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

Prepared by:

Rincon Consultants, Inc.
June 27, 2014

Environmental Scientists Planners Engineers

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June 27, 2014
Project 13-01481

Raymond Dienzo, P.E.
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County of San Luis Obispo Public Works
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San Luis Obispo, California 92501-3348

Subject: May 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 May 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 Waste Discharge Requirements Order No. R3-2011-0001 and its Monitoring and Reporting Program.

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

Sincerely,
RINCON CONSULTANTS, INC.

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1.0 INTRODUCTION

This report presents the results of the May 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 (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 20 public agency wells and six private wells located within the upper aquifer system of the Los Osos Valley Groundwater Basin (Los Osos Basin). 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 and this fourth event in May 2014. The groundwater monitoring activities performed during May 2014 conform with WDR R3-2011-0001. During the May 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, and total nitrogen, total dissolved solids, sodium, chloride, sulfate, and boron from 24 groundwater monitoring wells located within Los Osos, California.

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 May 5 and 8, 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. In addition, Rincon was not given access by the property owner to well 18A and well 8Mb was not located due to nearby road construction.

The groundwater elevations onsite ranged from 3.22 feet above mean sea level (amsl) in groundwater monitoring well 13Q1r to 99.55 feet amsl in groundwater monitoring well 18J6r (Table 2 and Figure 3). Groundwater elevations have decreased by approximately 3.8 to 15 feet since April 2005. Groundwater elevations show a similar decrease from August 2012 to May 2014, except one well (18L3r) increased approximately 0.6 feet. When compared to the last sampling event, groundwater elevations are relatively consistent with fluctuations ranging from approximately -2.6 feet to +1. 6 feet, with the exception of 13Q1r which decreased approximately 12 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 0.009 feet/foot (calculated using groundwater monitoring wells 8N2r, 7L3r, and 18C1r) to 0.027 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 May 2014 groundwater monitoring event, samples were collected from 24 out of the 26 groundwater monitoring wells; two wells (18A and 8Mb) were inaccessible as described above. Prior to sampling, a minimum of three casing volumes were purged from each well by using a submersible pump or a disposable polyethylene bailer. Purging stopped when consecutive water quality measurements (total dissolved solids, 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 is shown 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 Fruit Growers Laboratory, Inc. (FGL). The containers were capped, labeled, placed in Ziploc bags, and stored on ice in a cooler pending delivery to FGL. The groundwater samples were analyzed for pH, total dissolved solids (TDS), total nitrogen, nitrate (as nitrogen), nitrite, ammonia, organic nitrogen, total Kjeldahl nitrogen (TKN), sodium, chloride, sulfate, and boron.

3.2 SAMPLING RESULTS

The groundwater quality samples collected during the May 2014 sampling event were analyzed by FGL in San Luis Obispo, California. The analysis of constituents required for this monitoring event included pH, total dissolved solids, total nitrogen, nitrate (as nitrogen), nitrite, ammonia, organic nitrogen, TKN, sodium, chloride, sulfate, and boron (Table 3). 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; and Rincon, 2014).

3.2.1 pH

The pH of the groundwater samples collected during the May 2014 sampling event ranged from 6.2 to 7.4 and the average pH was 6.8.

3.2.2 Total Dissolved Solids

During the May 2014 sampling event, TDS concentrations in shallow groundwater ranged from 90 milligrams per liter (mg/L) in well 8N2r to 580 mg/L in well 13Q1r with an average of 381 mg/L. The TDS range and average concentration for May 2014 is similar to sampling events since August 2012. In 2005, TDS concentrations ranged from 67 mg/L to 1,100 mg/L with an

average of 317 mg/L. Groundwater concentrations from the May 2014 sampling event were within the historical ranges. TDS Concentration contours are shown on Figure 5. TDS concentrations from 2005 and 2012 to 2014 are shown on Figure 6.

3.2.3 Nitrogen

3.2.3.1 Nitrate as Nitrogen

Nitrate as N concentrations in groundwater samples collected during the May 2014 sampling event ranged from 1.0 mg/L in groundwater well 17F4 to 29.9 mg/L in groundwater well 13Q1r with an average of 14.4 mg/L. Eighteen of the 24 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 and nitrites are ions commonly measured in groundwater. During the May 2014 sampling event, nitrite was not detected above the reporting limit of 0.1 mg/L, which is below the MCL for nitrite (1 mg/L). Ammonia (NH_3^+) 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 wells 18J6r and 7Q1 with concentrations of 2.2 mg/L and 0.6 mg/L, respectively.

Organic nitrogen was detected in well 18L4r with a concentration of 20 mg/L. TKN was detected in well 18J6r with a concentration of 1 mg/L.

3.2.3.3 Total Nitrogen (as Nitrogen)

Concentrations of total nitrogen (as nitrogen (N)) ranged from 1.0 to 30 mg/L during the May 2014 sampling event, with an average concentration of 14 mg/L. The average concentration has remained relatively consistent since 2012 as shown on Figure 9. Groundwater samples collected during the April 2005 event were not analyzed for total nitrogen.

3.2.4 General Minerals

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

4.0 SCHEDULED ACTIVITIES

4.1 WELL VAULT REPAIRS

Well repair activities are proposed for wells 8Ma, 8Mb, 13G, 13H, 13L5r, 18B1r, and 18L4r to replace well boxes, bolts, or gasket, as needed. It is anticipated these activities will be completed before the next groundwater sampling event scheduled between October and November 2014.

4.2 SEMI-ANNUAL SAMPLING

The next semi-annual sampling event is scheduled to take place between October and November 2014. Well 18A will no longer be included in the monitoring network; the owner opted that their private well be excluded indefinitely.

5.0 CONCLUSIONS

The January 2014 groundwater flow pattern is consistent with historical flow direction and gradient. Shallow groundwater generally flows northwest to west towards Morro Bay, however 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 -2.6 feet to +1. 6 feet, with the exception of 13Q1r which decreased approximately 12 feet.

During the May 2014 sampling event, TDS concentrations in shallow groundwater ranged from 90 mg/L in well 8N2r to 580 mg/L in well 13Q3r with an average of 381 mg/L. The TDS groundwater concentrations from the May 2014 sampling event were within the historical average and in general TDS appears to be stable.

Eighteen of the 24 groundwater wells exceeded the MCL drinking water standard set by the EPA of 10 mg/L nitrate. 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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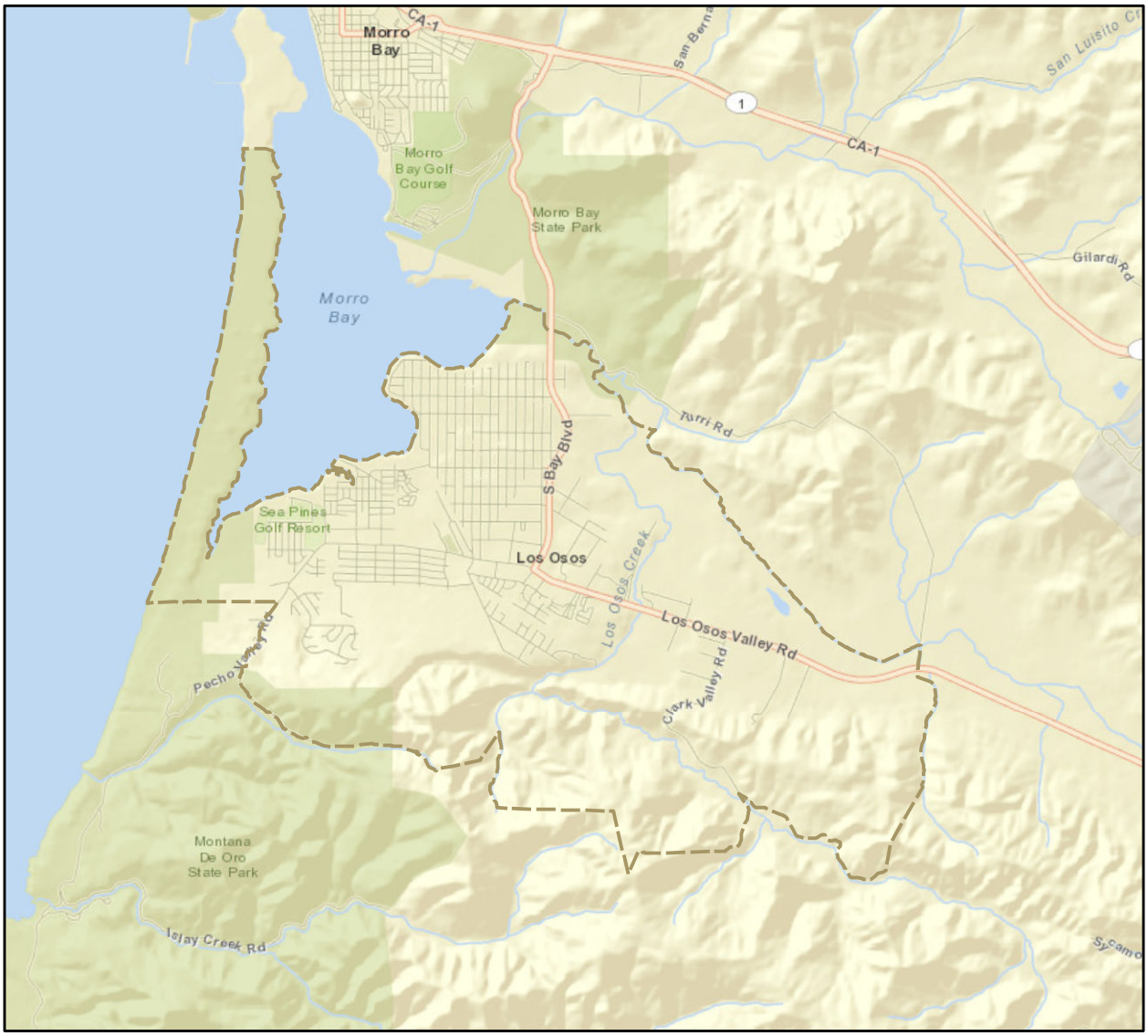
Cleath-Harris Geologists (CHG), 2013. *Los Osos Water Recycling Facility Baseline Groundwater Quality Monitoring Report*. July.

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, 2014. *Los Osos Water Recycling Facility Baseline Groundwater Quality Monitoring Report*. February 20.



Imagery provided by ESRI and its licensors © 2014.

Los Osos

N

0 1.25
Miles

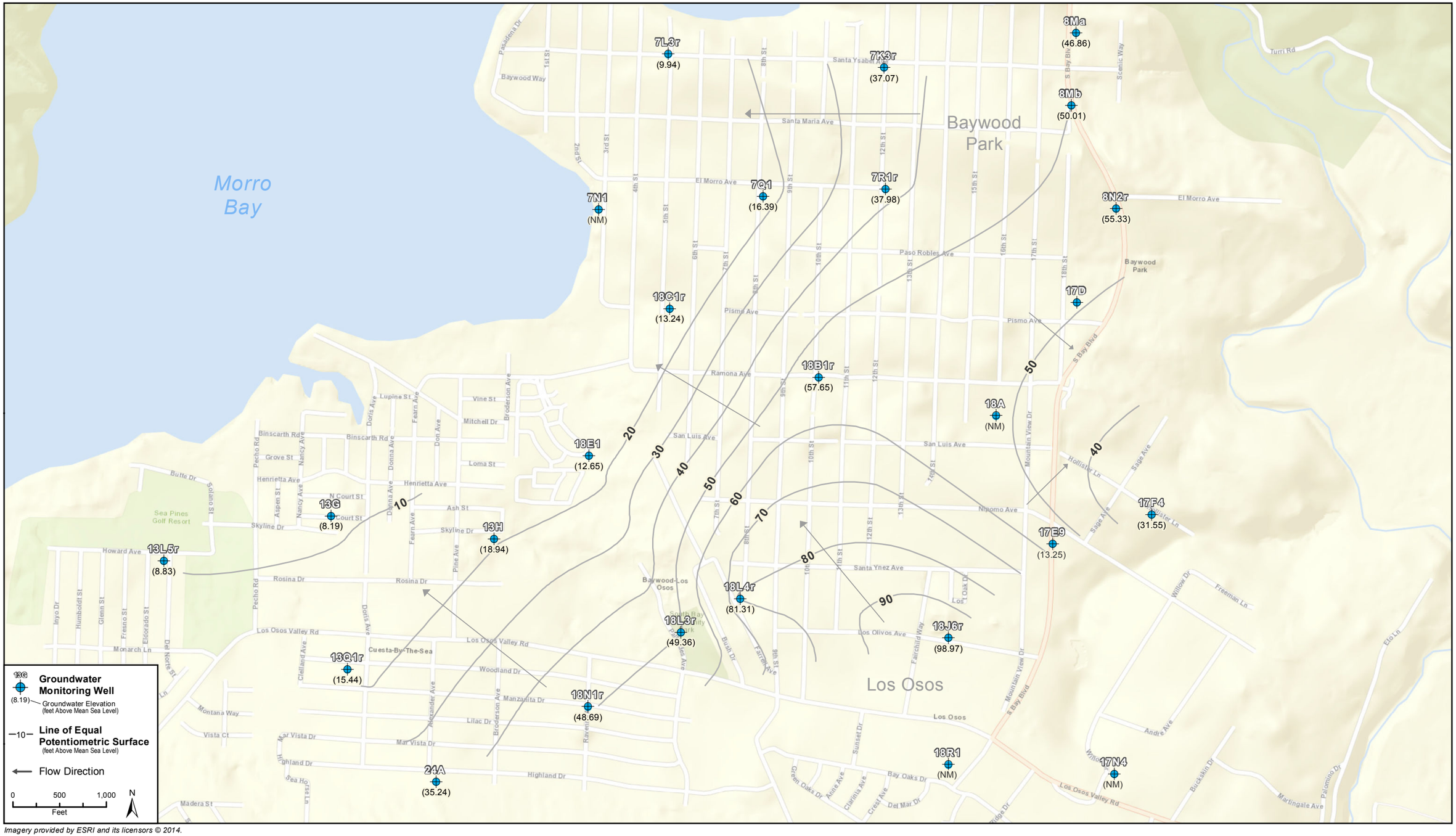
Vicinity Map

Figure 1

Imagery provided by ESRI and its licensors © 2014.

Baseline Groundwater Monitoring Well Locations

Figure 2



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Groundwater Elevations and Contour Map

Figure 3

County of San Luis Obispo

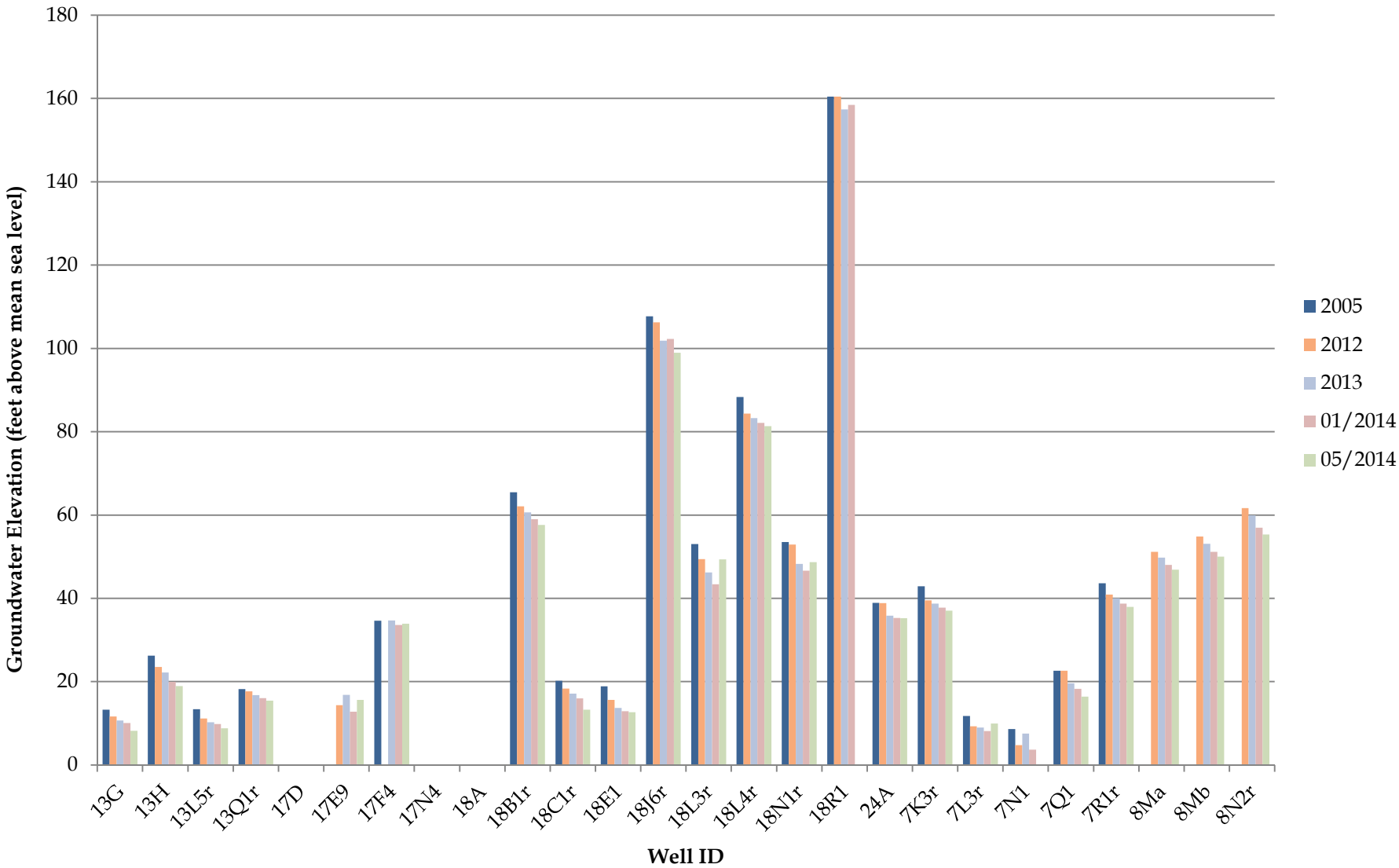
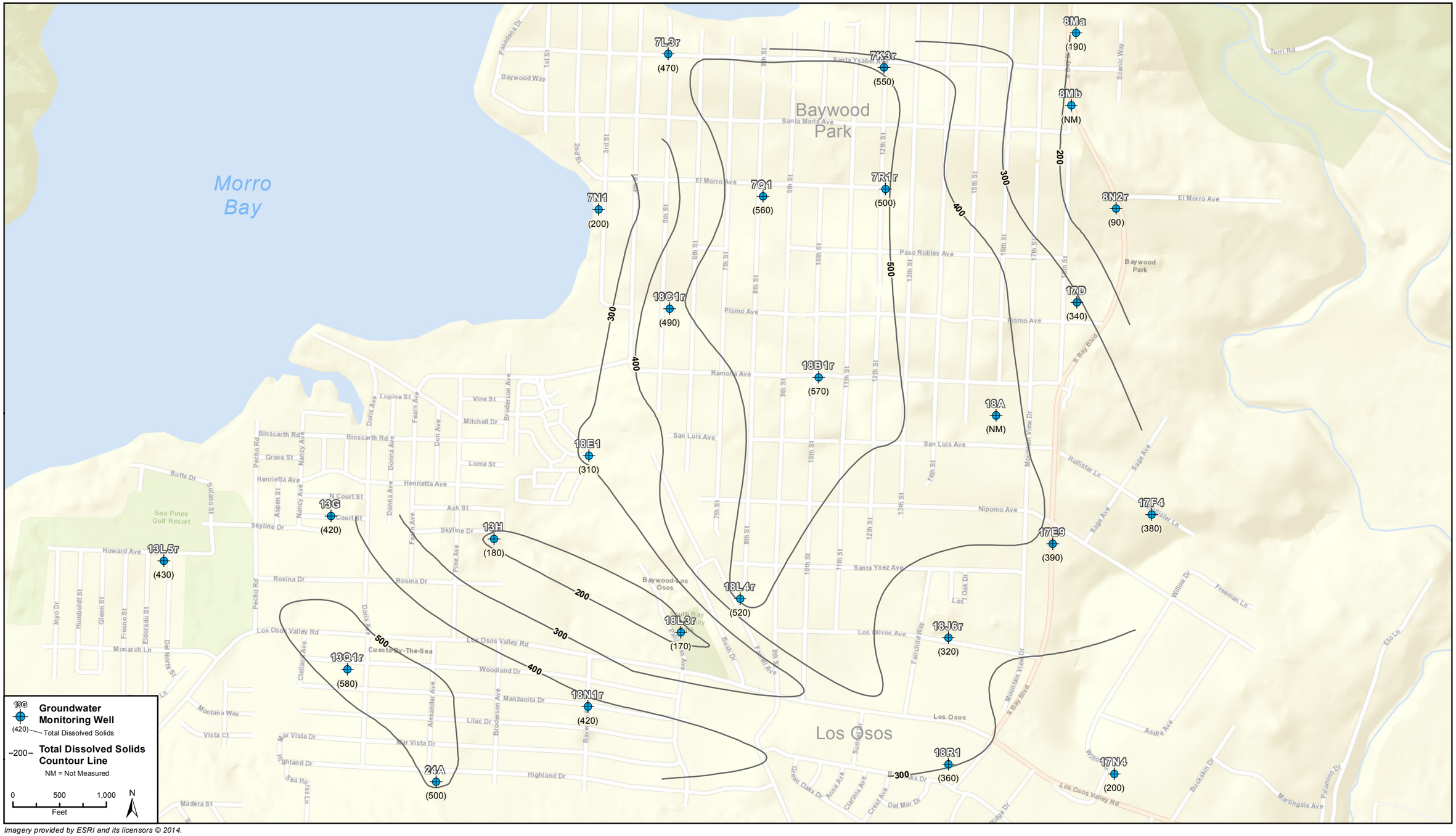


Figure 4. Historical Groundwater Elevations Graph
Los Osos Water Treatment Facility
County of San Luis Obispo



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Total Dissolved Solids Concentration Contour Map

Figure 5

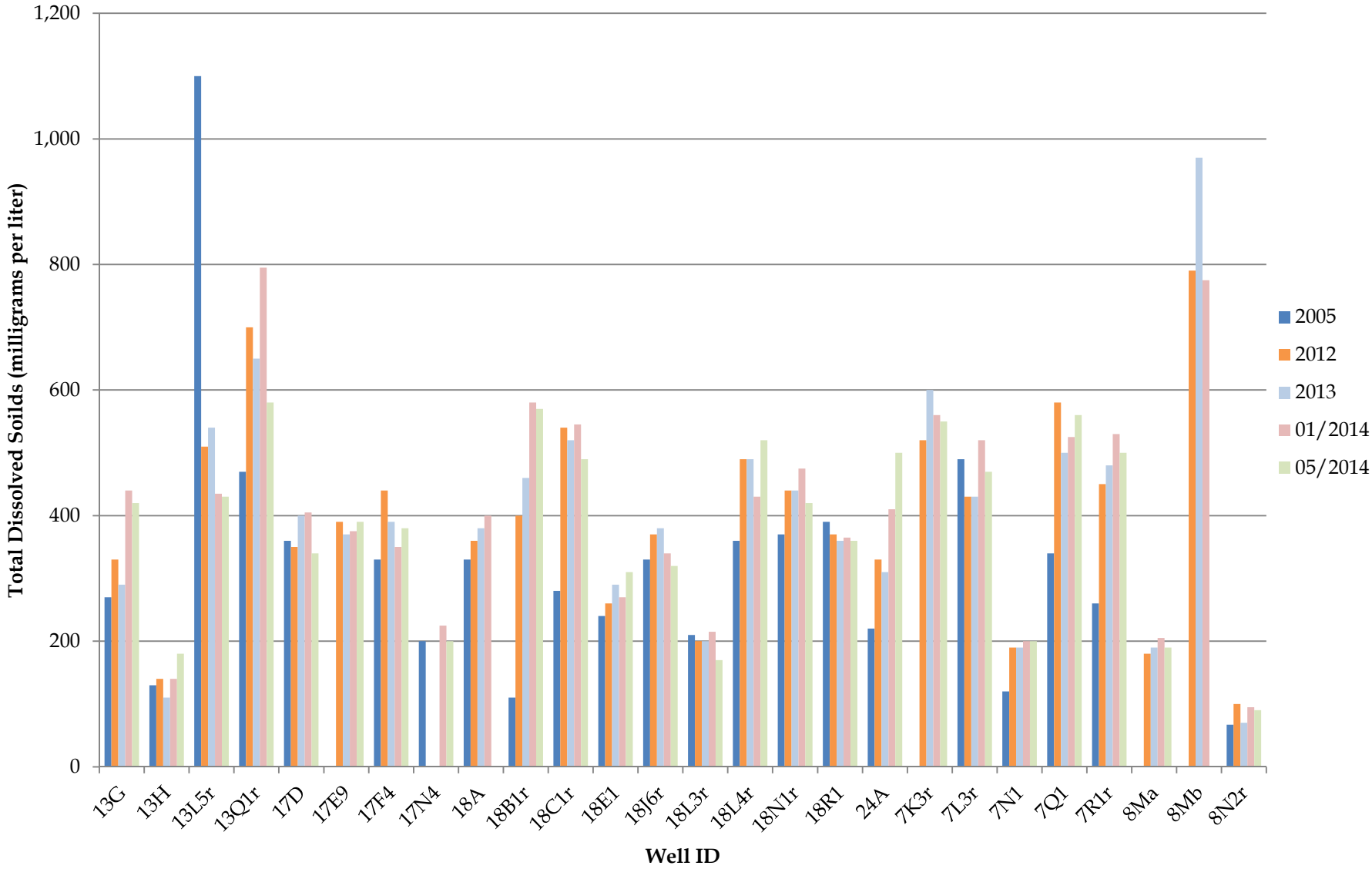
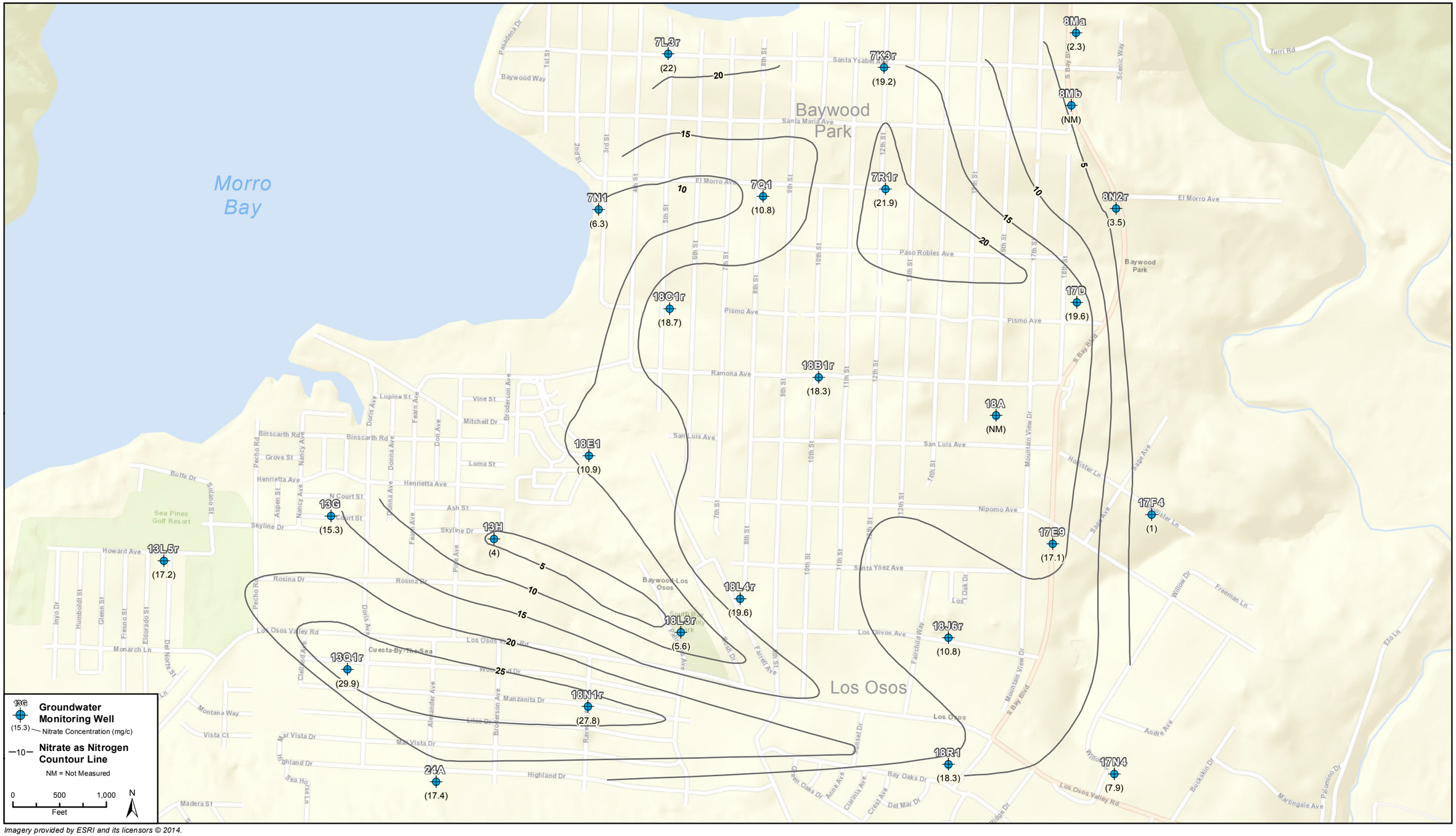


Figure 6. Total Dissolved Solids Concentration Graph
Los Osos Water Recycling Facility
County of San Luis Obispo



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Nitrate as Nitrogen Concentration Contour Map

Figure 7

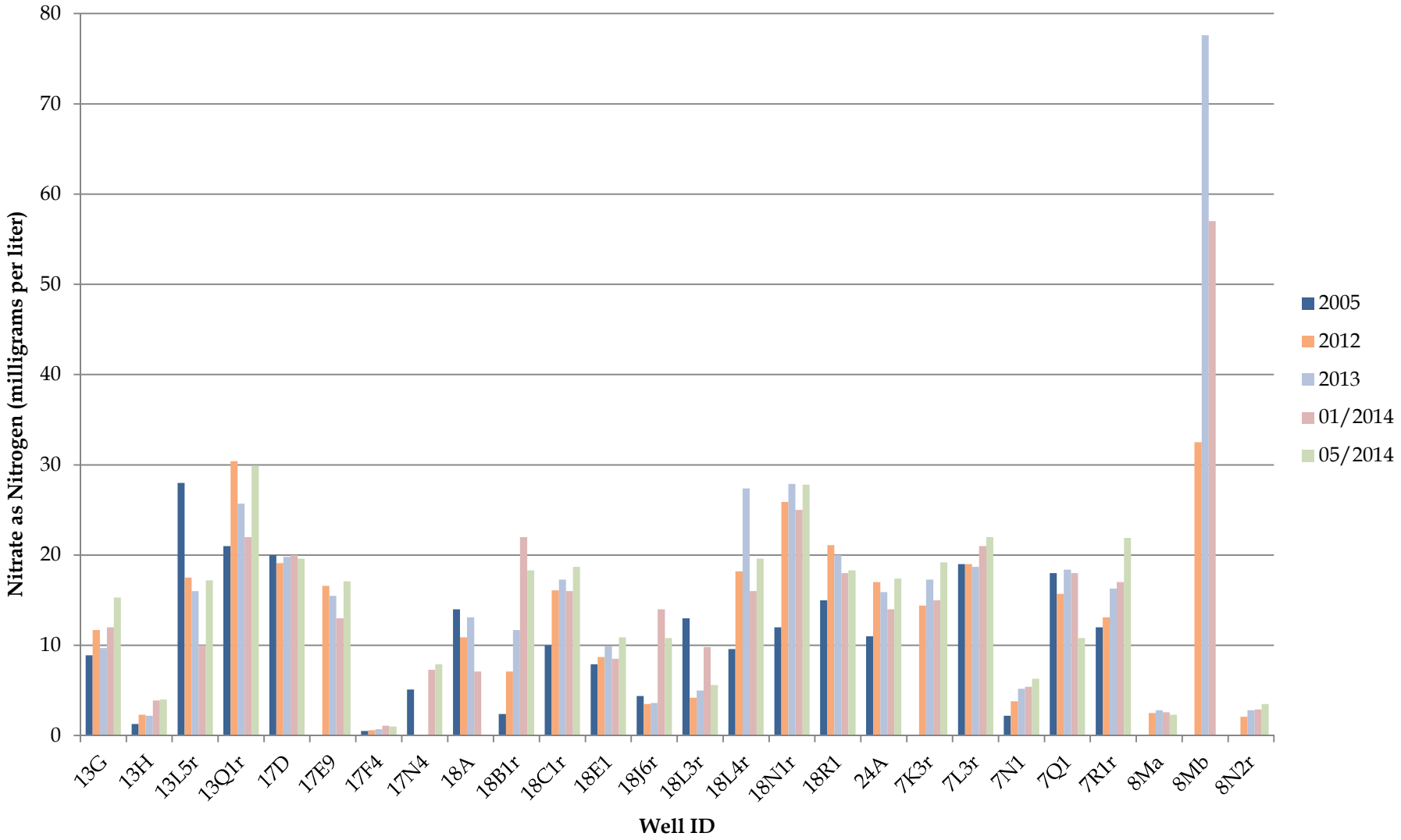

Figure 8. Nitrate as Nitrogen Concentration Graph
Los Osos Water Recycling Facility
County of San Luis Obispo

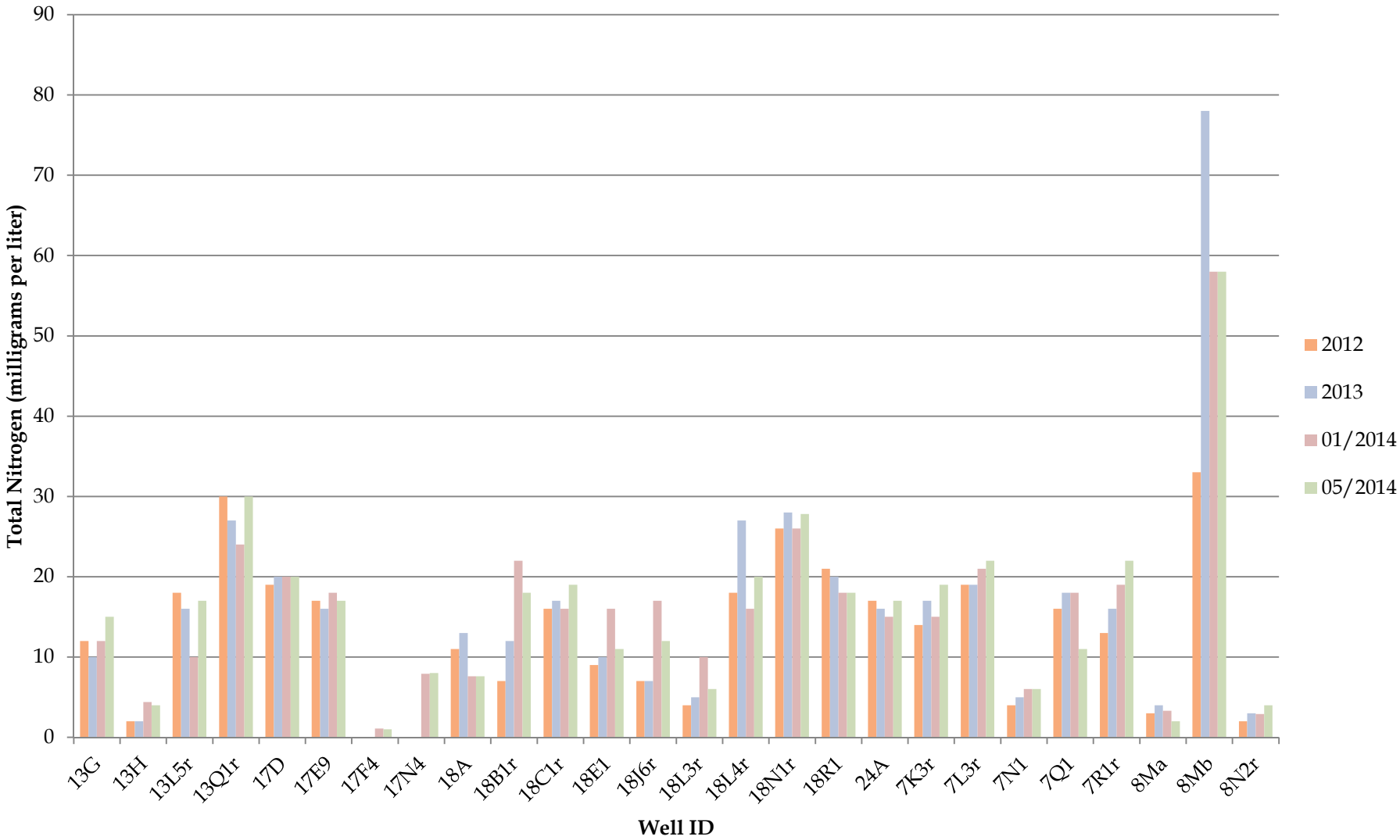

Figure 9. Total Nitrogen Concentration Graph
Los Osos Water Recycling Facility
County of San Luis Obispo

Appendix A

Groundwater Sampling/Purging Data Sheets

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/5/14
Project/Location	Los Osos Groundwater Monitoring	Well Number:	18R1
Observation Period	Start: 11:00 Stop: 1120	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	~~No Pump~~ (Dedicated domestic)	Pump Inlet Depth (ft)	N/A
Well Diameter (in)	N/A (inside shed)	Depth of Well (ft)	N/A
Initial/Static Depth to Water (ft)		Length of Water Column (ft)	N/A
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)	N/A	Three Casing Volumes (gal)	N/A
Purge Time, Start		Purge Time, Stop	
Total Purge Time (minutes)		Purge Rate (gpm)	
Purge Volume (gal)	5 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)	280							268
Turbidity (measured or visual) cloudy, clear, muddy	clear							clear
Temperature (C)	16.7							16.8
Conductivity (micromhos)	553							527
pH	6.23							6.11
Dissolved Oxygen (mg/L & %)	5.61							3.82
Comments:								
Depth to Water at End of Purge (ft)				NA				
Drawdown (ft)				NA				

MISCELLANEOUS DATA

Condition of Traffic Box: Spigot out side shed

Drum Identification labeling:

Water Level Indicator: N/A

Weather Conditions: Slightly foggy

Sampled at: 1115

Comments:

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: 5/5/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 17N4
Observation Period Start: 9:00 Stop: 1045	Survey Reference Point:
Sampled By: TIM DELANEY	Witnessed By:

PURGING DATA

Type of Pump	NO PUMP	Pump Inlet Depth (ft)	N/A
Well Diameter (in)	6"	Depth of Well (ft)	N/A
Initial/Static Depth to Water (ft)	N/A	Length of Water Column (ft)	
Product Thickness (ft)		Volume Multiplier (gal/ft)	
One Casing Volume (gal)	purged ~ 5 gal	Three Casing Volumes (gal)	
Purge Time, Start	1015	Purge Time, Stop	1017
Total Purge Time (minutes)	2	Purge Rate (gpm)	
Purge Volume (gal)	5	Depth to Water (ft) at Sampling	N/A

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)	212							167
Turbidity (measured or visual) cloudy, clear, muddy	clear							Clear
Temperature (C)	17.4							17.6
Conductivity (micromhos)	424							330
pH	6.38							6.14
Dissolved Oxygen (mg/L & %)	4.44							3.33
Comments:								
Depth to Water at End of Purge (ft)				N/A				
Drawdown (ft)				N/A				

MISCELLANEOUS DATA

Condition of Traffic Box: spag attached to active well

Drum Identification labeling:

Water Level Indicator:

Weather Conditions: slightly foggy

Comments:

Sampled at: 1030

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: 5/5/14
Project/Location Los Osos Groundwater Monitoring	Well Number: 1836 / 1837
Observation Period Start: 1130 Stop: 1238	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROGRESSIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	33.72
Initial/Static Depth to Water (ft)	26.19	Length of Water Column (ft)	7.53
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.2	Three Casing Volumes (gal)	3.6
Purge Time, Start	~~E~~ 1150	Purge Time, Stop	1155
Total Purge Time (minutes)	5	Purge Rate (gpm)	
Purge Volume (gal)	3.6	Depth to Water (ft) at Sampling	26.33

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	1.2	2.4	3.6				At Sampling
TDS (ppm)	288	280	278	275				279
Turbidity (measured or visual) cloudy, clear, muddy	SL Cloudy	SL cloudy	SL cloudy	SL cloudy				clear
Temperature (C)	22.7	22.2	22.0	21.9				21.8
Conductivity (micromhos)	577	561	556	547				560
pH	6.41	6.48	6.46	6.47				6.75
Dissolved Oxygen (mg/L & %)	0.80	1.45	1.91	2.27				3.80
Comments:								
Depth to Water at End of Purge (ft)				28.9				
Drawdown (ft)				2.71				

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: N/A

Water Level Indicator: Solinst

Weather Conditions: Partly foggy

Comments: Sampled at: 1230

Well Recovery Calculation

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

26.19 + 0.2 * 2.71 = 26.73

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/5/14
Project/Location	Los Osos Groundwater Monitoring	Well Number:	18L4v
Observation Period	Start: 1330 Stop: 1415	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	34.16
Initial/Static Depth to Water (ft)	~~[illegible]~~ 21.95	Length of Water Column (ft)	12.14
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.9	Three Casing Volumes (gal)	5.8
Purge Time, Start	1340	Purge Time, Stop	1345
Total Purge Time (minutes)	5	Purge Rate (gpm)	
Purge Volume (gal)	6	Depth to Water (ft) at Sampling	21.95

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)	372	373	376	382				372
Turbidity (measured or visual) cloudy, clear, muddy	SL cloudy	clear	clear	SL cloudy				SL cloudy
Temperature (C)	19.4	19.3	19.1	19.4				20.7
Conductivity (micromhos)	743	742	754	774				743
pH	6.57	6.48	6.38	6.33				6.57
Dissolved Oxygen (mg/L & %)	4.71	4.82	4.85	3.81				5.61
Comments:								
Depth to Water at End of Purge (ft)				22.48				
Drawdown (ft)				0.53				

MISCELLANEOUS DATA

Condition of Traffic Box: good, water inside

Drum Identification labeling: NA

Water Level Indicator: SOLINIST

Weather Conditions: Foggy

Comments: Sampled at: 1400

Well Recovery Calculation

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

~~22.02~~ 21.95 + 0.2 * ~~0.46~~ 0.53 = ~~[illegible]~~ 22.06

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481	Date: 5/5/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 18L3r
Observation Period Start: 1600 Stop: 1640	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	50.15
Initial/Static Depth to Water (ft)	41.23	Length of Water Column (ft)	8.92
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.43	Three Casing Volumes (gal)	4.3
Purge Time, Start	16:15	Purge Time, Stop	16:22
Total Purge Time (minutes)	7	Purge Rate (gpm)	
Purge Volume (gal)	4.5	Depth to Water (ft) at Sampling	41.23

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	1.5	3	4.5				At Sampling
TDS (ppm)	105	135	150	159				117
Turbidity (measured or visual) cloudy, clear, muddy	SL Cloudy	SL cloudy	Clear	Clear				Clear
Temperature (C)	19.5	19.4	19.5	19.1				19.8
Conductivity (micromhos)	212	271	300	318				235
pH	7.16	6.87	6.67	6.44				6.89
Dissolved Oxygen (mg/L & %)	5.84	6.78	6.63	6.38				6.45
Comments:								
Depth to Water at End of Purge (ft)				41.25				
Drawdown (ft)				0.02				

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments:

Sampled at: 1630

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: 5/6/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 18N1r
Observation Period Start: 7:45 Stop: 900	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	91.30
Initial/Static Depth to Water (ft)	77.68	Length of Water Column (ft)	13.62
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.18	Three Casing Volumes (gal)	6.53
Purge Time, Start	8:00	Purge Time, Stop	8:12
Total Purge Time (minutes)	12	Purge Rate (gpm)	
Purge Volume (gal)	6.6	Depth to Water (ft) at Sampling	77.68

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	2.2	4.4	6.6				At Sampling
TDS (ppm)	358	360	357	356				338
Turbidity (measured or visual) cloudy, clear, muddy	cloudy	sl cloudy	sl cloudy	sl cloudy				clear
Temperature (C)	16.4	17.1	17.8	18.0				20.0
Conductivity (micromhos)	716	715	712	713				671
pH	6.63	6.50	6.36	6.36				6.68
Dissolved Oxygen (mg/L & %)	7.21	6.50	5.7	6.6				6.51
Comments:								
Depth to Water at End of Purge (ft)				77.72				
Drawdown (ft)				.04				

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: NA

Water Level Indicator: Solinist

Weather Conditions: Clear

Comments:

Sampled at: 840

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:	5/6/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	13L5r
Observation Period	Start: 930 Stop: 1025	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	4"	Depth of Well (ft)	31.3
Initial/Static Depth to Water (ft)	23.7	Length of Water Column (ft)	7.6
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	4.94	Three Casing Volumes (gal)	14.8
Purge Time, Start	942	Purge Time, Stop	951
Total Purge Time (minutes)	9	Purge Rate (gpm)	
Purge Volume (gal)	15	Depth to Water (ft) at Sampling	23.71

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	5	10	15				At Sampling
TDS (ppm)	318	319	321	330				290
Turbidity (measured or visual) cloudy, clear, muddy	sl cloudy	clear	clear	clear				clear
Temperature (C)	18.2	18.3	17.6	16.1				20.0
Conductivity (micromhos)	614	627	632	649				566
pH	6.3	6.25	6.24	6.25				6.31
Dissolved Oxygen (mg/L & %)	4.19	3.03	3.23	2.71				4.96
Comments:								
Depth to Water at End of Purge (ft)				23.75				
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box: poor - No Bolts

Drum Identification labeling: NA

Water Level Indicator: Solinist.

Weather Conditions: Clear, slight Breeze

Comments:

Sampled at: 1015

Well Recovery Calculation

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

_____ + 0.2 * _____ = _____

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ROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/6/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	13G
Observation Period	Start: 1040 Stop: 1120	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	49.88
Initial/Static Depth to Water (ft)	~~42.24~~ 42.18	Length of Water Column (ft)	7.67
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.23	Three Casing Volumes (gal)	3.68
Purge Time, Start	1057	Purge Time, Stop	1102
Total Purge Time (minutes)	~~[illegible]~~ 5	Purge Rate (gpm)	
Purge Volume (gal)	3.7	Depth to Water (ft) at Sampling	42.18

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	1.2	2.4	3.6				At Sampling
TDS (ppm)	312	311	312	312				300
Turbidity (measured or visual) cloudy, clear, muddy	clear	clear	clear	clear				clear
Temperature (C)	18.9	18.6	18.4	18.2				19.5
Conductivity (micromhos)	613	612	612	612				591
pH	6.27	6.26	6.26	6.26				6.62
Dissolved Oxygen (mg/L & %)	7.22	6.81	6.60	7.40				6.61
Comments:								
Depth to Water at End of Purge (ft)				42.18				
Drawdown (ft)				0				

MISCELLANEOUS DATA

Condition of Traffic Box: VERY POOR: Broken Base, No Concrete Crushed Cap.

Drum Identification labeling: NA

Water Level Indicator: Solinist

Weather Conditions: clear, breezy

Comments:

Sampled at: 1115

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

_____ + 0.2 * _____ = _____

Located in Street N. of [illegible] 360.

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/6/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	13H
Observation Period	Start: 1145 Stop:	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	34.39
Initial/Static Depth to Water (ft)	30.17	Length of Water Column (ft)	4.22
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	0.67	Three Casing Volumes (gal)	2.03
Purge Time, Start	1156	Purge Time, Stop	1214
Total Purge Time (minutes)	18	Purge Rate (gpm)	
Purge Volume (gal)	2	Depth to Water (ft) at Sampling	30.44

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	0.7	1.4	2				At Sampling
TDS (ppm)	113	112	110	110				115
Turbidity (measured or visual) cloudy, clear, muddy	clear	cloudy	sl cloudy	clear				sl cloudy
Temperature (C)	20.6	19.2	20.0	19.6				19.9
Conductivity (micromhos)	224	220	217	212				231
pH	6.94	6.77	6.85	6.83				7.03
Dissolved Oxygen (mg/L & %)	6.33	6.45	7.48	8.10				6.51
Comments:								
Depth to Water at End of Purge (ft)				31.54				
Drawdown (ft)				1.37				

MISCELLANEOUS DATA

Condition of Traffic Box: FAIR; Bolts are not functioning

Drum Identification labeling: NA

Water Level Indicator: SOLINIST

Weather Conditions: Clear, Windy

Comments: Pumped well dry after 1 min. Sampled at: 1230

Well Recovery Calculation

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

30.17 + 0.2 * 1.37 = 30.44

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481	Date: 5/6/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 18C1r
Observation Period Start: 1300 Stop:	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump		Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	31.99
Initial/Static Depth to Water (ft)	19.75	Length of Water Column (ft)	12.24
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.96	Three Casing Volumes (gal)	5.88
Purge Time, Start	1340	Purge Time, Stop	1345
Total Purge Time (minutes)	6	Purge Rate (gpm)	
Purge Volume (gal)	6	Depth to Water (ft) at Sampling	19.78

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)	358	421	428	429				411
Turbidity (measured or visual) cloudy, clear, muddy	SL cloudy	SL cloudy	clear	Clear				clear
Temperature (C)	20.6	19.2	18.6	18.3				18.6
Conductivity (micromhos)	700	823	839	841				821
pH	6.69	6.57	6.51	6.50				6.55
Dissolved Oxygen (mg/L & %)	4.33	2.81	2.16	2.00				2.47
Comments:								
Depth to Water at End of Purge (ft)				19.9				
Drawdown (ft)				0.15				

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments: Sampled at: 14:30

Well Recovery Calculation

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

19.75 + 0.2 * 0.15 = 19.78

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481	Date: 5/6/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 1831r
Observation Period Start: 1750 Stop: 1830	Survey Reference Point:
Sampled By: Tim DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PRO ACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	32.18
Initial/Static Depth to Water (ft)	21.97	Length of Water Column (ft)	10.21
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.6	Three Casing Volumes (gal)	4.9
Purge Time, Start	1801	Purge Time, Stop	1805
Total Purge Time (minutes)	4	Purge Rate (gpm)	
Purge Volume (gal)	5	Depth to Water (ft) at Sampling	21.98

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	1.6	3.2	5				At Sampling
TDS (ppm)	456	449	472	474				424
Turbidity (measured or visual) cloudy, clear, muddy	clear	clear	clear	clear				clear
Temperature (C)	16.1	16.0	16.0	16.1				15.2
Conductivity (micromhos)	896	881	927	928				831
pH	6.83	6.73	6.65	6.62				6.99
Dissolved Oxygen (mg/L & %)	3.42	3.54	2.90	3.12				5.17
Comments:								
Depth to Water at End of Purge (ft)				22.42				
Drawdown (ft)				1.45				

MISCELLANEOUS DATA

Condition of Traffic Box: GOOD, water in Box

Drum Identification labeling: NA

Water Level Indicator: Solinist

Weather Conditions: clear, windy

Comments:

Sampled at: 1820

Well Recovery Calculation

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

21.97 + 0.2 * 1.45 = 22.26

ncon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481	Date: 5/6/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 7R1
Observation Period Start: 1845 Stop:	Survey Reference Point: 1945
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	32.85
Initial/Static Depth to Water (ft)	23.93	Length of Water Column (ft)	8.92
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.4	Three Casing Volumes (gal)	4.3
Purge Time, Start	1900	Purge Time, Stop	1903
Total Purge Time (minutes)	3	Purge Rate (gpm)	
Purge Volume (gal)	4.5	Depth to Water (ft) at Sampling	23.99

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	1.4	2.8	4.5				At Sampling
TDS (ppm)	411	412	396	406				412
Turbidity (measured or visual) cloudy, clear, muddy	cloudy	cloudy	cloudy	cloudy				cloudy
Temperature (C)	15.3	15.6	15.9	16.1				15.1
Conductivity (micromhos)	795	805	784	798				811
pH	6.98	6.70	6.66	6.60				6.77
Dissolved Oxygen (mg/L & %)	3.12	3.60	3.10	3.26				5.60
Comments:								
Depth to Water at End of Purge (ft)				27.31				
Drawdown (ft)				3.38				

MISCELLANEOUS DATA

Condition of Traffic Box: GOOD

Drum Identification labeling: NA

Water Level Indicator: Solinst

Weather Conditions: partly foggy, windy, cool

Comments: Sampled at: 1930

Well Recovery Calculation

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

23.93 + 0.2 * 3.38 = 24.60

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/7/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	7L3r
Observation Period Start:	7:15 Stop:	Survey Reference Point:	815
Sampled By:	T. DEZANCY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	45.80
Initial/Static Depth to Water (ft)	38.42	Length of Water Column (ft)	7.38
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.18	Three Casing Volumes (gal)	3.54
Purge Time, Start	743	Purge Time, Stop	747
Total Purge Time (minutes)	4	Purge Rate (gpm)	
Purge Volume (gal)	3.5	Depth to Water (ft) at Sampling	38.42

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)	367	356	362	362				381
Turbidity (measured or visual) cloudy, clear, muddy	sl cloudy	sl cloudy	clear	clear				cloudy
Temperature (C)	16.4	17.3	17.6	17.8				16.71
Conductivity (micromhos)	734	714	720	722				767
pH	6.55	6.72	6.74	6.76				7.16
Dissolved Oxygen (mg/L & %)	5.84	4.38	4.07	4.21				5.25
Comments:								
Depth to Water at End of Purge (ft)				38.43				
Drawdown (ft)				0.01				

MISCELLANEOUS DATA

Condition of Traffic Box:	GOOD
Drum Identification labeling:	NA
Water Level Indicator:	Solinst
Weather Conditions:	Foggy 10°

Comments:

Sampled at: 800

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: 5/7/2013
Project/Location Los Osos Groundwater Monitoring	Well Number: 7N1
Observation Period Start: 8:50 Stop:	Survey Reference Point:
Sampled By: T. DEZANEY	Witnessed By:

PURGING DATA

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

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)								140
Turbidity (measured or visual) cloudy, clear, muddy								clear
Temperature (C)								16.8
Conductivity (micromhos)								279
pH								7.78
Dissolved Oxygen (mg/L & %)								6.32
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: 9:00

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: 5/7/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 17F4
Observation Period Start: 945 Stop: 1010	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	DEDICATED DOMESTIC	Pump Inlet Depth (ft)	NA
Well Diameter (in)	NA	Depth of Well (ft)	NA
Initial/Static Depth to Water (ft)	NA	Length of Water Column (ft)	NA
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	NA
One Casing Volume (gal)	NA	Three Casing Volumes (gal)	NA
Purge Time, Start	NA	Purge Time, Stop	NA
Total Purge Time (minutes)	NA	Purge Rate (gpm)	
Purge Volume (gal)	5gal	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)								310
Turbidity (measured or visual) cloudy, clear, muddy								Clear
Temperature (C)								16.9
Conductivity (micromhos)								618
pH								6.68
Dissolved Oxygen (mg/L & %)								5.34
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: Spigot near blue pressure tank

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: 5/7/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 17D
Observation Period Start: 1015 Stop:	Survey Reference Point:
Sampled By: T. DELANCY	Witnessed By:

PURGING DATA

Type of Pump	DEDICATED Domestic	Pump Inlet Depth (ft)	NA
Well Diameter (in)	NA	Depth of Well (ft)	NA
Initial/Static Depth to Water (ft)	NA	Length of Water Column (ft)	NA
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	NA
One Casing Volume (gal)	NA	Three Casing Volumes (gal)	NA
Purge Time, Start	NA	Purge Time, Stop	NA
Total Purge Time (minutes)	NA	Purge Rate (gpm)	NA
Purge Volume (gal)	5 gal	Depth to Water (ft) at Sampling	NA

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)								255
Turbidity (measured or visual) cloudy, clear, muddy								Clear
Temperature (C)								17.0
Conductivity (micromhos)								512
pH								7.43
Dissolved Oxygen (mg/L & %)								6.94
Comments:								
Depth to Water at End of Purge (ft)				NA				
Drawdown (ft)				NA				

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments: spigot near water tank Sampled at: 1020

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: 5/7/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 13Q1r
Observation Period Start: 1115 Stop: 1215	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	102.55
Initial/Static Depth to Water (ft)	98.05	Length of Water Column (ft)	4.50
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	0.72	Three Casing Volumes (gal)	2.16
Purge Time, Start	1136	Purge Time, Stop	1149
Total Purge Time (minutes)	8	Purge Rate (gpm)	
Purge Volume (gal)	2.2	Depth to Water (ft) at Sampling	98.05

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							At Sampling
TDS (ppm)	425	420	416	414				414
Turbidity (measured or visual) cloudy, clear, muddy	muddy	muddy	muddy	Cloudy				Clear
Temperature (C)	18.4	18.8	19.2	19.3				19.2
Conductivity (micromhos)	850	841	832	828				830
pH	6.3	6.23	6.20	6.21				6.22
Dissolved Oxygen (mg/L & %)	6.26	6.97	6.76	6.82				6.83
Comments:								
Depth to Water at End of Purge (ft)				99.12				
Drawdown (ft)				1.07				

MISCELLANEOUS DATA

Condition of Traffic Box: good

Drum Identification labeling: NA

Water Level Indicator: Solinist

Weather Conditions: partly foggy, windy

Comments: located in planter @ #333 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:	5/7/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	8N2r
Observation Period	Start: ~~1230~~ 1230 Stop: 1315	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	44.69
Initial/Static Depth to Water (ft)	40.95	Length of Water Column (ft)	3.74
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	0.59	Three Casing Volumes (gal)	1.79
Purge Time, Start	1252	Purge Time, Stop	1257
Total Purge Time (minutes)	5	Purge Rate (gpm)	
Purge Volume (gal)	2	Depth to Water (ft) at Sampling	40.95

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)	59	56	58	58				59
Turbidity (measured or visual) cloudy, clear, muddy	clear	clear	clear	clear				clear
Temperature (C)	19.5	19.5	19.7	19.6				19.6
Conductivity (micromhos)	120	112	116	116				117
pH	7.51	7.36	7.27	7.22				7.17
Dissolved Oxygen (mg/L & %)	5.73	6.63	6.93	7.18				7.09
Comments:								
Depth to Water at End of Purge (ft)				41.01				
Drawdown (ft)								

MISCELLANEOUS DATA

Condition of Traffic Box: GOOD

Drum Identification labeling: NA

Water Level Indicator: Solinst

Weather Conditions: fog, wind

Comments: Sampled at: 1300

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: 5/7/2014
Project/Location **Los Osos Groundwater Monitoring**	Well Number: 8MB
Observation Period Start: 13:20 Stop:	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump		Pump Inlet Depth (ft)	
Well Diameter (in)		Depth of Well (ft)	
Initial/Static Depth to Water (ft)		Length of Water Column (ft)	
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)								
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: well not found, possibly beneath Road Base pile

Sampled at: _____

Well Recovery Calculation ~~today~~

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

_____ + 0.2 * _____ = _____

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.OUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/7/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	8MA
Observation Period	Start: ~~8:30~~ 1340 Stop: 1450	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	~~PROACTIVE~~ HAND BAILER	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	45.86
Initial/Static Depth to Water (ft)	~~45~~ 44.60	Length of Water Column (ft)	1.26
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	0.2	Three Casing Volumes (gal)	0.6
Purge Time, Start	~~NA~~ 14:10	Purge Time, Stop	1420
Total Purge Time (minutes)	10	Purge Rate (gpm)	NA
Purge Volume (gal)	0.6	Depth to Water (ft) at Sampling	44.60

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)	139	131	133	134				132
Turbidity (measured or visual) cloudy, clear, muddy	Cloudy	Cloudy	Cloudy	Cloudy				Cloudy
Temperature (C)	21.9	21.0	21.0	20.8				20.7
Conductivity (micromhos)	276	267	268	269				276
pH	7.68	7.50	7.51	~~5~~ 7.50				7.52
Dissolved Oxygen (mg/L & %)	7.16	6.71	6.65	6.63				5.41
Comments:								
Depth to Water at End of Purge (ft)				44.62				
Drawdown (ft)				0.02				

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments: Located North of church, between road & church lawn 50' South of "$1000 Fine for Littering" sign

Sampled at: 1445

Well Recovery Calculation

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

Needs Proper well Cap

_____ + 0.2 * _____ = _____

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481	Date: 5/7/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 7K3r
Observation Period Start: 1630 Stop:	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	61.98
Initial/Static Depth to Water (ft)	53.78	Length of Water Column (ft)	8.20
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.3	Three Casing Volumes (gal)	3.9
Purge Time, Start	1642	Purge Time, Stop	1648
Total Purge Time (minutes)	6	Purge Rate (gpm)	
Purge Volume (gal)	4	Depth to Water (ft) at Sampling	53.79

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)	427	428	430	428				430
Turbidity (measured or visual) cloudy, clear, muddy	Cloudy	Sl Cloudy	Clear	clear				Clear
Temperature (C)	18.3	18.4	18.5	17.8				18.3
Conductivity (micromhos)	855	856	861	856				858
pH	7.04	6.96	6.95	6.95				6.97
Dissolved Oxygen (mg/L & %)	6.62	6.33	6.32	6.55				6.30
Comments:								
Depth to Water at End of Purge (ft)				54.25				
Drawdown (ft)				0.47				

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments: IN FRONT of 1201 12th St on line with front DOOR Sampled at: 1700

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

_____ + 0.2 * _____ = _____

icon Consultants, Inc.

ROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/8/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	18E1
Observation Period	Start: 820 Stop: 950	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	6"	Depth of Well (ft)	80.97
Initial/Static Depth to Water (ft)	27.17	Length of Water Column (ft)	53.8
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	1.46
One Casing Volume (gal)	78.54	Three Casing Volumes (gal)	235.6
Purge Time, Start	845	Purge Time, Stop	925
Total Purge Time (minutes)	~~84~~ 40	Purge Rate (gpm)	6 gpm
Purge Volume (gal)	240	Depth to Water (ft) at Sampling	27.45

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	13 min	26 min	39 min				At Sampling
TDS (ppm)	239	204	202	201				222
Turbidity (measured or visual) cloudy, clear, muddy	Clear	clear	Cloudy slightly	Clear				Clear
Temperature (C)	19.6	19.0	18.0	18.2				18.3
Conductivity (micromhos)	478	408	409	402				444
pH	6.76	6.77	6.68	6.59				6.53
Dissolved Oxygen (mg/L & %)	6.13	6.63	6.91	7.01				7.13
Comments:								
Depth to Water at End of Purge (ft)				28.78				
Drawdown (ft)				1.61				

MISCELLANEOUS DATA

Condition of Traffic Box: Rock (lake) 6" PVC Cap

Drum Identification labeling: NA.

Water Level Indicator: Solinst

Weather Conditions: clear, breeze

Comments:

Sampled at: 940

Well Recovery Calculation

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

27.17 + 0.2 * 1.61 = 27.49

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 13-01481	Date: 5/8/2014
Project/Location Los Osos Groundwater Monitoring	Well Number: 721
Observation Period Start: 1000 Stop: 1125	Survey Reference Point:
Sampled By: T. DELANEY	Witnessed By:

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	6"	Depth of Well (ft)	46.6
Initial/Static Depth to Water (ft)	8.96	Length of Water Column (ft)	37.64
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	1.46
One Casing Volume (gal)	54.95	Three Casing Volumes (gal)	164.86
Purge Time, Start	1015	Purge Time, Stop	1050
Total Purge Time (minutes)	~~165~~ 35	Purge Rate (gpm)	5 gpm
Purge Volume (gal)	165	Depth to Water (ft) at Sampling	12.52

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	1025	1035	1045				At Sampling
TDS (ppm)	533	501	475	476				454
Turbidity (measured or visual) cloudy, clear, muddy	Sl cloudy	Sl cloudy	Sl cloudy	Sl cloudy				cloudy
Temperature (C)	20.4	19.4	18.7	18.7				19.7
Conductivity (micromhos)	1067	995	954	951				906
pH	7.13	7.12	7.03	6.85				6.87
Dissolved Oxygen (mg/L & %)	1.86	1.83	2.03	3.00				4.14
Comments:								
Depth to Water at End of Purge (ft)				27.84				
Drawdown (ft)				18.88				

MISCELLANEOUS DATA

Condition of Traffic Box: GOOD

Drum Identification labeling: NA

Water Level Indicator: Solinist

Weather Conditions: Clear, Breezy

Sampled at: 1100

Comments:

Well Recovery Calculation

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

8.96 + 0.2 * 18.88 = 12.73

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/8/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	17E9
Observation Period	Start: 1140 Stop: 1310	Survey Reference Point:	
Sampled By:	T. DELANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	200.68
Initial/Static Depth to Water (ft)	92.6	Length of Water Column (ft)	108.08
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	17.29	Three Casing Volumes (gal)	51.87
Purge Time, Start	1205	Purge Time, Stop	1242
Total Purge Time (minutes)	37	Purge Rate (gpm)	1.4
Purge Volume (gal)	52	Depth to Water (ft) at Sampling	92.81

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	12m	24m	36m				At Sampling
TDS (ppm)	296	260	259	258				258
Turbidity (measured or visual) cloudy, clear, muddy	Clear	Clear	clear	Clear				clear
Temperature (C)	20.5	18.9	19.2	20.0				19.3
Conductivity (micromhos)	596	520	517	519				516
pH	7.21	6.95	6.90	6.95				7.06
Dissolved Oxygen (mg/L & %)	5.05	5.26	4.97	5.29				5.68
Comments:								
Depth to Water at End of Purge (ft)				96.47				
Drawdown (ft)				3.87				

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	NA
Water Level Indicator:	Solinst
Weather Conditions:	Clear, Breezy

Comments: Sampled at: 1300

Well Recovery Calculation

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

92.6 + 0.2 * 3.87 = 93.37

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	13-01481	Date:	5/8/2014
Project/Location	Los Osos Groundwater Monitoring	Well Number:	24A
Observation Period	Start: 1320 Stop: 1420	Survey Reference Point:	
Sampled By:	T. DEANEY	Witnessed By:	

PURGING DATA

Type of Pump	PROACTIVE	Pump Inlet Depth (ft)	
Well Diameter (in)	2"	Depth of Well (ft)	167.42
Initial/Static Depth to Water (ft)	157.89	Length of Water Column (ft)	9.53
Product Thickness (ft)	NA	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.52	Three Casing Volumes (gal)	4.57
Purge Time, Start	1335	Purge Time, Stop	1342
Total Purge Time (minutes)	7	Purge Rate (gpm)	
Purge Volume (gal)	5	Depth to Water (ft) at Sampling	157.92

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)	299	330	327	328				329
Turbidity (measured or visual) cloudy, clear, muddy	Muddy	Muddy	cloudy	cloudy				Clear
Temperature (C)	21.8	19.6	19.0	19.0				18.9
Conductivity (micromhos)	595	676	659	658				657
pH	7.40	6.85	6.65	6.62				6.61
Dissolved Oxygen (mg/L & %)	7.21	7.11	7.24	7.28				7.52
Comments:								
Depth to Water at End of Purge (ft)				160.23				
Drawdown (ft)				2.34				

MISCELLANEOUS DATA

Condition of Traffic Box:

Drum Identification labeling:

Water Level Indicator:

Weather Conditions:

Comments: Sampled at: 1350

Well Recovery Calculation

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

157.89 + 0.2 * 2.34 = 158.35

Appendix B

Analytical Laboratory Reports

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Lab ID : CC 1481465
Customer : 8-1084

Laboratory Report

Introduction: This report package contains total of 14 pages divided into 4 sections:

Case Narrative	(3 pages)	: An overview of the work performed at FGL.
Sample Results	(4 pages)	: Results for each sample submitted.
Interpretation	(4 pages)	: Drinking Water Interpretation for each sample submitted.
Quality Control	(3 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
17N4	05/05/2014	05/05/2014	CC 1481465-001	MW
18R1	05/05/2014	05/05/2014	CC 1481465-002	MW
18J6R	05/05/2014	05/05/2014	CC 1481465-003	MW
18L4R	05/05/2014	05/05/2014	CC 1481465-004	MW

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding except those as listed in the table below. The holding time for pH is listed as immediate. Logistically this is very difficult to obtain. FGL policy is to analyze all samples requiring pH on the same day of receipt at the laboratory. If this presents any problem please call.

Lab ID	Analyte/Method	Required Holding Time	Actual Holding Time
CC 1481465-001	pH	15	1783.8 Minutes
CC 1481465-002	pH	15	1738.8 Minutes
CC 1481465-003	pH	15	1603.8 Minutes
CC 1481465-004	pH	15	1573.8 Minutes

All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

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May 27, 2014 Lab ID : CC 1481465
Rincon Consultants, Inc. Customer : 8-1084

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

200.7	05/07/2014:206648 All analysis quality controls are within established criteria.
3010	05/07/2014:205172 All preparation quality controls are within established criteria.

Inorganic - Wet Chemistry QC

2540CE	05/07/2014:205199 All preparation quality controls are within established criteria.
300.0	05/06/2014:206664 All analysis quality controls are within established criteria.
	05/07/2014:206908 All analysis quality controls are within established criteria.
	05/06/2014:205207 All preparation quality controls are within established criteria, except: The following note applies to Chloride, Nitrate: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
	05/07/2014:205466 All preparation quality controls are within established criteria, except: The following note applies to Chloride, Nitrate: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
351.2	05/12/2014:205404 All preparation quality controls are within established criteria.
4500-H B	05/06/2014:205155 All preparation quality controls are within established criteria.
4500HB	05/06/2014:206516 All analysis quality controls are within established criteria.
4500NH3B	05/24/2014:205970 All preparation quality controls are within established criteria, except: The following note applies to Ammonia Nitrogen: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
4500NH3G	05/27/2014:207587 All analysis quality controls are within established criteria.
EPA351.2	05/19/2014:207266 All analysis quality controls are within established criteria.

May 27, 2014 Lab ID : CC 1481465
Rincon Consultants, Inc. Customer : 8-1084

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2014-05-27

May 27, 2014

Lab ID : CC 1481465-001
Customer ID : 8-1084

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Sampled On : May 5, 2014-10:30
Sampled By : T. Delaney
Received On : May 5, 2014-14:45
Matrix : Monitoring Well

Description : 17N4
Project : Los Osos GW Project

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Sodium	28	1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Wet Chemistry[P:1'4]								
Chloride	48	1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrate Nitrogen	7.9	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrogen, Organic	ND	--	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Ammonia Nitrogen	ND	0.2	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrogen, Total as Nitrogen	8	--	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrate + Nitrite as N	7.9	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
pH	6.4	--	units		4500-H B	05/06/14:205155	4500HB	05/06/14:206516
Solids, Total Dissolved (TDS)	200	20	mg/L		2540CE	05/07/14:205199	2540C	05/08/14:206620
Sulfate	17.3	0.5	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

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May 27, 2014

Lab ID : CC 1481465-002
Customer ID : 8-1084

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Sampled On : May 5, 2014-11:15
Sampled By : T. Delaney
Received On : May 5, 2014-14:45
Matrix : Monitoring Well

Description : 18R1
Project : Los Osos GW Project

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.2	0.1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Sodium	56	1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Wet Chemistry[P:1'4]								
Chloride	83	1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrate Nitrogen	18.3	0.2*	mg/L		300.0	05/07/14:205466	300.0	05/07/14:206908
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrogen, Organic	ND	--	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Ammonia Nitrogen	ND	0.2	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrogen, Total as Nitrogen	18	--	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrate + Nitrite as N	18.3	0.2*	mg/L		300.0	05/07/14:205466	300.0	05/07/14:206908
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
pH	6.2	--	units		4500-H B	05/06/14:205155	4500HB	05/06/14:206516
Solids, Total Dissolved (TDS)	360	20	mg/L		2540CE	05/07/14:205199	2540C	05/08/14:206620
Sulfate	23.7	0.5	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

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May 27, 2014

Lab ID : CC 1481465-003
Customer ID : 8-1084

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Sampled On : May 5, 2014-13:30
Sampled By : T. Delaney
Received On : May 5, 2014-14:45
Matrix : Monitoring Well

Description : 18J6R
Project : Los Osos GW Project

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.2	0.1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Sodium	46	1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Wet Chemistry[P:1'4]								
Chloride	51	1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrate Nitrogen	10.8	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrogen, Organic	ND	--	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Ammonia Nitrogen	2.2	0.2	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Kjeldahl Nitrogen	1	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrogen, Total as Nitrogen	12	--	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrate + Nitrite as N	10.8	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Kjeldahl Nitrogen	1	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
pH	6.6	--	units		4500-H B	05/06/14:205155	4500HB	05/06/14:206516
Solids, Total Dissolved (TDS)	320	20	mg/L		2540CE	05/07/14:205199	2540C	05/08/14:206620
Sulfate	22.2	0.5	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

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May 27, 2014

Lab ID : CC 1481465-004
Customer ID : 8-1084

Rincon Consultants, Inc.
Attn: Kelly Steffen
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Sampled On : May 5, 2014-14:00
Sampled By : T. Delaney
Received On : May 5, 2014-14:45
Matrix : Monitoring Well

Description : 18L4R
Project : Los Osos GW Project

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.1	0.1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Sodium	55	1	mg/L		3010	05/07/14:205172	200.7	05/07/14:206648
Wet Chemistry[P:1'4]								
Chloride	106	2*	mg/L		300.0	05/07/14:205466	300.0	05/07/14:206908
Nitrate Nitrogen	19.6	0.2*	mg/L		300.0	05/07/14:205466	300.0	05/07/14:206908
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664
Nitrogen, Organic	ND	--	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Ammonia Nitrogen	ND	0.2	mg/L		4500NH3B	05/24/14:205970	4500NH3G	05/27/14:207587
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrogen, Total as Nitrogen	20	--	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
Nitrate + Nitrite as N	19.6	0.2*	mg/L		300.0	05/07/14:205466	300.0	05/07/14:206908
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/12/14:205404	EPA351.2	05/19/14:207266
pH	6.6	--	units		4500-H B	05/06/14:205155	4500HB	05/06/14:206516
Solids, Total Dissolved (TDS)	520	20	mg/L		2540CE	05/07/14:205199	2540C	05/08/14:206620
Sulfate	30.4	0.5	mg/L		300.0	05/06/14:205207	300.0	05/06/14:206664

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

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May 27, 2014 Lab ID :CC 1481465-001
Rincon Consultants, Inc. Description : 17N4

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	7.9	mg/L	10	Pass	
Nitrate Nitrogen	7.9	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	48	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	200	mg/L	1000	Pass	
Sulfate	17.3	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014 Lab ID :CC 1481465-002
Rincon Consultants, Inc. Description : 18R1

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	18.3	mg/L	10		Fail
Nitrate Nitrogen	18.3	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	83	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	360	mg/L	1000	Pass	
Sulfate	23.7	mg/L	500	Pass	

ND=Non-Detected.

MCL: The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.

Primary: Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.

Secondary: Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.

Treatment: If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014 Lab ID :CC 1481465-003
Rincon Consultants, Inc. Description : 18J6R

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	10.8	mg/L	10		Fail
Nitrate Nitrogen	10.8	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	51	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	320	mg/L	1000	Pass	
Sulfate	22.2	mg/L	500	Pass	

ND=Non-Detected.

MCL: The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.

Primary: Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.

Secondary: Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.

Treatment: If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014 Lab ID :CC 1481465-004
Rincon Consultants, Inc. Description : 18L4R

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	19.6	mg/L	10		Fail
Nitrate Nitrogen	19.6	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	106	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	520	mg/L	1000	Pass	
Sulfate	30.4	mg/L	500	Pass	

ND=Non-Detected.

MCL: The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.

Primary: Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.

Secondary: Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.

Treatment: If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014 Lab ID : CC 1481465
Rincon Consultants, Inc. Customer : 8-1084

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Boron	200.7	05/07/14:206648AC	CCV	ppm	5.000	104 %	90-110	
			CCB	ppm		0.082	0.1	
			CCV	ppm	5.000	102 %	90-110	
			CCB	ppm		0.089	0.1	
			CCV	ppm	5.000	99.7 %	90-110	
			CCB	ppm		0.084	0.1	
Sodium	200.7	05/07/14:206648AC	CCV	ppm	25.00	102 %	90-110	
			CCB	ppm		0.07	1	
			CCV	ppm	25.00	103 %	90-110	
			CCB	ppm		0.34	1	
			CCV	ppm	25.00	98.9 %	90-110	
			CCB	ppm		0.19	1	
Boron	3010	05/07/14:205172ac	Blank	mg/L		ND	<0.1	
			LCS	mg/L	4.000	89.8 %	85-115	
			MS	mg/L	4.000	90.5 %	75-125	
		(CC 1481460-001)	MSD	mg/L	4.000	95.3 %	75-125	
			MSRPD	mg/L	0.8004	4.8%	≤20.0	
			PDS	mg/L	4.000	94.8 %	75-125	
Sodium	3010	05/07/14:205172ac	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	88.6 %	85-115	
			MS	mg/L	12.00	68.0 %	<¼	
		(CC 1481460-001)	MSD	mg/L	12.00	91.3 %	75-125	
			MSRPD	mg/L	0.8004	2.5%	≤20.0	
			PDS	mg/L	12.00	77.0 %	75-125	
Wet Chem								
Solids, Total Dissolved	2540CE	05/07/14:205199CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	998.4	101 %	90-110	
		(CC 1481485-001)	Dup	mg/L		2.1%	10.0	
Chloride	300.0	05/06/14:205207CHL	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	102 %	90-110	
			MS	mg/L	500.0	105 %	94-113	
		(CH 1472697-001)	MSD	mg/L	500.0	104 %	94-113	
			MSRPD	mg/L	100.0	1.0%	≤3	
			MS	mg/L	500.0	104 %	94-113	
		(CH 1472693-001)	MSD	mg/L	500.0	108 %	94-113	
			MSRPD	mg/L	100.0	3.3%	≤3	435
	300.0	05/06/14:206664CHL	CCV	ppm	25.00	103 %	90-110	
			CCV	ppm	25.00	103 %	90-110	
	300.0	05/07/14:205466CHL	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	98.3 %	90-110	
			MS	mg/L	500.0	97.7 %	94-113	
		(CH 1472562-001)	MSD	mg/L	500.0	102 %	94-113	
			MSRPD	mg/L	100.0	4.0%	≤3	435
			MS	mg/L	500.0	102 %	94-113	
		(STK1434129-001)	MSD	mg/L	500.0	103 %	94-113	
			MSRPD	mg/L	100.0	1.6%	≤3	
	300.0	05/07/14:206908CHL	CCV	ppm	25.00	94.1 %	90-110	
			CCV	ppm	25.00	100 %	90-110	
Nitrate	300.0	05/06/14:205207CHL	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	99.0 %	90-110	
			MS	mg/L	400.0	103 %	93-113	
		(CH 1472697-001)	MSD	mg/L	400.0	102 %	93-113	
			MSRPD	mg/L	100.0	0.9%	≤4	
			MS	mg/L	400.0	102 %	93-113	
		(CH 1472693-001)	MSD	mg/L	400.0	107 %	93-113	

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TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

May 27, 2014 Lab ID : CC 1481465
Rincon Consultants, Inc. Customer : 8-1084

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Nitrate	300.0	05/06/14:205207CHL	MSRPD	mg/L	100.0	4.6%	≤4	435
	300.0	05/06/14:206664CHL	CCV	ppm	20.00	99.5 %	90-110	
			CCV	ppm	20.00	100 %	90-110	
	300.0	05/07/14:205466CHL	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	95.6 %	90-110	
			MS	mg/L	400.0	100 %	93-113	
		(VI 1441258-001)	MSD	mg/L	400.0	101 %	93-113	
			MSRPD	mg/L	100.0	0.2%	≤4	
			MS	mg/L	400.0	100 %	93-113	
		(CH 1472676-001)	MSD	mg/L	400.0	99.3 %	93-113	
			MSRPD	mg/L	100.0	0.9%	≤4	
			Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	95.5 %	90-110	
			MS	mg/L	400.0	96.5 %	93-113	
		(CH 1472562-001)	MSD	mg/L	400.0	101 %	93-113	
			MSRPD	mg/L	100.0	4.2%	≤4	435
			MS	mg/L	400.0	100 %	93-113	
		(STK1434129-001)	MSD	mg/L	400.0	102 %	93-113	
			MSRPD	mg/L	100.0	1.6%	≤4	
	300.0	05/07/14:206908CHL	ICV	ppm	40.00	97.8 %	90-110	
			CCV	ppm	20.00	92.4 %	90-110	
			CCV	ppm	20.00	96.4 %	90-110	
Nitrite	300.0	05/06/14:205207CHL	Blank	mg/L		ND	<0.3	
			LCS	mg/L	15.00	104 %	90-110	
			MS	mg/L	300.0	103 %	87-115	
		(CH 1472697-001)	MSD	mg/L	300.0	103 %	87-115	
			MSRPD	mg/L	100.0	0.2%	≤9	
			MS	mg/L	300.0	99.6 %	87-115	
		(CH 1472693-001)	MSD	mg/L	300.0	107 %	87-115	
			MSRPD	mg/L	100.0	6.7%	≤9	
	300.0	05/06/14:206664CHL	CCV	ppm	15.00	106 %	90-110	
			CCV	ppm	15.00	107 %	90-110	
Sulfate	300.0	05/06/14:205207CHL	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102 %	90-110	
			MS	mg/L	1000	105 %	92-113	
		(CH 1472697-001)	MSD	mg/L	1000	104 %	92-113	
			MSRPD	mg/L	100.0	1.0%	≤4	
			MS	mg/L	1000	104 %	92-113	
		(CH 1472693-001)	MSD	mg/L	1000	108 %	92-113	
			MSRPD	mg/L	100.0	4.0%	≤4	
	300.0	05/06/14:206664CHL	CCV	ppm	50.00	103 %	90-110	
			CCV	ppm	50.00	103 %	90-110	
Nitrogen, Total Kjeldahl	351.2	05/12/14:205404CJJ	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	100 %	73-124	
			MS	mg/L	12.00	94.8 %	54-136	
		(CC 1481465-001)	MSD	mg/L	12.00	102 %	54-136	
			MSRPD	mg/L	12.00	7.6%	≤27	
pH	4500-H B	(CC 1481465-001)	Dup	units		0.0%	4.80	
	4500HB	05/06/14:206516CJJ	CCV	units	8.000	99.6 %	95-105	
			CCV	units	8.000	99.6 %	95-105	
Ammonia Nitrogen	4500NH3B	05/24/14:205970CJJ	Blank	mg/L		ND	<0.2	
			LCS	mg/L	6.000	78.5 %	68-103	
			MS	mg/L	6.000	73.6 %	74-105	
		(CC 1481465-001)	MSD	mg/L	6.000	80.6 %	74-105	

May 27, 2014 Lab ID : CC 1481465

Rincon Consultants, Inc. Customer : 8-1084

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Ammonia Nitrogen	4500NH3B	05/24/14:205970CJJ	MSRPD	mg/L	6.000	9.0%	≤7	435
	4500NH3G	05/27/14:207587AMB	CCB	mg/L		-0.032	0.2	
			CCV	mg/L	2.000	110 %	90-110	
			CCB	mg/L		-0.024	0.2	
			CCV	mg/L	2.000	109 %	90-110	
Nitrogen, Total Kjeldahl	EPA351.2	05/19/14:207266AMB	CCB	mg/L		0.000	0.5	
			CCV	mg/L	5.000	90.0 %	90-110	
			CCB	mg/L		0.000	0.5	
			CCV	mg/L	5.000	93.1 %	90-110	
			CCB	mg/L		0.000	0.5	
			CCV	mg/L	5.000	104 %	90-110	

Definition

PDS	: PDS failed, matrix - Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte.
ICV	: Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
Dup	: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.
<¼	: High Sample Background - Spike concentration was less than one forth of the sample concentration.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

Explanation

435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Laboratory Copy (1 of 3)

80962:05/01/2014

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: Rincon Consultants, Inc.
Address: Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Phone: (760)918-9444 ext 212 Fax: (760)918-9449
Contact Person: Kelly Steffen
Project Name: Los Osos GW Project
Purchase Order Number:
Quote Number: SP 20131230-02

Sampler(s) T. DELANEY

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: CC 1481465 8-1084

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Metals, Total-B,Na 250ml(P)-HNO3	Wet Chemistry-SO4,TDS,pH,TKN,Total N,N-Organic,NO2-N,NO3-N,Cl,NH3-N 32oz(P), 16oz(P)-H2SO4	Sampling-Pickup							
1	17N4	5/5/14	1030	G	MW				1	1,1	X							
2	18R1	5/5/14	1115	G	MW				1	1,1								
3	18J6	5/5/14	1230	G	MW				1	1,1								
4	~~18L4~~ 18H5	5/5/14	1400	G	MW				1	1,1								
5				G	MW				1	1,1								
6				G	MW				1	1,1								
7				G	MW				1	1,1								
8				G	MW				1	1,1								
9				G	MW				1	1,1								
10				G	MW				1	1,1								

Remarks: RGS

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	5/5/14	2:45	[signature]	5/5/14	1700	[signature]		
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
[signature]			OnTrac			[signature]	5/6/14	1100

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Inter-Laboratory Condition Upon Receipt (Attach to COC) CC1481465

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: 20T / ___ / ___ / ___ / ___
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	VOAs checked for Headspace?	Yes	No	N/A
6.	Were sample custody seals intact?	Yes	No	N/A
7.	If required, was sample split for pH analysis?	Yes	No	N/A
8.	Were all analyses within holding times at time of receipt?	Yes	No	
9.	Verify sample date, time sampler	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): JK

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2 / ___ / ___ / ___ / ___
   Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers:
   D1001 0679385 314

3.	Do the number of bottles received agree with the COC?	Yes	No	N/A
4.	Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5.	Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1.	Were all requested analyses understood and acceptable?	Yes	No		
2.	Did bottle labels correspond with the client's ID's?	Yes	No		
3.	Were all bottles requiring sample preservation properly preserved?	Yes	No	N/A	FGL
4.	VOAs checked for Headspace?	Yes	No	N/A	
5.	Have rush or project due dates been checked and accepted?	Yes	No	N/A	

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): SB

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: Jayna @ Crofice Phone Number:
   Initiated By: SB Date: 5/6/14
   Problem: -3 COC says 1856 / -4 COC says 1844r
   Resolution: -3 bottle says 1856r / -4 bottle says 1842r
2. Person Contacted: Phone Number:
   Initiated By:
   Problem:
   Resolution:

(8-1084)
Rincon Consultants, Inc.
CC 1481465
IV-05/06/2014-08:07:06

(Please use the back of this sheet for additiona contacts)

ıber here

Jayna spoke w/ client - bottles are correct - Please change COC

May 27, 2014

Lab ID : CC 1481526-001
Customer ID : 8-1084

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Sampled On : May 5, 2014-14:30
Sampled By : T. Delaney
Received On : May 6, 2014-15:15
Matrix : Monitoring Well

Description : 18L3r
Project : Los Osos GW Project

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Sodium	26	1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Wet Chemistry[P:1]								
Chloride	32	1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate Nitrogen	5.6	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate + Nitrite as N	5.6	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
pH	6.8	--	units		4500-H B	05/07/14:205231	4500HB	05/07/14:206601
Solids, Total Dissolved (TDS)	170	20	mg/L		2540CE	05/08/14:205273	2540C	05/09/14:206708
Sulfate	10.7	0.5	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 18N1r
Project : Los Osos GW Project

Lab ID : CC 1481526-002
Customer ID : 8-1084

Sampled On : May 6, 2014-08:40
Sampled By : T. Delaney
Received On : May 6, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.2	0.1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Sodium	65	1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Wet Chemistry[P:1]								
Chloride	108	1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate Nitrogen	27.8	0.5*	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrogen, Total as Nitrogen	27.8	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	27.8	0.5*	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Kjeldahl Nitrogen	ND	0.5	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.7	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	420	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	35.1	0.5	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 13L5r
Project : Los Osos GW Project

Lab ID : CC 1481526-003
Customer ID : 8-1084

Sampled On : May 6, 2014-10:15
Sampled By : T. Delaney
Received On : May 6, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Sodium	97	1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Wet Chemistry[P:1]								
Chloride	99	1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate Nitrogen	17.2	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate + Nitrite as N	17.2	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
pH	6.5	--	units		4500-H B	05/07/14:205231	4500HB	05/07/14:206601
Solids, Total Dissolved (TDS)	430	20	mg/L		2540CE	05/08/14:205273	2540C	05/09/14:206708
Sulfate	13.0	0.5	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 13G
Project : Los Osos GW Project

Lab ID : CC 1481526-004
Customer ID : 8-1084

Sampled On : May 6, 2014-11:15
Sampled By : T. Delaney
Received On : May 6, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Sodium	63	1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Wet Chemistry[P:1]								
Chloride	129	2*	mg/L		300.0	05/16/14:205782	300.0	05/17/14:207325
Nitrate Nitrogen	15.3	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate + Nitrite as N	15.3	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
pH	6.5	--	units		4500-H B	05/07/14:205231	4500HB	05/07/14:206601
Solids, Total Dissolved (TDS)	420	20	mg/L		2540CE	05/08/14:205273	2540C	05/09/14:206708
Sulfate	18.9	0.5	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 13H
Project : Los Osos GW Project

Lab ID : CC 1481526-005
Customer ID : 8-1084

Sampled On : May 6, 2014-12:30
Sampled By : T. Delaney
Received On : May 6, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Sodium	16	1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Wet Chemistry[P:1]								
Chloride	26	1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrate Nitrogen	4.0	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrogen, Total as Nitrogen	4	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	4.0	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.7	--	units		4500-H B	05/07/14:205231	4500HB	05/07/14:206601
Solids, Total Dissolved (TDS)	180	20	mg/L		2540CE	05/08/14:205273	2540C	05/09/14:206708
Sulfate	18.5	0.5	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 18C1r
Project : Los Osos GW Project

Lab ID : CC 1481526-006
Customer ID : 8-1084

Sampled On : May 6, 2014-14:30
Sampled By : T. Delaney
Received On : May 6, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.1	0.1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Sodium	80	1	mg/L		3010	05/08/14:205254	200.7	05/08/14:206710
Wet Chemistry[P:1]								
Chloride	163	2*	mg/L		300.0	05/16/14:205782	300.0	05/17/14:207325
Nitrate Nitrogen	18.7	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Nitrogen, Total as Nitrogen	19	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	18.7	0.1	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.7	--	units		4500-H B	05/07/14:205231	4500HB	05/07/14:206601
Solids, Total Dissolved (TDS)	490	20	mg/L		2540CE	05/08/14:205273	2540C	05/09/14:206708
Sulfate	39.2	0.5	mg/L		300.0	05/07/14:205453	300.0	05/07/14:206906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481526-001
Description : 18L3r

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	5.6	mg/L	10	Pass	
Nitrate Nitrogen	5.6	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	32	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	170	mg/L	1000	Pass	
Sulfate	10.7	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481526-002
Description : 18N1r

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	27.8	mg/L	10		Fail
Nitrate Nitrogen	27.8	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	108	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	420	mg/L	1000	Pass	
Sulfate	35.1	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481526-003
Description : 13L5r

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	17.2	mg/L	10		Fail
Nitrate Nitrogen	17.2	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	99	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	430	mg/L	1000	Pass	
Sulfate	13.0	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481526-004
Description : 13G

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	15.3	mg/L	10		Fail
Nitrate Nitrogen	15.3	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	129	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	420	mg/L	1000	Pass	
Sulfate	18.9	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481526-005
Description : 13H

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	4.0	mg/L	10	Pass	
Nitrate Nitrogen	4.0	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	26	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	180	mg/L	1000	Pass	
Sulfate	18.5	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481526-006
Description : 18C1r

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	18.7	mg/L	10		Fail
Nitrate Nitrogen	18.7	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	163	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	490	mg/L	1000	Pass	
Sulfate	39.2	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 18B1r
Project : Los Osos GW Project

Lab ID : CC 1481535-001
Customer ID : 8-1084

Sampled On : May 6, 2014-18:20
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.2	0.1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Sodium	67	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	175	2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	18.3	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	18	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	18.3	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.5	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	570	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	45.7	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 7R1r
Project : Los Osos GW Project

Lab ID : CC 1481535-002
Customer ID : 8-1084

Sampled On : May 6, 2014-19:30
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.2	0.1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Sodium	65	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	151	2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	21.9	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	22	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	21.9	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.6	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	500	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	39.3	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 7L3r
Project : Los Osos GW Project

Lab ID : CC 1481535-003
Customer ID : 8-1084

Sampled On : May 7, 2014-08:00
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.2	0.1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Sodium	70	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	132	2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	22.0	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	22	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	22.0	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.9	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	470	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	35.2	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 7N1
Project : Los Osos GW Project

Lab ID : CC 1481535-004
Customer ID : 8-1084

Sampled On : May 7, 2014-09:00
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Sodium	22	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	37	1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	6.3	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	6	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	6.3	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	7.4	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	200	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	8.6	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 17F4
Project : Los Osos GW Project

Lab ID : CC 1481535-005
Customer ID : 8-1084

Sampled On : May 7, 2014-10:00
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Sodium	60	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	132	2*	mg/L		300.0	05/21/14:205875	300.0	05/21/14:207437
Nitrate Nitrogen	1.0	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	1	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	1.0	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.8	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	380	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	15.6	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 17D
Project : Los Osos GW Project

Lab ID : CC 1481535-006
Customer ID : 8-1084

Sampled On : May 7, 2014-10:20
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/09/14:205311	200.7	05/12/14:206872
Sodium	51	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	85	1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	19.6	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	20	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	19.6	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	7.0	--	units		4500-H B	05/08/14:205292	4500HB	05/08/14:206687
Solids, Total Dissolved (TDS)	340	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	22.8	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 13Q1r
Project : Los Osos GW Project

Lab ID : CC 1481535-007
Customer ID : 8-1084

Sampled On : May 7, 2014-11:55
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/09/14:205311	200.7	05/12/14:206872
Sodium	78	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	176	2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	29.9	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	30	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	29.9	0.2*	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	6.5	--	units		4500-H B	05/12/14:205422	4500HB	05/12/14:206830
Solids, Total Dissolved (TDS)	580	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	26.4	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 8N2r
Project : Los Osos GW Project

Lab ID : CC 1481535-008
Customer ID : 8-1084

Sampled On : May 7, 2014-13:00
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/09/14:205311	200.7	05/12/14:206872
Sodium	8	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	16	1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	3.5	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	4	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	3.5	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	7.1	--	units		4500-H B	05/12/14:205422	4500HB	05/12/14:206830
Solids, Total Dissolved (TDS)	90	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	4.8	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 8MA
Project : Los Osos GW Project

Lab ID : CC 1481535-009
Customer ID : 8-1084

Sampled On : May 7, 2014-14:45
Sampled By : T. Delaney
Received On : May 7, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.1	0.1	mg/L		3010	05/09/14:205311	200.7	05/12/14:206872
Sodium	27	1	mg/L		3010	05/09/14:205311	200.7	05/09/14:206783
Wet Chemistry[P:1]								
Chloride	48	1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrate Nitrogen	2.3	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Nitrogen, Total as Nitrogen	2	--	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
Nitrate + Nitrite as N	2.3	0.1	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947
Kjeldahl Nitrogen	ND	1	mg/L		351.2	05/16/14:205633	EPA351.2	05/27/14:207601
pH	7.4	--	units		4500-H B	05/12/14:205422	4500HB	05/12/14:206830
Solids, Total Dissolved (TDS)	190	20	mg/L		2540CE	05/09/14:205331	2540C	05/12/14:206782
Sulfate	8.1	0.5	mg/L		300.0	05/08/14:205478	300.0	05/08/14:206947

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-001
Description : 18B1r

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	18.3	mg/L	10		Fail
Nitrate Nitrogen	18.3	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	175	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	570	mg/L	1000	Pass	
Sulfate	45.7	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-002
Description : 7R1r

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	21.9	mg/L	10		Fail
Nitrate Nitrogen	21.9	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	151	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	500	mg/L	1000	Pass	
Sulfate	39.3	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-003
Description : 7L3r

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	22.0	mg/L	10		Fail
Nitrate Nitrogen	22.0	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	132	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	470	mg/L	1000	Pass	
Sulfate	35.2	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-004
Description : 7N1

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	6.3	mg/L	10	Pass	
Nitrate Nitrogen	6.3	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	37	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	200	mg/L	1000	Pass	
Sulfate	8.6	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-005
Description : 17F4

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	1.0	mg/L	10	Pass	
Nitrate Nitrogen	1.0	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	132	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	380	mg/L	1000	Pass	
Sulfate	15.6	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-006
Description : 17D

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	19.6	mg/L	10		Fail
Nitrate Nitrogen	19.6	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	85	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	340	mg/L	1000	Pass	
Sulfate	22.8	mg/L	500	Pass	

ND=Non-Detected.

MCL: The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.

Primary: Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.

Secondary: Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.

Treatment: If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-007
Description : 13Q1r

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	29.9	mg/L	10		Fail
Nitrate Nitrogen	29.9	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	176	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	580	mg/L	1000	Pass	
Sulfate	26.4	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-008
Description : 8N2r

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	3.5	mg/L	10	Pass	
Nitrate Nitrogen	3.5	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	16	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	90	mg/L	1000	Pass	
Sulfate	4.8	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481535-009
Description : 8MA

Drinking Water Interpretation

Summary: Your Water was acceptable for all items tested on this sample report. Details are presented below:

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	2.3	mg/L	10	Pass	
Nitrate Nitrogen	2.3	mg/L	10	Pass	
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	48	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	190	mg/L	1000	Pass	
Sulfate	8.1	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 7K3r
Project : Los Osos GW Project

Lab ID : CC 1481571-001
Customer ID : 8-1084

Sampled On : May 7, 2014-17:00
Sampled By : T. Delaney
Received On : May 8, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.1	0.1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Sodium	86	1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Wet Chemistry[P:1]								
Chloride	153	2*	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate Nitrogen	19.2	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate + Nitrite as N	19.2	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
pH	7.1	--	units		4500-H B	05/12/14:205422	4500HB	05/12/14:206830
Solids, Total Dissolved (TDS)	550	20	mg/L		2540CE	05/12/14:205396	2540C	05/13/14:206860
Sulfate	39.5	0.5	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Lab ID : CC 1481571-002
Customer ID : 8-1084

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Sampled On : May 8, 2014-09:40
Sampled By : T. Delaney
Received On : May 8, 2014-15:15
Matrix : Monitoring Well

Description : 18E1
Project : Los Osos GW Project

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Sodium	44	1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Wet Chemistry[P:1]								
Chloride	71	1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate Nitrogen	10.9	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate + Nitrite as N	10.9	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
pH	6.8	--	units		4500-H B	05/12/14:205422	4500HB	05/12/14:206830
Solids, Total Dissolved (TDS)	310	20	mg/L		2540CE	05/12/14:205396	2540C	05/13/14:206860
Sulfate	19.8	0.5	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 7Q1
Project : Los Osos GW Project

Lab ID : CC 1481571-003
Customer ID : 8-1084

Sampled On : May 8, 2014-11:00
Sampled By : T. Delaney
Received On : May 8, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	0.3	0.1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Sodium	123	1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Wet Chemistry[P:1]								
Chloride	171	2*	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate Nitrogen	10.8	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate + Nitrite as N	10.8	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
pH	7.0	--	units		4500-H B	05/13/14:205495	4500HB	05/13/14:206919
Solids, Total Dissolved (TDS)	560	20	mg/L		2540CE	05/12/14:205396	2540C	05/13/14:206860
Sulfate	44.3	0.5	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 17E9
Project : Los Osos GW Project

Lab ID : CC 1481571-004
Customer ID : 8-1084

Sampled On : May 8, 2014-13:00
Sampled By : T. Delaney
Received On : May 8, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Sodium	42	1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Wet Chemistry[P:1]								
Chloride	61	1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate Nitrogen	17.1	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate + Nitrite as N	17.1	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
pH	7.2	--	units		4500-H B	05/13/14:205495	4500HB	05/13/14:206919
Solids, Total Dissolved (TDS)	390	20	mg/L		2540CE	05/12/14:205396	2540C	05/13/14:206860
Sulfate	20.8	0.5	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014

Rincon Consultants, Inc.
Attn: Kelly Steffen
5135 Avenida Encinas, Suite A
Carlsbad, CA 92008

Description : 24A
Project : Los Osos GW Project

Lab ID : CC 1481571-005
Customer ID : 8-1084

Sampled On : May 8, 2014-13:50
Sampled By : T. Delaney
Received On : May 8, 2014-15:15
Matrix : Monitoring Well

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total[P:1'5]								
Boron	ND	0.1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Sodium	53	1	mg/L		3010	05/13/14:205444	200.7	05/13/14:206926
Wet Chemistry[P:1]								
Chloride	173	2*	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate Nitrogen	17.4	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrate + Nitrite as N	17.4	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
Nitrite Nitrogen	ND	0.1	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195
pH	6.7	--	units		4500-H B	05/13/14:205495	4500HB	05/13/14:206919
Solids, Total Dissolved (TDS)	500	20	mg/L		2540CE	05/12/14:205396	2540C	05/13/14:206860
Sulfate	6.0	0.5	mg/L		300.0	05/09/14:205663	300.0	05/09/14:207195

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: H2SO4 pH < 2, HNO3 pH < 2 ‡Surrogate. * PQL adjusted for dilution.

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481571-001
Description : 7K3r

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	19.2	mg/L	10		Fail
Nitrate Nitrogen	19.2	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	153	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	550	mg/L	1000	Pass	
Sulfate	39.5	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481571-002
Description : 18E1

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	10.9	mg/L	10		Fail
Nitrate Nitrogen	10.9	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	71	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	310	mg/L	1000	Pass	
Sulfate	19.8	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481571-003
Description : 7Q1

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	10.8	mg/L	10		Fail
Nitrate Nitrogen	10.8	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	171	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	560	mg/L	1000	Pass	
Sulfate	44.3	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481571-004
Description : 17E9

Drinking Water Interpretation

Summary: **Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.**

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	17.1	mg/L	10		Fail
Nitrate Nitrogen	17.1	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	61	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	390	mg/L	1000	Pass	
Sulfate	20.8	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment

May 27, 2014
Rincon Consultants, Inc.

Lab ID :CC 1481571-005
Description : 24A

Drinking Water Interpretation

Summary: Your water has a failure for one or more items on this sample report. Please see the table below to determine which items failed. Following the table is a brief explanation describing the significance of the failure and whether treatment may be required.

CONSTITUENT	RESULT	UNITS	MCL	MCL LESS OR EQUAL	MCL EXCEED
Inorganic - Primary					
Nitrate + Nitrite as N	17.4	mg/L	10		Fail
Nitrate Nitrogen	17.4	mg/L	10		Fail
Nitrite Nitrogen	ND	mg/L	1	Pass	
Inorganic - Secondary					
Chloride	173	mg/L	500	Pass	
Solids, Total Dissolved (TDS)	500	mg/L	1000	Pass	
Sulfate	6.0	mg/L	500	Pass	

ND=Non-Detected.

MCL: **The maximum level at which a constituent may be present and be considered acceptable for potability or aesthetics.**

Primary: **Items listed as primary are regulated because of health concerns. If there is a failure for a primary constituent treatment is normally required.**

Secondary: **Items listed as secondary are regulated because they may adversely affect the taste, odor or appearance of drinking water. They are not directly health related. If there is a failure for a secondary constituent on a small public water system it is best to consult your regulator to determine if treatment is required. A secondary constituent failure for a private water system does not require treatment. However, the owner may wish to treat the water in order to improve the quality.**

Treatment: **If your water requires treatment we suggest that you contact a qualified water treatment company. They are normally listed in the yellow pages under the following topics:**

Water Purification & Filtration Equipment
Water Softening & Conditioning Equipment
Water Treatment Equipment