OCTOBER 2014 BASELINE GROUNDWATER QUALITY MONITORING REPORT

LOS OSOS WATER RECYCLING FACILITY

Los Osos, San Luis Obispo County, California

Prepared for:

San Luis Obispo County
Department of Public Works

Prepared by:

Rincon Consultants, Inc.
December 30, 2014

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Project 13-01481

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Subject: October 2014 Baseline Groundwater Quality Monitoring Report, Los Osos Water Recycling Facility – County of San Luis Obispo, California

Dear Mr. Dienzo:

Rincon Consultants, Inc. has prepared the October 2014 Baseline Groundwater Quality Monitoring Report for the Los Osos Water Recycling Facility located in San Luis Obispo County, California. The objective of the study is to establish baseline groundwater quality conditions prior to discharge of treated municipal wastewater into the upper aquifer prior to facility startup in accordance with the Monitoring and Reporting Program in Waste Discharge Requirements Order No. R3-2011-0001.

Please contact us with questions regarding the results of the Baseline Groundwater Quality Monitoring Report.

Sincerely,
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1.0 INTRODUCTION

This report presents the results of the October 2014 Baseline Groundwater Quality Monitoring event for the Los Osos Water Recycling Facility located in San Luis Obispo County, California (Figure 1). The objective of the study is to establish baseline groundwater quality conditions prior to the discharge of treated municipal wastewater, from the future Los Osos Water Recycling Facility, into the upper aquifer.

This report was prepared by Rincon Consultants, Inc. (Rincon) and presents the geologic and hydrogeologic setting, groundwater elevations and gradient, groundwater sampling methodology, water quality data results, and our conclusions.

2.0 BACKGROUND

The County of San Luis Obispo developed and operated a groundwater Monitoring and Reporting Program (MRP) from 1982 through 1998 (County of San Luis Obispo, 1999). In 2002, twelve monitoring network wells were reconstructed with deeper sanitary seals (Cleath & Associates, 2002), leading to the Los Osos Community Services District groundwater monitoring program that was operated through 2006 (Cleath-Harris Geologists, 2013). The reconstructed wells are designated in this report by the letter "r" at the end of the well ID (i.e., 13L5r).

In order to establish baseline groundwater quality conditions prior to discharge of treated municipal wastewater, the Central Coast Regional Water Quality Control Board (RWQCB) requires semi-annual baseline water quality monitoring of the groundwater well network per Waste Discharge Requirements (WDR) Order No. R3-2011-0001 and its MRP. The monitoring well network for WDR compliance monitoring consists of 26 wells, including twenty (20) public agency wells and six (6) private wells located within the upper aquifer system of the Los Osos Valley Groundwater Basin (Los Osos Basin). Rincon was not given access by the property owner to well 18A. Well construction information is summarized in Table 1 and well locations are presented in Figure 2.

The first two events were completed in August 2012 and June 2013, by Cleath-Harris Geologists. Rincon completed the third sampling event in January 2014, a fourth event in May 2014, and this fifth sampling event in October 2014. The groundwater monitoring activities performed during October 2014 conform with WDR R3-2011-0001. During the October 2014 monitoring event, Rincon measured the depth to groundwater, collected groundwater samples, and analyzed groundwater samples for pH, nitrate, nitrite, organic nitrogen, ammonia, total Kjeldahl nitrogen (TKN), total nitrogen, total dissolved solids (TDS), sodium, chloride, sulfate, and boron from 22 of the groundwater monitoring wells located within Los Osos, California. Three of the wells were found to be dry or have insufficient volume to sample and access to well 18A was not permitted by the property owner.

2.1 GEOLOGIC AND HYDROGEOLOGIC SETTING

The Los Osos Basin is an east/west trending syncline covering ten square miles comprised of Tertiary and Quaternary age sediments that unconformably lie on top of Miocene and Jurassic age bedrock of the Pismo and Franciscan Formations, respectively. The onshore portion of the Los Osos Basin underlies the bay and sandspit, as well as the communities of Los Osos, Baywood Park, and the Los Osos Creek Valley. The basin is bounded to the north, east, and south by relatively impermeable bedrock formations and to the west where the aquifer outcrops on the ocean floor.

The upper aquifer zones include the unconfined perched aquifer (Old Dune Sand deposits), the upper transitional aquifer, and the main water supply aquifer (interbedded clay, silt, sand and gravel layers of the Paso Robles Formation). The upper aquifer extends to a depth of approximately 200 feet below sea level where it meets the regional aquitard. Recent studies indicate that the regional aquitard (a 50-foot-thick and relatively continuous clay layer) is leaky, allowing the upper aquifer to recharge the lower aquifer. The deepest portions of the lower aquifer freshwater supply extend to depths of approximately 700 feet below sea level (Hopkins, 2008). For the past decade the lower aquifer (also comprised of the Paso Robles Formation) has provided the main supply of fresh water for three local water purveyors, agricultural irrigation and domestic use. Increased pumping of the lower aquifer has resulted in recharge primarily by the upper aquifer; other sources include subsurface inflow from the Creek Valley Alluvial Aquifer (creek compartment) and seawater intrusion (Cleath & Associates, 2008).

2.2 GROUNDWATER ELEVATIONS AND GRADIENTS

Rincon measured the depth to water in 19 of the 26 groundwater monitoring wells, prior to sampling, using an electronic water level indicator between October 21 and 22, 2014 (Table 2). Rincon was unable to measure the depth to water in five of the network monitoring wells due to wellhead construction which limited access. Well 24A was dry and could not be measured. In addition, Rincon was not given access by the property owner to well 18A.

The groundwater elevations onsite ranged from 7.52 feet above mean sea level (amsl) in groundwater monitoring well 7L3r to 98.32 feet amsl in groundwater monitoring well 18J6r (Table 2 and Figure 3). Groundwater elevations have decreased by approximately 3.5 to 10 feet since April 2005. Groundwater elevations have decreased by approximately 1.5 to 8.5 feet from August 2012 to October 2014. When compared to the January 2014 sampling event, groundwater elevations are relatively consistent with fluctuations ranging from approximately -6.3 feet to +1.1 feet. The decrease in water elevations observed from 2012 through 2014 may likely be due to the current drought California is experiencing. Historic groundwater elevations are shown on Figure 4.

The groundwater gradient ranged from 0.008 feet/foot (calculated using groundwater monitoring wells 8N2r, 7L3r, and 18C1r) to 0.024 feet/foot (calculated using groundwater monitoring wells 18E1, 18C1r, and 18B1r). The predominant direction of groundwater flow ranged from northwest to west, towards Morro Bay. East of Los Osos the water flow direction

splits and groundwater flows east towards Los Osos Creek. Elevation data and flow direction are depicted in Figure 3.

3.0 GROUNDWATER QUALITY

3.1 SAMPLING METHODOLOGY

During the October 2014 groundwater monitoring event, samples were collected from 22 out of the 26 groundwater monitoring wells. Rincon did not have access to well 18A. Wells 8Ma, 8Mb, and 24A had insufficient water levels to sample. Prior to sampling, a minimum of three casing volumes were purged from each well by using a submersible pump. Purging stopped when consecutive water quality measurements (TDS, temperature, conductivity, pH, and dissolved oxygen) varied by less than 10 percent. Alternatively, the well was considered sufficiently purged if it was purged dry. Dedicated domestic wells, where well access was limited due to wellhead construction, were purged by draining approximately 5 gallons from the accessible spigot and water quality measurements were measured. Field equipment was decontaminated between each well. Purged groundwater and decontamination water was discharged to the ground or stored in a water trailer and discharged to a pre-approved discharge point at the end of each day. Field data are included in Appendix A.

Once the well was purged, a disposable bailer was used to collect the groundwater samples, except for the active production wells where the groundwater samples were collected from the sampling ports at the well head. The groundwater samples were transferred into preserved and non-preserved containers supplied by Oilfield Environmental and Compliance Laboratory, (OEC). The containers were capped, labeled, placed in Ziploc bags, and stored on ice in a cooler pending delivery to OEC. The groundwater samples were analyzed for pH, TDS, total nitrogen, nitrate (as nitrogen), nitrite, ammonia, organic nitrogen, total Kjeldahl nitrogen, sodium, chloride, sulfate, and boron.

3.2 SAMPLING RESULTS

The groundwater quality samples were collected on October 20 and 21, 2014 and were submitted to OEC in Santa Maria, California for analysis. The analysis of constituents required for this monitoring event included pH, TDS, total nitrogen, nitrate (as nitrogen), nitrite, ammonia, organic nitrogen, TKN, sodium, chloride, sulfate, and boron (Table 3). Three samples were mistakenly acidified (18E1, 7Q1, and 18N1r) at the laboratory during sample preparation for analysis. Therefore, the results were inaccurate, except for metals (sodium and boron). The three wells were resampled on December 4, 2014 and groundwater samples were analyzed for pH, TDS, total nitrogen, nitrate (as nitrogen), nitrite, ammonia, organic nitrogen, TKN, sodium, and chloride.

Laboratory reports are included as Appendix B of this report. The sections below compares the current results to data collected in April 2005 (the October 2006 data are unavailable) and the recent 2012 to 2014 sampling events (Cleath & Associates, 2005; CHG, 2012; CHG, 2013; Rincon, 2014a; and Rincon, 2014b).

3.2.1 pH
The pH of the groundwater samples collected during the October 2014 sampling event ranged from 6.27 to 9.63 and the average pH was 6.89.

3.2.2 Total Dissolved Solids
During the October 2014 sampling event, TDS concentrations in shallow groundwater ranged from 120 milligrams per liter (mg/L) in well 8N2r to 810 mg/L in well 7K3r with an average of 453 mg/L. TDS concentration contours are shown on Figure 5. TDS concentrations from 2005 and 2012 to 2014 are shown on Figure 6. Groundwater concentrations from the October 2014 sampling event were within the historical ranges.

3.2.3 Nitrogen
3.2.3.1 Nitrate as Nitrogen
Nitrate as N concentrations in groundwater samples collected during the October 2014 sampling event ranged from 1.1 mg/L in groundwater well 17F4 to 29 mg/L in groundwater well 18L4r with an average of 15.3 mg/L. Fourteen of the 22 samples exceeded the Maximum Contaminant Level (MCL) for drinking water standard set by the Environmental Protection Agency (EPA) of 10 mg/L.

On average, nitrate concentrations increased from 2005 to 2012 and again from 2012 to 2013. Since the June 2013 sampling event, average nitrate concentrations have decreased. Concentration contours of nitrate are shown on Figure 7 and historical concentrations from 2005 and 2012 to 2014 are shown on Figure 8.

3.2.3.2 Other forms of Nitrogen
Ammonia (NH_3^+) and nitrites (NO_2^-) are ions commonly measured in groundwater. During the October 2014 sampling event, nitrite was not detected above the reporting limit of 0.40 mg/L, which is below the MCL for nitrite (1 mg/L). Ammonia is the primary form of nitrogen in septic system effluent, and it is converted to nitrate during the leaching process through the vadose zone. Ammonia was detected in 21 of the wells with concentrations ranging from 0.11 mg/L to 2.3 mg/L; a drinking water standard has not been established for ammonia.

3.2.3.3 Total Nitrogen (as Nitrogen)
Concentrations of total nitrogen (as nitrogen (N)) ranged from 1.7 to 32 mg/L during the October 2014 sampling event, with an average concentration of 17 mg/L. The average concentration has remained relatively consistent since 2012 as shown on Figure 9.

3.2.4 General Minerals
Sodium, chloride, sulfate, and boron were analyzed during the October 2014 sampling event and results are presented on Table 3.

4.0 SCHEDULED ACTIVITIES

4.1 SEMI-ANNUAL SAMPLING

The next semi-annual sampling event is scheduled to take place between April and May 2015.

5.0 CONCLUSIONS

The October 2014 groundwater flow pattern is consistent with historical flow direction and gradient. Shallow groundwater generally flows northwest to west towards Morro Bay and, east of Los Osos, groundwater flows east towards Los Osos Creek. Groundwater elevations are relatively consistent from the January monitoring event with fluctuations ranging from approximately -6.3 feet to +1.1 feet.

During the October 2014 sampling event, TDS concentrations in shallow groundwater ranged from 120 mg/L in well 8N2r to 810 mg/L in well 7K3r with an average of 453 mg/L. The TDS groundwater concentrations from the October 2014 sampling event were within the historical average and in general TDS appears to be stable.

Fourteen of the 22 groundwater wells sampled exceeded the MCL drinking water standard set by the EPA of 10 mg/L nitrate and the State standard of 10mg/L nitrate as nitrogen. The greatest nitrate concentrations were detected south of Los Osos Valley Road in groundwater monitoring wells 13Q1r and 18N1r. In general, the nitrate concentrations in groundwater are similar to the historical nitrate concentrations in the upper Los Osos groundwater basin.

6.0 LIMITATIONS

This report has been prepared for and is intended for the exclusive use of the County of San Luis Obispo. The contents of this report should not be relied upon by any other party without the written consent of Rincon Consultants, Inc.

Our conclusions regarding the site are based on observations of existing site conditions, our interpretation of site usage information, and the results of a limited subsurface sampling and chemical testing program. The concentrations of contaminants measured at any given location may not be representative of conditions at other locations intermediate to those locations sampled. Further, conditions may change at any particular location as a function of time in response to natural conditions, chemical reactions and other events. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are similar to those sampled.

7.0 REFERENCES

Cleath & Associates, 2002. *Los Osos Nitrate Monitoring Program, June-July 2002 Ground Water Monitoring*. November.

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Hopkins, 2008. *Final Report of Preliminary Hydrogeological Impacts Study, Los Osos Wastewater Project, Los Osos, California*, Prepared for the County of San Luis Obispo. October 31.

Rincon Consultants, 2014a. *Los Osos Water Recycling Facility Baseline Groundwater Quality Monitoring Report, County of San Luis Obispo, California*. Prepared for San Luis Obispo County Department of Public Works. February 20.

Rincon Consultants, 2014b. *May 2014 Baseline Groundwater Quality Monitoring Report Los Osos Water Recycling Facility, Los Osos, San Luis Obispo County, California*. Prepared for San Luis Obispo County Department of Public Works. June 27.

Table 1

Groundwater Monitoring Well Construction Details

Well ID	Well Ownership	Total Well Depth (ft bgs)	Well Screen Interval (ft bgs)	Well Diameter (in)	TOC Elevation (ft amsl)
13G	CSD	52	47-52	2	50.95
13H	CSD	34	29-34	2	49.33
13L5r	CSD	37	26-36	2	32.63
13Q1r	CSD	105	95-105	2	101.27
17D	Private	120	NA	10	NA
17E9	CSD	204	184-194	2	105.85
17F4	Private	72	48-72	8	78.57
17N4	Private	60	40-60	6	162.61
18B1r	CSD	35	25-35	2	79.89
18Clr	CSD	35	25-35	2	34.55
18E1	Private	100	40-60	6	39.61
18J6r	CSD	35	25-35	2	125.74
18L3r	CSD	55	43-53	2	88.02
18L4r	CSD	35	25-35	2	103.85
18N1r	CSD	95	85-95	2	125.53
18R1	Private	50	40-50	8	170.96
24A	CSD	164	154-164	2	193.04
7K3r	CSD	70	55-65	2	90.71
7L3r	CSD	50	40-50	2	45.76
7N1	CSD	83	61-71, 73-83	8	11
7Q1	CSD	75	29-43, 54-75	8	25.29
7R1r	CSD	35	25-35	2	61.93
8Ma	CSD	45	35-45	2	91
8Mb	CSD	47	37-47	2	95
8N2r	CSD	50	40-50	2	95.99

Notes: Well ID's ending with "r" are reconstructed wells
bgs - below ground surface
amsl - above mean sea level
TOC - top of casing
CSD - Los Osos Community Service District Monitoring Well
Private - Owned by a private party
NA - not available

Table 2

Summary of Groundwater Depths and Elevations

Well ID	Top of Casing Elevation (ft amsl)	Depth to Water and Groundwater Elevation							
		Units	Apr 2005	Oct 2006	Aug 2012	Jun 2013	Jan 2014	May 2014	Oct 2014
13G	50.95	ft btoc	37.67	39.33	40.25	40.90	42.76	42.18	42.03
		ft amsl	13.28	11.62	10.70	10.05	8.19	8.77	8.92
13H	49.33	ft btoc	23.10	25.79	27.11	29.35	30.39	30.17	31.07
		ft amsl	26.23	23.54	22.22	19.98	18.94	19.16	18.26
13L5r	32.63	ft btoc	19.25	21.50	22.36	22.81	23.80	23.70	23.84
		ft amsl	13.38	11.13	10.27	9.82	8.83	8.93	8.79
13Q1r	101.27	ft btoc	83.08	83.58	84.48	85.20	85.83	98.05	86.53
		ft amsl	18.19	17.69	16.79	16.07	15.44	3.22	14.74
17D	NA	ft btoc	49.42	--	--	--	NM[1]	NM[1]	NM[1]
		ft amsl	--	--	--	--	NM	NM	NM
17E9	105.85	ft btoc	--	91.50	89.00	93.05	90.23	92.60	91.72
		ft amsl	--	14.35	16.85	12.80	15.62	13.25	14.13
17F4	78.57	ft btoc	43.92	--	43.89	44.98	44.65	NM[1]	NM[1]
		ft amsl	34.65	--	34.68	33.59	33.92	NM	NM
17N4	162.61	ft btoc	--	--	--	--	NM[1]	NM[1]	NM[1]
		ft amsl	--	--	--	--	NM	NM	NM
18B1r	79.89	ft btoc	14.42	17.83	19.27	20.90	22.24	21.97	23.12
		ft amsl	65.47	62.06	60.62	58.99	57.65	57.92	56.77
18C1r	34.55	ft btoc	14.33	16.21	17.41	18.56	21.31	19.75	20.20
		ft amsl	20.22	18.34	17.14	15.99	13.24	14.80	14.35
18E1	39.61	ft btoc	20.75	24.00	25.94	26.70	26.96	27.17	27.59
		ft amsl	18.86	15.61	13.67	12.91	12.65	12.44	12.02
18J6r	125.74	ft btoc	18.04	19.50	23.90	23.49	26.77	26.19	27.42
		ft amsl	107.70	106.24	101.84	102.25	98.97	99.55	98.32
18L3r	88.02	ft btoc	35.00	38.58	41.82	44.63	38.66	41.23	44.95
		ft amsl	53.02	49.44	46.20	43.39	49.36	46.79	43.07
18L4r	103.85	ft btoc	15.50	19.52	20.60	21.73	22.54	21.95	22.95
		ft amsl	88.35	84.33	83.25	82.12	81.31	81.90	80.90
18N1r	125.53	ft btoc	72.00	72.63	77.25	78.91	76.84	77.68	79.91
		ft amsl	53.53	52.90	48.28	46.62	48.69	47.85	45.62
18R1	170.96	ft btoc	10.50	10.50	13.60	12.48	NM[1]	NM[1]	NM[1]
		ft amsl	160.46	160.46	157.36	158.48	NM	NM	NM
24A	193.04	ft btoc	154.13	154.17	157.21	157.77	157.80	157.89	NM[3]
		ft amsl	38.91	38.87	35.83	35.27	35.24	35.15	NM
7K3r	90.71	ft btoc	47.83	51.17	51.96	52.96	53.64	53.78	54.23
		ft amsl	42.88	39.54	38.75	37.75	37.07	36.93	36.48
7L3r	45.76	ft btoc	34.00	36.46	36.80	37.60	35.82	38.42	38.24
		ft amsl	11.76	9.30	8.96	8.16	9.94	7.34	7.52

Table 2

Summary of Groundwater Depths and Elevations

Well ID	Top of Casing Elevation (ft amsl)	Depth to Water and Groundwater Elevation							
		Units	Apr 2005	Oct 2006	Aug 2012	Jun 2013	Jan 2014	May 2014	Oct 2014
7N1	11.00	ft btoc	2.40	6.25	3.45	7.30	NM[1]	NM[1]	NM[1]
		ft amsl	8.60	4.75	7.55	3.70	NM	NM	NM
7Q1	25.29	ft btoc	2.67	2.67	5.70	7.03	8.90	8.96	9.28
		ft amsl	22.62	22.62	19.59	18.26	16.39	16.33	16.01
7R1r	61.93	ft btoc	18.33	21.00	21.95	23.19	23.95	23.93	24.62
		ft amsl	43.60	40.93	39.98	38.74	37.98	38.00	37.31
8Ma	91.00	ft btoc	--	39.83	41.25	43.00	44.14	44.60	44.78
		ft amsl	--	51.17	49.75	48.00	46.86	46.40	46.22
8Mb	95.00	ft btoc	--	40.17	41.90	43.84	44.99	NM[2]	46.38
		ft amsl	--	54.83	53.10	51.16	50.01	NM	44.62
8N2r	95.99	ft btoc	--	34.35	36.06	39.03	40.66	40.95	41.70
		ft amsl	--	61.64	59.93	56.96	55.33	55.04	54.29

Notes:

[1] Active production well, no access to water table; sample collected from spigot/sample port

[2] Unable to locate well; possibly underneath a stockpile

[3] Insufficient water in well

-- = data not available

ft btoc = feet below top of casing

ft amsl = feet above mean sea level

NM = Depth to water not measured

Table 3

October 2014 Groundwater Quality Results

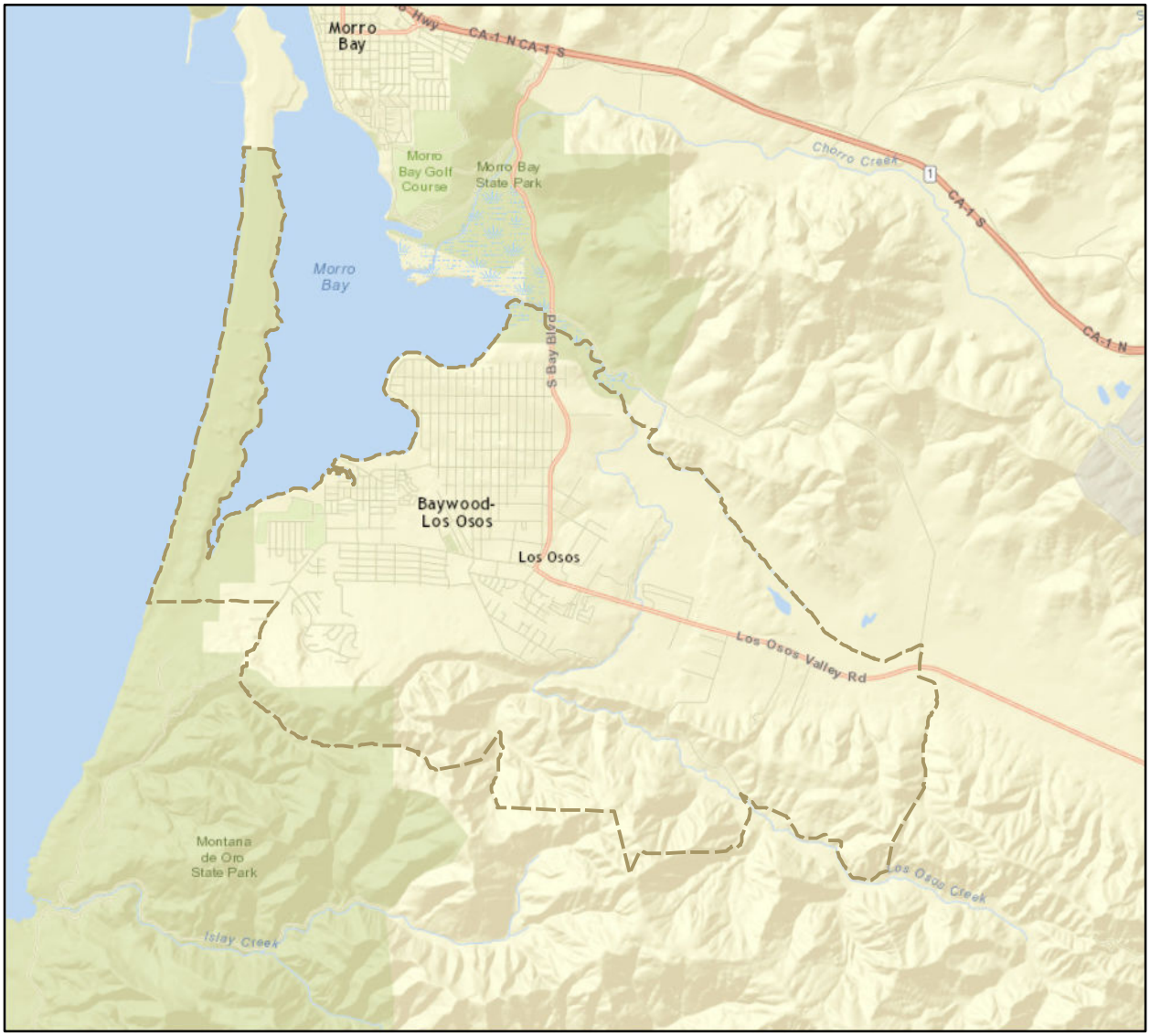
Well ID	Sample Date	pH	TDS (mg/L)	Total N (mg/L)	NO_3^- (mg/L)	NO_2^- (mg/L)	NH_3^+ (mg/L)	TKN (mg/L)	Na (mg/L)	Cl (mg/L)	SO_4 (mg/L)	B (mg/L)
	MCL	6.5-8.5*	500*	NE	10	1	NE	NE	NE	250*	250*	NE
13G	10/21/14	6.67	**580**	13	**12**	ND<0.40	0.40	0.80	74	160	21	ND<0.10
13H	10/21/14	6.88	200	4.6	3.7	ND<0.40	0.43	0.95	22	26	17	ND<0.10
13L5r	10/21/14	6.35	470	23	**22**	ND<0.40	0.12	1.3	110	200	16	ND<0.10
13Q1r	10/22/14	6.59	**670**	29	**29**	ND<0.40	0.34	0.60	90	150	24	0.12
17D	10/21/14	7.25	470	19	**18**	ND<0.40	0.25	1.0	61	87	28	ND<0.10
17E9	10/22/14	**9.63**	280	14	**13**	ND<0.40	0.37	0.62	47	52	23	ND<0.10
17F4	10/21/14	6.78	**530**	1.7	1.1	ND<0.40	0.33	0.62	68	110	18	ND<0.10
17N4	10/20/14	**6.27**	190	9.8	8.2	ND<0.40	ND<0.10	1.6	33	52	21	ND<0.10
18B1r	10/21/14	6.66	**640**	23	**22**	ND<0.40	0.93	1.0	68	100	46	0.17
18C1r	10/21/14	6.69	**690**	18	**17**	ND<0.40	0.34	0.80	90	130	45	0.17
18E1	12/4/2014**	6.67	250	10	8.3	ND<0.40	0.62	1.8	44	53	21	ND<0.10
18J6r	10/22/14	6.80	350	12	9.3	ND<0.40	2.3	2.8	52	46	25	0.13
18L3r	10/20/14	6.50	210	11	8.4	ND<0.40	0.12	2.2	34	51	23	ND<0.10
18L4r	10/20/14	6.51	**620**	32	**29**	ND<0.40	0.12	2.2	68	140	46	0.11
18N1r	12/4/2014**	6.84	420	28	**23**	ND<0.40	0.82	5.0	63	81	41	0.15
18R1	10/21/14	**6.31**	450	19	**18**	ND<0.40	0.35	0.88	59	70	26	0.19
24A	10/20/14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
7K3r	10/21/14	7.25	**810**	22	**20**	ND<0.40	0.12	1.4	91	160	69	0.13
7L3r	10/20/14	6.98	490	23	**21**	ND<0.40	0.12	2.4	70	82	52	0.12
7N1	10/22/14	7.59	320	6.6	6.0	ND<0.40	0.36	0.65	33	71	15	ND<0.10
7Q1	12/4/2014**	6.75	**550**	31	**25**	ND<0.40	1.0	6.3	120	140	47	0.61
7R1r	10/20/14	6.66	**660**	20	**18**	ND<0.40	0.11	1.6	66	130	54	0.16
8Ma	10/20/14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8Mb	10/22/14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8N2r	10/20/14	6.84	120	7.4	4.5	ND<0.40	0.11	2.9	12	22	6.9	ND<0.10

Notes: TDS=Total Dissolved Solids; NO_3^-=Nitrate as Nitrogen; NO_2^-=Nitrite as Nitrogen; NH_3^+=Ammonia as Nitrogen; TKN=Total Kjeldahl Nitrogen; Na=Sodium; Cl=Chloride; SO_4=Sulfate; B=Boron; mg/L=milligrams per liter; ND=Not detected above associated laboratory practical quantitation limits; NE=not established; NM=not measured

MCL = Maximum contaminant level; EPA National Primary Drinking Water Regulations; * National Secondary Drinking Water Regulations

** Sample was mistakenly acidified at the laboratory during sample preparation for analysis. The metals (sodium and boron) results were not affected, however the wells were resampled on 12/4/14 and analyzed for the remainder of constituents.

- **bolded** values are above EPA MCL or National Secondary Drinking Water criteria



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Los Osos

N

0 1.25
Miles

Vicinity Map

Figure 1

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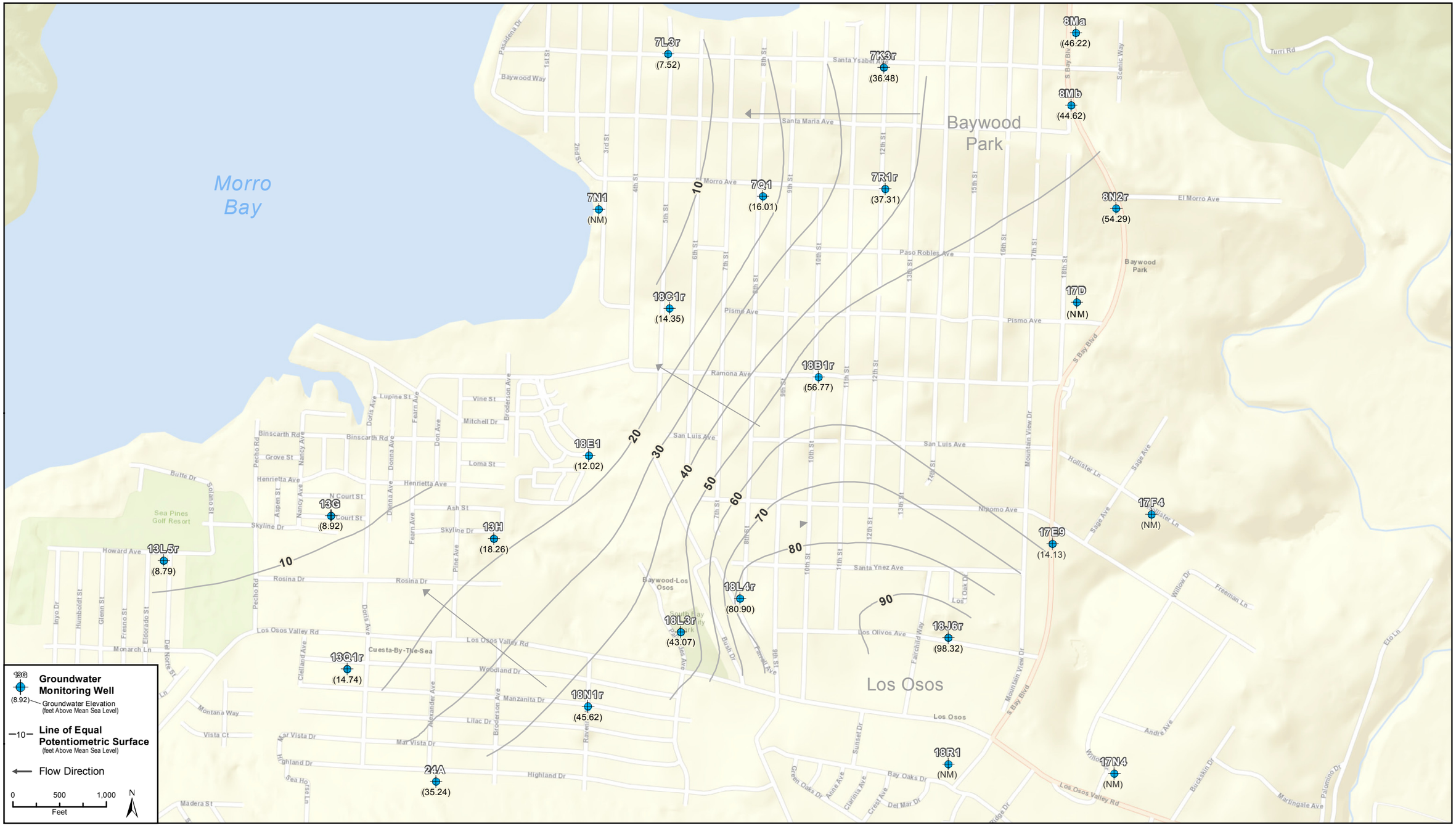
Baseline Groundwater Monitoring Well Locations

Figure 2



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Groundwater Elevations and Contour Map

Figure 3

County of San Luis Obispo

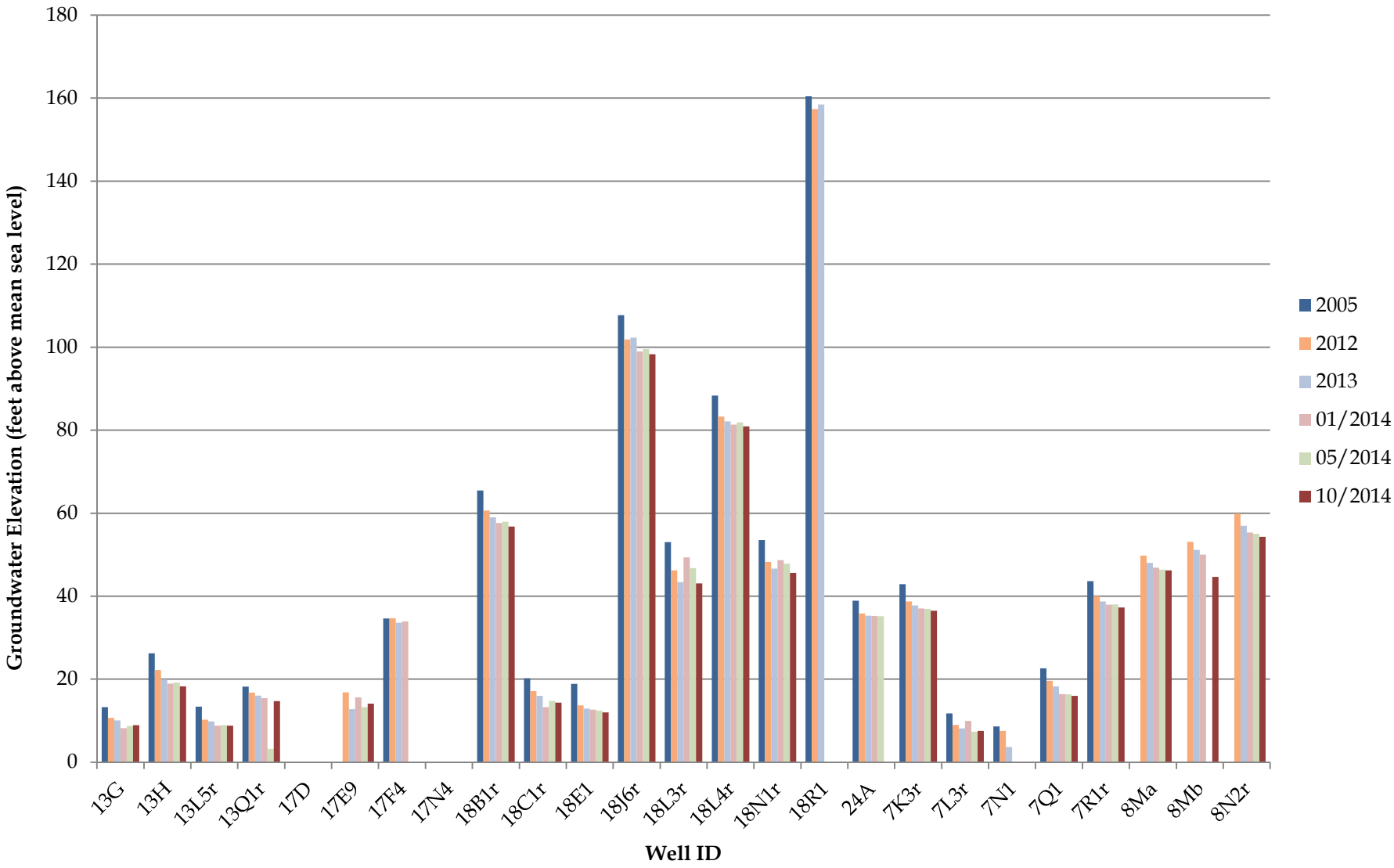
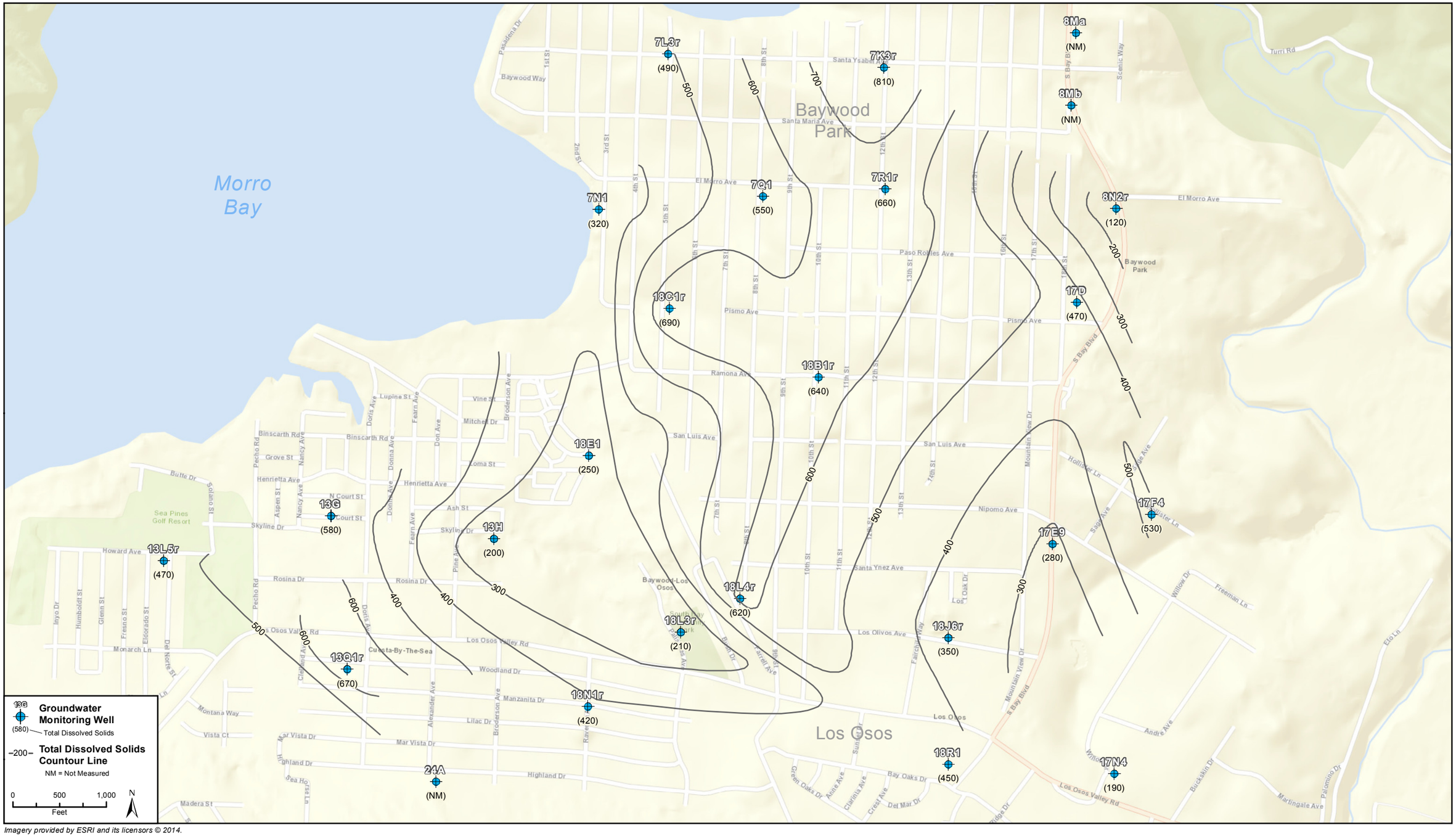


Figure 4. Historical Groundwater Elevations Graph
Los Osos Water Treatment Facility
County of San Luis Obispo



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Total Dissolved Solids Concentration Contour Map

Figure 5

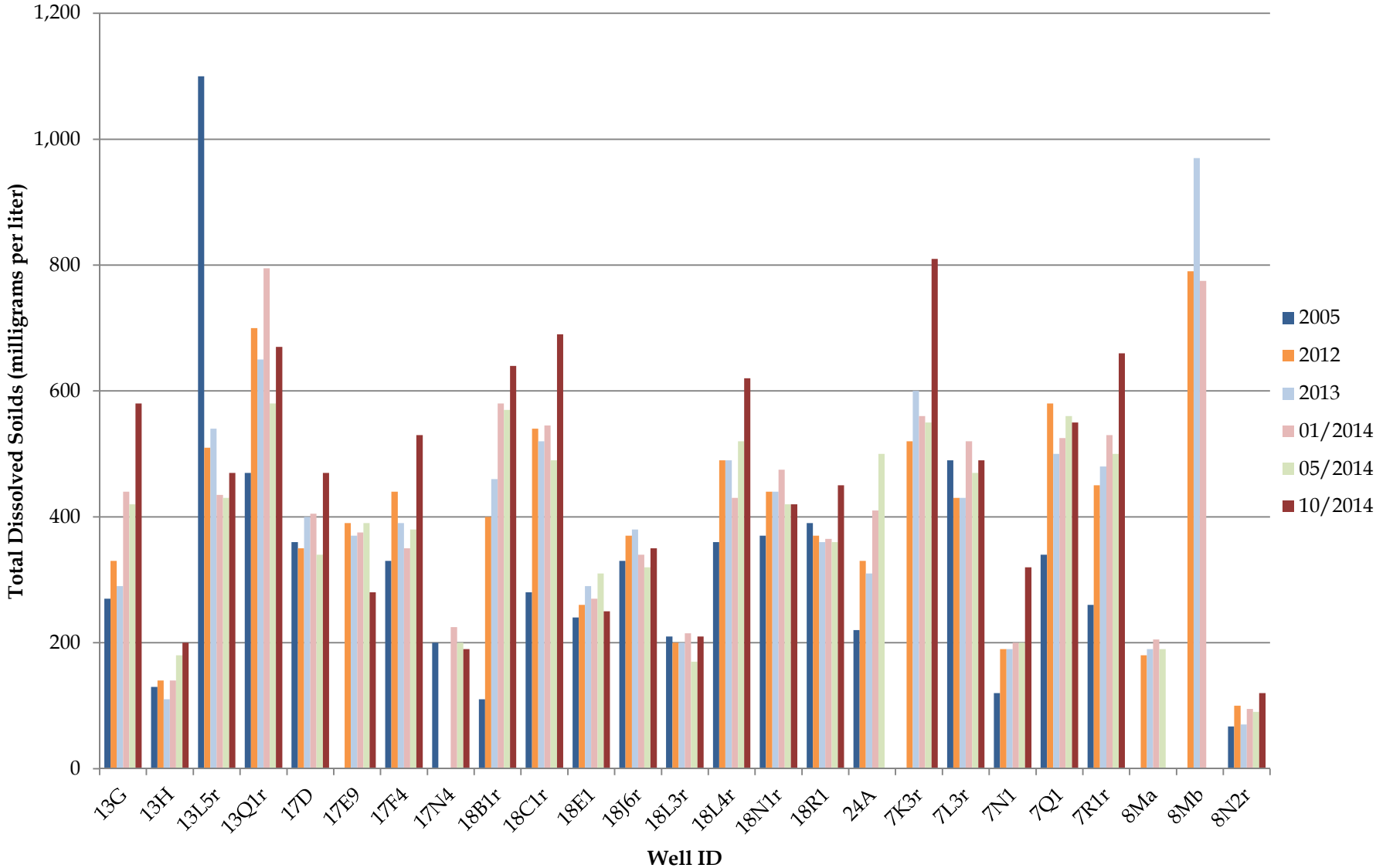
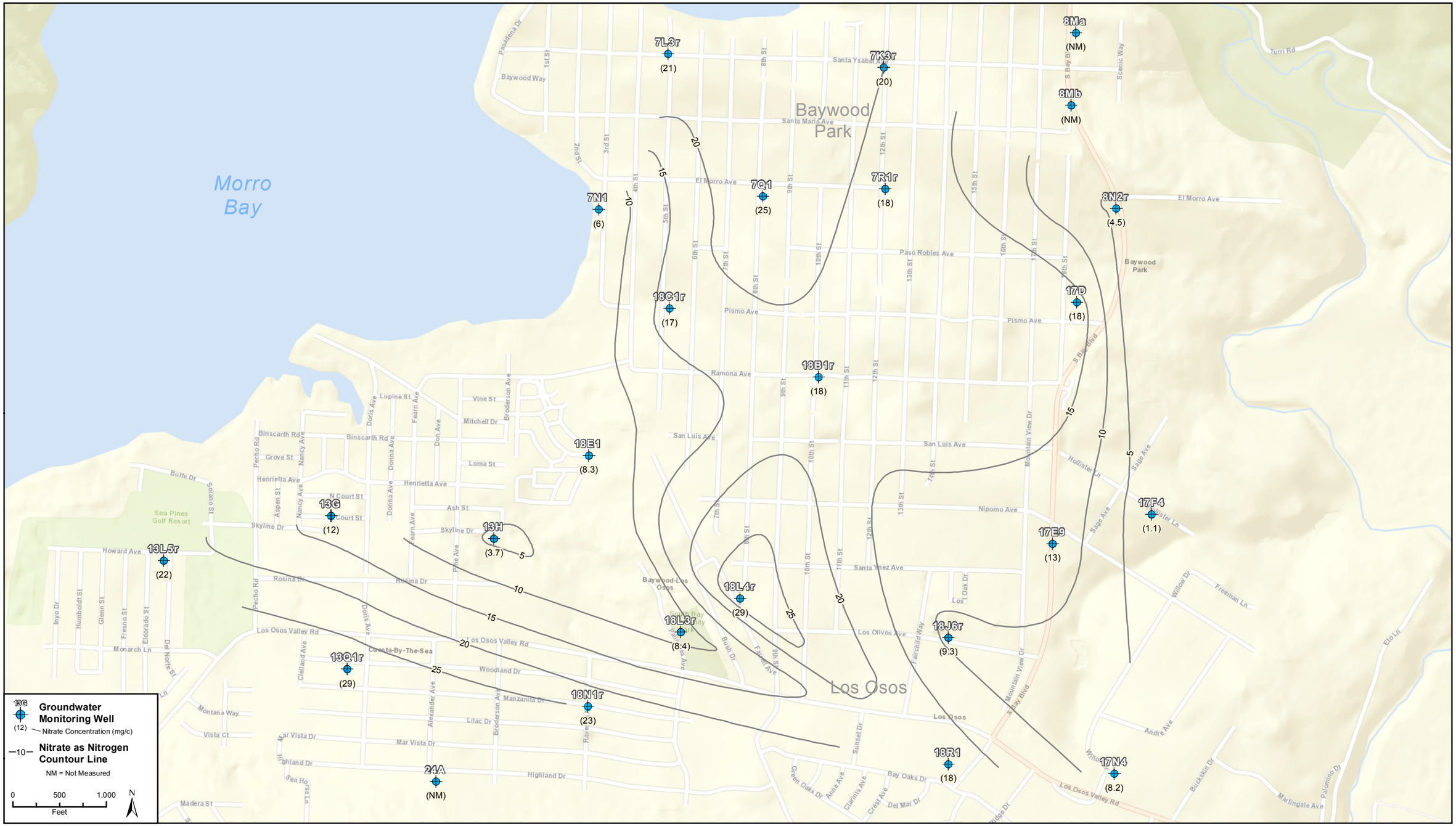


Figure 6. Total Dissolved Solids Concentration Graph
Los Osos Water Recycling Facility
County of San Luis Obispo



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Nitrate as Nitrogen Concentration Contour Map

Figure 7

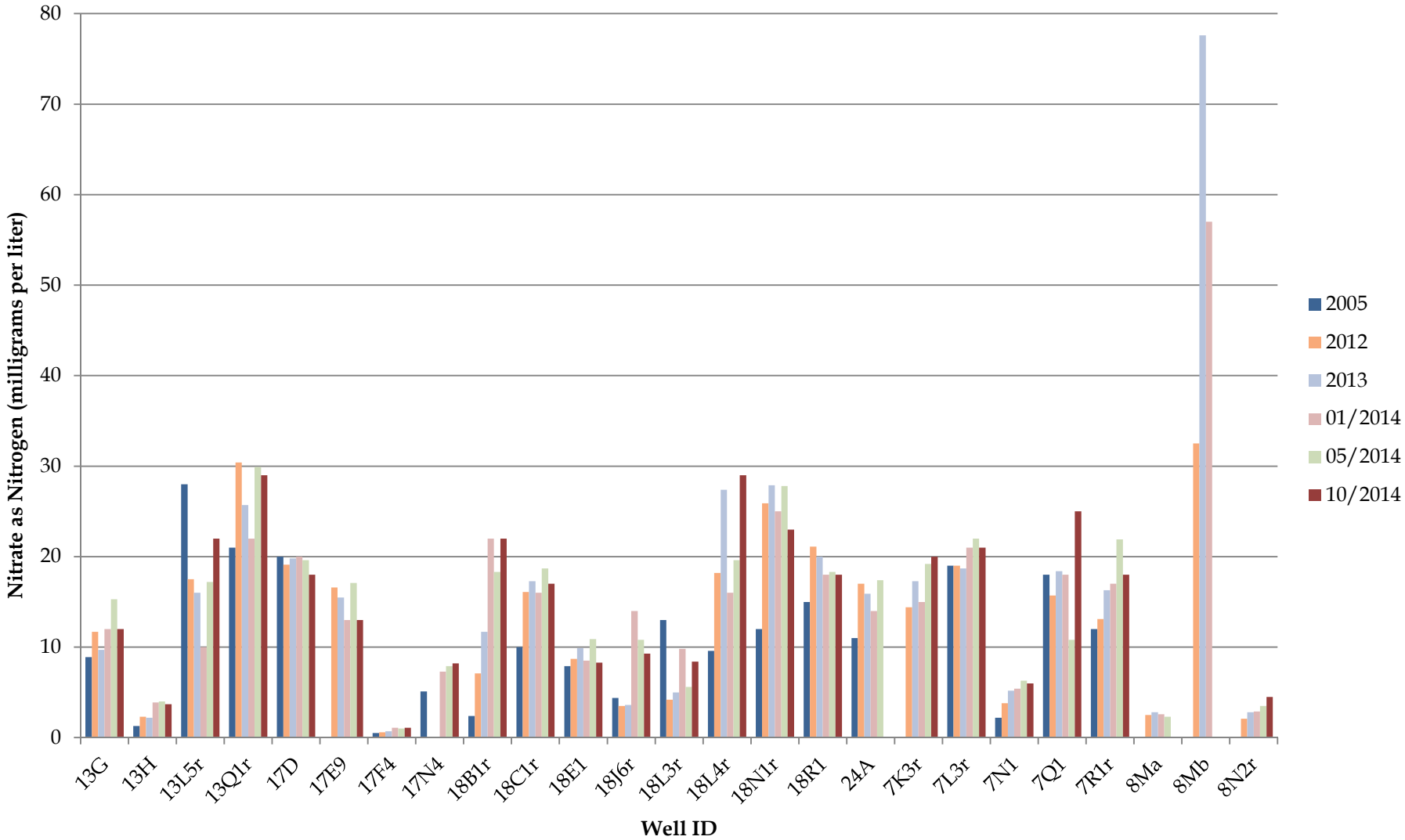

Figure 8. Nitrate as Nitrogen Concentration Graph
Los Osos Water Recycling Facility
County of San Luis Obispo

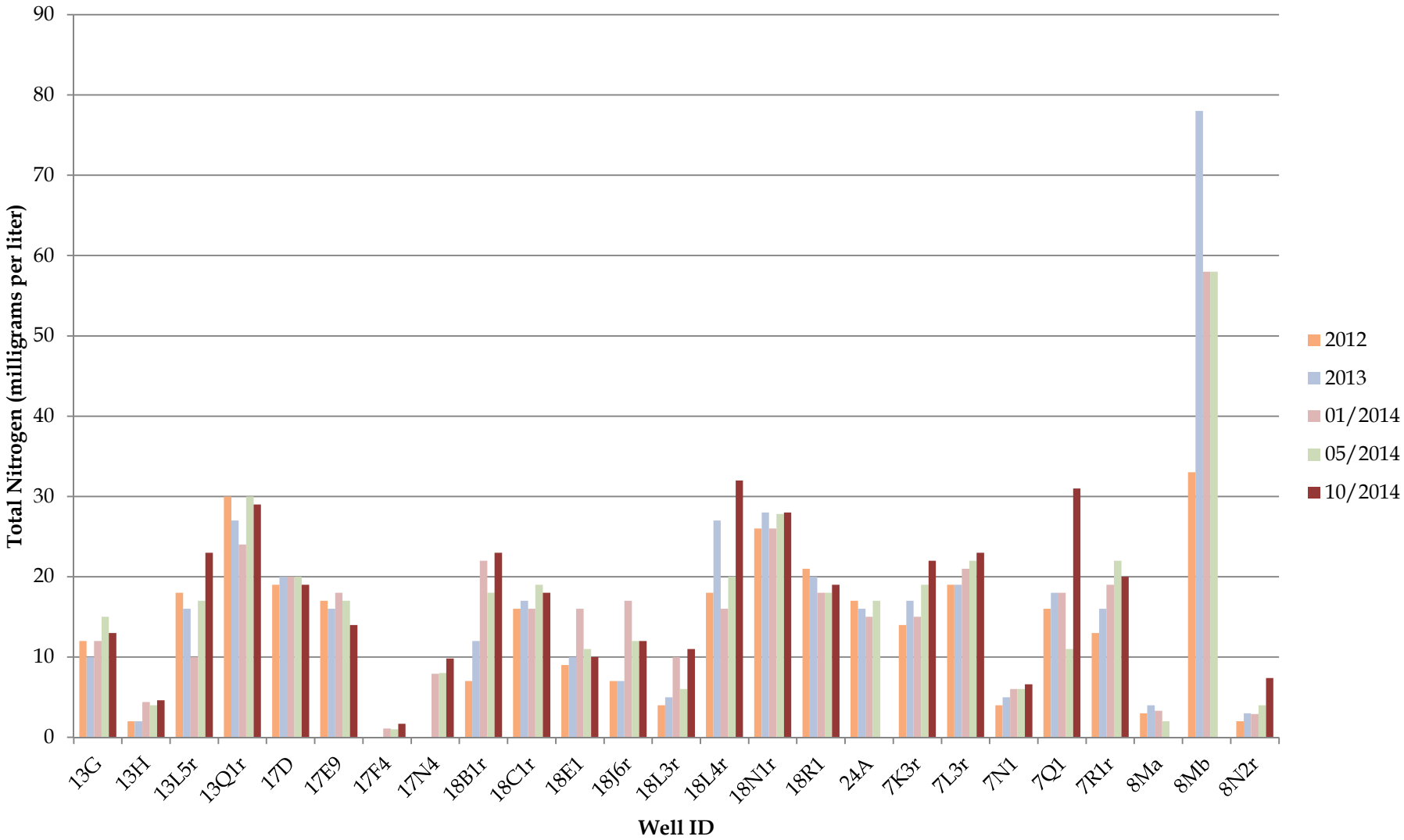

Figure 9. Total Nitrogen Concentration Graph
Los Osos Water Recycling Facility
County of San Luis Obispo

Appendix A

Groundwater Sampling/Purging Data Sheets

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481		Date: 10/21/14	
Project/Location Los Osos		Well Number: 13G	
Observation Period Start: 1125	Stop: 1200	Survey Reference Point: top of Casing	
Sampled By: R. PRICE		Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	47'
Well Diameter (in)	2"	Depth of Well (ft)	49.10
Initial/Static Depth to Water (ft)	42.03	Length of Water Column (ft)	7.07
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.13	Three Casing Volumes (gal)	3.39
Purge Time, Start	1137	Purge Time, Stop	1141
Total Purge Time (minutes)	4	Purge Rate (gpm)	1
Purge Volume (gal)	4	Depth to Water (ft) at Sampling	42.02

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	398	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	113	2.26	3.39				At Sampling
TDS (ppm)	364	~~1.13~~ 410	~~2.26~~ 318	~~3.39~~ 392				383
Turbidity (measured or visual) cloudy, clear, muddy	cldy	cldy	cldy	sl. cldy				sl cldy
Temperature (C)	19.3	18.6	18.5	18.3				18.3
Conductivity (micromhos)	725	823	795	788				765
pH	6.35	6.19	6.11	6.11				6.24
Dissolved Oxygen (mg/L & %)	5.59	5.05	4.86	5.75				5.77
Comments:								
Depth to Water at End of Purge (ft)				42.02				
Drawdown (ft)				0.01				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling:

Water Level Indicator: Solinst

Weather Conditions: Clear

Comments:

Sampled at: 1155

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/2014
Project/Location	Los Osos GW	Well Number:	13H
Observation Period Start:	1215 Stop: 1330	Survey Reference Point:	top of Casing
Sampled By:	R PRICE	Witnessed By:	

PURGING DATA

Type of Pump	Proactive	Pump Inlet Depth (ft)	32'
Well Diameter (in)	2"	Depth of Well (ft)	~~34.39~~ 33.99
Initial/Static Depth to Water (ft)	31.07	Length of Water Column (ft)	~~3.32~~ 2.92
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	~~0.53~~ 0.47	Three Casing Volumes (gal)	~~1.59~~ 1.40
Purge Time, Start	1225	Purge Time, Stop	1227
Total Purge Time (minutes)	2	Purge Rate (gpm)	1/2
Purge Volume (gal)	1	Depth to Water (ft) at Sampling	31.19

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	~~0.53~~	~~1.06~~	~~1.59~~				At Sampling
TDS (ppm)		124						~~and~~ 123
Turbidity (measured or visual) cloudy, clear, muddy		cloudy		CANNOT PURGE - Too Low				muddy
Temperature (C)		21.8						20.1
Conductivity (micromhos)		248		Well purged dry in <1/2 min.				246
pH		6.72						6.73
Dissolved Oxygen (mg/L & %)		4.86						4.68
Comments:								
Depth to Water at End of Purge (ft)				31.67				
Drawdown (ft)				0.60				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinist

Weather Conditions: clear

Comments: Well needs to be deepened. Sampled at: 1315

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

31.07 + 0.2 * 0.12 = 31.19

0.2
0.6
0.12

1247 - 31.45
1254 31.33
1303 31.24

.18/7min

4" well - first.

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/14
Project/Location	Los Osos	Well Number:	13LS-
Observation Period Start:	1020	Stop: 1115	Survey Reference Point: ~~top~~ of Casing
Sampled By:	R Price	Witnessed By:	

PURGING DATA

Type of Pump	60' elect	Pump Inlet Depth (ft)	32
Well Diameter (in)	4"	Depth of Well (ft)	30.75 metered
Initial/Static Depth to Water (ft)	23.84	Length of Water Column (ft)	~~37-30.75~~ 6.91
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	~~8.56~~ 4.49	Three Casing Volumes (gal)	~~25.67~~ 13.47
Purge Time, Start	1042	Purge Time, Stop	1050
Total Purge Time (minutes)	8min	Purge Rate (gpm)	1.75 gpm
Purge Volume (gal)	14	Depth to Water (ft) at Sampling	23.85

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	~~6-inch Diameter = 1.46 gal/ft~~
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = ~~9.18 gal/ft~~

INDICATOR DATA

Volume Pumped (gal)	Before Purge	4.49	8.98	~~13.47~~	@			13.47 ~~At Sampling~~
TDS (ppm)	321	329	342	3.26				349
Turbidity (measured or visual) cloudy, clear, muddy	cloudy	sl. cloudy	clear	clear				clear
Temperature (C)	19.3	19.0	19.1	19.8				19.2
Conductivity (micromhos)	640	658	683	654				698
pH	6.80	6.53	6.36	6.25				6.11
Dissolved Oxygen (mg/L & %)	3.94	3.93	3.16	3.40				2.40
Comments:								
Depth to Water at End of Purge (ft)				23.85				
Drawdown (ft)				0				

MISCELLANEOUS DATA

Condition of Traffic Box: Needs bolts 4" Well

Drum Identification labeling:

Water Level Indicator: Solinist

Weather Conditions: Cool, P. Cloudy.

Comments:

Sampled at: 1105

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/22/14
Project/Location	Los Oso Baseline	Well Number:	1302r
Observation Period Start:	1230 Stop:	Survey Reference Point:	top of casing
Sampled By:	Tim DeLaney	Witnessed By:	

PURGING DATA

Type of Pump	Proactive	Pump Inlet Depth (ft)	95'
Well Diameter (in)	2"	Depth of Well (ft)	103.87
Initial/Static Depth to Water (ft)	86.53	Length of Water Column (ft)	17.34
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.77	Three Casing Volumes (gal)	8.32
Purge Time, Start	1245	Purge Time, Stop	1255
Total Purge Time (minutes)	10	Purge Rate (gpm)	0.83 /gpm
Purge Volume (gal)	8.3	Depth to Water (ft) at Sampling	86.54

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2.75	5.50	8.3				At Sampling
TDS (ppm)	400	416	418	418				433
Turbidity (measured or visual) cloudy, clear, muddy	sl cloudy	cloudy	sl cloudy	sl cloudy				sl cloudy
Temperature (C)	25.8	22.2	21.7	21.3				19.2
Conductivity (micromhos)	800	830	833	835				870
pH	6.78	6.57	6.47	6.49				6.20
Dissolved Oxygen (mg/L & %)	3.76	4.24	3.82	4.13				3.90
Comments:								
Depth to Water at End of Purge (ft)				86.60				
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box:	good
Drum Identification labeling:	
Water Level Indicator:	splinst
Weather Conditions:	clear

Comments:

Sampled at: 1310

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/2014
Project/Location	Los Osos Baseline	Well Number:	17D
Observation Period Start:	~~3:35~~ 1535 Stop:	Survey Reference Point:	None
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	Unknown	Pump Inlet Depth (ft)	NA
Well Diameter (in)	10"	Depth of Well (ft)	120
Initial/Static Depth to Water (ft)	NA	Length of Water Column (ft)	NA
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								286
Turbidity (measured or visual) cloudy, clear, muddy	No purge actively pumping purge 5 gal							Clear
Temperature (C)								20.4
Conductivity (micromhos)								571
pH								7.44
Dissolved Oxygen (mg/L & %)								3.82
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box:	NA
Drum Identification labeling:	
Water Level Indicator:	None
Weather Conditions:	Clear

Comments:

Sampled at: ~~1535~~ 1545

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/22/2014
Project/Location	Los OSOS Baseline	Well Number:	17E9
Observation Period Start:	1330 Stop:	Survey Reference Point:	top of casing
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	Pro Cutter	Pump Inlet Depth (ft)	180'
Well Diameter (in)	2"	Depth of Well (ft)	204
Initial/Static Depth to Water (ft)	91.72	Length of Water Column (ft)	~~204~~ 112
Product Thickness (ft)		Volume Multiplier (gal/ft)	~~179~~ 0.16
One Casing Volume (gal)	18	Three Casing Volumes (gal)	54
Purge Time, Start	1340	Purge Time, Stop	1420
Total Purge Time (minutes)	50	Purge Rate (gpm)	1.1 gpm
Purge Volume (gal)	55	Depth to Water (ft) at Sampling	91.80

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)	216	263	264	265				216
Turbidity (measured or visual) cloudy, clear, muddy	clear	Clear	clear	Clear				clear
Temperature (C)	19.7	19.4	19.4	19.1				19.6
Conductivity (micromhos)	430	526	528	530				432
pH	8.19	8.52	6.99	7.01				8.66
Dissolved Oxygen (mg/L & %)	2.64	2.59	2.75	2.97				312
Comments:								
Depth to Water at End of Purge (ft)				94.28				
Drawdown (ft)				2.56				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling:

Water Level Indicator: solinst

Weather Conditions: clear

Comments: Sampled at: 1430

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

91.72 + 0.2 * 2.56 = 92.23

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/2014
Project/Location	Los Osos Baseline	Well Number:	17F4
Observation Period Start:	1520 Stop:	Survey Reference Point:	~~[illegible]~~ N/A
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	N/A	Pump Inlet Depth (ft)	NA
Well Diameter (in)	8	Depth of Well (ft)	72
Initial/Static Depth to Water (ft)	NA	Length of Water Column (ft)	NA
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								311
Turbidity (measured or visual) cloudy, clear, muddy								Clear
Temperature (C)								21.5
Conductivity (micromhos)								623
pH								6.76
Dissolved Oxygen (mg/L & %)								3.57
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

Active residential well, Did Not Purge entire volume 5 gal

MISCELLANEOUS DATA

Condition of Traffic Box: Sagged

Drum Identification labeling: —

Water Level Indicator: None

Weather Conditions: Clear

Comments: Sampled at: 1530

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/14
Project/Location		Well Number:	17N4
Observation Period Start:	1510 Stop:	Survey Reference Point:	None
Sampled By:	R. Price	Witnessed By:	

PURGING DATA

Type of Pump	UNKOWN	Pump Inlet Depth (ft)	NA
Well Diameter (in)	6"	Depth of Well (ft)	60
Initial/Static Depth to Water (ft)		Length of Water Column (ft)	NA
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	1575
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								165
Turbidity (measured or visual) cloudy, clear, muddy	?	Depths unk						
Temperature (C)								20.6
Conductivity (micromhos)								332
pH		Active recuulated well						6.79
Dissolved Oxygen (mg/L & %)		5 gal purge - Spigot						3.49
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments:

Sampled at: 1520

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/14
Project/Location	Los Osos GW	Well Number:	18B1r
Observation Period Start:	1425 Stop: 1510	Survey Reference Point:	top of Cassway
Sampled By:	R. PRICE	Witnessed By:	

PURGING DATA

Type of Pump	60' Elect. ~~Proactive~~	Pump Inlet Depth (ft)	30'
Well Diameter (in)	2"	Depth of Well (ft)	31.76
Initial/Static Depth to Water (ft)	23.12'	Length of Water Column (ft)	8.64
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.38	Three Casing Volumes (gal)	4.14
Purge Time, Start	1439	Purge Time, Stop	1443
Total Purge Time (minutes)	4	Purge Rate (gpm)	1.125
Purge Volume (gal)	4.5	Depth to Water (ft) at Sampling	~~23.25~~ 23.12

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	1.38	2.76	4.14				At Sampling
TDS (ppm)	370	405	408	405				379
Turbidity (measured or visual) cloudy, clear, muddy	clr	clr	clr	clr				clear
Temperature (C)	20.3	18.9	18.9	18.7				19.1
Conductivity (micromhos)	743	810	812	809				754
pH	6.48	6.41	6.32	6.29				6.61
Dissolved Oxygen (mg/L & %)	4.27	3.09	2.16	2.48				4.00
Comments:								
Depth to Water at End of Purge (ft)				23.25				
Drawdown (ft)				0.13				

MISCELLANEOUS DATA

Condition of Traffic Box:	Good. Water in Box
Drum Identification labeling:	—
Water Level Indicator:	Solinist
Weather Conditions:	clear

Comments:

*Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

23.12 + 0.2 * 0.13 = 23.15

Sampled at: 1455

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/14
Project/Location	Los Osos GW	Well Number:	18C1r
Observation Period Start:	1515 Stop: 1555	Survey Reference Point:	top of casing
Sampled By:	R. Price	Witnessed By:	

PURGING DATA

Type of Pump	60' Elect. proactive	Pump Inlet Depth (ft)	26'
Well Diameter (in)	2"	Depth of Well (ft)	28.65'
Initial/Static Depth to Water (ft)	20.20'	Length of Water Column (ft)	8.45'
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.35	Three Casing Volumes (gal)	4.06
Purge Time, Start	1526	Purge Time, Stop	1530
Total Purge Time (minutes)	4	Purge Rate (gpm)	1
Purge Volume (gal)	4	Depth to Water (ft) at Sampling	20.20

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	1.35	2.70	4.06				At Sampling
TDS (ppm)	314	410	417	414	~~411~~			417
Turbidity (measured or visual) cloudy, clear, muddy	clr	clr	sl. cldy	clr				clr
Temperature (C)	22.3	19.6	18.6	19.0				19.0
Conductivity (micromhos)	628	820	827	829				835
pH	6.99	7.09	6.72	6.49				6.72
Dissolved Oxygen (mg/L & %)	5.10	3.75	3.10	2.55				2.87
Comments:								
Depth to Water at End of Purge (ft)				20.20				
Drawdown (ft)				0				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinist

Weather Conditions: Clear

Comments:

Sampled at: 1540

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13 - 01481	Date:	10/21/2014
Project/Location	Los Osos Baseline	Well Number:	18E1
Observation Period Start:	930 Stop:	Survey Reference Point:	Top of Casing
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	Proactive	Pump Inlet Depth (ft)	98'
Well Diameter (in)	6"	Depth of Well (ft)	100
Initial/Static Depth to Water (ft)	27.59	Length of Water Column (ft)	72.4
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	1.46
One Casing Volume (gal)	105.7	Three Casing Volumes (gal)	315
Purge Time, Start	936	Purge Time, Stop	1030
Total Purge Time (minutes)	54	Purge Rate (gpm)	5.5
Purge Volume (gal)	300	Depth to Water (ft) at Sampling	27.59

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	100	200	300				At Sampling
TDS (ppm)	241	212	209	211				209
Turbidity (measured or visual) cloudy, clear, muddy	clear	clear	clear	clear				clear
Temperature (C)	17.7	18.5	18.8	18.9				18.9
Conductivity (micromhos)	482	424	420	423				418
pH	6.61	6.62	6.69	6.58				6.57
Dissolved Oxygen (mg/L & %)	3.39	3.34	3.21	2.93				3.22
Comments:								
Depth to Water at End of Purge (ft)				27.59				
Drawdown (ft)				0				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: partly cloudy

Comments: Sampled at: 1045

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/22/14
Project/Location	Los Osos Baseline	Well Number:	1S16r
Observation Period Start:	1035 Stop:	Survey Reference Point:	top of casing
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	32
Well Diameter (in)	2"	Depth of Well (ft)	35
Initial/Static Depth to Water (ft)	27.42	Length of Water Column (ft)	7.58
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.21	Three Casing Volumes (gal)	3.64
Purge Time, Start	1100	Purge Time, Stop	1105
Total Purge Time (minutes)	5	Purge Rate (gpm)	0.5
Purge Volume (gal)	2.5	Depth to Water (ft) at Sampling	28.10

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)	270	265	269	264				266
Turbidity (measured or visual) cloudy, clear, muddy	Clear	Clear	Clear	Clear				Clear
Temperature (C)	25.8	24.5	24.1	23.5				22.7
Conductivity (micromhos)	541	536	538	523				536
pH	6.39	6.40	6.47	6.40				6.75
Dissolved Oxygen (mg/L & %)	1.32	1.21	1.85	1.14				2.52
Comments:								
Depth to Water at End of Purge (ft)				31.18				
Drawdown (ft)				3.76				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: Clear

Comments: well pumped dry after 1 gal left Sampled at: 1125

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery Rest 5 min

27.42 + 0.2 * 3.76 = 28.17

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/14
Project/Location	Los Osos GW	Well Number:	18L3r
Observation Period Start:	1000 Stop: 1050	Survey Reference Point:	Top of Casing
Sampled By:	RPRICE	Witnessed By:	T. DELANEY

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	53
Well Diameter (in)	2"	Depth of Well (ft)	55'
Initial/Static Depth to Water (ft)	44.95	Length of Water Column (ft)	10.05
Product Thickness (ft)		Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	10.05 x 0.2 = 2.01	Three Casing Volumes (gal)	~~30~~ 6.03
Purge Time, Start	1015	Purge Time, Stop	1025
Total Purge Time (minutes)	10	Purge Rate (gpm)	0.6
Purge Volume (gal)	6	Depth to Water (ft) at Sampling	44.96

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	0 ~~2~~	4 ~~2~~	~~6~~ 4	6			At Sampling
TDS (ppm)		149	164	175	175			153
Turbidity (measured or visual) cloudy, clear, muddy		muddy	m.	cloudy	cloudy			cloudy
Temperature (C)		20.8	20.0	20.1	20.6			19.5
Conductivity (micromhos)		294	328	349	349			307
pH		6.14	5.98	6.04	6.16			6.44
Dissolved Oxygen (mg/L & %)		4.42	3.90	3.32	4.16			5.93
Comments:								
Depth to Water at End of Purge (ft)				44.97				
Drawdown (ft)				0.02				

MISCELLANEOUS DATA

Condition of Traffic Box:	GOOD
Drum Identification labeling:	NONE
Water Level Indicator:	SOLINIST
Weather Conditions:	CLEAR

Comments: Sampled at: 1040

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/2014
Project/Location	Los Osos Baseline	Well Number:	18L4r
Observation Period Start:	1425 Stop:	Survey Reference Point:	top of casing
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	proactive	Pump Inlet Depth (ft)	33
Well Diameter (in)	2"	Depth of Well (ft)	35
Initial/Static Depth to Water (ft)	22.95	Length of Water Column (ft)	12.05
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.92	Three Casing Volumes (gal)	5.78
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)	14:33 ↗ 5m	Purge Rate (gpm)	1438 ↗ 1.16 gpm
Purge Volume (gal)	5.8	Depth to Water (ft) at Sampling	22.98

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)	401	391	401	404				398
Turbidity (measured or visual) cloudy, clear, muddy	clear	clear	sl cloudy	clear				clear
Temperature (C)	23.8	21.3	20.8	20.6				20.3
Conductivity (micromhos)	803	777	796	808				800
pH	6.20	6.20	6.16	6.17				6.17
Dissolved Oxygen (mg/L & %)	2.61	2.59	2.49	2.44				2.50
Comments:								
Depth to Water at End of Purge (ft)				23.20				
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box:	good
Drum Identification labeling:	
Water Level Indicator:	solinist
Weather Conditions:	clear

Comments:

Sampled at: 1445

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/2014
Project/Location	LOS OSOS Base line	Well Number:	18N1r
Observation Period Start:	1135 Stop:	Survey Reference Point:	top of casing
Sampled By:	T. DECANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	90
Well Diameter (in)	2"	Depth of Well (ft)	95
Initial/Static Depth to Water (ft)	79.91	Length of Water Column (ft)	16.09
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	~~1.6~~ 0.16
One Casing Volume (gal)	2.6	Three Casing Volumes (gal)	~~4.8~~ 7.7
Purge Time, Start	1230	Purge Time, Stop	1240
Total Purge Time (minutes)	10	Purge Rate (gpm)	0.5
Purge Volume (gal)	5	Depth to Water (ft) at Sampling	79.92

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)	308	318	316	317				321
Turbidity (measured or visual) cloudy, clear, muddy	cloudy	cloudy	cloudy	cloudy				cloudy
Temperature (C)	24.6	21.4	21.1	20.9				21.0
Conductivity (micromhos)	616	635	627	630				641
pH	6.35	6.36	6.32	6.31				6.34
Dissolved Oxygen (mg/L & %)	4.02	4.33	3.96	4.15				3.39
Comments:								
Depth to Water at End of Purge (ft)				80.08				
Drawdown (ft)				0.17				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling:

Water Level Indicator: Solinst

Weather Conditions: clear

Comments: Sampled at: 1250

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/2014
Project/Location	Los Osos Baseline	Well Number:	18R1
Observation Period Start:	1500 Stop:	Survey Reference Point:	~~#~~ N/A
Sampled By:	T. DEZAUEY	Witnessed By:	

PURGING DATA

Type of Pump	UNKOWN	Pump Inlet Depth (ft)	N/A
Well Diameter (in)	8	Depth of Well (ft)	~~#~~ 50
Initial/Static Depth to Water (ft)	N/A	Length of Water Column (ft)	N/A
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								250
Turbidity (measured or visual) cloudy, clear, muddy								clear
Temperature (C)								19.0
Conductivity (micromhos)								495
pH							6.58	
Dissolved Oxygen (mg/L & %)								2.71
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

Active Residential well ~~@~~ 5 gal purge

MISCELLANEOUS DATA

Condition of Traffic Box: spigot

Drum Identification labeling: —

Water Level Indicator: None

Weather Conditions: clear

Comments: Sampled at: 1515

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-~~00~~ 01481	Date:	10/20/2014
Project/Location	Los Osos Baseline	Well Number:	24A
Observation Period Start:	1110 Stop: ~~1130~~ 1130	Survey Reference Point:	Top of Casing
Sampled By:	T. Delaney	Witnessed By:	

PURGING DATA

Type of Pump	Proactive	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	
Initial/Static Depth to Water (ft)	Well is dry	Length of Water Column (ft)	
Product Thickness (ft)		Volume Multiplier (gal/ft)	0.16 gal/ft
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	Did Not Sample

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								
Turbidity (measured or visual) cloudy, clear, muddy								
Temperature (C)								
Conductivity (micromhos)								
pH								
Dissolved Oxygen (mg/L & %)								
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments: Sampled at: Did Not Sample

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	~~10/20/14~~ 10/21/14
Project/Location	Los Osos	Well Number:	7K3r
Observation Period Start:	0900 Stop: 0955	Survey Reference Point:	top of casing
Sampled By:	RPRICE	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	60'
Well Diameter (in)	2"	Depth of Well (ft)	70'
Initial/Static Depth to Water (ft)	54.23'	Length of Water Column (ft)	15.77
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.52	Three Casing Volumes (gal)	7.56
Purge Time, Start	0915	Purge Time, Stop	0928
Total Purge Time (minutes)	13	Purge Rate (gpm)	0.58 gpm
Purge Volume (gal)	7.5	Depth to Water (ft) at Sampling	54.24'

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2.52	5.05	7.56				At Sampling
TDS (ppm)	431	445	441	447				448
Turbidity (measured or visual) cloudy, clear, muddy	sl. cloudy	sl. cloudy	clear	clear				clear
Temperature (C)	19.1	18.6	18.5	18.7				18.5
Conductivity (micromhos)	863	888	883	893				899
pH	7.09	7.14	7.23	7.07				7.08
Dissolved Oxygen (mg/L & %)	6.55	6.68	6.34	5.58				6.01
Comments:								
Depth to Water at End of Purge (ft)				54.36				
Drawdown (ft)				0.13'				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: Clear

Comments:

Sampled at: 0950

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

54.23 + 0.2 * 0.13 = 54.25

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/14
Project/Location	Los Osos GW	Well Number:	7L3r
Observation Period Start:	1120 Stop: 1200	Survey Reference Point:	top of casing
Sampled By:	R. Price	Witnessed By:	

PURGING DATA

Type of Pump	Elect 60' Proactive	Pump Inlet Depth (ft)	45
Well Diameter (in)	2"	Depth of Well (ft)	50
Initial/Static Depth to Water (ft)	38.24'	Length of Water Column (ft)	11.76
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.88	Three Casing Volumes (gal)	5.64
Purge Time, Start	1130	Purge Time, Stop	1137
Total Purge Time (minutes)	7	Purge Rate (gpm)	0.86 gpm
Purge Volume (gal)	~6	Depth to Water (ft) at Sampling	38.24

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2	4	6				At Sampling
TDS (ppm)		340	350	330				650
Turbidity (measured or visual) cloudy, clear, muddy		clear	clear	clear				cloudy
Temperature (C)		21.5	19.8	19.6				20.5
Conductivity (micromhos)		670	680	668				327
pH		6.33	6.51	6.63				6.75
Dissolved Oxygen (mg/L & %)		3.66	3.00	2.75				4.10
Comments:								
Depth to Water at End of Purge (ft)				38.24				
Drawdown (ft)				0				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: clear

Comments:

Sampled at: 1140

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-~~018~~01481	Date:	10/22/14
Project/Location	LOS OSOS BASELINE	Well Number:	7N1
Observation Period Start:	950 Stop: 1010	Survey Reference Point:	None
Sampled By:	T. DRANEY	Witnessed By:	

PURGING DATA

Type of Pump	NA	Pump Inlet Depth (ft)	NA
Well Diameter (in)	10	Depth of Well (ft)	83
Initial/Static Depth to Water (ft)	NA	Length of Water Column (ft)	NA
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								220
Turbidity (measured or visual) cloudy, clear, muddy								clear
Temperature (C)								20.2
Conductivity (micromhos)							439	~~438~~
pH								7.17
Dissolved Oxygen (mg/L & %)								4.01
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box: NA

Drum Identification labeling: —

Water Level Indicator: NA

Weather Conditions: clear

Comments: Sampled from "raw" water port

Sampled at: 1000

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/21/2017
Project/Location	LOS OSOS Baseline	Well Number:	7Q1
Observation Period	Start: 1140 Stop:	Survey Reference Point:	top of Casing
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	60'
Well Diameter (in)	8"	Depth of Well (ft)	75
Initial/Static Depth to Water (ft)	9.28	Length of Water Column (ft)	65.72
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	2.6
One Casing Volume (gal)	170	Three Casing Volumes (gal)	512
Purge Time, Start	1150	Purge Time, Stop	~~1320~~ 1320
Total Purge Time (minutes)	~~170~~ 90	Purge Rate (gpm)	~~3~~ gpm 5.6
Purge Volume (gal)	510	Depth to Water (ft) at Sampling	12.34

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	170	340	510				At Sampling
TDS (ppm)	477	456	460	461				430
Turbidity (measured or visual) cloudy, clear, muddy	sl cloudy	sl cloudy	sl cloudy	sl cloudy				Clear
Temperature (C)	19.7	19.0	19.1	19.0				21.8
Conductivity (micromhos)	954	916	920	922				772
pH	6.99	7.09	7.08	7.06				6.70
Dissolved Oxygen (mg/L & %)	0.70	1.34	1.24	1.29				2.09
Comments:								
Depth to Water at End of Purge (ft)				26.60				
Drawdown (ft)				17.32				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: clear

Comments:

Sampled at: 1340

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

9.28 + 0.2 * 17.32 = 12.74

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/14
Project/Location		Well Number:	~~7KST~~ 7R1r
Observation Period Start:	~~1205~~ 1235 Stop:	Survey Reference Point:	top of casing
Sampled By:	RPRICE	Witnessed By:	

PURGING DATA

Type of Pump	proactive	Pump Inlet Depth (ft)	30'
Well Diameter (in)	2"	Depth of Well (ft)	35.0'
Initial/Static Depth to Water (ft)	24.62	Length of Water Column (ft)	10.38
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.66	Three Casing Volumes (gal)	4.98
Purge Time, Start	1240	Purge Time, Stop	1245
Total Purge Time (minutes)	5	Purge Rate (gpm)	1gpm
Purge Volume (gal)	5.0	Depth to Water (ft) at Sampling	24.64

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = ~~0.092 gal/ft~~	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	~~1.66~~	~~3.32~~ 1.66	~~4.98~~ 3.32	4.98			At Sampling
TDS (ppm)	331		361	364	359			362
Turbidity (measured or visual) cloudy, clear, muddy	cloudy		cloudy	cloudy	cloudy			cloudy
Temperature (C)	22.7		20.6	19.5	19.6			19.8
Conductivity (micromhos)	663		712	730	718			720
pH	6.67		6.59	6.47	6.42			~~5.20~~ 6.4
Dissolved Oxygen (mg/L & %)	3.87		2.80	2.55	3.74			5.00
Comments:								
Depth to Water at End of Purge (ft)				24.82				
Drawdown (ft)				0.20				

MISCELLANEOUS DATA

Condition of Traffic Box:	good
Drum Identification labeling:	—
Water Level Indicator:	solinst
Weather Conditions:	clear

Comments:

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

24.62 + 0.2 * ~~0.2~~ 0.2 (~~24.82~~) = 24.66

Sampled at: ~~1305~~ 1250

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/14
Project/Location	Los Osos	Well Number:	8Ma.
Observation Period Start:	1330 Stop:	Survey Reference Point:	top of Casing
Sampled By:	RTRice	Witnessed By:	

PURGING DATA

Type of Pump	/	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	45.10 measured.
Initial/Static Depth to Water (ft)	44.78	Length of Water Column (ft)	0.32"
Product Thickness (ft)	/	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	0.05 gal	Three Casing Volumes (gal)	0.15 gal
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)	/	Purge Rate (gpm)	
Purge Volume (gal)	/	Depth to Water (ft) at Sampling	Did Not Sample

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								
Turbidity (measured or visual) cloudy, clear, muddy								
Temperature (C)								
Conductivity (micromhos)								
pH								
Dissolved Oxygen (mg/L & %)								
Comments:	Too little water to purge.							
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: /

Water Level Indicator: Solinst

Weather Conditions: good

Comments: Needs proper well cap. Too little water to sample. Sampled at: ~~N/A~~ 50mL 1345

3" Water.

Well needs to be deepened.

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/22/14
Project/Location	Los Osos Baseline	Well Number:	8MB
Observation Period Start:	1018 Stop:	Survey Reference Point:	top of Casing
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	—
Well Diameter (in)	2"	Depth of Well (ft)	47.0
Initial/Static Depth to Water (ft)	46.38	Length of Water Column (ft)	0.62
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	
One Casing Volume (gal)		Three Casing Volumes (gal)	
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	Did not sample

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge							At Sampling
TDS (ppm)								
Turbidity (measured or visual) cloudy, clear, muddy								
Temperature (C)								
Conductivity (micromhos)								
pH								
Dissolved Oxygen (mg/L & %)								
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: Clear

Comments: Sampled at: Did not sample

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

insufficient amount of water to sample

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	10/20/2014
Project/Location	Los Osos GW	Well Number:	8N2r
Observation Period Start:	1415 Stop:	Survey Reference Point:	top of casing
Sampled By:	R. Price	Witnessed By:	

PURGING DATA

Type of Pump	60' Proactive	Pump Inlet Depth (ft)	48'
Well Diameter (in)	2"	Depth of Well (ft)	56
Initial/Static Depth to Water (ft)	~~42.70~~ 41.70	Length of Water Column (ft)	8.3
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.33 g	Three Casing Volumes (gal)	3.98 g
Purge Time, Start	1425	Purge Time, Stop	1430
Total Purge Time (minutes)	5 min	Purge Rate (gpm)	0.8 gpm
Purge Volume (gal)	4 gal.	Depth to Water (ft) at Sampling	41.72

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	1.32	2.65	3.98				At Sampling
TDS (ppm)	76	71	70	70	73			
Turbidity (measured or visual) cloudy, clear, muddy	clear	cloudy	cloudy	sl. cloudy	sl. cloudy			
Temperature (C)	21.2	19.7	18.9	19.0	19.8			
Conductivity (micromhos)	154	140	143	142	147			
pH	7.13	7.14	7.15	7.05	7.06			
Dissolved Oxygen (mg/L & %)	3.08	3.12	2.51	3.19	2.92			
Comments:								
Depth to Water at End of Purge (ft)				41.72				
Drawdown (ft)				0.02				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: Clear

Comments:

Sampled at: 1435

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * 0 = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	14-01481	Date:	4-DEC-2014
Project/Location	Los Osos GWM BASELINE	Well Number:	18E1
Observation Period	Start: 0935 Stop:	Survey Reference Point:	TOC.
Sampled By:	Robert Price	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	6	Depth of Well (ft)	~~75'~~ 100'
Initial/Static Depth to Water (ft)	26.90'	Length of Water Column (ft)	~~48.1~~ 73.1
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	~~1.5~~ 1.46
One Casing Volume (gal)	~~70.23~~ 106.7	Three Casing Volumes (gal)	~~210.678~~ 320.4
Purge Time, Start	1004	Purge Time, Stop	1115
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)		Depth to Water (ft) at Sampling	27.05'

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	107	214	321				At Sampling
TDS (ppm)	240	206	204	203	~~205~~			205
Turbidity (measured or visual) cloudy, clear, muddy	clear	clear	clear	clear				clear
Temperature (C)	18.0	18.1	17.9	18.4				18.4
Conductivity (micromhos)	480	412	410	408				408
pH	6.57	~~6.88~~ 6.82	6.84	6.86				6.80
Dissolved Oxygen (mg/L & %)	2.80	3.20	2.88	2.84				
Comments:								
Depth to Water at End of Purge (ft)								
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box: Good SAMPLE + DUP 1

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: Scattered Showers.

Comments: Sampled at: 1130

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

26.90 + 0.2 * 1.0 = 27.1

- CEC Cook: 1102 805-266-7291
↳ RH, side c: 805-720-9072

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	14-01481	Date:	12-4-2014
Project/Location	Los Osos GWM	Well Number:	7Q1
Observation Period Start:	1200 Stop:	Survey Reference Point:	TOC
Sampled By:	Robert Price	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	8	Depth of Well (ft)	75'
Initial/Static Depth to Water (ft)	8.81	Length of Water Column (ft)	66.19
Product Thickness (ft)		Volume Multiplier (gal/ft)	2.6
One Casing Volume (gal)	172.094	Three Casing Volumes (gal)	516.3'
Purge Time, Start	1210	Purge Time, Stop	1355
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)	516	Depth to Water (ft) at Sampling	12.39

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	172	344	516				At Sampling
TDS (ppm)	385	402	411	322				344
Turbidity (measured or visual) cloudy, clear, muddy	sl. cldy	sl. cl.	sl. cldy	sl. cldy				sl. cldy
Temperature (C)	20.3	18.8	19.0	18.7				18.9
Conductivity (micromhos)	770	804	822	645				688
pH	7.41	7.46	7.27	7.25				7.31
Dissolved Oxygen (mg/L & %)	0.92	1.07	2.50	2.39				2.44
Comments:								
Depth to Water at End of Purge (ft)				39.34				
Drawdown (ft)				30.53				

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: —

Water Level Indicator: Solinst

Weather Conditions: Rain, Light

Sampled at: 1430

Comments:

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

8.81 + 0.2 * 30.53 = 14.92

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 14-01481	Date: 12/4/2014
Project/Location Los Osos GWM	Well Number: 18N1r
Observation Period Start: 1450 Stop:	Survey Reference Point: TOC
Sampled By: Robert Price	Witnessed By:

PURGING DATA

Type of Pump		Pump Inlet Depth (ft)	
Well Diameter (in)	2	Depth of Well (ft)	90.80
Initial/Static Depth to Water (ft)	80.23	Length of Water Column (ft)	10.57
Product Thickness (ft)		Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.69	Three Casing Volumes (gal)	5.07
Purge Time, Start	1505	Purge Time, Stop	1510
Total Purge Time (minutes)	~~10~~ 5	Purge Rate (gpm)	1
Purge Volume (gal)	5.1	Depth to Water (ft) at Sampling	80.23

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	1.69	3.38	5.07				At Sampling
TDS (ppm)	303	351	288	287				291
Turbidity (measured or visual) cloudy, clear, muddy	cloudy	cldy	cldy	cldy				cldy
Temperature (C)	18.4	18.1	18.1	18.2				18.2
Conductivity (micromhos)	614	701	577	573				581
pH	7.25	7.36	7.39	7.29				7.12
Dissolved Oxygen (mg/L & %)	3.30	2.87	3.11	3.28				2.96
Comments:								
Depth to Water at End of Purge (ft)				80.23				
Drawdown (ft)				0				

MISCELLANEOUS DATA

Condition of Traffic Box: Good.

Drum Identification labeling: —

Water Level Indicator: SonAst

Weather Conditions: lt. Rain.

Sampled at: 1525

Comments:

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

_____ + 0.2 * _____ = _____

Appendix B

Analytical Laboratory Reports

Oilfield Environmental and Compliance, INC.

Tim Delaney
Rincon Consultants
180 N. Ashwood Ave.
Ventura, CA 93003

31 October 2014

RE: SLO County - Los Osos GWM Work Order: 1404876

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 22-Oct-14 16:43 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. 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,

Ankita

Ankita Kashyap

Asst. Project Manager

TEL: (805) 922-4772
307 Roemer Way, Suite 300, Santa Maria, CA 93454 **www.oecusa.com** FAX: (805) 925-3376

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
17D	1404876-01	Ground Water	21-Oct-14 15:45	22-Oct-14 16:43
17F4	1404876-02	Ground Water	21-Oct-14 15:30	22-Oct-14 16:43
18R1	1404876-03	Ground Water	21-Oct-14 15:15	22-Oct-14 16:43
18C1r	1404876-05	Ground Water	21-Oct-14 15:40	22-Oct-14 16:43
18B1r	1404876-06	Ground Water	21-Oct-14 14:55	22-Oct-14 16:43
13H	1404876-07	Ground Water	21-Oct-14 13:15	22-Oct-14 16:43
13G	1404876-08	Ground Water	21-Oct-14 11:55	22-Oct-14 16:43
7N1	1404876-10	Ground Water	22-Oct-14 10:00	22-Oct-14 16:43
13Q1r	1404876-11	Ground Water	22-Oct-14 13:10	22-Oct-14 16:43
17E9	1404876-12	Ground Water	22-Oct-14 00:00	22-Oct-14 16:43
18J6r	1404876-13	Ground Water	22-Oct-14 11:25	22-Oct-14 16:43

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

17D

1404876-01 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**7.25**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.25**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**470**	10	mg/L	"	B4J0751	25-Oct-14	25-Oct-14	2540C	
Total Kjeldahl Nitrogen	**1.0**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**19**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**87**	8.0	mg/L	20	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**18**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**28**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.040**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	ND	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	ND	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.0075**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

17D

1404876-01 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Silver	ND	0.010	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Sodium	**61**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	
Zinc	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

17F4

1404876-02 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.78**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.33**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**21**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**530**	10	mg/L	"	B4J0751	25-Oct-14	25-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.62**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**1.7**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**110**	8.0	mg/L	20	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**1.1**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**18**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.099**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	ND	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.016**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.019**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**68**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

17F4

1404876-02 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18R1

1404876-03 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.31**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.35**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**450**	10	mg/L	"	B4J0751	25-Oct-14	25-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.88**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**19**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**70**	4.0	mg/L	10	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**18**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**26**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.028**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	**0.19**	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.015**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.020**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**59**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18R1

1404876-03 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18C1r

1404876-05 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.69**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.34**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**690**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.80**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**18**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**130**	4.0	mg/L	10	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**17**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**45**	4.0	"	10	"	"	24-Oct-14	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.056**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	**0.17**	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.018**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.022**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**90**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18C1r

1404876-05 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Total Metals by EPA 6000/7000 Series Methods									
Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18B1r

1404876-06 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.66**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.93**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**640**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**1.0**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**23**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**100**	4.0	mg/L	10	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**22**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**46**	4.0	"	10	"	"	24-Oct-14	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.098**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	**0.17**	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.017**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.065**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**68**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18B1r

1404876-06 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Total Metals by EPA 6000/7000 Series Methods									
Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

13H

1404876-07 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Wet Chemistry by EPA or APHA Standard Methods

pH @ 25 C	**6.88**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.43**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**200**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.95**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**4.6**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	

Anions by EPA Method 300.0

Chloride	**26**	0.40	mg/L	1	B4J0712	23-Oct-14	23-Oct-14	EPA 300.0	
Nitrate as N	**3.7**	0.40	"	"	"	"	"	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**17**	0.40	"	"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	**0.035**	0.020	"	"	"	"	"	"	
Barium	**0.17**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	ND	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	**0.17**	0.010	"	"	"	"	"	"	
Cobalt	**0.026**	0.010	"	"	"	"	"	"	
Copper	**0.025**	0.020	"	"	"	"	"	"	
Lead	**0.033**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.19**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**22**	1.0	"	"	"	"	"	"	
Thallium	**0.022**	0.020	"	"	"	"	"	"	
Vanadium	**0.12**	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

13H

1404876-07 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	**0.066**	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

13G

1404876-08 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.67**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.40**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**580**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.80**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**13**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**160**	8.0	mg/L	20	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**12**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**21**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.052**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	ND	0.10	"	"	"	"	"	"	
Cadmium	**0.085**	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.018**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.016**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**74**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

13G

1404876-08 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

7N1

1404876-10 (Ground Water)

Oilfield Environmental and Compliance

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**7.59**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.36**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**320**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.65**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**6.6**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**71**	8.0	mg/L	20	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**6.0**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**15**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.064**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	ND	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	**0.013**	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.015**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	ND	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**33**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

7N1

1404876-10 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

13Q1r

1404876-11 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.59**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.34**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**22**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**670**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.60**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**29**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**150**	4.0	mg/L	10	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**29**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**24**	4.0	"	10	"	"	24-Oct-14	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.067**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	**0.12**	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	**0.018**	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.020**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.028**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**90**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

13Q1r

1404876-11 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

17E9

1404876-12 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**9.63**	0.10	pH Units	1	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.37**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J0931	29-Oct-14	30-Oct-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4J0732	23-Oct-14	23-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**280**	10	mg/L	"	B4J0710	23-Oct-14	23-Oct-14	2540C	
Total Kjeldahl Nitrogen	**0.62**	0.25	"	"	B4J0864	28-Oct-14	29-Oct-14	SM4500 NH3D	
Total Nitrogen	**14**	1.0	"	"	B4J0932	29-Oct-14	29-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**52**	4.0	mg/L	10	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**13**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**23**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.35**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	ND	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.023**	0.010	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.018**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**47**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

17E9

1404876-12 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18J6r

1404876-13 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.80**	0.10	pH Units	1	B4J0768	24-Oct-14	24-Oct-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**2.3**	0.10	mg/L	"	B4J0764	24-Oct-14	24-Oct-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4J1027	31-Oct-14	31-Oct-14	Calculation	
Sample Temperature During pH Analysis	**21**	1.0	°C	"	B4J0768	24-Oct-14	24-Oct-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**350**	10	mg/L	"	B4J0751	25-Oct-14	25-Oct-14	2540C	
Total Kjeldahl Nitrogen	**2.8**	0.25	"	"	B4J0941	30-Oct-14	31-Oct-14	SM4500 NH3D	
Total Nitrogen	**12**	1.0	"	"	B4J1028	31-Oct-14	31-Oct-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**46**	4.0	mg/L	10	B4J0712	23-Oct-14	24-Oct-14	EPA 300.0	
Nitrate as N	**9.3**	0.40	"	1	"	"	23-Oct-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**25**	0.40	"	"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods									
Antimony	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
Barium	**0.056**	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
Boron	**0.13**	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	**0.010**	0.010	"	"	"	"	"	"	
Mercury	**0.00020**	0.00020	"	"	B4J0882	28-Oct-14	28-Oct-14	EPA 7470A	
Molybdenum	ND	0.0050	"	"	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	
Nickel	**0.018**	0.0050	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
Sodium	**52**	1.0	"	"	"	"	"	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

18J6r

1404876-13 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Total Metals by EPA 6000/7000 Series Methods

Zinc	ND	0.050	mg/L	1	B4J0831	27-Oct-14	27-Oct-14	EPA 6010B	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0732 - EPA 9040B pH Prep										
LCS (B4J0732-BS1)				Prepared & Analyzed: 23-Oct-14						
pH @ 25 C	4.02	0.10	pH Units	4.00		100	90-110			
LCS (B4J0732-BS2)				Prepared & Analyzed: 23-Oct-14						
pH @ 25 C	7.08	0.10	pH Units	7.00		101	90-110			
LCS (B4J0732-BS3)				Prepared & Analyzed: 23-Oct-14						
pH @ 25 C	10.08	0.10	pH Units	10.0		101	90-110			
Duplicate (B4J0732-DUP1)		**Source: 1404876-01**		Prepared & Analyzed: 23-Oct-14						
Sample Temperature During pH Analysis	20.4	1.0	°C		20.3			0.491	10	
pH @ 25 C	7.24	0.10	pH Units		7.25			0.138	10	
Duplicate (B4J0732-DUP2)		**Source: 1404886-01**		Prepared & Analyzed: 23-Oct-14						
Sample Temperature During pH Analysis	20.2	1.0	°C		20.4			0.985	10	
pH @ 25 C	7.41	0.10	pH Units		7.41			0.00	10	
Batch B4J0751 - 2540 C TDS Prep										
Blank (B4J0751-BLK1)				Prepared & Analyzed: 25-Oct-14						
Total Dissolved Solids	ND	10	mg/L							
LCS (B4J0751-BS1)				Prepared & Analyzed: 25-Oct-14						
Total Dissolved Solids	1200	10	mg/L	1000		116	75-125			
LCS Dup (B4J0751-BSD1)				Prepared & Analyzed: 25-Oct-14						
Total Dissolved Solids	1200	10	mg/L	1000		120	75-125	3.05	10	

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0751 - 2540 C TDS Prep										
Duplicate (B4J0751-DUP1)		**Source: 1404868-03**		Prepared & Analyzed: 25-Oct-14						
Total Dissolved Solids	1100	10	mg/L		1100			0.354	10	
Duplicate (B4J0751-DUP2)		**Source: 1404868-04**		Prepared & Analyzed: 25-Oct-14						
Total Dissolved Solids	1300	10	mg/L		1200			6.49	10	
Batch B4J0764 - Wetchem default method										
Blank (B4J0764-BLK1)				Prepared & Analyzed: 24-Oct-14						
Ammonia as N	ND	0.10	mg/L							
LCS (B4J0764-BS1)				Prepared & Analyzed: 24-Oct-14						
Ammonia as N	39.1	0.10	mg/L	40.0		97.8	80-120			
LCS (B4J0764-BS2)				Prepared & Analyzed: 24-Oct-14						
Ammonia as N	39.7	0.10	mg/L	40.0		99.3	80-120			
LCS Dup (B4J0764-BSD1)				Prepared & Analyzed: 24-Oct-14						
Ammonia as N	41.6	0.10	mg/L	40.0		104	80-120	6.20	20	
Duplicate (B4J0764-DUP1)		**Source: 1404876-01**		Prepared & Analyzed: 24-Oct-14						
Ammonia as N	0.270	0.10	mg/L		0.250			7.69	20	
Matrix Spike (B4J0764-MS1)		**Source: 1404876-01**		Prepared & Analyzed: 24-Oct-14						
Ammonia as N	41.0	0.10	mg/L	40.0	0.250	102	80-120			
Matrix Spike Dup (B4J0764-MSD1)		**Source: 1404876-01**		Prepared & Analyzed: 24-Oct-14						
Ammonia as N	39.0	0.10	mg/L	40.0	0.250	96.8	80-120	5.03	20	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
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Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0768 - EPA 9040B pH Prep										
LCS (B4J0768-BS1)				Prepared & Analyzed: 24-Oct-14						
pH @ 25 C	4.01	0.10	pH Units	4.00		100	90-110			
LCS (B4J0768-BS2)				Prepared & Analyzed: 24-Oct-14						
pH @ 25 C	7.01	0.10	pH Units	7.00		100	90-110			
LCS (B4J0768-BS3)				Prepared & Analyzed: 24-Oct-14						
pH @ 25 C	10.09	0.10	pH Units	10.0		101	90-110			
Duplicate (B4J0768-DUP1)		**Source: 1404876-13**		Prepared & Analyzed: 24-Oct-14						
Sample Temperature During pH Analysis	20.8	1.0	°C		20.8			0.00	10	
pH @ 25 C	6.87	0.10	pH Units		6.80			1.02	10	
Batch B4J0864 - Wetchem default method										
Blank (B4J0864-BLK1)				Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	ND	0.25	mg/L							
LCS (B4J0864-BS1)				Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	23.1		mg/L	20.0		116	80-120			
LCS (B4J0864-BS2)				Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	20.6		mg/L	20.0		103	80-120			
LCS Dup (B4J0864-BSD1)				Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	23.6		mg/L	20.0		118	80-120	1.93	20	
Duplicate (B4J0864-DUP1)		**Source: 1404876-01**		Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	0.975	0.25	mg/L		1.02			5.00	20	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0864 - Wetchem default method										
Matrix Spike (B4J0864-MS1)		**Source: 1404876-01**		Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	23.8		mg/L	20.0	0.410	117	80-120			
Matrix Spike Dup (B4J0864-MSD1)		**Source: 1404876-01**		Prepared: 28-Oct-14 Analyzed: 29-Oct-14						
Total Kjeldahl Nitrogen	24.4		mg/L	20.0	0.410	120	80-120	2.33	20	
Batch B4J0931 - NONE										
Blank (B4J0931-BLK1)				Prepared: 29-Oct-14 Analyzed: 30-Oct-14						
Organic Nitrogen	ND	1.0	mg/L							
Batch B4J0932 - NONE										
Blank (B4J0932-BLK1)				Prepared & Analyzed: 29-Oct-14						
Total Nitrogen	ND	1.0	mg/L							
Batch B4J0941 - Wetchem default method										
Blank (B4J0941-BLK1)				Prepared: 30-Oct-14 Analyzed: 31-Oct-14						
Total Kjeldahl Nitrogen	ND	0.25	mg/L							
LCS (B4J0941-BS1)				Prepared: 30-Oct-14 Analyzed: 31-Oct-14						
Total Kjeldahl Nitrogen	87.9	0.25	mg/L	100		87.9	80-120			
LCS Dup (B4J0941-BSD1)				Prepared: 30-Oct-14 Analyzed: 31-Oct-14						
Total Kjeldahl Nitrogen	81.1	0.25	mg/L	100		81.1	80-120	8.04	20	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0941 - Wetchem default method										
Duplicate (B4J0941-DUP1)		**Source: 1404876-13**		Prepared: 30-Oct-14 Analyzed: 31-Oct-14						
Total Kjeldahl Nitrogen	2.70	0.25	mg/L		2.78			2.74	20	
Matrix Spike (B4J0941-MS1)		**Source: 1404876-13**		Prepared: 30-Oct-14 Analyzed: 31-Oct-14						
Total Kjeldahl Nitrogen	83.0	0.25	mg/L	100	2.78	80.3	80-120			
Matrix Spike Dup (B4J0941-MSD1)		**Source: 1404876-13**		Prepared: 30-Oct-14 Analyzed: 31-Oct-14						
Total Kjeldahl Nitrogen	85.6	0.25	mg/L	100	2.78	82.8	80-120	2.97	20	
Batch B4J1027 - NONE										
Blank (B4J1027-BLK1)				Prepared & Analyzed: 31-Oct-14						
Organic Nitrogen	ND	1.0	mg/L							
Batch B4J1028 - NONE										
Blank (B4J1028-BLK1)				Prepared & Analyzed: 31-Oct-14						
Total Nitrogen	ND	1.0	mg/L							

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Anions by EPA Method 300.0 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0712 - EPA 300.0/300.1 Anions Prep										
Blank (B4J0712-BLK1)				Prepared & Analyzed: 23-Oct-14						
Chloride	ND	0.40	mg/L							
Nitrate as N	ND	0.40	"							
Nitrite as N	ND	0.40	"							
Sulfate	ND	0.40	"							
LCS (B4J0712-BS1)				Prepared & Analyzed: 23-Oct-14						
Chloride	4.52	0.40	mg/L	5.00		90.3	90-110			
Nitrate as N	4.53	0.40	"	5.00		90.6	90-110			
Nitrite as N	4.79	0.40	"	5.00		95.8	90-110			
Sulfate	4.77	0.40	"	5.00		95.4	90-110			
LCS Dup (B4J0712-BSD1)				Prepared & Analyzed: 23-Oct-14						
Chloride	4.61	0.40	mg/L	5.00		92.1	90-110	1.99	20	
Nitrate as N	4.53	0.40	"	5.00		90.6	90-110	0.0442	20	
Nitrite as N	4.86	0.40	"	5.00		97.2	90-110	1.43	20	
Sulfate	4.64	0.40	"	5.00		92.8	90-110	2.74	20	
Duplicate (B4J0712-DUP1)		**Source: 1404876-06**		Prepared & Analyzed: 23-Oct-14						
Nitrate as N	22.0	0.40	mg/L		22.4			1.58	20	
Nitrite as N	ND	0.40	"		ND				20	
Duplicate (B4J0712-DUP2)		**Source: 1404876-06RE1**		Prepared: 23-Oct-14 Analyzed: 24-Oct-14						
Chloride	109	4.0	mg/L		104			4.22	20	
Sulfate	46.5	4.0	"		46.4			0.280	20	
Matrix Spike (B4J0712-MS1)		**Source: 1404876-06**		Prepared & Analyzed: 23-Oct-14						
Nitrate as N	26.2	0.40	mg/L	5.00	22.4	77.5	80-120			QM-05
Nitrite as N	4.65	0.40	"	5.00	ND	93.0	80-120			

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Anions by EPA Method 300.0 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0712 - EPA 300.0/300.1 Anions Prep										
Matrix Spike (B4J0712-MS2)		**Source: 1404876-06RE1**		Prepared: 23-Oct-14 Analyzed: 24-Oct-14						
Chloride	151	4.0	mg/L	50.0	104	93.7	80-120			
Sulfate	95.9	4.0	"	50.0	46.4	99.1	80-120			
Matrix Spike (B4J0712-MS3)		**Source: 1404876-12**		Prepared & Analyzed: 23-Oct-14						
Nitrate as N	17.9	0.40	mg/L	5.00	13.0	98.2	80-120			
Nitrite as N	4.79	0.40	"	5.00	0.138	93.0	80-120			
Sulfate	27.3	0.40	"	5.00	22.6	93.9	80-120			
Matrix Spike (B4J0712-MS4)		**Source: 1404876-12RE1**		Prepared: 23-Oct-14 Analyzed: 24-Oct-14						
Chloride	101	4.0	mg/L	50.0	51.7	97.6	80-120			

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0831 - EPA 3010A										
Blank (B4J0831-BLK1)				Prepared & Analyzed: 27-Oct-14						
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.020	"							
Barium	ND	0.020	"							
Beryllium	ND	0.010	"							
Boron	ND	0.10	"							
Cadmium	ND	0.0050	"							
Chromium	ND	0.010	"							
Cobalt	ND	0.010	"							
Copper	ND	0.020	"							
Lead	ND	0.010	"							
Molybdenum	ND	0.0050	"							
Nickel	ND	0.0050	"							
Selenium	ND	0.050	"							
Silver	ND	0.010	"							
Sodium	ND	1.0	"							
Thallium	ND	0.020	"							
Vanadium	ND	0.050	"							
Zinc	ND	0.050	"							
LCS (B4J0831-BS1)				Prepared & Analyzed: 27-Oct-14						
Antimony	2.08	0.050	mg/L	2.00		104	80-120			
Arsenic	2.06	0.020	"	2.00		103	80-120			
Barium	2.12	0.020	"	2.00		106	80-120			
Beryllium	2.04	0.010	"	2.00		102	80-120			
Boron	2.12	0.10	"	2.00		106	80-120			
Cadmium	2.16	0.0050	"	2.00		108	80-120			
Chromium	2.22	0.010	"	2.00		111	80-120			
Cobalt	2.19	0.010	"	2.00		109	80-120			
Copper	2.31	0.020	"	2.00		115	80-120			
Lead	2.20	0.010	"	2.00		110	80-120			
Molybdenum	2.17	0.0050	"	2.00		109	80-120			
Nickel	2.19	0.0050	"	2.00		110	80-120			
Selenium	2.10	0.050	"	2.00		105	80-120			
Silver	0.102	0.010	"	0.100		102	80-120			
Sodium	11.4	1.0	"	10.0		114	80-120			
Thallium	2.20	0.020	"	2.00		110	80-120			
Vanadium	2.19	0.050	"	2.00		110	80-120			
Zinc	2.16	0.050	"	2.00		108	80-120			

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0831 - EPA 3010A										
LCS Dup (B4J0831-BSD1)				Prepared & Analyzed: 27-Oct-14						
Antimony	2.05	0.050	mg/L	2.00		102	80-120	1.60	20	
Arsenic	2.02	0.020	"	2.00		101	80-120	2.10	20	
Barium	2.07	0.020	"	2.00		104	80-120	2.39	20	
Beryllium	2.00	0.010	"	2.00		100	80-120	1.83	20	
Boron	2.11	0.10	"	2.00		106	80-120	0.425	20	
Cadmium	2.13	0.0050	"	2.00		106	80-120	1.54	20	
Chromium	2.21	0.010	"	2.00		111	80-120	0.451	20	
Cobalt	2.15	0.010	"	2.00		108	80-120	1.66	20	
Copper	2.29	0.020	"	2.00		115	80-120	0.609	20	
Lead	2.16	0.010	"	2.00		108	80-120	1.84	20	
Molybdenum	2.14	0.0050	"	2.00		107	80-120	1.48	20	
Nickel	2.15	0.0050	"	2.00		108	80-120	1.70	20	
Selenium	2.08	0.050	"	2.00		104	80-120	1.05	20	
Silver	0.101	0.010	"	0.100		101	80-120	0.983	20	
Sodium	11.2	1.0	"	10.0		112	80-120	1.68	20	
Thallium	2.17	0.020	"	2.00		108	80-120	1.42	20	
Vanadium	2.16	0.050	"	2.00		108	80-120	1.70	20	
Zinc	2.12	0.050	"	2.00		106	80-120	1.64	20	
Duplicate (B4J0831-DUP1)		**Source: 1404876-01**		Prepared & Analyzed: 27-Oct-14						
Antimony	ND	0.050	mg/L		ND				20	
Arsenic	ND	0.020	"		ND				20	
Barium	0.0382	0.020	"		0.0405			5.84	20	
Beryllium	ND	0.010	"		ND				20	
Boron	0.0751	0.10	"		0.0774			3.02	20	
Cadmium	ND	0.0050	"		ND				20	
Chromium	0.00590	0.010	"		ND				20	
Cobalt	ND	0.010	"		ND				20	
Copper	ND	0.020	"		ND				20	
Lead	0.00910	0.010	"		0.00870			4.49	20	
Molybdenum	ND	0.0050	"		ND				20	
Nickel	0.00770	0.0050	"		0.00750			2.63	20	
Selenium	ND	0.050	"		ND				20	
Silver	ND	0.010	"		ND				20	
Sodium	59.8	1.0	"		60.6			1.35	20	
Thallium	ND	0.020	"		ND				20	
Vanadium	ND	0.050	"		ND				20	
Zinc	ND	0.050	"		ND				20	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0831 - EPA 3010A										
Matrix Spike (B4J0831-MS1)		**Source: 1404876-01**		Prepared & Analyzed: 27-Oct-14						
Antimony	2.03	0.050	mg/L	2.00	ND	101	79-125			
Arsenic	2.06	0.020	"	2.00	ND	103	84-130			
Barium	2.08	0.020	"	2.00	0.0405	102	66-142			
Beryllium	2.01	0.010	"	2.00	ND	101	82-120			
Boron	2.25	0.10	"	2.00	0.0774	109	72-132			
Cadmium	2.10	0.0050	"	2.00	ND	105	49-153			
Chromium	2.22	0.010	"	2.00	ND	111	82-124			
Cobalt	2.08	0.010	"	2.00	ND	104	84-121			
Copper	2.23	0.020	"	2.00	ND	111	81-127			
Lead	2.10	0.010	"	2.00	0.00870	105	53-147			
Molybdenum	2.15	0.0050	"	2.00	ND	108	86-120			
Nickel	2.10	0.0050	"	2.00	0.00750	105	85-122			
Selenium	2.10	0.050	"	2.00	ND	105	67-136			
Silver	0.0960	0.010	"	0.100	ND	96.0	72-139			
Sodium	68.2	1.0	"	10.0	60.6	76.1	75-125			
Thallium	2.05	0.020	"	2.00	ND	103	72-125			
Vanadium	2.18	0.050	"	2.00	ND	109	85-125			
Zinc	2.12	0.050	"	2.00	ND	106	75-138			
Batch B4J0882 - EPA 7470A Prep										
Blank (B4J0882-BLK1)				Prepared & Analyzed: 28-Oct-14						
Mercury	ND	0.00020	mg/L							
LCS (B4J0882-BS1)				Prepared & Analyzed: 28-Oct-14						
Mercury	0.00995	0.00020	mg/L	0.0100		99.5	85-115			

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	31-Oct-14 16:12

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J0882 - EPA 7470A Prep										
LCS Dup (B4J0882-BSD1)				Prepared & Analyzed: 28-Oct-14						
Mercury	0.00969	0.00020	mg/L	0.0100		96.9	85-115	2.67	20	
Duplicate (B4J0882-DUP1)		**Source: 1404867-01**		Prepared & Analyzed: 28-Oct-14						
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4J0882-MS1)		**Source: 1404867-01**		Prepared & Analyzed: 28-Oct-14						
Mercury	0.0101	0.00020	mg/L	0.0100	ND	101	75-125			
Matrix Spike Dup (B4J0882-MSD1)		**Source: 1404867-01**		Prepared & Analyzed: 28-Oct-14						
Mercury	0.00993	0.00020	mg/L	0.0100	ND	99.3	75-125	1.32	20	
Post Spike (B4J0882-PS1)		**Source: 1404867-01**		Prepared & Analyzed: 28-Oct-14						
Mercury	4.65		ug/L	5.00	-0.00540	93.1	85-115			

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
HT-pH	Water pH should be analyzed within 15 minutes of sampling. Soil pH should be analyzed as soon as possible.
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

Oilfield Environmental and Compliance

307 Roemer Way, Santa Maria CA 93454
phone: (805) 922-4772 fax: (805) 925-3376
www.oecusa.com
101 Adkisson Way, Taft, CA 93268
phone: (661) 762-9143

Rev 062012

CHAIN OF CUSTODY

Company: RINCON CONSULTANTS
Address: 180 N. ASHWOOD AVE.
City/State/ZIP: VENTURA CA 93003
Phone: 805 644-4455 Fax: E-mail: tdelaney@rinconconsultants.com
Report To: T. DELANEY Sampler: T. Delaney
Send report via- FAX- ☐ PDF- ☒ Geotracker EDF- ☐ EDD- ☐
Turnaround Time: 10 Days- ☐ 5 Days- ☒ 72 hr- ☐ 48 hr- ☐ 24 hr- ☐ ASAP- ☐

Project Name/#: LOS OSOS Baseline 13-01481
Site:

OEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID	Metals Total	B, Na, SO_4	TDS, pH	TKN, Total N	Nitrogen, NO_3-N	NO_3-N, Cl	NH_3-N				Special Instructions:
1404876-1A-C	10/21/14 1345	GW	3	17D	X	X	X	X	X	X	X				
2A-C	1530			17F4	X	X	X	X	X	X	X				
3A-C	1515			18R1	X	X	X	X	X	X	X				
4A-C				24A	X	X	X	X	X	X	X				
5A-C	1540			18C1r	X	X	X	X	X	X	X				
6A-C	1455			18B1r	X	X	X	X	X	X	X				
7A-C	1315			13H	X	X	X	X	X	X	X				
8A-C	1155			13G	X	X	X	X	X	X	X				
9A-C				8Ma	X	X	X	X	X	X	X				
10A-C	10/22/14 1000			7N1	X	X	X	X	X	X	X				
11A-C	1310			13Q1r	X	X	X	X	X	X	X				
12A-C				17E9	X	X	X	X	X	X	X				

Relinquished By:	Date: 10/22/14	Time: 1547	
Received By:	Date: 10.22.14	Time: 1547	
Relinquished By:	Date: 10.22.14	Time: 1643	
Received By:	Date: 10/22/14	Time: 1643	
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	

** Matrix Key
A = vapor / air
S = solid / sediment
P = product / oil
HW = haz waste (Liq.)

WATER Types:
DW = drinking
GW = ground
PW = produced
SW = surface
WW = waste

Comments/PO#:

Oilfield Environmental and Compliance

307 Roemer Way, Santa Maria CA 93454
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phone: (661) 762-9143

Rev 062012

CHAIN OF CUSTODY

Page _____ of _____

Company:

Address: SEE PG-1

City/State/ZIP:

Phone: Fax: E-mail:

Report To: Sampler:

Send report via- FAX- ☐ PDF- ☐ Geotracker EDF- ☐ EDD- ☐

Turnaround Time: 10 Days- ☐ 5 Days- ☐ 72 hr- ☐ 48 hr- ☐ 24 hr- ☐ ASAP- ☐

Project Name/#:

Site:

Analysis Requested: SEE PG-1

Special Instructions:

OEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID
	10/22/14 @ 1125	W	3	18 J6r

Relinquished By: Date: Time:

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: Time:

** Matrix Key
A = vapor / air
S = solid / sediment
P = product / oil
HW = haz waste (Liq.)

WATER Types:
DW = drinking
GW = ground
PW = produced
SW = surface
WW = waste

Comments/PO#:

OEC SAMPLE RECEIPT

Rev. 01/15/10

CLIENT: Rincon **OEC ID #:** 1404876 **Temp:** 3.6 °C
Acceptable Range: 0°C to 6°C

COC RECEIVED DATE/TIME: 10/22/14 @ 1643 **RECEIPT LOGIN DATE/TIME:** 10/22/14 @ 1757 **REFRIGERATOR(s):** 8

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:		Yes	No	N/A	(*) PROBLEM CHAIN FORM NEEDED	
☒ OEC Courier/Sampler	COC document(s) received with samples	☒	☐*	☐	Custody Seals (circle):	Present / Absent
☐ Delivery(Other than OEC Courier)	Correct containers for analysis requested	☒	☐*	☐		Samples / Coolers
☒ Samples Received on Ice	Container(s) intact and in good condition	☒	☐*	☐		Intact / Broken*
☐ Samples Received Outside Temp. Range*	Container label(s) consistent with COC	☐	☒*	☐	Method of Shipment & Tracking #(if applicable):	
☐ Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	☐**	☒	☐		
☐ After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	☒	☐	☐	(**) OEC Preservative ID:	
(Initials/Date/Time):	VOA containers free of headspace	☐	☐*	☒	Dissolved Metals Filtration: (Date/Init/Preserve ID)	
	Tedlar Bags free of condensation	☐	☐*	☒		

CONTAINERS, COC CHANGES AND/OR CORRECTIONS **CHANGES AUTHORIZED BY:**

OEC ID	Client ID ***If blank, refer to CoC	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled ***	Comments / Remarks / Condition Notes, Etc.
1-3,5-8 A		1-1L POLY EA	—		W		
10-12 A		↓	—		↓		
1-3,5-8 B		1-1L POLY EA	H_2SO_4	<2	↓		
10-12 B		↓	↓	<2	↓		
1-3,5-8 C		1-250 mL POLY EA	HNO_3	<2	↓		
10-12 C		↓	↓	<2	↓		
13A		1-1L POLY	—		↓		EXTRA SAMPLE NOT
13B		↓	H_2SO_4	<2	↓		ON COC
13C		1-250 mL POLY	HNO_3	<2	✓		

RECEIPT LOGIN BY: EM **RECEIPT REVIEWED BY:** [illegible]

OEC PROBLEM CHAIN

CLIENT: RINCON **OEC ID #:** 1404876

ISSUES RECORDED BY (DATE/TIME/INITIALS): 10/22/14 @ 1757 ELH

ISSUE(S): PLEASE PROVIDE DETAILS OF ISSUE(S) BELOW – Samples/Containers Affected, as necessary.

- ☐ Samples Received Outside Temp. Range (see below)
- ☐ **NO** COC document(s) received with samples
- ☐ Container(s) **NOT** intact or in good condition
- ☐ Incorrect containers for analysis requested
- (2) ☒ Container label(s) **NOT** consistent with COC
- ☐ Custody Seals Broken
- (1) ☒ OTHER: (if multiple, identify with numbers)

(1) A) DID NOT RECEIVE CONTAINERS FOR SAMPLES "24A" (4), "8Ma" (9).

B) RECEIVED SAMPLE CONTAINERS LABELED "18 J6r"

(2) SAMPLE TIMES NOT ON COC, BUT ARE ON SAMPLE CONTAINERS.

RESOLUTIONS: MINIMUM INFO: Issue#[if necessary] – Description – Contact Type (Verbal, email, etc.) – Client Authorization Contact – Date/Time/Initials

(2) WROTE SAMPLE TIMES ON COC FROM CONTAINERS. 10/22/14 @ 1805 ELH

(1) B) ADDED EXTRA SAMPLE TO END OF CHAIN & LABELED CONTAINERS 13 A-C UNTIL FURTHER NOTICE. 10/22/14 @ 1806 ELH

FINAL RESOLUTION OF ISSUES BY (DATE/TIME/INITIALS):

09/09/08

Oilfield Environmental and Compliance, INC.

Tim Delaney
Rincon Consultants
180 N. Ashwood Ave.
Ventura, CA 93003

09 December 2014

RE: SLO County - Los Osos GWM Work Order: 1405485

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 04-Dec-14 16:40 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. 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,

Ankita

Ankita Kashyap

Project Manager

TEL: (805) 922-4772
307 Roemer Way, Suite 300, Santa Maria, CA 93454 **www.oecusa.com** FAX: (805) 925-3376

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
18El	1405485-01	Ground Water	04-Dec-14 11:30	04-Dec-14 16:40
7Ql	1405485-02	Ground Water	04-Dec-14 14:30	04-Dec-14 16:40
18Nlr	1405485-03	Ground Water	04-Dec-14 15:25	04-Dec-14 16:40
Dup1	1405485-04	Ground Water	04-Dec-14 15:25	04-Dec-14 16:40

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

18El

1405485-01 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.67**	0.10	pH Units	1	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.62**	0.10	mg/L	"	B4L0266	08-Dec-14	08-Dec-14	SM4500 NH3D	
Organic Nitrogen	**1.2**	1.0	"	"	B4L0239	08-Dec-14	08-Dec-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**250**	10	mg/L	"	B4L0185	05-Dec-14	05-Dec-14	2540C	
Total Kjeldahl Nitrogen	**1.8**	0.25	"	"	B4L0198	05-Dec-14	06-Dec-14	SM4500 NH3D	
Total Nitrogen	**10**	1.0	"	"	B4L0245	08-Dec-14	08-Dec-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**53**	4.0	mg/L	10	B4L0190	05-Dec-14	05-Dec-14	EPA 300.0	
Nitrate as N	**8.3**	0.40	"	1	"	"	05-Dec-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**21**	0.40	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

7Ql

1405485-02 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.75**	0.10	pH Units	1	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**1.0**	0.10	mg/L	"	B4L0206	05-Dec-14	05-Dec-14	SM4500 NH3D	
Organic Nitrogen	**5.3**	1.0	"	"	B4L0239	08-Dec-14	08-Dec-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**550**	10	mg/L	"	B4L0185	05-Dec-14	05-Dec-14	2540C	
Total Kjeldahl Nitrogen	**6.3**	0.25	"	"	B4L0198	05-Dec-14	06-Dec-14	SM4500 NH3D	
Total Nitrogen	**31**	1.0	"	"	B4L0245	08-Dec-14	08-Dec-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**140**	4.0	mg/L	10	B4L0190	05-Dec-14	05-Dec-14	EPA 300.0	
Nitrate as N	**25**	0.40	"	1	"	"	05-Dec-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**47**	4.0	"	10	"	"	05-Dec-14	"	

Oilfield Environmental and Compliance, INC.

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180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

18Nlr

1405485-03 (Ground Water)

Oilfield Environmental and Compliance

Wet Chemistry by EPA or APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH @ 25 C	**6.84**	0.10	pH Units	1	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.82**	0.10	mg/L	"	B4L0206	05-Dec-14	05-Dec-14	SM4500 NH3D	
Organic Nitrogen	**4.2**	1.0	"	"	B4L0239	08-Dec-14	08-Dec-14	Calculation	
Sample Temperature During pH Analysis	**20**	1.0	°C	"	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**420**	10	mg/L	"	B4L0185	05-Dec-14	05-Dec-14	2540C	
Total Kjeldahl Nitrogen	**5.0**	0.25	"	"	B4L0198	05-Dec-14	06-Dec-14	SM4500 NH3D	
Total Nitrogen	**28**	1.0	"	"	B4L0245	08-Dec-14	08-Dec-14	Calculation	

Anions by EPA Method 300.0

Chloride	**81**	4.0	mg/L	10	B4L0190	05-Dec-14	05-Dec-14	EPA 300.0	
Nitrate as N	**23**	0.40	"	1	"	"	05-Dec-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**41**	4.0	"	10	"	"	05-Dec-14	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

Dup1

1405485-04 (Ground Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Wet Chemistry by EPA or APHA Standard Methods									
pH @ 25 C	**6.65**	0.10	pH Units	1	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	HT-pH
Ammonia as N	**0.84**	0.10	mg/L	"	B4L0206	05-Dec-14	05-Dec-14	SM4500 NH3D	
Organic Nitrogen	ND	1.0	"	"	B4L0314	09-Dec-14	09-Dec-14	Calculation	
Sample Temperature During pH Analysis	**19**	1.0	°C	"	B4L0177	04-Dec-14	04-Dec-14	EPA 9040B/SM4500H+ B	
Total Dissolved Solids	**240**	10	mg/L	"	B4L0185	05-Dec-14	05-Dec-14	2540C	
Total Kjeldahl Nitrogen	**1.3**	0.25	"	"	B4L0286	09-Dec-14	09-Dec-14	SM4500 NH3D	
Total Nitrogen	**9.9**	1.0	"	"	B4L0316	09-Dec-14	09-Dec-14	Calculation	
Anions by EPA Method 300.0									
Chloride	**54**	4.0	mg/L	10	B4L0190	05-Dec-14	05-Dec-14	EPA 300.0	
Nitrate as N	**8.5**	0.40	"	1	"	"	05-Dec-14	"	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
Sulfate	**21**	0.40	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Rincon Consultants	Project: SLO County - Los Osos GWM	
180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0177 - EPA 9040B pH Prep										
LCS (B4L0177-BS1)				Prepared & Analyzed: 04-Dec-14						
pH @ 25 C	4.01	0.10	pH Units	4.00		100	90-110			
LCS (B4L0177-BS2)				Prepared & Analyzed: 04-Dec-14						
pH @ 25 C	7.06	0.10	pH Units	7.00		101	90-110			
LCS (B4L0177-BS3)				Prepared & Analyzed: 04-Dec-14						
pH @ 25 C	10.07	0.10	pH Units	10.0		101	90-110			
Duplicate (B4L0177-DUP1)		**Source: 1405413-01**		Prepared & Analyzed: 04-Dec-14						
Sample Temperature During pH Analysis	20.1	1.0	°C		20.1			0.00	10	
pH @ 25 C	7.27	0.10	pH Units		7.30			0.412	10	
Duplicate (B4L0177-DUP2)		**Source: 1405433-01**		Prepared & Analyzed: 04-Dec-14						
Sample Temperature During pH Analysis	20.4	1.0	°C		20.4			0.00	10	
pH @ 25 C	8.95	0.10	pH Units		8.97			0.223	10	
Batch B4L0185 - 2540 C TDS Prep										
Blank (B4L0185-BLK1)				Prepared & Analyzed: 05-Dec-14						
Total Dissolved Solids	ND	10	mg/L							
LCS (B4L0185-BS1)				Prepared & Analyzed: 05-Dec-14						
Total Dissolved Solids	1200	10	mg/L	1000		115	75-125			
LCS Dup (B4L0185-BSD1)				Prepared & Analyzed: 05-Dec-14						
Total Dissolved Solids	1100	10	mg/L	1000		114	75-125	1.57	10	

Oilfield Environmental and Compliance, INC.

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180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0185 - 2540 C TDS Prep										
Duplicate (B4L0185-DUP1)		**Source: 1405440-01**		Prepared & Analyzed: 05-Dec-14						
Total Dissolved Solids	37000	10	mg/L		37000			0.542	10	
Duplicate (B4L0185-DUP2)		**Source: 1405440-02**		Prepared & Analyzed: 05-Dec-14						
Total Dissolved Solids	37000	10	mg/L		36000			0.987	10	
Batch B4L0198 - Wetchem default method										
Blank (B4L0198-BLK1)				Prepared: 05-Dec-14 Analyzed: 06-Dec-14						
Total Kjeldahl Nitrogen	ND	0.25	mg/L							
LCS (B4L0198-BS1)				Prepared: 05-Dec-14 Analyzed: 06-Dec-14						
Total Kjeldahl Nitrogen	47.8		mg/L	50.0		95.7	80-120			
LCS Dup (B4L0198-BSD1)				Prepared: 05-Dec-14 Analyzed: 06-Dec-14						
Total Kjeldahl Nitrogen	49.5		mg/L	50.0		99.0	80-120	3.43	20	
Duplicate (B4L0198-DUP1)		**Source: 1405311-01**		Prepared: 05-Dec-14 Analyzed: 06-Dec-14						
Total Kjeldahl Nitrogen	49.1	0.25	mg/L		49.9			1.72	20	
Matrix Spike (B4L0198-MS1)		**Source: 1405311-01**		Prepared: 05-Dec-14 Analyzed: 06-Dec-14						
Total Kjeldahl Nitrogen	73.4		mg/L	50.0	20.0	107	80-120			
Matrix Spike Dup (B4L0198-MSD1)		**Source: 1405311-01**		Prepared: 05-Dec-14 Analyzed: 06-Dec-14						
Total Kjeldahl Nitrogen	78.4		mg/L	50.0	20.0	117	80-120	6.56	20	
Batch B4L0206 - Wetchem default method										
Blank (B4L0206-BLK1)				Prepared & Analyzed: 05-Dec-14						
Ammonia as N	ND	0.10	mg/L							

Oilfield Environmental and Compliance, INC.

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Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0206 - Wetchem default method										
LCS (B4L0206-BS1)				Prepared & Analyzed: 05-Dec-14						
Ammonia as N	21.0	0.10	mg/L	20.0		105	80-120			
LCS Dup (B4L0206-BSD1)				Prepared & Analyzed: 05-Dec-14						
Ammonia as N	20.3	0.10	mg/L	20.0		102	80-120	3.25	20	
Duplicate (B4L0206-DUP1)		**Source: 1405405-01**		Prepared & Analyzed: 05-Dec-14						
Ammonia as N	1.03	0.10	mg/L		1.05			1.92	20	
Matrix Spike (B4L0206-MS1)		**Source: 1405405-01**		Prepared & Analyzed: 05-Dec-14						
Ammonia as N	20.5	0.10	mg/L	20.0	1.05	97.2	80-120			
Matrix Spike Dup (B4L0206-MSD1)		**Source: 1405405-01**		Prepared & Analyzed: 05-Dec-14						
Ammonia as N	20.9	0.10	mg/L	20.0	1.05	99.2	80-120	1.98	20	
Batch B4L0239 - Wetchem default method										
Blank (B4L0239-BLK1)				Prepared & Analyzed: 08-Dec-14						
Organic Nitrogen	ND	1.0	mg/L							
Batch B4L0245 - Wetchem default method										
Blank (B4L0245-BLK1)				Prepared & Analyzed: 08-Dec-14						
Total Nitrogen	ND	1.0	mg/L							
Batch B4L0266 - Wetchem default method										
Blank (B4L0266-BLK1)				Prepared & Analyzed: 08-Dec-14						
Ammonia as N	ND	0.10	mg/L							

Oilfield Environmental and Compliance, INC.

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Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0266 - Wetchem default method										
LCS (B4L0266-BS1)				Prepared & Analyzed: 08-Dec-14						
Ammonia as N	19.6	0.10	mg/L	20.0		98.0	80-120			
LCS Dup (B4L0266-BSD1)				Prepared & Analyzed: 08-Dec-14						
Ammonia as N	20.5	0.10	mg/L	20.0		102	80-120	4.49	20	
Duplicate (B4L0266-DUP1)		**Source: 1405485-01RE1**		Prepared & Analyzed: 08-Dec-14						
Ammonia as N	0.600	0.10	mg/L		0.620			3.28	20	
Batch B4L0286 - Wetchem default method										
Blank (B4L0286-BLK1)				Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	ND	0.25	mg/L							
LCS (B4L0286-BS1)				Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	35.8		mg/L	40.0		89.5	80-120			
LCS Dup (B4L0286-BSD1)				Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	38.3		mg/L	40.0		95.7	80-120	6.70	20	
Duplicate (B4L0286-DUP1)		**Source: 1405430-01**		Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	3.00	0.25	mg/L		2.80			6.90	20	
Duplicate (B4L0286-DUP2)		**Source: 1405485-04RE1**		Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	1.30	0.25	mg/L		1.28			1.94	20	
Matrix Spike (B4L0286-MS1)		**Source: 1405430-01**		Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	34.9		mg/L	40.0	1.12	84.4	80-120			

Oilfield Environmental and Compliance, INC.

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180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0286 - Wetchem default method										
Matrix Spike Dup (B4L0286-MSD1)		**Source: 1405430-01**		Prepared & Analyzed: 09-Dec-14						
Total Kjeldahl Nitrogen	34.0		mg/L	40.0	1.12	82.1	80-120	2.64	20	
Batch B4L0314 - Wetchem default method										
Blank (B4L0314-BLK1)				Prepared & Analyzed: 09-Dec-14						
Organic Nitrogen	ND	1.0	mg/L							
Batch B4L0316 - Wetchem default method										
Blank (B4L0316-BLK1)				Prepared & Analyzed: 09-Dec-14						
Total Nitrogen	ND	1.0	mg/L							

Oilfield Environmental and Compliance, INC.

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Anions by EPA Method 300.0 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0190 - EPA 300.0/300.1 Anions Prep										
Blank (B4L0190-BLK1)				Prepared & Analyzed: 05-Dec-14						
Chloride	ND	0.40	mg/L							
Nitrate as N	ND	0.40	"							
Nitrite as N	ND	0.40	"							
Sulfate	ND	0.40	"							
LCS (B4L0190-BS1)				Prepared & Analyzed: 05-Dec-14						
Chloride	5.10	0.40	mg/L	5.00		102	90-110			
Nitrate as N	5.02	0.40	"	5.00		100	90-110			
Nitrite as N	5.24	0.40	"	5.00		105	90-110			
Sulfate	5.08	0.40	"	5.00		102	90-110			
LCS Dup (B4L0190-BSD1)				Prepared & Analyzed: 05-Dec-14						
Chloride	5.15	0.40	mg/L	5.00		103	90-110	0.897	20	
Nitrate as N	5.00	0.40	"	5.00		99.9	90-110	0.439	20	
Nitrite as N	5.26	0.40	"	5.00		105	90-110	0.438	20	
Sulfate	5.11	0.40	"	5.00		102	90-110	0.530	20	
Duplicate (B4L0190-DUP1)		**Source: 1405485-04**		Prepared & Analyzed: 05-Dec-14						
Nitrate as N	8.37	0.40	mg/L		8.50			1.61	20	
Nitrite as N	0.134	0.40	"		0.139			3.66	20	
Sulfate	20.5	0.40	"		20.6			0.282	20	
Duplicate (B4L0190-DUP2)		**Source: 1405485-04RE1**		Prepared & Analyzed: 05-Dec-14						
Chloride	54.0	4.0	mg/L		53.8			0.408	20	
Matrix Spike (B4L0190-MS1)		**Source: 1405485-04**		Prepared & Analyzed: 05-Dec-14						
Nitrate as N	14.1	0.40	mg/L	5.00	8.50	113	80-120			
Nitrite as N	5.42	0.40	"	5.00	0.139	106	80-120			
Sulfate	25.5	0.40	"	5.00	20.6	98.2	80-120			

Oilfield Environmental and Compliance, INC.

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180 N. Ashwood Ave.	Project Number: SLO County - Los Osos GWM	**Reported:**
Ventura CA, 93003	Project Manager: Tim Delaney	09-Dec-14 16:53

Anions by EPA Method 300.0 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0190 - EPA 300.0/300.1 Anions Prep										
Matrix Spike (B4L0190-MS2)				**Source: 1405485-04RE1**	Prepared & Analyzed: 05-Dec-14					
Chloride	103	4.0	mg/L	50.0	53.8	98.2	80-120			

Notes and Definitions

HT-pH	Water pH should be analyzed within 15 minutes of sampling. Soil pH should be analyzed as soon as possible.
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

Oilfield Environmental and Compliance

307 Roemer Way, Santa Maria CA 93454
phone: (805) 922-4772 fax: (805) 925-3376 www.oecusa.com

101 Adkisson Way, Taft, CA 93268
phone: (661) 762-9143

Rev 062012

CHAIN OF CUSTODY

Page 1 of 1

Company: Rincon Consultants
Address: 180 N. Ashwood Ave.
City/State/ZIP: Ventura CA 93003
Phone: 805-644-4455 Fax: E-mail: tdelaney@rinconconsultants.com
Report To: T. Delaney Sampler: R. Price
Send report via- FAX- ☐ PDF- ☒ Geotracker EDF- ☐ EDD- ☐
Turnaround Time: 10 Days- ☐ 5 Days- ☐ 72 hr- ☐ 48 hr- ☐ 24 hr- ☒ ASAP- ☒

Project Name/#: Los Osos Baseline 13-01481
Site:

OEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID	Ba	SO_4	TDS	pH	TKN Total N	N-organic	NO_2-N	NO_3-N	NH_3-N			Special Instructions:
1405485-1A-C	12/4/14 1130	GW	3	18E1	X	X	X	X	X	X	X	X				24hr TAT
2A-C	12/4/14 1430	GW	3	7Q1	↓	↓	↓	↓	↓	↓	↓	↓				" "
3A-C	12/4/14 1525	↓	↓	18N1r	↓	↓	↓	↓	↓	↓	↓	↓				" "
4A-C	12/4/14 —	↓	↓	Dup 1	↓	↓	↓	↓	↓	↓	↓	↓				" "

Relinquished By: [signature]	Date: 12/4/14	Time: 1640
Received By: [signature]	Date: 12/04/14	Time: 1640
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Relinquished By:	Date:	Time:
Received By:	Date:	Time:

**** Matrix Key**
A = vapor / air
S = solid / sediment
P = product / oil
HW = haz waste (Liq.)

WATER Types:
DW = drinking
GW = ground
PW = produced
SW = surface
WW = waste

Comments/PO#: See Ankita for billing. OEC covering.

Rec'd @ 5.5°C

OEC SAMPLE RECEIPT

Rev. 01/15/10

CLIENT: RINCON

OEC ID #: 1405485

Temp: 3 °C
Acceptable Range: 0°C to 6°C

COC RECEIVED DATE/TIME: 12-4-14 @ 1640

RECEIPT LOGIN DATE/TIME: 12-4-14 @ 1645

REFRIGERATOR(s): 6

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:

		Yes	No	N/A
☐ OEC Courier/Sampler	COC document(s) received with samples	☒	☐*	☐
☒ Delivery(Other than OEC Courier)	Correct containers for analysis requested	☒	☐*	☐
☒ Samples Received on Ice	Container(s) intact and in good condition	☒	☐*	☐
☐ Samples Received Outside Temp. Range*	Container label(s) consistent with COC	☒	☐*	☐
☐ Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	☐**	☒	☐
☐ After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	☒	☐	☐
(Initials/Date/Time):	VOA containers free of headspace	☐	☐*	☒
	Tedlar Bags free of condensation	☐	☐*	☒

(*) PROBLEM CHAIN FORM NEEDED

Custody Seals (circle): Present / ~~Absent~~

Samples / Coolers Intact / Broken*

Method of Shipment & Tracking #(if applicable):

(**) OEC Preservative ID:

Dissolved Metals Filtration: (Date/Init/Preserve ID)

CONTAINERS, COC CHANGES AND/OR CORRECTIONS

CHANGES AUTHORIZED BY:

OEC ID	Client ID ***If blank, refer to CoC	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled ***	Comments / Remarks / Condition Notes, Etc.
1-3 A		1-500ml Poly EA	H_2SO_4	<2	W		
1-3 B		↓	—	—	↓		
1-3 C		1-250ml poly EA	—	—	↓		

RECEIPT LOGIN BY: DC

RECEIPT REVIEWED BY: W

Eric Hadley

From: Ankita Kashyap [akashyap@oecusa.com]
Sent: Thursday, December 04, 2014 1:20 PM
To: ehadley@oecusa.com
Subject: Rincon samples log in

Hi Eric
When Rincon samples arrive, please log them in for TDS, pH, Sulfates, Total Nitrogen (NO3, NO2 & TKN) & Organic Nitrogen (NH3 & TKN).
And I will call the client and request them to drop off the samples by 05:00pm.
Thanks .

Have a nice day!

Ankita Kashyap | Project Manager
Oilfield Environmental and Compliance, Inc.
Main: 1-805-922-4772 Ext. 1115
Direct: 1-805-266-7297
E-mail: akashyap@oecusa.com

Send comments on our services to: Client-feedback@oecusa.com

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The client or recipient of any attached analytical report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Oilfield Environmental and Compliance is not responsible, legally or otherwise. The client or recipient agrees to indemnify Oilfield Environmental and Compliance for any defense to any litigation which arises.

Oilfield Environmental and Compliance

307 Roemer Way, Santa Maria CA 93454
phone: (805) 922-4772 fax: (805) 925-3376

www.oecusa.com

101 Adkisson Way, Taft, CA 93268
phone: (661) 762-9143

Rev 062012

CHAIN OF CUSTODY

Page 1 of 1

Company: Rincon Consultants
Address: 180 N. Ashwood Ave.
City/State/ZIP: Ventura CA 93003
Phone: 805-644-4455 Fax: E-mail: tdelaney@rinconconsultants.com
Report To: T. Delaney Sampler: R. Price
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3A-C	12/4/14 1525			18N1r													" "
4A-C	12/4/14 —			Dup 1													" "

Ba, N analysis removed as - AK 12/05/14

Relinquished By:	Date: 12/4/14	Time: 1640	
Received By:	Date: 12/04/14	Time: 1640	
Relinquished By:	Date:	Time:	
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