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Environmental Health

THIRD QUARTER 2012
GROUNDWATER MONITORING REPORT
JORDAN RANCH – PARCEL H
DUBLIN, CALIFORNIA



ENGEO
INCORPORATED

Submitted to:

Dilan Roe

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502-6577

Prepared by:

ENGEO Incorporated

Project No.

7828.000.001

August 22, 2012

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- Expect Excellence -

Project No.
7828.000.001

August 22, 2012

Dilan Roe
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Jordan Ranch Parcel H – Former Leaking Underground Storage Tank
Dublin, California
ACEH Case No. R00002918

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT

Dear Ms. Roe:

This letter summarizes the results of the July 2012 groundwater monitoring event completed for the Jordan Ranch – Parcel H (Site) located in Dublin, California. This is the third monitoring event following completion of the soil and groundwater remediation activities performed in fall 2011. The Site is located at the east side of the intersection of Central Parkway and Fallon Road. A Vicinity Map is attached as Figure 1.

GROUNDWATER MONITORING

Groundwater Elevations

ENGEO measured and recorded groundwater depths from the top of well casings (TOC) for wells MW-1, MW-2, MW-4, and MW-5 on April 30, 2012. The monitoring well locations are shown on Figure 2.

The depths to groundwater at the Site ranged from 10.58 feet below the TOC in MW-1 to 12.60 feet below the TOC in MW-2. During this sampling event, the direction of groundwater flow appeared to be towards the south at a gradient of approximately 0.028 feet per foot (ft/ft). Groundwater elevation contours for this event are depicted on Figure 2. The cumulative groundwater elevation data from this event is summarized in Table 1 (attached).

Well Sampling

After recording groundwater depth measurements, we collected groundwater samples from wells MW-1, MW-2, MW-4, and MW-5. Well sampling logs are attached.

ENGEO conducted the following activities during sampling:

- Recorded in-situ dissolved oxygen (DO) and oxidation reduction potential (ORP) prior to purging.
- Purged three well casing volumes from wells MW-1, MW-2, MW-4, and MW-5 using a submersible pump.
- Monitored and recorded pH, temperature, and conductivity measurements during purging.
- Contained the purge water in labeled 55-gallon drum.
- Obtained groundwater samples using new disposable bailers.
- Transferred the groundwater to laboratory provided pre-preserved sample containers, which were labeled to include sample identification, date, and time of collection and requested analyses.
- Stored the groundwater samples on ice during transportation to a State certified laboratory using a chain-of custody record.
- Submitted the samples for the analysis of total petroleum hydrocarbon as gasoline (TPHg), BTEX, and MTBE by EPA Test Method 8260B, and diesel (TPHd) by EPA Test Method 8015B.

Groundwater Analytical Results

Concentrations of petroleum hydrocarbons detected during the Third Quarter 2012 monitoring event are tabulated below:

Well Location	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	<50	<50	<0.5	<0.5	<0.5	<1	<0.5
MW-2	1,200	15,000	73	71	980	1,900	260
MW-4	<50	<50	<0.5	<0.5	<0.5	<1	14
MW-5	2,200	45,000	940	2,300	3,300	14,000	290

In-situ DO measurements for MW-2, MW-3, and MW-5 ranged from 0.28 to 0.44 mg/l; and ORP readings ranged from -107.1 to 25 mV; which are indicative of anaerobic conditions. MW-1 exhibited an in-situ DO reading of 3.2 mg/l and an ORP reading of 29.2 mV, which is indicative of a more aerobic condition. Additional DO and ORP monitoring should be conducted to determine whether the groundwater beneath the site is primarily aerobic or anaerobic.

Cumulative groundwater monitoring well data is summarized in Table 2, attached. A copy of the groundwater laboratory report and chain-of-custody record are attached.

FINDINGS

A comparison of pre- and post-remediation groundwater data is provided in the table below. The data depicts notable decreases in benzene concentrations in MW-2 and MW-5, a notable decrease in the TPHg concentration in MW-5, and a notable decrease in the MTBE concentration in MW-4. Significant increases in MTBE concentrations were observed in MW-2 and MW-5. The post-remediation concentration of TPHg in MW-2 remains unchanged from the pre-remediation concentration.

Well Location	August 2010 (Pre)			July 2012 (Post)			Percent Increase/Decrease		
	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
MW-1	<50	<0.5	<0.5	<50	<0.5	<0.5	0%	0%	0%
MW-2	15,000	780	170	15,000	73	260	0%	-91%	+35%
MW-4	<50	<0.5	80	<50	<0.5	14	0%	0%	-83%
MW-5	74,000	7,500	100	45,000	940	290	-39%	-87%	+190%

As of July 2012, the detected concentrations in MW-2 and MW-5 have increased from the previous sampling event conducted in April 2012. Based on the groundwater analytical data, it appears that additional remediation will be necessary to achieve the water quality objectives.

FUTURE WORK

We submitted a workplan for additional soil assessment to ACEH on August 7, 2012. The purpose of the workplan is to evaluate remaining impacts in the saturated zone, adjacent to the sidewalls of the previous remedial excavation. Removal of the remaining soil impacts will likely be necessary in order to achieve the water quality objectives.

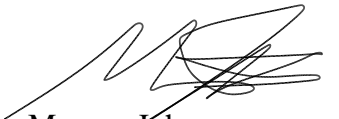
LIMITATIONS


At the time we performed our professional services, they were consistent with those generally accepted environmental engineering principles and practices currently employed in Northern California. ENGEO does not express or imply any other warranty. Findings in this report are valid as of the day of monitoring. However, changes in groundwater conditions can occur with the passage of time, whether due to natural processes or human activity on the Site or on surrounding properties. ENGEO prepared this report for the exclusive use of our client. This report is applicable only for the subject property. We are not responsible for others' interpretations of this report's data. This report does not represent a legal opinion.

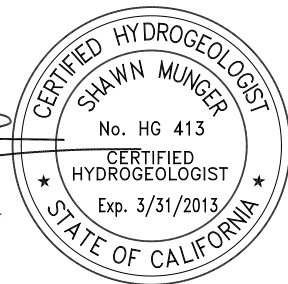
If you have any questions or comments regarding this report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated


Morgan Johnson
Environmental Scientist


Shawn Munger, CHG
Principal



Attachments: Figure 1 – Vicinity Map
Figure 2 – Groundwater Elevation Contour Map - July 2012
Figure 3 – Concentrations of Petroleum Hydrocarbons in Groundwater - July 2012
Table 1 – Groundwater Elevations
Table 2 – Groundwater Analytical Data
Monitoring Well Sampling Logs
Groundwater Laboratory Analytical Report and Chain-of-Custody Record

cc: Mr. Ravi Nandwana, BJP-ROF Jordan Ranch, LLC

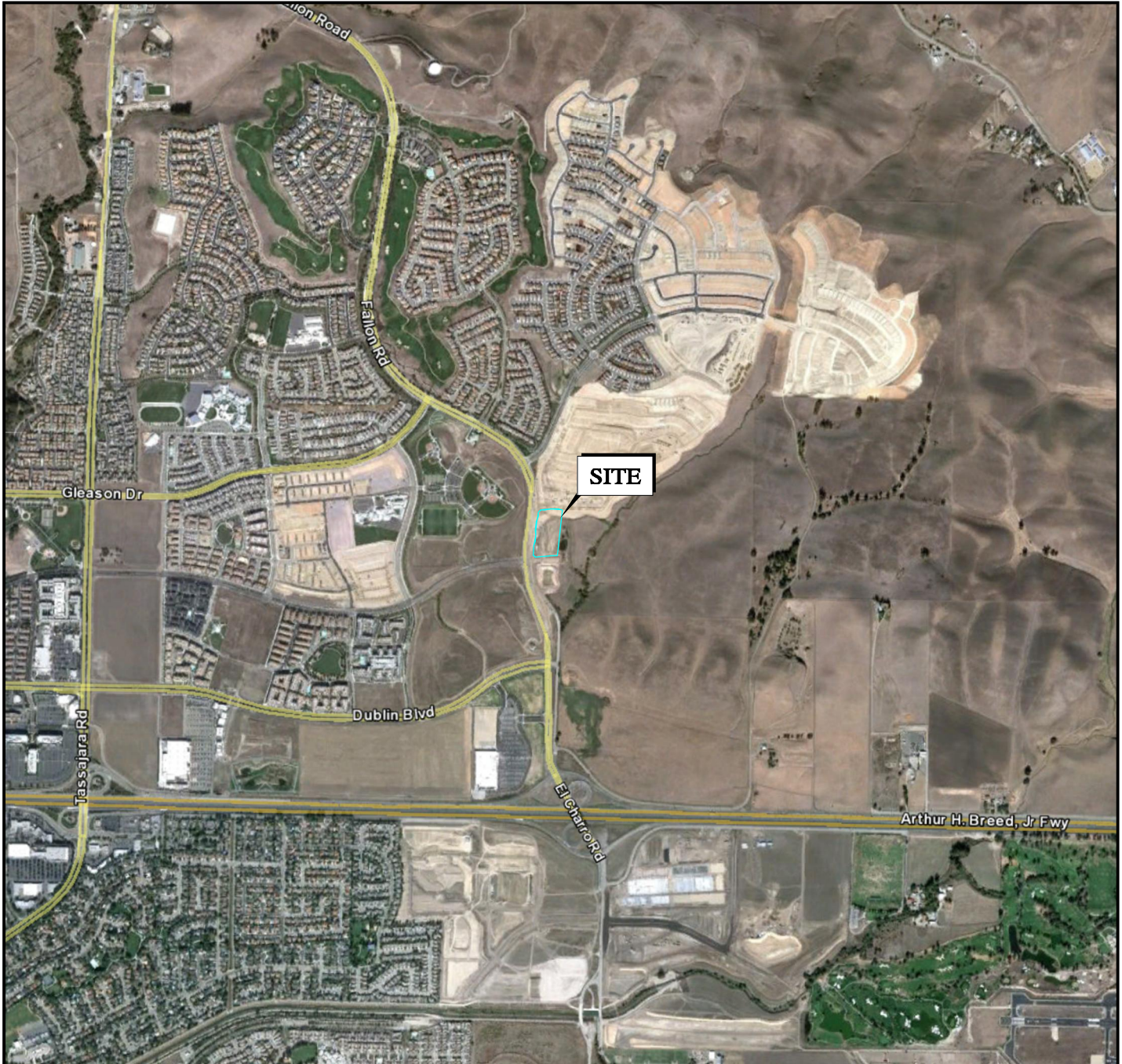
FIGURES

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation Contour Map

Figure 3 – Concentrations of Petroleum Hydrocarbons in Groundwater

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BASE MAP SOURCE: GOOGLE EARTH



VICINITY MAP
JORDAN RANCH - PARCEL H
DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001

DATE: AS SHOWN

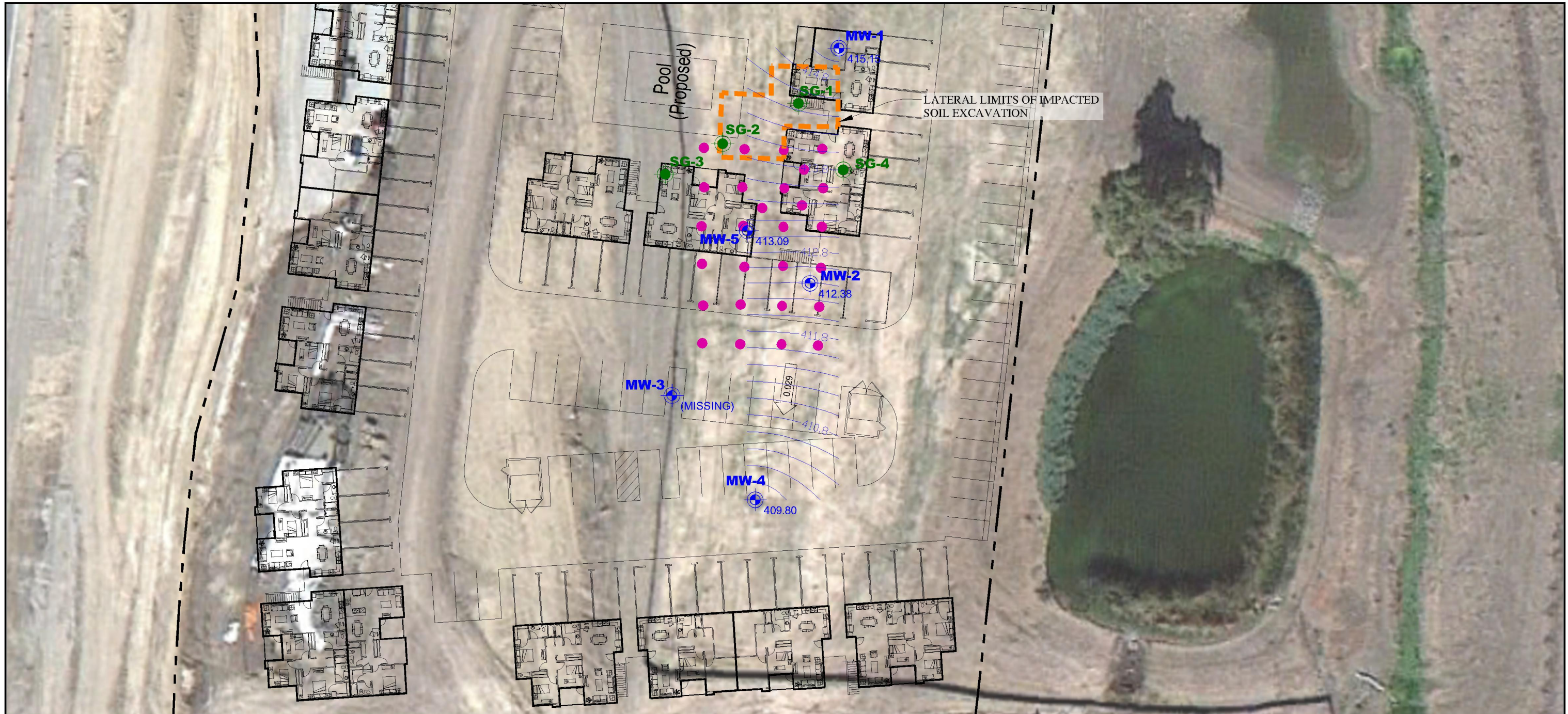
DRAWN BY: SRP

CHECKED BY: SM





FIGURE NO.

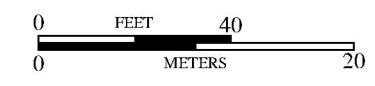
1

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EXPLANATION

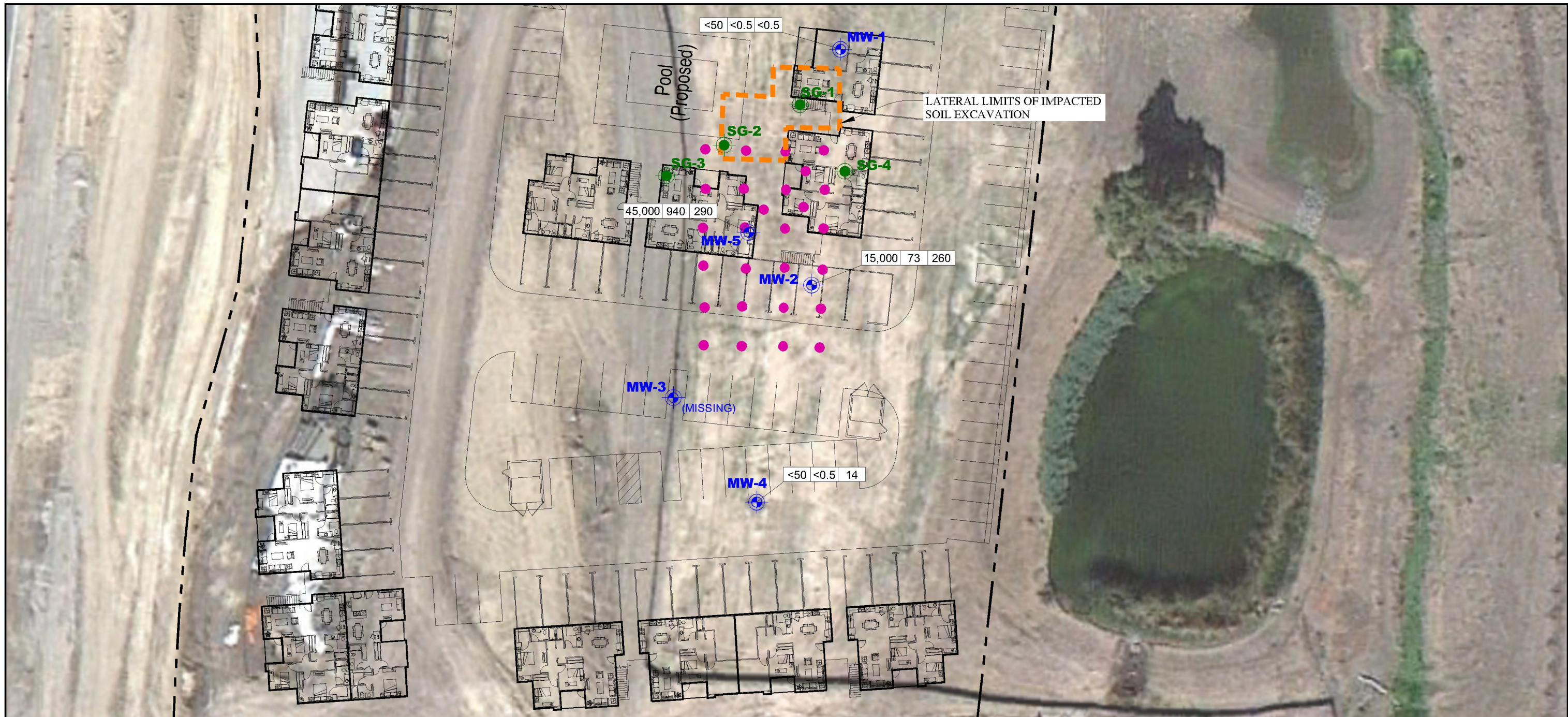
- MW-5**  APPROXIMATE LOCATION OF MONITORING WELL
- SG-4**  APPROXIMATE LOCATION OF SOIL GAS WELL
-  APPROXIMATE LOCATION OF PREVIOUS INJECTION POINT
-  GROUNDWATER FLOW DIRECTION



BASE MAP SOURCE: GOOGLE EARTH, ST. ANTON

	GROUNDWATER ELEVATION COUNTOUR MAP - JULY 2012		PROJECT NO.: 7828.000.001	FIGURE NO.
	JORDAN RANCH - PARCEL H		SCALE: AS SHOWN	2
	DUBLIN, CALIFORNIA		DRAWN BY: DLB	

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EXPLANATION

	APPROXIMATE LOCATION OF MONITORING WELL
	APPROXIMATE LOCATION OF SOIL GAS WELL
	APPROXIMATE LOCATION OF PREVIOUS INJECTION POINT

45,000 940 290	
↑	MTBE ($\mu\text{g/L}$)
↑	BENZENE ($\mu\text{g/L}$)
↑	TPHg ($\mu\text{g/L}$)

($\mu\text{g/L}$) MICROGRAMS PER LITER



BASE MAP SOURCE: GOOGLE EARTH, ST. ANTON



**CONCENTRATIONS OF PETROLEUM
HYDROCARBONS IN GROUNDWATER - JULY 2012**
JORDAN RANCH - PARCEL H
DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001	FIGURE NO.
SCALE: AS SHOWN	3
DRAWN BY: DLB	CHECKED BY: SM

TABLES

- Table 1 – Groundwater Elevations**
- Table 2 – Groundwater Analytical Data**

Table 1
Groundwater Elevations
Jordan Ranch
Dublin, California

Well Number	Date	Depth to Groundwater (1) (feet bgs)	Top of Casing Elevation (2) (feet)	Groundwater Elevation (feet msl)
MW-1	12/6/2005	17.08	425.73	408.65
	7/26/2006	13.92	425.73	411.81
	4/10/2008	11.64	425.73	414.09
	8/24/2010	11.75	425.73	413.98
	1/10/2012	10.52	425.73	415.21
	4/30/2012	10.40	425.73	415.33
	7/26/2012	10.58	425.73	415.15
MW-2	12/6/2005	18.01	424.98	406.97
	7/26/2006	15.44	424.98	409.54
	4/10/2008	14.02	424.98	410.96
	8/24/2010	14.17	424.98	410.81
	1/10/2012	12.83	424.98	412.15
	4/30/2012	12.20	424.98	412.78
	7/26/2012	12.60	424.98	412.38
MW-3	12/6/2005	17.35	421.47	404.12
	7/26/2006	14.20	421.47	407.27
	4/10/2008	12.31	421.47	409.16
	8/24/2010	12.29	421.47	409.18
	1/10/2012	Inadvertantly Covered by Grading Operations		
MW-4	12/6/2005	18.58	421.60	403.02
	7/26/2006	15.75	421.60	405.85
	4/10/2008	13.89	421.60	407.71
	8/24/2010	13.88	421.60	407.72
	1/10/2012	Obstruction in Casing		
	4/30/2012	11.52	421.60	410.08
	7/26/2012	11.80	421.60	409.80
MW-5	12/6/2005	16.40	424.04	407.64
	7/26/2006	13.89	424.04	410.15
	4/10/2008	12.24	424.04	411.80
	8/24/2010	12.20	424.04	411.84
	1/10/2012	11.11	424.04	412.93
	4/30/2012	10.50	424.04	413.54
	7/26/2012	10.85	424.04	413.19
NOTES:				
bgs = Below ground surface msl = Mean sea level				
(1) Depth to groundwater measured from top of well casing.				
(2) Well casing elevations surveyed by Quite River Services, Inc. January 16, 2007.				
* Depth to water measurement collected by ENGEO				

TABLE 2
Cumulative Monitoring Well Analytical Data
Jordan Ranch Monitoring Wells

Well ID	Date	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- Benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	12/6/2005	NA	64	2	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/10/2008	NA	<50	<0.5	<0.5	<0.5	<0.5	<50
	8/24/2010	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	1/10/2012	<50	<50	<1	1.1	1.1	2.4	<4
	4/30/2012	<50	<50	<0.5	<0.5	<0.5	<1	<0.5
	7/26/2012	<50	<50	<0.5	<0.5	<0.5	<1	<0.5
MW-2	12/6/2005	NA	3,400	470	<25	55	120	800
	7/26/2006	150	650	130	<0.5	<0.5	<0.5	510
	4/10/2008	NA	8,700	1,600	350	370	790	810
	8/24/2010	<50	15,000	780	93	1,200	2,600	170
	1/10/2012	1,100	4,200	32	10	210	337	<4
	4/30/2012	620	4,100	14	10	340	660	21
	7/26/2012	1,200	15,000	73	71	980	1,900	260
MW-3	12/6/2005	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/10/2008	NA	430	45	34	22	90	<0.5
	8/24/2010	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	1/10/2012	Well inadvertently covered by grading operations						
MW-4	12/6/2005	NA	70	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2006	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	4/10/2008	NA	830	29	19	16	54	1,200
	8/24/2010	<50	<50	<0.5	<0.5	<0.5	<1.0	80
	1/10/2012	Obstruction in well casing						
	4/30/2012	<50	<50	<0.5	<0.5	<0.5	<1.0	14
	7/26/2012	<50	<50	<0.5	<0.5	<0.5	<1.0	14
MW-5	12/6/2005	NA	53,000	13,000	1,300	930	4,400	7,000
	7/26/2006	560	15,000	4,100	580	200	870	2,200
	4/10/2008	NA	66,000	24,000	7,600	2,200	9,200	<130
	8/24/2010	<50	74,000	7,500	11,000	2,700	13,000	100
	1/10/2012	2,100	60,000	1,600	3,700	1,800	5,400	<4
	4/30/2012	2,600	37,000	880	2,500	3,200	15,000	140
	7/26/2012	2,200	45,000	940	2,300	3,300	14,000	290
Cleanup Goal		210 ¹	100 ²	1 ²	150 ²	300 ²	1,750 ²	13 ³

NOTES:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

MTBE = Methyl tert-butyl ether

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

¹Regional Water Quality Control Board R2 Environmental Screening Level for Drinking Water Table F-3

²Cleanup goal approved in Corrective Action Plan

³California Department of Public Health Maximum Contaminant Level

Monitoring Well Sampling Logs

7828.000.001
August 22, 2012

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u>		Well ID	MW-1					
Project No. <u>7828.000.001</u>								
Location: <u>Dublin, CA</u>								
Technician: <u>MJ, RP, AU</u>								
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample								
WELL SECURITY			Date <u>7/26/12</u>					
Well Box Set in Concrete? Yes		Comments						
Box Cover Equipped With Bolts and Gasket? Yes								
Well Casing Equipped With Well Seal and Lock? No								
WELL CONSTRUCTION AND WATER LEVEL DETAILS			Date <u>7/26/12</u>					
Well Type <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other								
Well Diameter (in)	<u>2</u>	Free Product Measurement						
BOC (fbtoc)	<u>29.40</u>	(Enter measurements for wells with free product history)						
DTW = Depth to Water	<u>10.58</u>	Enter "0.0" if no measurable free product →						
WC (ft)	<u>13.82</u>	DTFP (fbtoc) _____	WCV Factors					
WCV (gal)	<u>3.2</u>	DTW (fbtoc) _____		2" = 0.17				
3 X WCV (Purge Vol)	<u>9.6</u>	FPT (ft) _____		4" = 0.66				
			6" = 1.50					
PURGING, SAMPLING AND DECON EQUIPMENT			Date <u>7/26/12</u>					
Purging: <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump		Comments						
Sampling: <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other								
Decon:	Was purge pump decontaminated before and after this use? <input type="checkbox"/> Yes <input type="checkbox"/> No							
	Decon Product: <input type="checkbox"/> TSP/Alconox Decon Rinse: _____							
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)			Date					
Drums Onsite Arrival	<u>2</u>	Drums All Labeled?	Yes					
Drums Used This Event	<u>< 1/2</u>	Drums Leaking?	No					
Total Drums Onsite Now	<u>3</u>	Purge Water Processed Through GWTS?	No					
PHYSICAL PARAMETERS			Date <u>7/26/12</u>					
Time	Volume Purged (gal)	Temp (C degrees)	pH	EC (mS/cm)	DO mg/L	Salinity (%)	Turbidity (NTU)	Other
<u>8:50</u>	<u>0</u>	<u>17.67</u>	<u>7.17</u>	<u>969</u>	<u>3.2</u>			<u>ORP</u>
	<u>3</u>	<u>17.94</u>	<u>7.30</u>	<u>1131</u>				<u>29.2</u>
	<u>6</u>	<u>17.91</u>	<u>7.52</u>	<u>1047</u>				
	<u>9</u>	<u>17.70</u>	<u>7.60</u>	<u>949</u>				
<input type="checkbox"/> Sample collected through groundwater treatment system using active extraction pump; no purging required.								
LABORATORY ANALYSIS								
Number/Type Containers		<u>3</u>	VOA's	<u>2</u>	1-liter Ambers	<u>0</u>	500ml Plastic	
Preservative:		HCl						
Analysis:		TPH-g; VOCs, TPH-d, w/silica gel clean up						
Laboratory/TAT:		Test America/ 5-day						

DTW = Depth to Water

fbtoc = feet below top of casing

BOC = Bottom of Well Casing

WC = Water Column Height

DTFP = Depth to Free Product

WCV = Water Column Volume (gallons) = WC X WCV Factor

FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u>	Well ID	MW-4
Project No: <u>7828.000.001</u>		
Location: <u>Dublin, CA</u>		
Technician: _____		
Activity: <input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample		

WELL SECURITY		Date	<u>7/26/12</u>
Well Box Set in Concrete? <u>Yes</u>	Comments		
Box Cover Equipped With Bolts and Gasket? <u>Yes</u>			
Well Casing Equipped With Well Seal and Lock? <u>YES</u> No		No lock	

WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date	<u>7/26/12</u>
Well Type <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other			
Well Diameter (in)	<u>2</u>	Free Product Measurement	
BOC (fbtoc)	<u>28.10</u>	(Enter measurements for wells with free product history)	
DTW = Depth to Water	<u>11.80</u>	Enter "0.0" if no measurable free product	
WC (f)	<u>16.30</u>	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	<u>2.7</u>	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	<u>8.3</u>	FPT (ft) _____	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT		Date	<u>7/26/12</u>
Purging:	<input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump	Comments	
Sampling:	<input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other _____		
Decon:	Was purge pump decontaminated before and after this use? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Decon Product: <input type="checkbox"/> TSP/Alconox Decon Rinse: _____			

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date	
Drums Onsite Arrival _____	Drums All Labeled? <u>Yes</u>		
Drums Used This Event _____	Drums Leaking? <u>No</u>	Gallons	
Total Drums Onsite Now _____	Purge Water Processed Through GWTS? <input type="checkbox"/> Yes <input type="checkbox"/> No		

PHYSICAL PARAMETERS								Date	<u>7/26/12</u>
Time	Volume Purged (gal)	Temp (C degrees)	pH	EC (mS/cm)	DO	Salinity (%)	Turbidity (NTU)	Other	
<u>9:07AM</u>	<u>0</u>	<u>17.57</u>	<u>6.98</u>	<u>1190</u>	<u>0.44</u>	<u>—</u>	<u>—</u>	<u>ORP 25.0</u>	
	<u>3</u>	<u>18.80</u>	<u>7.60</u>	<u>1409</u>					
	<u>5</u>	<u>18.51</u>	<u>7.50</u>	<u>1210</u>					
	<u>8</u>	<u>18.20</u>	<u>7.44</u>	<u>1175</u>					

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS						
Number/Type Containers	<u>3</u>	VOA's	<u>2</u>	1-liter Ambers	<u>0</u>	500ml Plastic
Preservative:	<u>HCl</u>					
Analysis:	<u>TPH-g; VOCs, TPH-d, w/silica gel clean up</u>					
Laboratory/TAT:	<u>Test America/ 5-day</u>					

DTW = Depth to Water fbtoc = feet below top of casing
 BOC = Bottom of Well Casing WC = Water Column Height
 DTFP = Depth to Free Product WCV = Water Column Volume (gallons) = WC X WCV Factor
 FPT = Free Product Thickness

MONITORING WELL FIELD SAMPLING LOG



Project:	Jordan Ranch	Well ID	MW-5
Project No.	7828.000.001		
Location:	Dublin, CA		
Technician:			
Activity:	<input type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample		

WELL SECURITY		Date	7/26/12
Well Box Set in Concrete?	Yes	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes		
Well Casing Equipped With Well Seal and Lock?	Yes		

WELL CONSTRUCTION AND WATER LEVEL DETAILS			Date	7/26/12								
Well Type	<input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other											
Well Diameter (in)	2	Free Product Measurement										
BOC (fbtoc)	29.45	(Enter measurements for wells with free product history)										
DTW = Depth to Water	10.85	Enter "0.0" if no measurable free product	<table border="1" style="width: 100%;"> <tr> <th colspan="2" style="text-align: left;">WCV Factors</th> </tr> <tr> <td>2" =</td> <td style="text-align: center;">0.17</td> </tr> <tr> <td>4" =</td> <td style="text-align: center;">0.66</td> </tr> <tr> <td>6" =</td> <td style="text-align: center;">1.50</td> </tr> </table>		WCV Factors		2" =	0.17	4" =	0.66	6" =	1.50
WCV Factors												
2" =	0.17											
4" =	0.66											
6" =	1.50											
WC (ft)	18.60	DTFP (fbtoc)										
WCV (gal)	9.2	DTW (fbtoc)										
3 X WCV (Purge Vol)	9.6	FPT (ft)										

PURGING, SAMPLING AND DECON EQUIPMENT			Date	7/26/12
Purging:	<input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump	Comments		
	<input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 12-V Pump <input type="checkbox"/> Subm. Pump <input type="checkbox"/> Other			
Decon:	Was purge pump decontaminated before and after this use?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	Decon Product:	<input type="checkbox"/> TSP/Alconox	Decon Rinse:	

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)			Date	
Drums Onsite Arrival		Drums All Labeled?	Yes	
Drums Used This Event		Drums Leaking?	No	Gallons
Total Drums Onsite Now		Purge Water Processed Through GWTS?	No	

PHYSICAL PARAMETERS							Date	7/26/12
Time	Volume Purged (gal)	Temp (C degrees)	pH	EC (mS/cm)	DO	Salinity (%)	Turbidity (NTU)	Other
9:25 am	0	14.55	6.95	1074	0.28			ORP -47.7
11:30	3	19.8	7.78	1229				
	5	19.45	7.43	1106				
	9	19.17	7.15	1091				

Sample collected through groundwater treatment system using active extraction pump; no purging required.

LABORATORY ANALYSIS						
Number/Type Containers	3	VOA's	2	1-liter Ambers	0	500ml Plastic
Preservative:	HCl					
Analysis:	TPH-g; VOCs, TPH-d, w/silica gel clean up					
Laboratory/TAT:	Test America/ 5-day					

DTW = Depth to Water
 BOC = Bottom of Well Casing
 DTFP = Depth to Free Product
 FPT = Free Product Thickness
 fbtoc = feet below top of casing
 WC = Water Column Height
 WCV = Water Column Volume (gallons) = WC X WCV Factor

**Groundwater Laboratory Analytical Report
and Chain-of-Custody Record**

7828.000.001
August 22, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-43550-1
Client Project/Site: Jordan Ranch

For:
Engeo, Inc.
2213 Plaza Drive
Rocklin, California 95765

Attn: Ms. Morgan Johnson



Authorized for release by:
7/31/2012 4:11:52 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Job ID: 720-43550-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-43550-1

Comments

No additional comments.

Receipt

The samples were received on 7/26/2012 12:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.6° C.

GC/MS VOA

Method(s) 8260B: The following sample 43550-2 submitted for volatiles analysis was received with insufficient preservation (pH >2).

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Detection Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Client Sample ID: MW-1

Lab Sample ID: 720-43550-1

No Detections

Client Sample ID: MW-2

Lab Sample ID: 720-43550-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	260		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Benzene	73		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	980		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Toluene	71		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1900		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	15000		2500		ug/L	50		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	1200		63		ug/L	1		8015B	Silica Gel Cleanup

Client Sample ID: MW-4

Lab Sample ID: 720-43550-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	14		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 720-43550-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	290		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Benzene	940		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3300		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Toluene	2300		100		ug/L	200		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	14000		200		ug/L	200		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	45000		10000		ug/L	200		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	2200		63		ug/L	1		8015B	Silica Gel Cleanup

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: MW-1
Date Collected: 07/26/12 09:00
Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/27/12 17:49	1
Benzene	ND		0.50		ug/L			07/27/12 17:49	1
Ethylbenzene	ND		0.50		ug/L			07/27/12 17:49	1
Toluene	ND		0.50		ug/L			07/27/12 17:49	1
Xylenes, Total	ND		1.0		ug/L			07/27/12 17:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/27/12 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		67 - 130					07/27/12 17:49	1
1,2-Dichloroethane-d4 (Surr)	91		75 - 138					07/27/12 17:49	1
Toluene-d8 (Surr)	95		70 - 130					07/27/12 17:49	1

Client Sample ID: MW-2
Date Collected: 07/26/12 11:15
Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	260		5.0		ug/L			07/28/12 16:54	10
Benzene	73		5.0		ug/L			07/28/12 16:54	10
Ethylbenzene	980		25		ug/L			07/31/12 00:54	50
Toluene	71		5.0		ug/L			07/28/12 16:54	10
Xylenes, Total	1900		50		ug/L			07/31/12 00:54	50
Gasoline Range Organics (GRO) -C5-C12	15000		2500		ug/L			07/31/12 00:54	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		67 - 130					07/28/12 16:54	10
4-Bromofluorobenzene	88		67 - 130					07/31/12 00:54	50
1,2-Dichloroethane-d4 (Surr)	101		75 - 138					07/28/12 16:54	10
1,2-Dichloroethane-d4 (Surr)	87		75 - 138					07/31/12 00:54	50
Toluene-d8 (Surr)	103		70 - 130					07/28/12 16:54	10
Toluene-d8 (Surr)	98		70 - 130					07/31/12 00:54	50

Client Sample ID: MW-4
Date Collected: 07/26/12 09:30
Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	14		0.50		ug/L			07/28/12 16:23	1
Benzene	ND		0.50		ug/L			07/28/12 16:23	1
Ethylbenzene	ND		0.50		ug/L			07/28/12 16:23	1
Toluene	ND		0.50		ug/L			07/28/12 16:23	1
Xylenes, Total	ND		1.0		ug/L			07/28/12 16:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/28/12 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130					07/28/12 16:23	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 138					07/28/12 16:23	1
Toluene-d8 (Surr)	100		70 - 130					07/28/12 16:23	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: MW-5
Date Collected: 07/26/12 11:45
Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	290		100		ug/L			07/28/12 17:24	200
Benzene	940		100		ug/L			07/28/12 17:24	200
Ethylbenzene	3300		100		ug/L			07/31/12 01:24	200
Toluene	2300		100		ug/L			07/28/12 17:24	200
Xylenes, Total	14000		200		ug/L			07/31/12 01:24	200
Gasoline Range Organics (GRO) -C5-C12	45000		10000		ug/L			07/31/12 01:24	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		07/28/12 17:24	200
4-Bromofluorobenzene	88		67 - 130		07/31/12 01:24	200
1,2-Dichloroethane-d4 (Surr)	101		75 - 138		07/28/12 17:24	200
1,2-Dichloroethane-d4 (Surr)	87		75 - 138		07/31/12 01:24	200
Toluene-d8 (Surr)	102		70 - 130		07/28/12 17:24	200
Toluene-d8 (Surr)	97		70 - 130		07/31/12 01:24	200

Client Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: MW-1

Date Collected: 07/26/12 09:00

Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		53		ug/L		07/26/12 15:43	07/28/12 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 5				07/26/12 15:43	07/28/12 00:52	1
p-Terphenyl	71		31 - 150				07/26/12 15:43	07/28/12 00:52	1

Client Sample ID: MW-2

Date Collected: 07/26/12 11:15

Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1200		63		ug/L		07/26/12 15:43	07/28/12 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5				07/26/12 15:43	07/28/12 01:16	1
p-Terphenyl	65		31 - 150				07/26/12 15:43	07/28/12 01:16	1

Client Sample ID: MW-4

Date Collected: 07/26/12 09:30

Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		62		ug/L		07/26/12 15:43	07/28/12 01:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5				07/26/12 15:43	07/28/12 01:40	1
p-Terphenyl	67		31 - 150				07/26/12 15:43	07/28/12 01:40	1

Client Sample ID: MW-5

Date Collected: 07/26/12 11:45

Date Received: 07/26/12 12:35

Lab Sample ID: 720-43550-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2200		63		ug/L		07/26/12 15:43	07/28/12 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/26/12 15:43	07/28/12 02:05	1
p-Terphenyl	65		31 - 150				07/26/12 15:43	07/28/12 02:05	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-117944/4

Matrix: Water

Analysis Batch: 117944

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/27/12 09:17	1
Benzene	ND		0.50		ug/L			07/27/12 09:17	1
Ethylbenzene	ND		0.50		ug/L			07/27/12 09:17	1
Toluene	ND		0.50		ug/L			07/27/12 09:17	1
Xylenes, Total	ND		1.0		ug/L			07/27/12 09:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/27/12 09:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		67 - 130		07/27/12 09:17	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 138		07/27/12 09:17	1
Toluene-d8 (Surr)	94		70 - 130		07/27/12 09:17	1

Lab Sample ID: LCS 720-117944/5

Matrix: Water

Analysis Batch: 117944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.0		ug/L		100	62 - 130
Benzene	25.0	24.6		ug/L		98	79 - 130
Ethylbenzene	25.0	22.8		ug/L		91	80 - 120
Toluene	25.0	24.0		ug/L		96	78 - 120
m-Xylene & p-Xylene	50.0	43.4		ug/L		87	70 - 142
o-Xylene	25.0	23.6		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	89		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		75 - 138
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCS 720-117944/7

Matrix: Water

Analysis Batch: 117944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	513		ug/L		103	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		75 - 138
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-117944/6

Matrix: Water

Analysis Batch: 117944

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.4		ug/L		106	62 - 130	5	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-117944/6

Matrix: Water

Analysis Batch: 117944

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	25.9		ug/L		104	79 - 130	5	20
Ethylbenzene	25.0	23.7		ug/L		95	80 - 120	4	20
Toluene	25.0	25.2		ug/L		101	78 - 120	5	20
m-Xylene & p-Xylene	50.0	45.2		ug/L		90	70 - 142	4	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	88		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		75 - 138
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 720-117944/8

Matrix: Water

Analysis Batch: 117944

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	513		ug/L		103	62 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		75 - 138
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 720-118038/4

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/28/12 12:32	1
Benzene	ND		0.50		ug/L			07/28/12 12:32	1
Ethylbenzene	ND		0.50		ug/L			07/28/12 12:32	1
Toluene	ND		0.50		ug/L			07/28/12 12:32	1
Xylenes, Total	ND		1.0		ug/L			07/28/12 12:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/28/12 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		67 - 130		07/28/12 12:32	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 138		07/28/12 12:32	1
Toluene-d8 (Surr)	99		70 - 130		07/28/12 12:32	1

Lab Sample ID: LCS 720-118038/5

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	23.2		ug/L		93	62 - 130
Benzene	25.0	24.6		ug/L		98	79 - 130

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-118038/5

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	25.0	25.0		ug/L		100	80 - 120
Toluene	25.0	24.7		ug/L		99	78 - 120
m-Xylene & p-Xylene	50.0	49.4		ug/L		99	70 - 142
o-Xylene	25.0	25.0		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		75 - 138
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCS 720-118038/7

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	478		ug/L		96	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		75 - 138
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-118038/6

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Methyl tert-butyl ether	25.0	24.2		ug/L		97	62 - 130	4	20
Benzene	25.0	24.7		ug/L		99	79 - 130	0	20
Ethylbenzene	25.0	24.7		ug/L		99	80 - 120	1	20
Toluene	25.0	24.4		ug/L		98	78 - 120	1	20
m-Xylene & p-Xylene	50.0	48.7		ug/L		97	70 - 142	1	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		75 - 138
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 720-118038/8

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO) -C5-C12	500	458		ug/L		92	62 - 120	4	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-118038/8

Matrix: Water

Analysis Batch: 118038

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		75 - 138
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 720-43550-3 MS

Matrix: Water

Analysis Batch: 118038

Client Sample ID: MW-4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Methyl tert-butyl ether	14		25.0	45.8		ug/L		126		60 - 138
Benzene	ND		25.0	27.0		ug/L		108		60 - 140
Ethylbenzene	ND		25.0	26.5		ug/L		106		60 - 140
Toluene	ND		25.0	26.3		ug/L		105		60 - 140
m-Xylene & p-Xylene	ND		50.0	54.6		ug/L		109		60 - 140
o-Xylene	ND		25.0	28.3		ug/L		113		60 - 140

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		75 - 138
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 720-43550-3 MSD

Matrix: Water

Analysis Batch: 118038

Client Sample ID: MW-4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Methyl tert-butyl ether	14		25.0	43.9		ug/L		119		60 - 138	4	20
Benzene	ND		25.0	26.8		ug/L		107		60 - 140	1	20
Ethylbenzene	ND		25.0	26.4		ug/L		106		60 - 140	1	20
Toluene	ND		25.0	26.1		ug/L		104		60 - 140	1	20
m-Xylene & p-Xylene	ND		50.0	52.2		ug/L		104		60 - 140	4	20
o-Xylene	ND		25.0	27.1		ug/L		109		60 - 140	4	20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		75 - 138
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 720-118108/5

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50		ug/L			07/30/12 18:21	1
Benzene	ND		0.50		ug/L			07/30/12 18:21	1
Ethylbenzene	ND		0.50		ug/L			07/30/12 18:21	1
Toluene	ND		0.50		ug/L			07/30/12 18:21	1
Xylenes, Total	ND		1.0		ug/L			07/30/12 18:21	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-118108/5

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/30/12 18:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		07/30/12 18:21	1
1,2-Dichloroethane-d4 (Surr)	83		75 - 138		07/30/12 18:21	1
Toluene-d8 (Surr)	95		70 - 130		07/30/12 18:21	1

Lab Sample ID: LCS 720-118108/6

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.2		ug/L		97	62 - 130
Benzene	25.0	23.6		ug/L		94	79 - 130
Ethylbenzene	25.0	21.6		ug/L		86	80 - 120
Toluene	25.0	22.7		ug/L		91	78 - 120
m-Xylene & p-Xylene	50.0	41.7		ug/L		83	70 - 142
o-Xylene	25.0	22.8		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	90		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		75 - 138
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-118108/8

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	443		ug/L		89	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	89		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		75 - 138
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-118108/7

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	23.7		ug/L		95	62 - 130	2	20
Benzene	25.0	23.7		ug/L		95	79 - 130	1	20
Ethylbenzene	25.0	21.8		ug/L		87	80 - 120	1	20
Toluene	25.0	23.0		ug/L		92	78 - 120	1	20
m-Xylene & p-Xylene	50.0	41.9		ug/L		84	70 - 142	1	20
o-Xylene	25.0	23.0		ug/L		92	70 - 130	1	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-118108/7

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	88		67 - 130
1,2-Dichloroethane-d4 (Surr)	80		75 - 138
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-118108/9

Matrix: Water

Analysis Batch: 118108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO) -C5-C12	500	452		ug/L		90	62 - 120	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	90		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		75 - 138
Toluene-d8 (Surr)	99		70 - 130

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-117917/1-A

Matrix: Water

Analysis Batch: 117947

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 117917

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		50		ug/L		07/26/12 15:43	07/27/12 23:14	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Capric Acid (Surr)	0.01		0 - 5	07/26/12 15:43	07/27/12 23:14	1
p-Terphenyl	79		31 - 150	07/26/12 15:43	07/27/12 23:14	1

Lab Sample ID: LCS 720-117917/2-A

Matrix: Water

Analysis Batch: 117947

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 117917

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Diesel Range Organics [C10-C28]	2500	1370		ug/L		55	32 - 119

Surrogate	LCS		Limits
	%Recovery	Qualifier	
p-Terphenyl	69		31 - 150

Lab Sample ID: LCSD 720-117917/3-A

Matrix: Water

Analysis Batch: 117947

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 117917

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Diesel Range Organics [C10-C28]	2500	1350		ug/L		54	32 - 119	2	35

QC Sample Results

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-117917/3-A
Matrix: Water
Analysis Batch: 117947

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 117917

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
<i>p-Terphenyl</i>	69		31 - 150

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QC Association Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

GC/MS VOA

Analysis Batch: 117944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43550-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-117944/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-117944/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-117944/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-117944/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-117944/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 118038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43550-2	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-43550-3	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-43550-3 MS	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-43550-3 MSD	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-43550-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-118038/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-118038/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-118038/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-118038/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-118038/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 118108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43550-2	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-43550-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-118108/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-118108/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-118108/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-118108/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-118108/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 117917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43550-1	MW-1	Silica Gel Cleanup	Water	3510C SGC	

QC Association Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

GC Semi VOA (Continued)

Prep Batch: 117917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43550-2	MW-2	Silica Gel Cleanup	Water	3510C SGC	
720-43550-3	MW-4	Silica Gel Cleanup	Water	3510C SGC	
720-43550-4	MW-5	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-117917/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-117917/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-117917/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 117947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43550-1	MW-1	Silica Gel Cleanup	Water	8015B	117917
720-43550-2	MW-2	Silica Gel Cleanup	Water	8015B	117917
720-43550-3	MW-4	Silica Gel Cleanup	Water	8015B	117917
720-43550-4	MW-5	Silica Gel Cleanup	Water	8015B	117917
LCS 720-117917/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	117917
LCSD 720-117917/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	117917
MB 720-117917/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	117917

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Client Sample ID: MW-1

Lab Sample ID: 720-43550-1

Date Collected: 07/26/12 09:00

Matrix: Water

Date Received: 07/26/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	117944	07/27/12 17:49	AC	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			117917	07/26/12 15:43	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117947	07/28/12 00:52	JZ	TAL SF

Client Sample ID: MW-2

Lab Sample ID: 720-43550-2

Date Collected: 07/26/12 11:15

Matrix: Water

Date Received: 07/26/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	118038	07/28/12 16:54	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		50	118108	07/31/12 00:54	AC	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			117917	07/26/12 15:43	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117947	07/28/12 01:16	JZ	TAL SF

Client Sample ID: MW-4

Lab Sample ID: 720-43550-3

Date Collected: 07/26/12 09:30

Matrix: Water

Date Received: 07/26/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	118038	07/28/12 16:23	AC	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			117917	07/26/12 15:43	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117947	07/28/12 01:40	JZ	TAL SF

Client Sample ID: MW-5

Lab Sample ID: 720-43550-4

Date Collected: 07/26/12 11:45

Matrix: Water

Date Received: 07/26/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		200	118038	07/28/12 17:24	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		200	118108	07/31/12 01:24	AC	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			117917	07/26/12 15:43	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117947	07/28/12 02:05	JZ	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

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Method Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Jordan Ranch

TestAmerica Job ID: 720-43550-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43550-1	MW-1	Water	07/26/12 09:00	07/26/12 12:35
720-43550-2	MW-2	Water	07/26/12 11:15	07/26/12 12:35
720-43550-3	MW-4	Water	07/26/12 09:30	07/26/12 12:35
720-43550-4	MW-5	Water	07/26/12 11:45	07/26/12 12:35

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720-43550

139700

CHAIN OF CUSTODY RECORD

PROJECT NUMBER 7828000001		PROJECT NAME Jordan Ranch - Parcel H					REMARKS REQUIRED DETECTION LIMITS									
SAMPLED BY: (SIGNATURE/PRINT) <i>[Signature]</i>												TPHg TPHd Silica Gel BTEX MTBE				
PROJECT MANAGER: (SIGNATURE/PRINT) Morgan Johnson																
ROUTING: E-MAIL mjohnson@engeo.com																
HARD COPY																
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPHg	TPHd	Silica Gel	BTEX	MTBE					
MW-1	7/26/12	9:00	H ₂ O	5	VOA & Ambe	HCL	X	X	X	X	X					
MW-2	↓	11:15	↓	↓	↓	↓	↓	↓	↓	↓						
MW-4	↓	9:30	↓	↓	↓	↓	↓	↓	↓	↓						
MW-5	↓	11:45	↓	↓	↓	↓	↓	↓	↓	↓						
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>							DATE/TIME 7/26 12:35 PM		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)							DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE)							DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 7-26-12 12:35					
							REMARKS 5 Day Turn Around									



2213 PLAZA DRIVE
 ROCKLIN, CALIFORNIA 95765
 (916) 786-8883 FAX (888) 279-2698
 WWW.ENGEO.COM

to: b.c. & JWS
 DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-43550-1

Login Number: 43550

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Apostol, Anita

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



August 23, 2012

Subject: Jordan Ranch Property – Former Leaking Underground Storage Tank
Dublin, California

PERJURY STATEMENT

“I declare, that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.”

Submitted by Responsible Party:



ROBERT RADANOVICH
BJP-ROF Jordan Ranch, LLC
5000 Hopyard Road, #170
Pleasanton, CA 94588