

April 11, 2014  
**Romaldo Water**  
 5587 West Camino Circle  
 Santa Barbara, CA 93120

SP 1403656:1 **IRON BACTERIA ACTIVITY ANALYSIS**  
 Customer ID : 2-24644  
 System Number :  
 Project Name : Water Quality

### Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1403656-001	Well	N/A	Toby Baca	FGL Environmental	03/31/2014 10:10	03/31/2014 17:29 lm	04/09/2014 lm

### Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Iron Bio-Activity	Person Notified‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	Well	0.02/---	---	BART	CFU/ml	9000	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence

‡ Client Notification details.

Analyses were performed using Standard Methods 20th edition. If you have any questions regarding your results, please call.

RRH:SMH

Reviewed and  
Approved By

**Raquel R. Harvey**



Digitally signed by Raquel R. Harvey  
Title: Tech Director Microbiology  
Date: 2014-04-11

April 14, 2014  
**Romaldo Water**  
 5587 West Camino Circle  
 Santa Barbara, CA 93120

**SP 1403656:2 SULFATE REDUCING BACTERIA ANALYSIS**  
 Customer ID : 2-24644  
 System Number :  
 Project Name : Water Quality

### Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1403656-002	Well - Dup for reporting	Source-Other	Toby Baca	FGL Environmental	03/31/2014 10:10	03/31/2014 17:28 lm	04/09/2014 lm

### Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	SRB	Person Notified‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	Well - Dup for reporting	---	---	BART	CFU/ml	ND	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence

‡ Client Notification details.

Analyses were performed using Standard Methods 20th edition. If you have any questions regarding your results, please call.

RRH:SMH

Reviewed and  
Approved By

**Raquel R. Harvey**



Digitally signed by Raquel R. Harvey  
 Title: Tech Director Microbiology  
 Date: 2014-04-14

April 11, 2014

**Romaldo Water**  
 5587 West Camino Circle  
 Santa Barbara, CA 93120

Lab ID : SP 1403656  
 Customer : 2-24644

### Laboratory Report

**Introduction:** This report package contains total of 10 pages divided into 4 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Interpretation	(1 page)	: Drinking Water Interpretation for each sample submitted.
Quality Control	(5 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
Well	03/31/2014	03/31/2014	SP 1403656-001	GW

**Sampling and Receipt Information:** The sample was performed by FGL using the following methods (where applicable):

Bacteriological Sampling	- SOP:200900141
Grab sampling for liquids	- SOP:200900137
Composite sampling for liquids	- SOP:200900139
Grab sampling for solids	- SOP:200900142
Composite sampling for solids	- SOP:200900143

All samples were received, prepared and analyzed within the method specified holding times. 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.

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

### Inorganic - Metals QC

200.7	04/10/2014:205175 All analysis quality controls are within established criteria.
	04/10/2014:204062 All preparation quality controls are within established criteria, except: The following note applies to Potassium: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Boron, Copper, Iron, Potassium, Manganese, Zinc: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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### Inorganic - Metals QC

200.8	04/02/2014:204706 All analysis quality controls are within established criteria.
	04/02/2014:203681 All preparation quality controls are within established criteria, except: The following note applies to Silver, Beryllium, Cadmium, Nickel, Lead, Antimony, Thallium: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
245.1	04/02/2014:204707 All analysis quality controls are within established criteria.
	04/02/2014:203242 All preparation quality controls are within established criteria.

### Inorganic - Wet Chemistry QC

2320B	04/04/2014:204856 All analysis quality controls are within established criteria.
	04/04/2014:203784 All preparation quality controls are within established criteria, except: The following note applies to Alkalinity (as CaCO <sub>3</sub> ), Bicarbonate: 440 Sample nonhomogeneity may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
2510B	04/02/2014:204658 All analysis quality controls are within established criteria.
	04/02/2014:203673 All preparation quality controls are within established criteria.
2540CE	04/01/2014:203620 All preparation quality controls are within established criteria.
300.0	04/01/2014:204943 All analysis quality controls are within established criteria.
	04/01/2014:203892 All preparation quality controls are within established criteria.
5540C	04/02/2014:204946 All analysis quality controls are within established criteria.
	04/02/2014:203754 All preparation quality controls are within established criteria.

**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: 2014-04-11



April 11, 2014

Lab ID : SP 1403656-001

Customer ID : 2-24644

**Romaldo Water**

5587 West Camino Circle

Santa Barbara, CA 93120

Sampled On : March 31, 2014-10:10

Sampled By : Toby Baca

Received On : March 31, 2014-15:20

Matrix : Ground Water

Description : Well

Project : Water Quality

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>General Mineral</b> <sup>P:15</sup>								
Total Hardness as CaCO <sub>3</sub>	303	--	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Calcium	85	1	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Magnesium	22	1	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Potassium	ND	1	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Sodium	28	1	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Total Cations	7.3	--	meq/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Boron	0.1	0.1	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Copper	ND	10	ug/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Iron	180	50	ug/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Manganese	50	10	ug/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Zinc	ND	20	ug/L		200.7	04/10/14:204062	200.7	04/10/14:205175
SAR	0.7	--	--		200.7	04/10/14:204062	200.7	04/10/14:205175
Total Alkalinity (as CaCO <sub>3</sub> )	170	10	mg/L		2320B	04/04/14:203784	2320B	04/04/14:204856
Hydroxide as OH	ND	10	mg/L		2320B	04/04/14:203784	2320B	04/04/14:204856
Carbonate as CO <sub>3</sub>	ND	10	mg/L		2320B	04/04/14:203784	2320B	04/04/14:204856
Bicarbonate as HCO <sub>3</sub>	210	10	mg/L		2320B	04/04/14:203784	2320B	04/04/14:204856
Sulfate	102	2	mg/L		300.0	04/01/14:203892	300.0	04/01/14:204943
Chloride	34	1	mg/L		300.0	04/01/14:203892	300.0	04/01/14:204943
Nitrate	0.5	0.4	mg/L		300.0	04/01/14:203892	300.0	04/01/14:204943
Nitrite as N	ND	--	mg/L		300.0	04/01/14:203892	300.0	04/01/14:204943
Nitrate + Nitrite as N	0.1	0.1	mg/L		300.0	04/01/14:203892	300.0	04/01/14:204943
Fluoride	0.1	0.1	mg/L		300.0	04/01/14:203892	300.0	04/01/14:204943
Total Anions	6.5	--	meq/L		2320B	04/04/14:203784	2320B	04/04/14:204856
pH (Field)	7.3	--	units		4500-H B	03/31/14:204111	4500HB	03/31/14:205192
Specific Conductance	723	1	umhos/cm		2510B	04/02/14:203673	2510B	04/02/14:204658
Total Dissolved Solids	460	20	mg/L		2540CE	04/01/14:203620	2540C	04/02/14:204643
MBAS Extraction	ND	0.1	mg/L		5540C	04/02/14:203754	5540C	04/02/14:204946
Aggressiveness Index	11.9	--	--		4500-H B	03/31/14:204111	4500HB	03/31/14:205192
Langelier Index (20°C)	-0.005	--	--		4500-H B	03/31/14:204111	4500HB	03/31/14:205192
<b>Metals, Total</b> <sup>P:15</sup>								
Aluminum	ND	10	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Antimony	ND	1	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Arsenic	ND	2	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Barium	6.0	0.2	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Beryllium	ND	1	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706

April 11, 2014  
 Description : Well

Lab ID : SP 1403656-001  
 Customer ID : 2-24644

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total</b> <sup>P:15</sup>								
Cadmium	ND	0.2	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Chromium	2	1	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Lead	ND	0.5	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Mercury	ND	0.02	ug/L		245.1	04/02/14:203242	245.1	04/02/14:204707
Nickel	ND	1	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Selenium	ND	1	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Silver	ND	1	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Sulfur	35	1	mg/L		200.7	04/10/14:204062	200.7	04/10/14:205175
Thallium	ND	0.2	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706
Vanadium	ND	2	ug/L		200.8	04/02/14:203681	200.8	04/02/14:204706

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

April 11, 2014  
**Romaldo Water**

Lab ID :SP 1403656-001  
 Description : Well

### 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	EXCEED
<b>Inorganic - Primary</b>					
Aluminum	ND	ug/L	1000	Pass	
Antimony	ND	ug/L	6	Pass	
Arsenic	ND	ug/L	10	Pass	
Barium	6.0	ug/L	1000	Pass	
Beryllium	ND	ug/L	4	Pass	
Cadmium	ND	ug/L	5	Pass	
Chromium	2	ug/L	50	Pass	
Fluoride	0.1	mg/L	2	Pass	
Mercury	ND	ug/L	2	Pass	
Nickel	ND	ug/L	100	Pass	
Nitrate	0.5	mg/L	45	Pass	
Nitrate + Nitrite as N	0.1	mg/L	10	Pass	
Nitrite as N	ND	mg/L	1	Pass	
Selenium	ND	ug/L	50	Pass	
Thallium	ND	ug/L	2	Pass	
<b>Inorganic - Secondary</b>					
Aluminum	ND	ug/L	200	Pass	
Chloride	34	mg/L	500	Pass	
Copper	ND	ug/L	1000	Pass	
<b>Iron</b>	<b>180</b>	<b>ug/L</b>	<b>300</b>	Pass	
<b>Manganese</b>	<b>50</b>	<b>ug/L</b>	<b>50</b>	Pass	
MBAS (foaming agents)	ND	mg/L	0.5	Pass	
Silver	ND	ug/L	100	Pass	
Specific Conductance	723	umhos/cm	1600	Pass	
<b>Sulfate</b>	<b>102</b>	<b>mg/L</b>	<b>500</b>	Pass	
Total Dissolved Solids	460	mg/L	1000	Pass	
<b>Other</b>					
Copper	ND	ug/L	1300**	Pass	

ND=Non-Detected. \*\* Federal Action Level Title 22, Section 64672.3

April 11, 2014  
Romaldo Water

Lab ID :SP 1403656-001  
Description : Well

## **Drinking Water Interpretation**

**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**



April 11, 2014  
**Romaldo Water**

Lab ID : SP 1403656  
Customer : 2-24644

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b> Boron	200.7	(SP 1403656-001)	MS	mg/L	4.000	80.2 %	75-125	435
			MSD	mg/L	4.000	116 %	75-125	
			MSRPD	mg/L	800.4	35.9%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	5.000	101 %	90-110	
CCB			ppm		0.076	0.1		
CCV			ppm	5.000	102 %	90-110		
CCB			ppm		0.062	0.1		
Calcium	200.7	(SP 1403656-001)	MS	mg/L	12.00	63.9 %	<¼	
			MSD	mg/L	12.00	93.7 %	75-125	
			MSRPD	mg/L	800.4	3.8%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	25.00	99.9 %	90-110	
CCB			ppm		0.01	1		
CCV			ppm	25.00	101 %	90-110		
CCB			ppm		0.005	1		
Copper	200.7	(SP 1403656-001)	MS	ug/L	800.0	84.3 %	75-125	435
			MSD	ug/L	800.0	119 %	75-125	
			MSRPD	ug/L	800.4	34.0%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	1.000	102 %	90-110	
CCB			ppm		0.0006	0.01		
CCV			ppm	1.000	104 %	90-110		
CCB			ppm		0.0006	0.01		
Iron	200.7	(SP 1403656-001)	MS	ug/L	4000	83.4 %	75-125	435
			MSD	ug/L	4000	117 %	75-125	
			MSRPD	ug/L	800.4	31.9%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	5.000	101 %	90-110	
CCB			ppm		-0.0129	0.05		
CCV			ppm	5.000	103 %	90-110		
CCB			ppm		-0.0123	0.05		
Magnesium	200.7	(SP 1403656-001)	MS	mg/L	12.00	78.5 %	75-125	
			MSD	mg/L	12.00	113 %	75-125	
			MSRPD	mg/L	800.4	12.2%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	25.00	100 %	90-110	
CCB			ppm		0.006	1		
CCV			ppm	25.00	102 %	90-110		
CCB			ppm		0.007	1		
Manganese	200.7	(SP 1403656-001)	MS	ug/L	800.0	83.4 %	75-125	435
			MSD	ug/L	800.0	118 %	75-125	
			MSRPD	ug/L	800.4	32.3%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	1.000	101 %	90-110	
CCB			ppm		0.0002	0.01		
CCV			ppm	1.000	103 %	90-110		
CCB			ppm		0.0002	0.01		
Potassium	200.7	(SP 1403656-001)	MS	mg/L	12.00	93.9 %	75-125	435
			MSD	mg/L	12.00	133 %	75-125	
			MSRPD	mg/L	800.4	32.2%	≤20.0	435
	200.7	04/10/14:205175AC	CCV	ppm	25.00	104 %	90-110	
CCB			ppm		-0.12	1		
CCV			ppm	25.00	106 %	90-110		
CCB			ppm		-0.1	1		
Sodium	200.7	(SP 1403656-001)	MS	mg/L	12.00	82.4 %	75-125	
			MSD	mg/L	12.00	119 %	75-125	
			MSRPD	mg/L	800.4	10.8%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	25.00	99.3 %	90-110	
CCB			ppm		-0.09	1		
CCV			ppm	25.00	101 %	90-110		

April 11, 2014  
 Romaldo Water

Lab ID : SP 1403656  
 Customer : 2-24644

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Sodium	200.7	04/10/14:205175AC	CCB	ppm		-0.10	1	
Sulfur	200.7	(SP 1403656-001)	MS	mg/L	2.400	43.3 %	<¼	
			MSD	mg/L	2.400	77.8 %	75-125	
			MSRPD	mg/L	800.4	2.3%	≤20.0	
	200.7	04/10/14:205175AC	CCV	ppm	5.000	104 %	90-110	
			CCB	ppm		0.06	1	
			CCV	ppm	5.000	104 %	90-110	
			CCB	ppm		0.009	1	
Zinc	200.7	(SP 1403656-001)	MS	ug/L	800.0	83.4 %	75-125	
			MSD	ug/L	800.0	117 %	75-125	
			MSRPD	ug/L	800.4	33.2%	≤20.0	435
	200.7	04/10/14:205175AC	CCV	ppm	1.000	100 %	90-110	
			CCB	ppm		-0.0024	0.02	
			CCV	ppm	1.000	102 %	90-110	
			CCB	ppm		-0.0023	0.02	
Aluminum	200.8	(SP 1403699-001)	MS	ug/L	5.000	83.3 %	75-125	
			MSD	ug/L	5.000	92.2 %	75-125	
			MSRPD	ug/L	5.000	0.45	≤10	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	94.2 %	90-110	
			CCB	ppb		-0.1	10	
			CCV	ppb	120.0	95.8 %	90-110	
			CCB	ppb		-0.1	10	
Antimony	200.8	(SP 1403699-001)	MS	ug/L	5.000	88.7 %	75-125	
			MSD	ug/L	5.000	116 %	75-125	
			MSRPD	ug/L	5.000	25.8%	≤20	435
	200.8	04/02/14:204706AC	CCV	ppb	120.0	104 %	90-110	
			CCB	ppb		0.43	1	
			CCV	ppb	120.0	108 %	90-110	
			CCB	ppb		0.1	1	
Arsenic	200.8	(SP 1403699-001)	MS	ug/L	5.000	94.5 %	75-125	
			MSD	ug/L	5.000	125 %	75-125	
			MSRPD	ug/L	5.000	1.5	≤2	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		0.14	2	
			CCV	ppb	120.0	103 %	90-110	
			CCB	ppb		0.02	2	
Barium	200.8	(SP 1403699-001)	MS	ug/L	5.000	82.4 %	75-125	
			MSD	ug/L	5.000	122 %	75-125	
			MSRPD	ug/L	5.000	4.5%	≤20	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	100 %	90-110	
			CCB	ppb		0.08	1	
			CCV	ppb	120.0	103 %	90-110	
			CCB	ppb		0.03	1	
Beryllium	200.8	(SP 1403699-001)	MS	ug/L	5.000	76.7 %	75-125	
			MSD	ug/L	5.000	99.5 %	75-125	
			MSRPD	ug/L	5.000	1.1	≤1	435
	200.8	04/02/14:204706AC	CCV	ppb	120.0	92.0 %	90-110	
			CCB	ppb		0.082	0.2	
			CCV	ppb	120.0	90.0 %	90-110	
			CCB	ppb		0.016	0.2	
Cadmium	200.8	(SP 1403699-001)	MS	ug/L	5.000	82.8 %	75-125	
			MSD	ug/L	5.000	113 %	75-125	
			MSRPD	ug/L	5.000	30.5%	≤20	435
	200.8	04/02/14:204706AC	CCV	ppb	120.0	101 %	90-110	

April 11, 2014  
**Romaldo Water**

Lab ID : SP 1403656  
 Customer : 2-24644

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Cadmium	200.8	04/02/14:204706AC	CCB	ppb	120.0	0.092	0.2	
			CCV	ppb		104 %	90-110	
			CCB	ppb		0.030	0.2	
Chromium	200.8	(SP 1403699-001)	MS	ug/L	5.000	81.4 %	75-125	
			MSD	ug/L	5.000	105 %	75-125	
			MSRPD	ug/L	5.000	16.9%	≤20	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	104 %	90-110	
			CCB	ppb	120.0	0.14	1	
			CCV	ppb	120.0	104 %	90-110	
CCB	ppb	120.0	0.08	1				
Lead	200.8	(SP 1403699-001)	MS	ug/L	5.000	87.7 %	75-125	435
			MSD	ug/L	5.000	117 %	75-125	
			MSRPD	ug/L	5.000	28.4%	≤20	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	103 %	90-110	
			CCB	ppb	120.0	0.077	0.5	
			CCV	ppb	120.0	105 %	90-110	
CCB	ppb	120.0	0.012	0.5				
Nickel	200.8	(SP 1403699-001)	MS	ug/L	5.000	78.7 %	75-125	435
			MSD	ug/L	5.000	106 %	75-125	
			MSRPD	ug/L	5.000	1.4	≤1	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	104 %	90-110	
			CCB	ppb	120.0	0.1	1	
			CCV	ppb	120.0	102 %	90-110	
CCB	ppb	120.0	0.03	1				
Selenium	200.8	(SP 1403699-001)	MS	ug/L	5.000	92.5 %	75-125	
			MSD	ug/L	5.000	125 %	75-125	
			MSRPD	ug/L	5.000	19.6%	≤20	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	97.0 %	90-110	
			CCB	ppb	120.0	0.20	1	
			CCV	ppb	120.0	98.4 %	90-110	
CCB	ppb	120.0	0.08	1				
Silver	200.8	(SP 1403699-001)	MS	ug/L	5.000	78.3 %	75-125	435
			MSD	ug/L	5.000	105 %	75-125	
			MSRPD	ug/L	5.000	1.3	≤1	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	99.8 %	90-110	
			CCB	ppb	120.0	0.06	1	
			CCV	ppb	120.0	102 %	90-110	
CCB	ppb	120.0	0.02	1				
Thallium	200.8	(SP 1403699-001)	MS	ug/L	5.000	86.4 %	75-125	435
			MSD	ug/L	5.000	117 %	75-125	
			MSRPD	ug/L	5.000	29.7%	≤20	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	101 %	90-110	
			CCB	ppb	120.0	0.110	0.2	
			CCV	ppb	120.0	103 %	90-110	
CCB	ppb	120.0	0.028	0.2				
Vanadium	200.8	(SP 1403699-001)	MS	ug/L	5.000	83.2 %	75-125	
			MSD	ug/L	5.000	110 %	75-125	
			MSRPD	ug/L	5.000	1.3	≤2	
	200.8	04/02/14:204706AC	CCV	ppb	120.0	103 %	90-110	
			CCB	ppb	120.0	0.12	2	
			CCV	ppb	120.0	103 %	90-110	
CCB	ppb	120.0	0.05	2				
Mercury	245.1	04/02/14:203242ac	Blank	ug/L	0.2000	ND	<0.02	
			LCS	ug/L		96.8 %	85-115	

April 11, 2014  
**Romaldo Water**

Lab ID : SP 1403656  
 Customer : 2-24644

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
<b>Metals</b> Mercury	245.1	(CH 1471791-001)	MS	ug/L	0.2000	91.5 %	75-125		
			MSD	ug/L	0.2000	92.2 %	75-125		
			MSRPD	ug/L	0.2000	0.8%	≤20		
	245.1	04/02/14:204707AC	ICV	ppt	200.0	101 %	90-110		
			ICB	ppt		3.8	20		
			CCV	ppt	200.0	103 %	90-110		
			CCB	ppt		3.5	20		
<b>Wet Chem</b> Alkalinity (as CaCO3)	2320B	(CC 1480959-001)	Dup	mg/L		21.5%	3.42	440	
	2320B	04/04/14:204856AMB	CCV	mg/L	234.9	93.3 %	90-110		
			CCV	mg/L	234.9	95.4 %	90-110		
Bicarbonate	2320B	(CC 1480959-001)	Dup	mg/L		21.5%	4.78	440	
Carbonate	2320B	(CC 1480959-001)	Dup	mg/L		0.0	10		
Hydroxide	2320B	(CC 1480959-001)	Dup	mg/L		0.0	10		
Conductivity	2510B	04/02/14:204658JMG	ICB	umhos/cm		0.09	1		
			CCV	umhos/cm	998.0	104 %	95-105		
			CCV	umhos/cm	998.0	104 %	95-105		
E. C.	2510B	04/02/14:203673jmg (SP 1403640-002)	Blank Dup	umhos/cm umhos/cm		ND 0.1%	<1 10		
Solids, Total Dissolved	2540CE	04/01/14:203620CTL  (STK1432717-001)	Blank LCS Dup	mg/L mg/L mg/L	998.4	ND 99.6 % 2.1%	<20 90-110 10.0		
Chloride	300.0	04/01/14:203892CHL  (VI 1440900-001)  (VI 1440901-001)	Blank	mg/L		ND	<1		
			LCS	mg/L	25.00	98.5 %	90-110		
			MS	mg/L	500.0	103 %	94-113		
			MSD	mg/L	500.0	102 %	94-113		
			MSRPD	mg/L	100.0	1.3%	≤3		
			MS	mg/L	500.0	103 %	94-113		
				MSD	mg/L	500.0	100 %	94-113	
				MSRPD	mg/L	100.0	2.8%	≤3	
		300.0	04/01/14:204943CHL	ICV CCV	ppm ppm	50.00 25.00	101 % 99.7 %	90-110 90-110	
	Fluoride	300.0	04/01/14:203892CHL  (VI 1440900-001)  (VI 1440901-001)	Blank	mg/L		ND	<0.1	
LCS				mg/L	2.500	97.8 %	90-110		
MS				mg/L	50.00	104 %	93-112		
MSD				mg/L	50.00	104 %	93-112		
MSRPD				mg/L	100.0	0.02%	≤5		
MS				mg/L	50.00	103 %	93-112		
				MSD	mg/L	50.00	101 %	93-112	
				MSRPD	mg/L	100.0	2.3%	≤5	
		300.0	04/01/14:204943CHL	ICV CCV	ppm ppm	5.000 2.500	96.9 % 101 %	90-110 90-110	
Nitrate		300.0	04/01/14:203892CHL  (VI 1440900-001)  (VI 1440901-001)	Blank	mg/L		ND	<0.4	
	LCS			mg/L	20.00	95.0 %	90-110		
	MS			mg/L	400.0	102 %	93-113		
	MSD			mg/L	400.0	101 %	93-113		
	MSRPD			mg/L	100.0	1.5%	≤4		
	MS			mg/L	400.0	102 %	93-113		
				MSD	mg/L	400.0	98.7 %	93-113	
				MSRPD	mg/L	100.0	3.1%	≤4	
		300.0	04/01/14:204943CHL	ICV CCV	ppm ppm	40.00 20.00	99.1 % 97.2 %	90-110 90-110	
	Nitrite	300.0	04/01/14:203892CHL	Blank LCS	mg/L mg/L		ND 100 %	<0.3 90-110	

April 11, 2014  
**Romaldo Water**

Lab ID : SP 1403656  
 Customer : 2-24644

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Wet Chem Nitrite	300.0	(VI 1440900-001)	MS	mg/L	300.0	97.8 %	87-115		
			MSD	mg/L	300.0	101 %	87-115		
			MSRPD	mg/L	100.0	3.0%	≤9		
			MS	mg/L	300.0	97.3 %	87-115		
			MSD	mg/L	300.0	98.5 %	87-115		
	300.0	04/01/14:204943CHL	MSRPD	mg/L	100.0	1.3%	≤9		
			ICV	ppm	30.00	97.5 %	90-110		
	Sulfate	300.0	04/01/14:203892CHL	Blank	mg/L		ND	<2	
				LCS	mg/L	50.00	98.0 %	90-110	
				MS	mg/L	1000	102 %	92-113	
MSD				mg/L	1000	101 %	92-113		
MSRPD				mg/L	100.0	1.2%	≤4		
300.0		04/01/14:204943CHL	MS	mg/L	1000	102 %	92-113		
			MSD	mg/L	1000	99.7 %	92-113		
300.0		04/01/14:204943CHL	MSRPD	mg/L	100.0	2.3%	≤4		
			ICV	ppm	100.0	99.6 %	90-110		
MBAS		5540C	04/02/14:204946AMM	CCB	mg/L		0.0784	0.25	
	CCV			mg/L	1.000	97.0 %	90-110		
	CCB			mg/L		0.0830	0.25		
	CCV			mg/L	1.000	97.5 %	90-110		
MBAS Extraction	5540C	04/02/14:203754AMM	Blank	mg/L		ND	<0.1		
			LCS	mg/L	0.5000	97.0 %	65-109		
			BS	mg/L	0.5000	86.5 %	65-109		
			BSD	mg/L	0.5000	85.5 %	65-109		
			BSRPD	mg/L	0.5000	0.0046	≤0.1		

**Definition**

ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.  
 ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline 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 analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.  
 BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.  
 BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting 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.  
 BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS 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 fourth 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.  
 440 : Sample nonhomogeneity may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



**CLIENT DETAILS**

**SECTION I**

Client: Romaldo Water

New Customer Customer Number: \_\_\_\_\_

Address: 5587 West Camino Cielo  
Santa Barbara Ca 93120

Phone: 805 866-1850 FAX: \_\_\_\_\_

E-Mail \_\_\_\_\_

Project name: Water Quality

Contact person: Bill Hurst

Billing Information (if different from above)

Name: \_\_\_\_\_

Address: ~~\_\_\_\_\_~~

Phone: ~~\_\_\_\_\_~~ FAX: \_\_\_\_\_

E-Mail: ~~\_\_\_\_\_~~

Contact person: \$ 494.00

Purchase order/contract/FGL quote number: \_\_\_\_\_

Pre Log Required: yes  Frequency: Monthly  Weekly  Quarterly  Other

**SAMPLING**

**SECTION II**

Sampler (s): A. Jimenez T. Baca

Comp Sampler Set up Date: \_\_\_\_\_ Time: \_\_\_\_\_

Time: \$35.00 Mileage: \_\_\_\_\_

Shipping Charge: \_\_\_\_\_ Pickup Charge: \_\_\_\_\_

**REPORT INFORMATION**

**SECTION III**

Rush Analysis (surcharge will apply):

5 Day  4 Day  3 Day

2 Day  24 hour

Rush pre-approval by lab: \_\_\_\_\_ initial \_\_\_\_\_

Electronic Data Transfer: yes \_\_\_\_\_ no

If yes, To: State \_\_\_\_\_ Client \_\_\_\_\_ Other \_\_\_\_\_

Lab number: 140310510

**SAMPLE INFORMATION**

**SECTION IV**

Sample Number	Location/Description	Date Sampled	Time Sampled
01	Well	3/21/14	1010
02	System		

Type of Sampling: Composite(C) Grab(G)	Number of Containers	Type of Containers: (G) Glass (P) Plastic (V) VOA (MT) Metal Tube	(P) Potable (NP) Non-Potable	(SW) Surface Water (MW) Monitoring Well	(GW) Ground Water (TB) Travel Blank (AgW) Ag Water	(WW) Wastewater (DW) Drinking Water	(S) Soil (SLG) Sludge (SLD) Solid (O) Oil	BacT: (Sys) System (SRC) Source (W) Waste	BacT: Routine (ROUT) Repeat (RPT) Other (OTH) Replace (RPL)	(LT) Leaf Tissue (PET) Petiole Tissue ( PRD) Produce	Preservative: (1) NaOH + ZnAc, (2) NaOH, (3) HCl, (4) H2SO4, (5) HNO3, (6) Na2S2O3, (7) Other _____	ANALYSES REQUESTED
												Gen Min
												Field pht 7.31
												Inorg Chem - Metals
												Total Cl Residual over
												Total Chloramines (see below)
												S/F
												Sub file (Grab)
												Total Sulfide
												Sulfur Bacti
												Total Sulfur

**REMARKS**

**SECTION V**

Client sending check

**CUSTODY**

**SECTION VI**

Relinquished by and subject to the terms and conditions on the reverse of this document:

Relinquished by: [Signature] Date 3/21/14 Time 1520

Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

### Condition Upon Receipt (Attach to COC)

**Sample Receipt at SP:**

- 1. Number of ice chests/packages received: 1
- 2. Shipper tracking numbers \_\_\_\_\_
- 3. Were samples received in a chilled condition? ROI / 8 / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Temps:
- 4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
- 5. Do the number of bottles received agree with the COC?  Yes  No  N/A
- 6. Verify sample date, time, sampler  Yes  No  N/A
- 7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.)  Yes  No
- 8. Were sample custody seals intact?  Yes  No  N/A

**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. Were all analyses within holding times at time of receipt?  Yes  No
- 6. Have rush or project due dates been checked and accepted?  Yes  No  N/A

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by:

Reviewed and  
Approved By

**Nicole Barnes**



Digitally signed by Nicole Barnes  
Title: Sample Receiving  
Date: 04/01/2014-14:04:41

**Discrepancy Documentation:**

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

- 1. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution:

- 2. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution:

(2024644)  
**Romaldo Water**  
**SP 1403656**  
NMB-04/01/2014-14:04:41