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Alameda County
Environmental Health

FIRST 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

July 5, 2012

Project No.
7828.000.001

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- Expect Excellence -

Project No.
7828.000.000

July 5, 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

FIRST QUARTER 2012 GROUNDWATER MONITORING REPORT

Dear Ms. Roe:

This letter summarizes results of the January 2012 groundwater monitoring event completed for the Jordan Ranch – Parcel H (Site) located in Dublin, California. This is the first monitoring event following completion of the soil and groundwater remediation activities in October 2011. The Site is located at 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, and MW-5 on January 10, 2012. The monitoring well locations are shown on Figure 2.

We were unable to locate MW-3 as a result of it being inadvertently buried by grading operations. We contacted Zone 7 Water Agency to discuss the missing well MW-3. Zone 7 agreed that all possible methods for locating the well have been attempted. Zone 7 stated that when submitting the well abandonment permit application for the other monitoring wells, it should be noted on the application that MW-3 cannot be located. At this time, we propose to not replace MW-3. Review of the historical groundwater data for MW-3 shows that detectable concentrations of TPHg and benzene were exhibited during only one of the four quarterly events. During the most recent sampling event, no detections were reported. Based on the analytical data, the groundwater plume appears to be located to the east of MW-3, and is adequately delineated by MW-1, MW-2, MW-4, and MW-5.

We were unable to collect data from MW-4 due to an obstruction in the casing. We plan to correct this issue so that the well can be sampled during subsequent monitoring events.

The depths to groundwater at the Site ranged from 10.52 feet below the TOC in MW-1 to 12.83 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 0.031 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, and MW-5. Well sampling logs are attached.

ENGEO conducted the following activities during sampling:

- Purged wells MW-1, MW-2, 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 a disposable bailer.
- 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) and diesel (TPHd) by EPA Test Method 8015C; and BTEX, and MTBE by EPA Test Method 8021B.

Groundwater Analytical Results

Concentrations of petroleum hydrocarbons detected during the First 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	<1	1.1	1.1	2.4	<4
MW-2	1,100	4,200	32	9.5	210	337	<4
MW-5	2,100	60,000	1,600	3,700	1,800	5,400	<4

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

FINDINGS

- A comparison of pre- and post-remediation groundwater data shows reductions in concentrations of TPHg, benzene, and MTBE after the remediation was completed. The data is summarized in the table below:

Well Location	August 2010			January 2012			Percent Reduction		
	TPHg	Benzen e	MTBE	TPHg	Benzen e	MTBE	TPH g	Benzen e	MTBE
MW-1	<50	<0.5	<0.5	<50	<1	<4	NA	NA	NA
MW-2	15,000	780	170	4,200	32	<4	72%	81%	98%
MW-5	74,000	7,500	100	60,000	1,600	<4	19%	79%	96%

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,

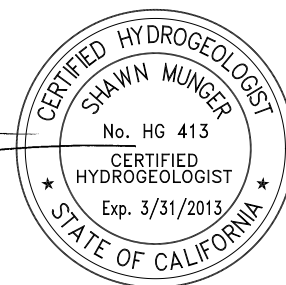
ENGEO Incorporated



Morgan Johnson
 Environmental Scientist



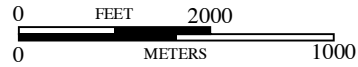
Shawn Munger, CHG
 Principal



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

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

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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

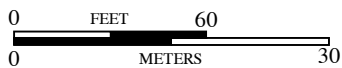
DRAWN BY: SRP

CHECKED BY: SM

FIGURE NO

1

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- MW-5 APPROXIMATE LOCATION OF MONITORING WELL
412.93
- APPROXIMATE LOCATION OF INJECTION POINT
- 414.8 — GROUNDWATER IN FEET
- 0.031 ft/ft APPROXIMATE GROUNDWATER FLOW DIRECTION

BASE MAP SOURCE: UNKNOWN



GROUNDWATER ELEVATION CONTOUR MAP - JANUARY 2012
 JORDAN RANCH PARCEL H
 DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001

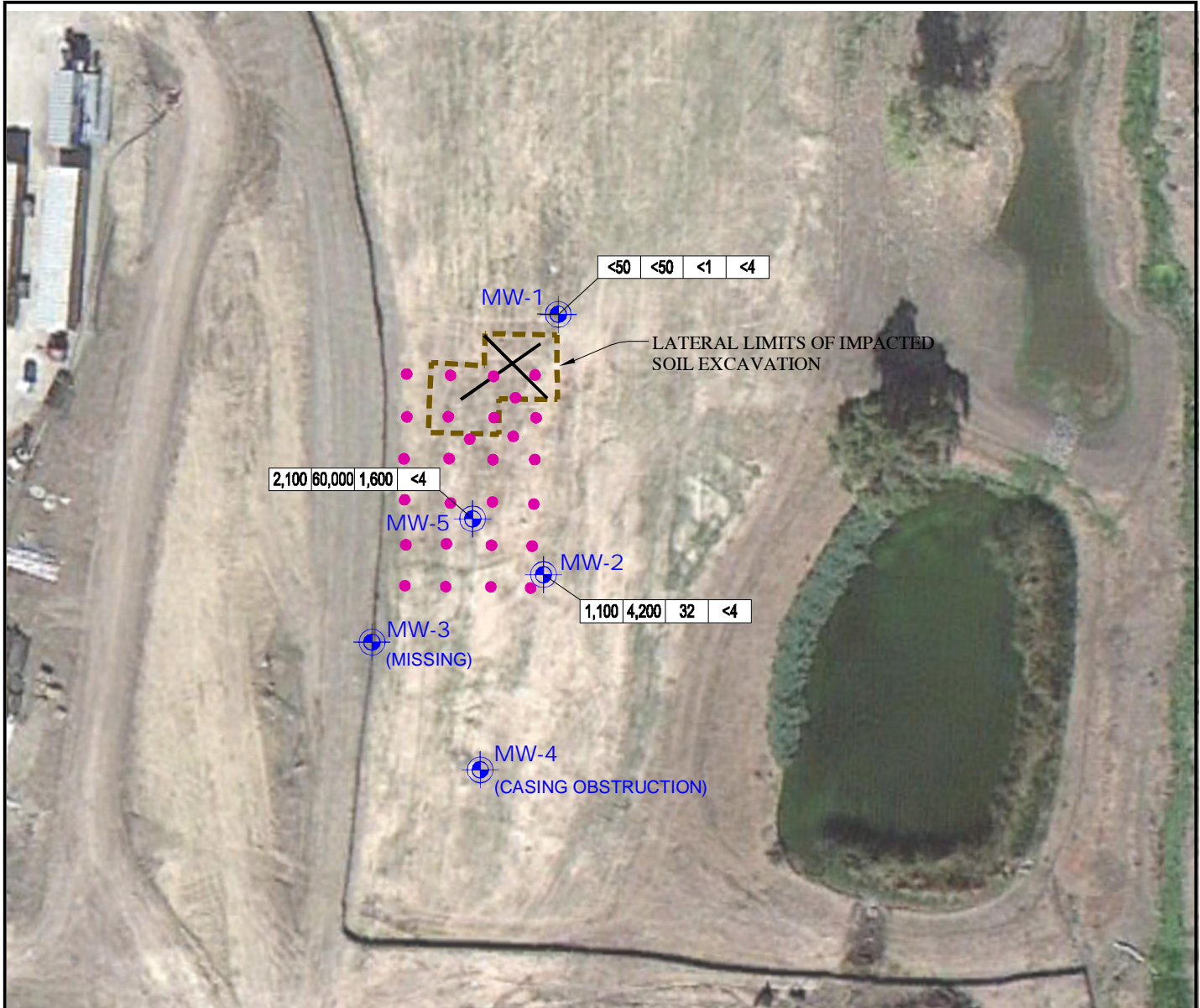
SCALE: AS SHOWN

DRAWN BY: SRP

CHECKED BY: SM

FIGURE NO.

2



EXPLANATION

MW-5

APPROXIMATE LOCATION OF MONITORING WELL

2,100 | 60,000 | 1,600 | <4

CONCENTRATIONS OF MTBE IN GROUNDWATER ($\mu\text{g/L}$)

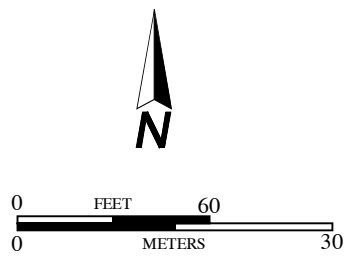
CONCENTRATIONS OF BENZENE IN GROUNDWATER ($\mu\text{g/L}$)

CONCENTRATIONS OF TPHg IN GROUNDWATER ($\mu\text{g/L}$)

CONCENTRATIONS OF TPHd IN GROUNDWATER ($\mu\text{g/L}$)

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

● APPROXIMATE LOCATION OF INJECTION POINT



BASE MAP SOURCE:GOOGLE EARTH



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

PROJECT NO.: 7828.000.001	
SCALE: AS SHOWN	
DRAWN BY: SRP	CHECKED BY: SM

FIGURE NO.
3

Table 1
Groundwater Elevations
Jordan Ranch

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
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
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	Unable to Locate		
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		
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

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

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
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
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						
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
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 FIELD SAMPLING LOG



Project:	Jordan Ranch	Well ID	MW-1
Project No.	7828.000.001		
Location:	Fallon Road at Central Parkway, Dublin, CA		
Technician:	Richard Gandolfo/ Anjuli Christ		
Activity:	<input checked="" type="checkbox"/> Quarterly Sampling	<input type="checkbox"/> Develop/Sample	

WELL SECURITY		Date	1/10/2012
Well Box Set in Concrete?	Yes	Comments	
Box Cover Equipped With Bolts and Gasket?	No		
Well Casing Equipped With Well Seal and Lock?	No	Seal only	

WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date	1/10/2012
Well Type	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Extraction Well with Pump	<input type="checkbox"/> Other
Well Diameter (in)	2	Free Product Measurement	
BOC (fbtoc)	29.36	(Enter measurements for wells with free product history)	
DTW = Depth to Water	10.52	Enter "0.0" if no measurable free product	0.0
WC (f)	18.84	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	3.2	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	9.61	FPT (ft)	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT		Date	1/10/2012
Purging:	<input type="checkbox"/> Disposable Bailer	<input checked="" type="checkbox"/> 12-V Pump	<input type="checkbox"/> Subm. Pump
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Decon Product: <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: (1st) Tap Water ; (2nd) Distilled Water		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date	1/10/2012
Drums Onsite Arrival	1	Drums All Labeled?	Yes
Drums Used This Event	< 1	Drums Leaking?	No
Total Drums Onsite Now	2	Purge Water Processed Through GWTS?	No

PHYSICAL PARAMETERS							Date	1/10/2012
Time	Volume Purged (gal)	Temp (C degrees)	pH	EC (mS/cm)	Odor	Turbidity (NTU)	Comments	
13:40	2 1/2	N/A	7.68	N/A	Yes	683	Pertoleum/organic odor	
13:42	5	N/A	7.38	N/A	Yes	939	Pertoleum/organic odor	
13:44	7 1/2	N/A	7.37	N/A	Yes	999+	Pertoleum/organic odor	
13:46	10	N/A	7.31	N/A	Yes	914	Pertoleum/organic odor	

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, ice					
Analysis:	TPH-g (w/BTEX/MTBE); TPH-d (w/silica gel clean up), motor oil, SVOC					
Laboratory/TAT:	Sunstar Labs/ 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

MONITORING WELL FIELD SAMPLING LOG



Project: <u>Jordan Ranch</u>	Well ID	MW-2
Project No. <u>7828.000.001</u>		
Location: <u>Fallon Road at Central Parkway, Dublin, CA</u>		
Technician: <u>Richard Gandolfo/Anjuli Christ</u>		
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample		

WELL SECURITY		Date	1/10/2012
Well Box Set in Concrete?	Yes	Comments	
Box Cover Equipped With Bolts and Gasket?	Yes		
Well Casing Equipped With Well Seal and Lock?	No		
		Seal only	

WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date	1/10/2012
Well Type <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well with Pump <input type="checkbox"/> Other			
Well Diameter (in)	2	Free Product Measurement	
BOC (fbtoc)	29.55	(Enter measurements for wells with free product history)	
DTW = Depth to Water	12.83	Enter "0.0" if no measurable free product →	0.0
WC (f)	16.72	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	2.84	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	8.53	FPT (ft)	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT		Date	1/10/2012
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Decon Product: <input checked="" type="checkbox"/> TSP/Alconox Decon Rinse: (1st) Tap Water; (2nd) Distilled Water		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date	1/10/2012
Drums Onsite Arrival	1	Drums All Labeled?	Yes
Drums Used This Event	< 1	Drums Leaking?	No
Total Drums Onsite Now	2	Purge Water Processed Through GWTS?	No

PHYSICAL PARAMETERS							Date	1/10/2012
Time	Volume Purged (gal)	Temp (C degrees)	pH	EC (mS/cm)	Odor	Turbidity (NTU)	Comments	
11:50	2 1/2	N/A	6.75	N/A	Yes	126	Pertoleum/organic odor	
11:52	5	N/A	6.84	N/A	Yes	137	Pertoleum/organic odor	
11:54	7 1/2	N/A	6.85	N/A	Yes	435	Pertoleum/organic odor	
11:56	10	N/A	6.88	N/A	Yes	315	Pertoleum/organic odor	

<input type="checkbox"/> 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, ice						
Analysis:	TPH-g (w/BTEX/MTBE); TPH-d (w/silica gel clean up), motor oil, VOC						
Laboratory/TAT:	Sunstar Labs/ 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> Project No. <u>7828.000.001</u> Location: <u>Fallon Road at Central Parkway, Dublin, CA</u> Technician: <u>Richard Gandolfo/ Anjali Christ</u>	<h2 style="margin: 0;">Well ID</h2>	<h2 style="margin: 0;">MW-5</h2>					
Activity: <input checked="" type="checkbox"/> Quarterly Sampling <input type="checkbox"/> Develop/Sample							
WELL SECURITY		Date: <u>1/10/2012</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	Seal only						
WELL CONSTRUCTION AND WATER LEVEL DETAILS		Date: <u>1/10/2012</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>29.45</u>	(Enter measurements for wells with free product history)						
DTW = Depth to Water <u>11.11</u>	Enter "0.0" if no measurable free product → <u>0.0</u>	WCV Factors					
WC (f) <u>18.35</u>	DTFP (fbtoc) _____	2" = 0.17					
WCV (gal) <u>3.12</u>	DTW (fbtoc) _____	4" = 0.66					
3 X WCV (Purge Vol) <u>9.35</u>	FPT (ft) _____	6" = 1.50					
PURGING, SAMPLING AND DECON EQUIPMENT		Date: <u>1/10/2012</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Decon Product: <input checked="" type="checkbox"/> TSP/Alconox	Decon Rinse: (1st) Tap Water; (2nd) Distilled Water						
PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)		Date: <u>1/10/2012</u>					
Drums Onsite Arrival <u>1</u>	Drums All Labeled? Yes						
Drums Used This Event <u>< 1</u>	Drums Leaking? No	Gallons					
Total Drums Onsite Now <u>2</u>	Purge Water Processed Through GWTS?	No					
PHYSICAL PARAMETERS		Date: <u>1/10/2012</u>					
Time	Volume Purged (gal)	Temp (C degrees)	pH	EC (mS/cm)	Odor	Turbidity (NTU)	Comments
12:50	2 1/2	N/A	7.01	N/A	Yes	444	Pertoleum/organic odor
12:52	5	N/A	6.78	N/A	Yes	352	Pertoleum/organic odor
12:54	7 1/2	N/A	6.78	N/A	Yes	344	Pertoleum/organic odor
12:56	10	N/A	6.71	N/A	Yes	355	Pertoleum/organic odor
<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, ice						
Analysis:	TPH-g (w/BTEX/MTBE); TPH-d (w/silica gel clean up), motor oil, VOC						
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	



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

17 January 2012

Richard Gandolfo
Engeo -- Ripon
580 N. Wilma, Suite A
Ripon, CA 95366
RE: Jordan Ranch MW

Enclosed are the results of analyses for samples received by the laboratory on 01/12/12 09:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Engeo -- Ripon 580 N. Wilma, Suite A Ripon CA, 95366	Project: Jordan Ranch MW Project Number: 7828.000.001 Project Manager: Richard Gandolfo	Reported: 01/17/12 16:10
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T120050-01	Water	01/10/12 00:00	01/12/12 09:45
MW-2	T120050-02	Water	01/10/12 00:00	01/12/12 09:45
MW-5	T120050-03	Water	01/10/12 00:00	01/12/12 09:45

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Engeo -- Ripon 580 N. Wilma, Suite A Ripon CA, 95366	Project: Jordan Ranch MW Project Number: 7828.000.001 Project Manager: Richard Gandolfo	Reported: 01/17/12 16:10
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**MW-1
T120050-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2011613	01/16/12	01/17/12	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	72.6-146		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C28 (DRO)	ND	0.050	mg/l	1	2011217	01/12/12	01/13/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		92.5 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8021B

Methyl tert-butyl ether	ND	4.0	ug/l	1	2011614	01/16/12	01/17/12	EPA 8021B	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	1.1	1.0	"	"	"	"	"	"	
Ethylbenzene	1.1	1.0	"	"	"	"	"	"	
m,p-Xylene	2.4	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	73.5-148		"	"	"	"	

SunStar Laboratories, Inc.

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Engeo -- Ripon 580 N. Wilma, Suite A Ripon CA, 95366	Project: Jordan Ranch MW Project Number: 7828.000.001 Project Manager: Richard Gandolfo	Reported: 01/17/12 16:10
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MW-2
T120050-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	4200	50	ug/l	1	2011613	01/16/12	01/17/12	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	72.6-146		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C28 (DRO)	1.1	0.050	mg/l	1	2011217	01/12/12	01/13/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		92.1 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8021B

Methyl tert-butyl ether	ND	4.0	ug/l	1	2011614	01/16/12	01/17/12	EPA 8021B	
Benzene	32	1.0	"	"	"	"	"	"	
Toluene	9.5	1.0	"	"	"	"	"	"	
Ethylbenzene	210	1.0	"	"	"	"	"	"	
m,p-Xylene	320	2.0	"	"	"	"	"	"	
o-Xylene	17	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	73.5-148		"	"	"	"	

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Engeo -- Ripon 580 N. Wilma, Suite A Ripon CA, 95366	Project: Jordan Ranch MW Project Number: 7828.000.001 Project Manager: Richard Gandolfo	Reported: 01/17/12 16:10
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**MW-5
T120050-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	60000	250	ug/l	5	2011613	01/16/12	01/17/12	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	72.6-146		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C28 (DRO)	2.1	0.050	mg/l	1	2011217	01/12/12	01/13/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		77.6 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8021B

Methyl tert-butyl ether	ND	4.0	ug/l	1	2011614	01/16/12	01/17/12	EPA 8021B	
Benzene	1600	1.0	"	"	"	"	"	"	
Toluene	3700	1.0	"	"	"	"	"	"	
Ethylbenzene	1800	1.0	"	"	"	"	"	"	
m,p-Xylene	3200	2.0	"	"	"	"	"	"	
o-Xylene	2200	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.0 %	73.5-148		"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

Engeo -- Ripon
580 N. Wilma, Suite A
Ripon CA, 95366

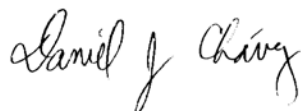
Project: Jordan Ranch MW
Project Number: 7828.000.001
Project Manager: Richard Gandolfo

Reported:
01/17/12 16:10

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2011613 - EPA 5030 GC										
Blank (2011613-BLK1)										
Prepared: 01/16/12 Analyzed: 01/17/12										
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	101		"	100		101	72.6-146			
LCS (2011613-BS1)										
Prepared: 01/16/12 Analyzed: 01/17/12										
C6-C12 (GRO)	5480	50	ug/l	5500	25.5	99.6	75-125			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	72.6-146			
Matrix Spike (2011613-MS1)										
Source: T120050-01 Prepared: 01/16/12 Analyzed: 01/17/12										
C6-C12 (GRO)	5380	50	ug/l	5500	25.5	97.4	65-135			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	72.6-146			
Matrix Spike Dup (2011613-MSD1)										
Source: T120050-01 Prepared: 01/16/12 Analyzed: 01/17/12										
C6-C12 (GRO)	5410	50	ug/l	5500	25.5	98.0	65-135	0.598	20	
Surrogate: 4-Bromofluorobenzene	106		"	100		106	72.6-146			

SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager

Engeo -- Ripon
580 N. Wilma, Suite A
Ripon CA, 95366

Project: Jordan Ranch MW
Project Number: 7828.000.001
Project Manager: Richard Gandolfo

Reported:
01/17/12 16:10

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011217 - EPA 3510C GC

Blank (2011217-BLK1)

Prepared: 01/12/12 Analyzed: 01/13/12

C13-C28 (DRO) ND 0.050 mg/l
C29-C40 (MORO) ND 0.10 "

Surrogate: *p*-Terphenyl 2.84 " 4.00 71.1 65-135

LCS (2011217-BS1)

Prepared: 01/12/12 Analyzed: 01/13/12

C13-C28 (DRO) 18.6 0.050 mg/l 20.0 92.8 75-125
Surrogate: *p*-Terphenyl 3.00 " 4.00 75.1 65-135

Matrix Spike (2011217-MS1)

Source: T120050-01

Prepared: 01/12/12 Analyzed: 01/13/12

C13-C28 (DRO) 22.2 0.050 mg/l 20.0 ND 111 75-125
Surrogate: *p*-Terphenyl 3.93 " 4.00 98.2 65-135

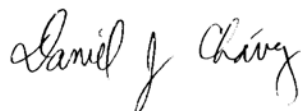
Matrix Spike Dup (2011217-MSD1)

Source: T120050-01

Prepared: 01/12/12 Analyzed: 01/13/12

C13-C28 (DRO) 22.8 0.050 mg/l 20.0 ND 114 75-125 2.65 20
Surrogate: *p*-Terphenyl 3.76 " 4.00 93.9 65-135

SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager



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Engeo -- Ripon
 580 N. Wilma, Suite A
 Ripon CA, 95366

Project: Jordan Ranch MW
 Project Number: 7828.000.001
 Project Manager: Richard Gandolfo

Reported:
 01/17/12 16:10

Volatile Organic Compounds by EPA Method 8021B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2011614 - EPA 5030 GC

Blank (2011614-BLK1)

Prepared: 01/16/12 Analyzed: 01/17/12

Methyl tert-butyl ether	ND	4.0	ug/l							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.7</i>		<i>"</i>	<i>100</i>		<i>97.7</i>	<i>73.5-148</i>			

LCS (2011614-BS1)

Prepared: 01/16/12 Analyzed: 01/17/12

Benzene	109	1.0	ug/l	100		109	70-130			
Toluene	98.1	1.0	"	100		98.1	70-130			
Ethylbenzene	91.5	1.0	"	100		91.5	70-130			
m,p-Xylene	189	2.0	"	200		94.7	70-130			
o-Xylene	90.6	1.0	"	100		90.6	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104</i>		<i>"</i>	<i>100</i>		<i>104</i>	<i>73.5-148</i>			

Matrix Spike (2011614-MS1)

Source: T120050-01

Prepared: 01/16/12 Analyzed: 01/17/12

Benzene	112	1.0	ug/l	100	ND	112	70-130			
Toluene	103	1.0	"	100	1.09	102	70-130			
Ethylbenzene	94.2	1.0	"	100	1.12	93.1	70-130			
m,p-Xylene	194	2.0	"	200	2.35	96.0	70-130			
o-Xylene	93.4	1.0	"	100	0.955	92.4	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108</i>		<i>"</i>	<i>100</i>		<i>108</i>	<i>73.5-148</i>			

Matrix Spike Dup (2011614-MSD1)

Source: T120050-01

Prepared: 01/16/12 Analyzed: 01/17/12

Benzene	114	1.0	ug/l	100	ND	114	70-130	1.73	20	
Toluene	107	1.0	"	100	1.09	106	70-130	3.26	20	
Ethylbenzene	93.3	1.0	"	100	1.12	92.2	70-130	0.899	20	
m,p-Xylene	191	2.0	"	200	2.35	94.5	70-130	1.55	20	
o-Xylene	91.6	1.0	"	100	0.955	90.6	70-130	1.94	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106</i>		<i>"</i>	<i>100</i>		<i>106</i>	<i>73.5-148</i>			

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Engeo -- Ripon
580 N. Wilma, Suite A
Ripon CA, 95366

Project: Jordan Ranch MW
Project Number: 7828.000.001
Project Manager: Richard Gandolfo

Reported:
01/17/12 16:10

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: ENGEO
 Address: 580 N. Wilma Ave
 Phone: 209 321 2665 Fax: _____
 Project Manager: Richard Gandolfo

Date: 1-11-12 Page: 1 Of 1
 Project Name: Jordan Ranch MW
 Collector: R. Gandolfo / A. Christ Client Project #: 7828.000.001
 Batch #: T120050 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	VOCs	TPH g BTEX/MTDE	TPH d/no w/ silicagel	Laboratory ID #	Comments/Preservative	Total # of containers
MW-1	1-10-12		GW											/	/	/	01		5
MW-2	1-10-12		GW											/	/	/	02		5
MW-5	1-10-12													/	/	/	03		5
Relinquished by: (signature) _____ Date / Time <u>1-11-12 10:30</u>					Received by: (signature) _____ Date / Time <u>1-11-12 10:30</u>					Total # of containers _____					Notes				
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time <u>9:45</u>					Chain of Custody seals <input checked="" type="checkbox"/> Y/N/NA					Seals intact <input checked="" type="checkbox"/> Y/N/NA				
Relinquished by: (signature) <u>GSD</u> Date / Time <u>1-12-12</u>					Received by: (signature) _____ Date / Time <u>1-12-12</u>					Received good condition/cold <u>26</u>					Turn around time: <u>5-day</u>				

STD. TAT 82

1-12-12

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Standard

COC 91261

SAMPLE RECEIVING REVIEW SHEET

BATCH # T120050

Client Name: ENGEO

Project: JORDAN RANCH MW

Received by: SUNNY

Date/Time Received: 1-12-12 / 9:45

Delivered by : Client SunStar Courier GSO FedEx Other

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.8 °C +/- the CF (-0.2°C) = 2.6 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 1-12-12

Comments:

July 5, 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