afficia) Service (Control Afficial Service (Control Afficial Service (Control Afficial	Depth to V	Vater:	445	
Before 14	3.87	After		Before 8	.04 Aft	er	
Reason n	ot develo _l	ped:		If Free Pro	duct, thick	ness:	
Volume Con	version Factor (VC	ns: Swabe f):	Well dia. V	CF	123		
where 12 = in	nmeter (in.) 1416		3" = 0. $4" = 0.$ $6" = 1.$ $10" = 4.$	16 37 65 47 08			
7.0		X	10			70)
1 Case	Volume	***************************************	Specifie	d Volumes	Notice of the Control	gal	lons
Purging De	vice:		Bailer Suction Pum	р		Electric Su Positive A	ıbmersible ir Displacement
		Type of Insta Other equipm		none	NOCK_		
TIME	TEMP (F)	рН	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:		NOTATIONS:
0905	69.3	7.63	2559	>1000	7.0	BOWN	SANOY
0914	68.4	7.95	2298	71020	14.0	fe.	10
0921	68.3	7.99	2001	71000	21.0	<i>y</i> ,	M SAIR CITYLE

TIME	TEMP (F)	рН	(mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0905	69.3	7.63	2559	>1000	7.0	BROWN, SANDY
0914	68.4	7.95	2298	71020	14.0	10 10
0921	68.3	7.99	2001	71000	21.0	" SAUD CLOCKGED
1102	72.0	7,97	2002	71000	28.0	11)1
1112	72.6	7.95	1903	71000	35.0	LIGHTENING SAND CLOSER
1126	72.3	7.91	1840	71000	42.0	12 70712
						PLAMGROUND-TMPE
					7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SAND IN WELL, DIB 19.22
				5		POIT PUMPS BOTTOM STILL SANDY.
i vinda starting to the date of the starting time o						
· · · · · · · · · · · · · · · · · · ·					una participa de la companya del companya de la companya del companya de la compa	
manuska kati dunniya kati manuska kata ki a gayan						
Did Well Dew	vater? NO	If yes, note abo	ve.	Gallons Actually	/ Evacuated:	42

WLLL DEVELOPMENT DATA LHEET

Project #: 090630-JP			Client: SHELL	
Developer: 3P			Date Developed: 6/30/09	
Well I.D. S-II			Well Diameter: (circle one) 2 3 ②	6
Total Well Depth:			Depth to Water:	
Before 19.85 After	19.86		Before 7.87 After 15.16	
Reason not developed:			If Free Product, thickness:	
Additional Notations: Swar	BED 当S	JEGE	B F02 15 MIN	
Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$ where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 231 = in 3/gal	Well dia. 2" 3" 4" 6" 10"	= = = = = = = = = = = = = = = = = = = =	VCF 0.16 0.37 0.65 1.47 4.08 6.87	
7.8 X 1 Case Volume			fied Volumes = gallons	

Purging Device:

☐ Bailer

☐ Suction Pump

Electric Submersible

Positive Air Displacement

Type of Installed Pump

Other equipment used

4" Super Block

TIME	TEMP (F)		Cond.	TURBIDITY	VOLUME	Nomember
		pH	ms or μS)	(NTUs)	REMOVED:	NOTATIONS:
1335	75,5	7.63	11.75	>1000	7.8	DK BRN, SILTY
1345	75.5	7,50	9929115	>1000	15.6	LT BRN, SILTY
1356	73.9	7.44	8725	>10:00	23.4	1/1
1407	73.7	7.49	8510	71000	31.2	li (i
1417	72.2	7.41	8169	71000	39.0	fi fi
1427	72.9	7.37	7774	71000	46.8	1,
1438	979739	7.40	7505)100D	54.6	HARD BINN, NO SILT, TO ES
1440	70,6	7.36 -	860 3 860	3 71000	62.4	IT BEN CLOUDY
1442	69.7	7,39	19473®	71000	70,2	44 1: 4.1
1444	69.6	7.35	7660	71000	78.0	14 11 11
1446	19.4	7,37	7022	71000	85,8	31 11
1448	69.1	7.35	6848	71000	93.6	' ' ' (1
Did Well Dew	vater? NO	If yes, note abo	ve.	Gallons Actuall	y Evacuated:	93.6

W. JEVELOPMENT DATA J. ET

	Y Y		
Project #: 090630	-JP		Client: SHELL
Developer: 3P			Date Developed: 6/30/09
Well I.D. S-12			Well Diameter: (circle one) 2 3 ② 6
Total Well Depth:			Depth to Water:
Before 20.20 A	fter		Before 8.49 After
Reason not developed	l:	٨	If Free Product, thickness:
Additional Notations:	Surge	of E sur	Used for 15' ming
Volume Conversion Factor (VCF): { $12 \times (d^2/4) \times \pi$ } /231 where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 231 = in 3/gal		Well dia. VCI 2" = 0.16 3" = 0.37 4" = 0.65 6" = 1.47 10" = 4.08 12" = 6.87	
1 Case Volume	X	3/10 Specified	Volumes = gallons
Purging Device:		Bailer Suction Pump	☐ Electric Submersible ☐ Positive Air Displacement

Type of Installed Pump
Other equipment used

4" Suec

4" Suece Block

			Cond.	TURBIDITY	VOLUME	
TIME	TEMP (F)	pН	(mS or µS)	(NTUs)	REMOVED:	NOTATIONS:
13:07	72.6	7.59	2367)19 <u>0</u> 0	7.6	Brown silty
15:12	7(.9	7.83	2427	7000	15.2	Brown Sith San Hearl &
186.17	626	8.05	234(>(000)	22,8	Brain sily sen Had Bother
15:23	68.5	8-1s	2.284	>(000)	30.4	(9
15:29	68.9	8.00	27.06	>1000	36.0	Ford Boffely
15:35	68.9	8,00	2179	> 1090)	45.6	Herd Botton Silk
15-41	73.2	8.00	217	5(000)	53.2	Switchy +D ES
15:47	67.5	8.04	1889	X000	605	Herd Botton Brown
45:-53	68.2	7.91	2314	7000	68.4	Hard Botton
45459	68.1	793	2218	>1000	76	Hard Boffer
				the state of the s		'
			:			
Did Well Dew	ater?	If yes, note abov	∕e.	Gallons Actuall	y Evacuated:	

550 553

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address	5	25 L	+	lor	216	4SD	<u>a.</u>	····	Date 7609
Job Number	09	<u>1070</u>	<u>٧ ح</u>	2 _i n	11	_ Tec	hnician	RN	Carry Page of 1
Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
S-1	×								DO TACA
5-2	X								NO TACY
5-3	X								No TACY
S-4 S-5	X								NO TAG
S-5	X	A							NO TAG
S-4 S-7 S-8	×								NO TAG
<u> </u>	X								No TAG
<u> </u>							.		Cheisty Boy
5-9	X	×							NO TAG
5-10	X			_					NOTAG
3-11	X	X							NO TAGE NO TAGE
S-12	×								NO TAG
EW-1	X	X							NO TAG
			_						
*Well box must meet "MONITORING WELL	all three	e criteria (to be o	ompl	iant:	1) WELL IS	SECURAL	BLE BY DE	SIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS
Notes:	(1∠ 0	n 1655) 3)	AAETI	. IAG	13 P	LESENI, S	EGUKE, A	MD COKKE	O1
BLAINE TECH SERVI	ICES INC	http://www.accommons.com		AN 109		SACRAME		OS ANICELES	SANDIECO SEATLE WAN blanched com

WELL GAUGING DATA

Project # 090706 RM Date 7/6/09 Client SHELL

Site 5251 HOPYARO Rel. Pleasanton

	Well ID	Time	Well Size (in.)	Sheen / Odor		Thickness of Immiscible Liquid (ft.)		1	Depth to well bottom (ft.)	Survey Point: TOB or	Notes
4.	8-1	0844	3		1, ()	[=:q=:e (ii.)	(1111)	8.42	28.39	1	Notes
	S-2	0848	3					8.53	24.05		7
	S=3	0839	3		(g) 1	1		8.20	24.10	** ***	9
	S-21	9832	3				:	8.79	24.18		*
		0828	3			. 4		918	24.02		00
	S-6	9920	3					8.32	25.42		TR
	8-7	0915	3					8,63	25.01		TR
	5-8	1006	3					7.83	24.53		TR
	5-9	C805	2					8.06	19.74		L
	S-10	0825	4					8.11	19.14		
	8-11	0811	4					7.98	19.63	Special Control of Con	
-	S-12	0834	4					8.89	20.19		
-	EW-1	CBUZ	4					8.21	19.70		
-			~								
-											
-											
					200						

SHELL VELL MONITORING DATA LIEET

BTS#:	106- Pail			Site: 5	7251 H	OPYARO	Pd.	Pleasanton				
Sampler: <	·			Date:	7/6/	09						
Well I.D.: §	-10			Well D	Well Diameter: 2 3 4 6 8							
Total Well I	Depth (TD): 19.12	4	Depth	to Water	(DTW):	p.8		11-03			
Depth to Fro	ee Product	:		Thickn	ess of F	ree Produ	ct (fee	t):				
Referenced	to:	PVC	Grade	D.O. M	leter (if	req'd):		YSI HACH				
DTW with 8	80% Recha	arge [(H	eight of Water	Columi	n x 0.20)	+ DTW]	: 10.	31				
Purge Method:	Bailer Disposable Bositive Air I	Displaceme:	nt Extrac Other	Waterra Peristaltic tion Pump		Sampling	Method: Other:	Sailer Disposable Bailer Extraction Port Dedicated Tubing				
					Well Diamete	r Multiplier 0.04	Well D	Diameter Multiplier 0.65				
7.2 (Case Volume		S fied Volum	$= \frac{216}{\text{Calculated Vo}}$	_ Gals. lume	2" 3"	0.16 0.37	6" Other	1.47				
Time	Temp (°F)	рН	Cond. (mS or us)	İ	bidity ΓUs)	Gals. Rer	noved	Observations				
1119	69.3	8.53	2438	7100	©0	7.2	,					
1121	68.7	8.14	2881	710	00	14.4						
1123	68.1	812	2779	718	000	21.0	P					
, , , , , , , , , , , , , , , , , , , ,	<u> </u>							:				
			· :					i				
Did well de	water?	Yes (No	Gallon	s actuall	y evacuat	ed: 2	L. G				
Sampling D	ate: 7 6	ુ લ	Sampling Tim	e: NSS	, >	Depth to	Water	: 10.30 (when)				
Sample I.D.	•			Labora	itory:	CalScience	Colu	mbia Other				
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other: Se	55 Cd					
EB I.D. (if	applicable)):	@ Time	Duplic	ate I.D.	(if applic	able):					
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:						
D.O. (if req	'd): P	re-purge:		mg/L	P	ost-purge:		r	ng _{/L}			
O.R.P. (if re	eq'd): P	re-purge:		mV	P	ost-purge:		n	nV			

SHEL. VELL MONITORING DATA LEET

BTS #: 09	0706- EN	4		Site: ≤	525i	HOPYAR	N Pa	. Pleasanton	
Sampler:	PM.				7/6/04				
Well I.D.: 9	3-11			Well I	Diameter	: 2 3	<u>(4)</u>	6 8	
Total Well): 19.	63	Depth	to Water	r (DTW):	4.99	3	1165
Depth to Fr	ee Produc	t:		Thicks	ness of F	ree Produc	t (fee	t):	
Referenced		PVC	Grade		Meter (if			YSI HACH	
DTW with	80% Rech	arge [(H	leight of Water	Colum	n x 0.20)) + DTW]:	10	.31	
Purge Method:	Bailer Disposable B Positive Air I Electric Subr	Displaceme	ent Extrac Other	Waterra Peristaltio etion Pump	2	Sampling M	lethod: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing	
1 Case Volume		3 fied Volum	= 27.6 Calculated Vo	_ Gals. lume	1" 2" 3"	0.04 0.16 0.37	4" 6" Other	0.65 1.47 radius ² * 0.163	
Time	Temp (°F)	рН	Cond. (mS or (IS))		bidity TUs)	Gals. Rem	oved	Observations	
1025	667	7.77	7619	716	රව	7.6			
1027	Cec. 8	7.70	8341	*7(E	100	15.2			
1029	66.8	7.48	8423	716	G 00	22.8			
103(67.1	7.43	8436	718	160	30.4		:	
Did well de	water?	Yes (No	Gallon	s actuall	y evacuate	ed: J	0.4	
Sampling D)ate: 7/6/	09	Sampling Time	e: 104	W	Depth to	Water	: 10.27	
Sample I.D.	.: S-4			Labora	atory: (CalScience	Colur	nbia Other	_
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other: SEC	5 (Li	oe '	
EB I.D. (if	applicable)):	(a) Time	Duplic	ate I.D.	if applical	ole):	: : : : : : : : : : : : : : : : : : :	
Analyzed for	or: TPH-G	BTEX	МТВЕ ТРН-D	Oxygen	ates (5)	Other:			
D.O. (if req	'd): Pi	re-purge:		mg/L	P	ost-purge:		. n	^{1g} /L
O.R.P. (if re	ea'd): Pi	re-purge:		mV	Р	ost-purge:		m	ıV

SHELL VELL MONITORING DATA LIEET

BTS#: C	90706	12m7		Site: 5	5251	HOPYAPE	SPS	Pleasanton	
Sampler:				Date:	7/61	09			
Well I.D.:	S-12			Well D	Diameter	: 2 3	4) 6	8	
Total Well	Depth (TD)): 20	, 19	Depth	to Wate	r (DTW): g	.89		1,5
Depth to Fi	ree Produc	t:		Thickn	ness of F	ree Product	(feet):		
Referenced	l to:	PVC	Grade	D.O. N	Aeter (if	req'd):	YS	І НАСН	
DTW with	80% Rech	arge [(H	leight of Water	Colum	n x 0.20)) + DTW]:	1.15	Ĵ	
Purge Method:	Bailer Disposable B Positive Air I	Displaceme	nt Extrac Other	Waterra Peristaltic ction Pump		Sampling Met	ther:	Bailer Disposable Bailer Extraction Port Dedicated Tubing	·
1 Case Volume	Gals.) XSpeci	3 fied Volum		_ Gals. Jume	Well Diameter 1" 2" 3"	0.04 0.16 0.37	Well Diam 4" 6" Other	0.65 1.47 radius ² * 0.163	
Time	Temp (°F)	рН	Cond. (mS or (187)	1	bidity ΓUs)	Gals. Remov	/ed	Observations	
1201	67.0	7.92	1604	23	31	7.4			
1203	66.3	7.78	1741	95	2	14.8			
1205	66-1	7.78	1761	-7100	OO	22.7			
Did well de	ewater?	Yes (No	Gallon	s actuall	y evacuated	: 2	2,2	
Sampling D	Date: 7/6	109	Sampling Tim	e: 121	٥	Depth to W	ater:	11.12	
Sample I.D	: 8-12	•		Labora	tory:	CalScience	Columb	ia Other	
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other: 865	Oc		
EB I.D. (if	applicable)):	@ Time	Duplic	ate I.D.	(if applicabl	e):		
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygen	, ,	Other:			
D.O. (if req	(d): P	re-purge:		mg/L	Р	ost-purge:		mg	⁵ /L
O.R.P. (if re	eq'd): Pi	re-purge:		mV	Р	ost-purge:		m	V

APPENDIX E SURVEY REPORT



Mid Coast Engineers

Civil Engineers and Land Surveyors

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Richard A. Wadsworth
Civil Engineer

Stanley O. Nielsen
Land Surveyor
Lee D. Vaage
Land Surveyor

Jeff S. Nielsen
Land Surveyor

June 26, 2009

Cora Olson DELTA Consultants 312 Piercy Road San Jose, CA 95138

Re: Shell-branded Service Station, 5251 Hopyard Road, Pleasanton, California; DELTA Project SCA5251H1, MCE Job No. 06251X2

Dear Ms. Olson,

As you requested, on June 25 we surveyed four additional monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude, and are consistent with our previous surveys of November 21, 2006 and December 14, 2007.

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 HS5408 (HPGN CA 04 07) and DE8479 (C226), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 3, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700/5800 system (Code T57).

The benchmark used for this survey is DE8479, a survey disk set in concrete in the median strip between the eastbound and westbound lanes of Alcosta Boulevard approximately 265 feet west of Interstate Highway 680. Elevation = 419.00 feet, NGVD 29, converted by CORPSCON/VERTCON (421.72, NAVD88 datum).

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

Yours truly,

ee D. Vaage



SHELL OIL PRODUCTS US SHELL BRANDED SERVICE STATION 5251 Hopyard Road Pleasanton, California

DELTA Project Number SCA5251H1

Project: 06251X2

User name MCE Date & Time 9:49:36 AM 6/26/2009

Coordinate System US State Plane 1983 Zone California Zone 3 0403

Project Datum NAD 1983 (Conus)

Vertical Datum NGVD 29

Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Point Number	Northing	Easting	Elevation	Description
15	2079800.09	6155556.61	326.98	EW-1toc
16	2079800.51	6155556.78	327.21	EW-1tob
17	2079895.70	6155550.11	326.24	S-10toc
18	2079896.04	6155550.28	326.86	S-10tob
36	2079943.18	6155669.79	326.12	S-11toc
37	2079943.55	6155669.77	326.80	S-11tob
40	2079736.38	6155664.30	326.91	S-12toc
41	2079736.68	6155664.39	327.26	S-12tob

SHELL OIL PRODUCTS US SHELL BRANDED SERVICE STATION 5251 Hopyard Road Pleasanton, California

DELTA Project Number SCA5251H1

Project: 06251X2

User name MCE Date & Time 9:49:36 AM 6/26/2009

Coordinate System US State Plane 1983 Zone California Zone 3 040:

Project Datum NAD 1983 (Conus)

Vertical Datum NGVD 29

Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Point Number	Latitude	Longitude	Elevation	Description
15	37.6983694 7 4°N	121.903725580°W	326.98	EW-1toc
16	37.698370647°N	121.903725024°W	327.21	EW-1tob
17	37.698631771°N	121.903753004°W	326.24	S-10toc
18	37.698632690°N	121.903752444°W	326.86	S-10tob
36	37.698767086°N	121.903341851°W	326.12	S-11toc
37	37.698768089°N	121.903341931°W	326.80	S-11tob
40	37.698198965°N	121.903350093°W	326.91	S-12toc
41	37.698199785°N	121.903349798°W	327.26	S-12tob

	Α	В	С	D	E	F		G	Н	1	J	K	L	
1	SHELL OIL	PRODUC	TS US	•										
2	SHELL BRA	NDED SE	RVIC	E STATION										
3	5251 Hopyai	rd Road					I							
4	Pleasanton,	Californi	а											
5	"													
6	DELTA Proj	ect Numb	er SC	A5251H1										
7														
8	Project: 062													
9	User nan				9:49:36 AM 6/2									
10				State Plane	1983 Zone	California Z	<u> Zone 3 0</u>	403						
11	Project D	atum N	AD 19	83 (Conus)				····						
12	Vertical [Datum N	IGVD	29							"			
13	Coordina	te Units	US s	urvey feet										
14	Distance			vey feet									<u> </u>	
15	Elevation	Units U	JS sur	vey feet										
16														
17		EW-1	MW	06/25/2009	37.6983695	-121.9	037256	CGPS	NAD83	1	Mid Coast Engineers	T57	top of	casing
18								· · · · · · · · · · · · · · · · · · ·						
19		S-10	MW		37.6986318						Mid Coast Engineers			
20		S-11	MW	06/25/2009	37.6987671						Mid Coast Engineers			
21		S-12	MW	06/25/2009	37.6981990	<u>-121.9</u>	033501	<u>CGPS</u>	NAD83	1	Mid Coast Engineers	T57	top of	casing

····									
	A	В	С	D	E	F	G	Н	1
1	SHELL OIL PRO								
2	SHELL BRANDED SERVICE STATION								
3	5251 Hopyard F	Road							
4	Pleasanton, Ca	lifornia							
5									
6	DELTA Project								
7									
8	Project: 06251)	(2							
9	User name MCE Date & Time 9:49:36 AM 6/26/2009								
10	Coordinate System US State Plane 1983 Zone California Zone 3 0403								
11	Project Datu	m NAD	1983 (Conus	s)					
12	Vertical Datum NGVD 29								
13	Coordinate l			- Land					
14									
15	Elevation Ur			<u> </u>					
16									
17		EW-1	06/25/2009	326.98	CGPS	29	0.5	Mid Coast Engineers	-0.23
18									
19		S-10	06/25/2009		CGPS			Mid Coast Engineers	-0.62
20		S-11	06/25/2009		CGPS			Mid Coast Engineers	-0.68
21		S-12	06/25/2009	326.91	CGPS	29	0.5	Mid Coast Engineers	-0.35

