

July 12, 2017

Romaldo Water
 5587 West Camino Cielo
 Santa Barbara, CA 93105

Lab ID : SP 1707836
 Customer : 2-24644

Laboratory Report

Introduction: This report package contains total of 13 pages divided into 4 sections:

Case Narrative	(3 pages)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Interpretation	(2 pages)	: Drinking Water Interpretation for each sample submitted.
Quality Control	(6 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
New Well	06/29/2017	06/29/2017	SP 1707836-001	DW

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	06/29/2017:209653 All analysis quality controls are within established criteria.
	06/29/2017:207731 All preparation quality controls are within established criteria, except: The following note applies to Sodium: 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	06/30/2017:209735 All analysis quality controls are within established criteria.
	06/30/2017:207755 All preparation quality controls are within established criteria, except: The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
245.1	07/05/2017:209901 All analysis quality controls are within established criteria.
	07/05/2017:207908 All preparation quality controls are within established criteria.

Inorganic - Wet Chemistry QC

2120B	06/30/2017:209725 All analysis quality controls are within established criteria.
	06/30/2017:207804 All preparation quality controls are within established criteria.
2130B	06/30/2017:209984 All analysis quality controls are within established criteria.
	06/30/2017:208014 All preparation quality controls are within established criteria.
2150B	06/30/2017:207807 All preparation quality controls are within established criteria.
218.6	07/03/2017:210006 All analysis quality controls are within established criteria.
	07/03/2017:208034 All preparation quality controls are within established criteria.
2320B	07/03/2017:209802 All analysis quality controls are within established criteria.
	07/03/2017:207823 All preparation quality controls are within established criteria.
2510B	06/30/2017:209654 All analysis quality controls are within established criteria.
	06/30/2017:207754 All preparation quality controls are within established criteria.
2540CE	07/03/2017:207818 All preparation quality controls are within established criteria.
300.0	06/30/2017:209777 All analysis quality controls are within established criteria.
	06/30/2017:207785 All preparation quality controls are within established criteria.
5540C	06/29/2017:209729 All analysis quality controls are within established criteria.

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Inorganic - Wet Chemistry QC

5540C	06/29/2017:207808 All preparation quality controls are within established criteria.
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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: 2017-07-12



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Romaldo Water

5587 West Camino Cielo

Santa Barbara, CA 93105

Sampled On : June 29, 2017-08:30

Sampled By : Matthew Jimenez

Received On : June 29, 2017-14:10

Matrix : Drinking Water

Description : New Well

Project : New Well - Water Quality

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral								
Total Hardness as CaCO ₃	243	--	mg/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Calcium	71	1	mg/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Magnesium	16	1	mg/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Potassium	ND	1	mg/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Sodium	26	1	mg/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Total Cations	6.0	--	meq/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Boron	ND	0.1	mg/L		200.7	06/29/17:207731	200.7	06/29/17:209653
Copper	ND	10	ug/L	1000 ²	200.7	06/29/17:207731	200.7	06/29/17:209653
Iron	130	30	ug/L	300 ²	200.7	06/29/17:207731	200.7	06/29/17:209653
Manganese	80	10	ug/L	50 ²	200.7	06/29/17:207731	200.7	06/29/17:209653
Zinc	40	20	ug/L		200.7	06/29/17:207731	200.7	06/29/17:209653
SAR	0.7	--	--		200.7	06/29/17:207731	200.7	06/29/17:209653
Total Alkalinity (as CaCO ₃)	190	10	mg/L		2320B	07/03/17:207823	2320B	07/03/17:209802
Hydroxide as OH	ND	10	mg/L		2320B	07/03/17:207823	2320B	07/03/17:209802
Carbonate as CO ₃	ND	10	mg/L		2320B	07/03/17:207823	2320B	07/03/17:209802
Bicarbonate as HCO ₃	230	10	mg/L		2320B	07/03/17:207823	2320B	07/03/17:209802
Sulfate	97.0	0.5	mg/L	500 ²	300.0	06/30/17:207785	300.0	06/30/17:209777
Chloride	22	1	mg/L	500 ²	300.0	06/30/17:207785	300.0	06/30/17:209777
Nitrate as NO ₃	ND	0.5	mg/L	45	300.0	06/30/17:207785	300.0	06/30/17:209777
Nitrite as N	ND	0.2	mg/L	1	300.0	06/30/17:207785	300.0	06/30/17:209777
Nitrate + Nitrite as N	ND	0.1	mg/L	10	300.0	06/30/17:207785	300.0	06/30/17:209777
Fluoride	ND	0.2	mg/L	2	300.0	06/30/17:207785	300.0	06/30/17:209777
Total Anions	6.4	--	meq/L		2320B	07/03/17:207823	2320B	07/03/17:209802
pH (Field)	7.5	--	units		4500-H B	06/29/17:207695	4500HB	06/29/17:209756
Specific Conductance	591	1	umhos/cm	1600 ²	2510B	06/30/17:207754	2510B	06/30/17:209654
Total Dissolved Solids	420	20	mg/L	1000 ²	2540CE	07/03/17:207818	2540C	07/05/17:209820
MBAS Screen	Negative	0.1	mg/L	0.5 ²	5540C	06/29/17:207808	5540C	06/29/17:209729
Aggressiveness Index	12.0	--	--		4500-H B	06/29/17:207695	4500HB	06/29/17:209756
Langelier Index (20°C)	0.2	--	--		4500-H B	06/29/17:207695	4500HB	06/29/17:209756
Nitrate Nitrogen	ND	--	mg/L	10	300.0	06/30/17:207785	300.0	06/30/17:209777
Metals, Total								
Aluminum	30	10	ug/L	1000	200.8	06/30/17:207755	200.8	06/30/17:209735
Antimony	ND	1	ug/L	6	200.8	06/30/17:207755	200.8	06/30/17:209735
Arsenic	2	2	ug/L	10	200.8	06/30/17:207755	200.8	06/30/17:209735
Barium	32.6	0.2	ug/L	1000	200.8	06/30/17:207755	200.8	06/30/17:209735

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 Description : New Well

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Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total								
Beryllium	ND	1	ug/L	4	200.8	06/30/17:207755	200.8	06/30/17:209735
Cadmium	ND	0.2	ug/L	5	200.8	06/30/17:207755	200.8	06/30/17:209735
Chromium	10	1	ug/L	50	200.8	06/30/17:207755	200.8	06/30/17:209735
Lead	1.6	0.5	ug/L	15	200.8	06/30/17:207755	200.8	06/30/17:209735
Mercury	ND	0.02	ug/L	2	245.1	07/05/17:207908	245.1	07/05/17:209901
Nickel	2	1	ug/L	100	200.8	06/30/17:207755	200.8	06/30/17:209735
Selenium	ND	1	ug/L	50	200.8	06/30/17:207755	200.8	06/30/17:209735
Silver	ND	1	ug/L	100 ²	200.8	06/30/17:207755	200.8	06/30/17:209735
Thallium	ND	0.2	ug/L	2	200.8	06/30/17:207755	200.8	06/30/17:209735
Vanadium	3	2	ug/L		200.8	06/30/17:207755	200.8	06/30/17:209735
Wet Chemistry								
Chromium VI	ND	0.1	ug/L	10	218.6	07/03/17:208034	218.6	07/03/17:210006
Color	ND	5	units	15	2120B	06/30/17:207804	2120B	06/30/17:209725
Odor	ND	1	TON	3	2150B	06/30/17:207807	2150B	06/30/17:209728
Turbidity	0.9	0.1	NTU	5	2130B	06/30/17:208014	2130B	06/30/17:209984

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.
 MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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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	EXCEED
Inorganic - Primary					
Aluminum	30	ug/L	1000	Pass	
Antimony	ND	ug/L	6	Pass	
Arsenic	2	ug/L	10	Pass	
Barium	32.6	ug/L	1000	Pass	
Beryllium	ND	ug/L	4	Pass	
Cadmium	ND	ug/L	5	Pass	
Chromium	10	ug/L	50	Pass	
Chromium VI	ND	ug/L	10	Pass	
Color	ND	units	15	Pass	
Fluoride	ND	mg/L	2	Pass	
Mercury	ND	ug/L	2	Pass	
Nickel	2	ug/L	100	Pass	
Nitrate + Nitrite as N	ND	mg/L	10	Pass	
Nitrate as NO3	ND	mg/L	45	Pass	
Nitrate Nitrogen	ND	mg/L	10	Pass	
Nitrite as N	ND	mg/L	1	Pass	
Odor	ND	TON	3	Pass	
Selenium	ND	ug/L	50	Pass	
Thallium	ND	ug/L	2	Pass	
Turbidity	0.9	NTU	5	Pass	
Inorganic - Secondary					
Aluminum	30	ug/L	200	Pass	
Chloride	22	mg/L	500	Pass	
Copper	ND	ug/L	1000	Pass	
Iron	130	ug/L	300	Pass	
Manganese	80	ug/L	50		Fail
MBAS (foaming agents)	Negative	mg/L	0.5	Pass	
Silver	ND	ug/L	100	Pass	
Specific Conductance	591	umhos/cm	1600	Pass	

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Drinking Water Interpretation

CONSTITUENT	RESULT	UNITS	MCL	MCL	
				LESS OR EQUAL	EXCEED
Inorganic - Secondary					
Sulfate	97.0	mg/L	500	Pass	
Total Dissolved Solids	420	mg/L	1000	Pass	
Other					
Copper	ND	ug/L	1300**	Pass	
Lead	1.6	ug/L	15**	Pass	

ND=Non-Detected. ** California Title 22, Section 64672.3

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**

Health Effects Language

Manganese	Manganese was found at levels that exceed the secondary MCL. The Manganese MCL was set to protect you against unpleasant aesthetic affects such as color, taste, odor and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. Violating this MCL does not pose a risk to public health.
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Lab ID : SP 1707836
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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Boron	200.7	(STK1737915-001)	MS	mg/L	4.000	110 %	75-125	
			MSD	mg/L	4.000	106 %	75-125	
			MSRPD	mg/L	4000	2.9%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	5.000	98.6 %	90-110	
			CCB	ppm		0.029	0.1	
			CCV	ppm	5.000	98.5 %	90-110	
			CCB	ppm		0.035	0.1	
Calcium	200.7	(STK1737915-001)	MS	mg/L	12.00	58.9 %	<¼	
			MSD	mg/L	12.00	56.4 %	<¼	
			MSRPD	mg/L	4000	0.2%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	25.00	99.1 %	90-110	
			CCB	ppm		0.002	1	
			CCV	ppm	25.00	99.8 %	90-110	
			CCB	ppm		0.001	1	
Copper	200.7	(STK1737915-001)	MS	ug/L	800.0	112 %	75-125	
			MSD	ug/L	800.0	109 %	75-125	
			MSRPD	ug/L	4000	2.9%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	1.000	98.4 %	90-110	
			CCB	ppm		-0.0002	0.01	
			CCV	ppm	1.000	98.4 %	90-110	
			CCB	ppm		-0.0002	0.01	
Iron	200.7	(STK1737915-001)	MS	ug/L	4000	106 %	75-125	
			MSD	ug/L	4000	104 %	75-125	
			MSRPD	ug/L	4000	1.7%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	5.000	98.6 %	90-110	
			CCB	ppm		0.0061	0.03	
			CCV	ppm	5.000	98.8 %	90-110	
			CCB	ppm		0.0056	0.03	
Magnesium	200.7	(STK1737915-001)	MS	mg/L	12.00	96.4 %	75-125	
			MSD	mg/L	12.00	93.7 %	75-125	
			MSRPD	mg/L	4000	0.5%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	25.00	98.2 %	90-110	
			CCB	ppm		0.0006	1	
			CCV	ppm	25.00	97.9 %	90-110	
			CCB	ppm		0.002	1	
Manganese	200.7	(STK1737915-001)	MS	ug/L	800.0	106 %	75-125	
			MSD	ug/L	800.0	104 %	75-125	
			MSRPD	ug/L	4000	1.7%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	1.000	99.1 %	90-110	
			CCB	ppm		0.00005	0.01	
			CCV	ppm	1.000	99.0 %	90-110	
			CCB	ppm		0.00008	0.01	
Potassium	200.7	(STK1737915-001)	MS	mg/L	12.00	124 %	75-125	
			MSD	mg/L	12.00	121 %	75-125	
			MSRPD	mg/L	4000	2.0%	≤20.0	
	200.7	06/29/17:209653AC	CCV	ppm	25.00	101 %	90-110	
			CCB	ppm		-0.0009	1	
			CCV	ppm	25.00	99.7 %	90-110	
			CCB	ppm		0.001	1	
Sodium	200.7	(STK1737915-001)	MS	mg/L	12.00	-1560 %	<¼	
			MSD	mg/L	12.00	85.2 %	75-125	
			MSRPD	mg/L	4000	83.9%	≤20.0	435
	200.7	06/29/17:209653AC	CCV	ppm	25.00	97.9 %	90-110	
			CCB	ppm		0.01	1	
			CCV	ppm	25.00	96.6 %	90-110	

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Sodium	200.7	06/29/17:209653AC	CCB	ppm		0.02	1	
Zinc	200.7	(STK1737915-001)	MS	ug/L	800.0	100 %	75-125	
			MSD	ug/L	800.0	96.9 %	75-125	
	200.7	06/29/17:209653AC	MSRPD	ug/L	4000	1.6%	≤20.0	
			CCV	ppm	1.000	99.7 %	90-110	
			CCB	ppm		0.0002	0.02	
			CCV	ppm	1.000	101 %	90-110	
Aluminum	200.8	(VI 1742914-001)	MS	ug/L	5.000	107 %	75-125	
			MSD	ug/L	5.000	108 %	75-125	
			MSRPD	ug/L	5.000	0.040	≤10	
			200.8	06/30/17:209735AC	ICV	ppb	120.0	97.6 %
ICB	ppb				-0.06	10		
CCV	ppb	120.0			97.1 %	90-110		
CCB	ppb				0.006	10		
Antimony	200.8	(VI 1742914-001)	MS	ug/L	5.000	102 %	75-125	
			MSD	ug/L	5.000	100 %	75-125	
			MSRPD	ug/L	5.000	1.9%	≤20	
			200.8	06/30/17:209735AC	ICV	ppb	120.0	99.9 %
ICB	ppb				0.18	1		
CCV	ppb	120.0			100 %	90-110		
CCB	ppb				0.37	1		
Arsenic	200.8	(VI 1742914-001)	MS	ug/L	5.000	111 %	75-125	
			MSD	ug/L	5.000	110 %	75-125	
			MSRPD	ug/L	5.000	0.036	≤2	
			200.8	06/30/17:209735AC	ICV	ppb	120.0	99.8 %
ICB	ppb				-0.04	2		
CCV	ppb	120.0			99.4 %	90-110		
CCB	ppb				0.17	2		
Barium	200.8	(VI 1742914-001)	MS	ug/L	5.000	123 %	75-125	
			MSD	ug/L	5.000	121 %	75-125	
			MSRPD	ug/L	5.000	0.9%	≤20	
			200.8	06/30/17:209735AC	ICV	ppb	120.0	99.8 %
ICB	ppb				0.008	0.2		
CCV	ppb	120.0			101 %	90-110		
CCB	ppb				0.029	0.2		
Beryllium	200.8	(VI 1742914-001)	MS	ug/L	5.000	108 %	75-125	
			MSD	ug/L	5.000	107 %	75-125	
			MSRPD	ug/L	5.000	0.7%	≤20	
			200.8	06/30/17:209735AC	ICV	ppb	120.0	90.8 %
ICB	ppb				0.005	0.2		
CCV	ppb	120.0			91.7 %	90-110		
CCB	ppb				-0.051	0.2		
Cadmium	200.8	(VI 1742914-001)	MS	ug/L	5.000	113 %	75-125	
			MSD	ug/L	5.000	112 %	75-125	
			MSRPD	ug/L	5.000	0.05%	≤20	
			200.8	06/30/17:209735AC	ICV	ppb	120.0	100 %
ICB	ppb				-0.004	0.2		
CCV	ppb	120.0			102 %	90-110		
CCB	ppb				0.011	0.2		
Chromium	200.8	(VI 1742914-001)	MS	ug/L	5.000	78.8 %	75-125	
			MSD	ug/L	5.000	78.7 %	75-125	
			MSRPD	ug/L	5.000	0.1%	≤20	
	200.8	06/30/17:209735AC	ICV	ppb	120.0	99.3 %	90-110	

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Chromium	200.8	06/30/17:209735AC	ICB CCV CCB	ppb ppb ppb	120.0	-0.07 99.1 % -0.03	1 90-110 1	
Lead	200.8	(VI 1742914-001)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000 5.000	51.7 % 50.2 % 2.9%	75-125 75-125 ≤20	435 435
		06/30/17:209735AC	ICV ICB CCV CCB	ppb ppb ppb ppb	120.0 120.0 120.0	99.5 % 0.027 101 % 0.050	90-110 0.5 90-110 0.5	
Nickel	200.8	(VI 1742914-001)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000 5.000	109 % 106 % 1.9%	75-125 75-125 ≤20	
		06/30/17:209735AC	ICV ICB CCV CCB	ppb ppb ppb ppb	120.0 120.0 120.0	101 % 0.008 99.5 % -0.05	90-110 1 90-110 1	
Selenium	200.8	(VI 1742914-001)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000 5.000	115 % 110 % 4.0%	75-125 75-125 ≤20	
		06/30/17:209735AC	ICV ICB CCV CCB	ppb ppb ppb ppb	120.0 120.0 120.0	98.6 % -0.04 101 % 0.86	90-110 1 90-110 1	
Silver	200.8	(VI 1742914-001)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000 5.000	106 % 103 % 3.2%	75-125 75-125 ≤20	
		06/30/17:209735AC	ICV ICB CCV CCB	ppb ppb ppb ppb	120.0 120.0 120.0	98.4 % -0.0150 99.4 % 0.0090	90-110 0.25 90-110 0.25	
Thallium	200.8	(VI 1742914-001)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000 5.000	112 % 109 % 2.9%	75-125 75-125 ≤20	
		06/30/17:209735AC	ICV ICB CCV CCB	ppb ppb ppb ppb	120.0 120.0 120.0	99.4 % 0.008 100 % 0.029	90-110 0.2 90-110 0.2	
Vanadium	200.8	(VI 1742914-001)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000 5.000	77.4 % 77.2 % 0.0090	75-125 75-125 ≤2	
		06/30/17:209735AC	ICV ICB CCV CCB	ppb ppb ppb ppb	120.0 120.0 120.0	98.2 % -0.02 97.9 % 0.03	90-110 2 90-110 2	
Mercury	245.1	07/05/17:207908AC	Blank LCS MS	ug/L ug/L ug/L	0.2000 0.2000 0.2000	ND 92.2 % 88.4 %	<0.02 85-115 75-125	
		(CC 1782497-001)	MSD MSRPD	ug/L ug/L	0.2000 0.2000	88.5 % 0.1%	75-125 ≤20	
	245.1	07/05/17:209901AC	CCV CCB CCV CCB	ppt ppt ppt ppt	200.0 200.0	95.8 % -1.6 95.3 % -5.1	90-110 20 90-110 20	

July 12, 2017
Romaldo Water

Lab ID : SP 1707836
 Customer : 2-24644

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Color	2120B	(CC 1782582-001)	Dup	units		0.0	5	
	2120B	06/30/17:209725jmg	CCB CCV	units units	10.00	0.00 100 %	5.0 90-110	
Turbidity	2130B	(SP 1707818-001)	Dup	NTU		0.8%	20	
	2130B	06/30/17:209984AMM	CCV	NTU	10.00	100 %	90-110	
			CCB	NTU		0.097	0.1	
			CCV	NTU	10.00	104 %	90-110	
CCB	NTU		0.087	0.1				
Odor	2150B	(SP 1707830-001)	Dup	TON		0.0	1	
Chromium VI	218.6	07/03/17:208034mca (SP 1707836-001)	Blank	ug/L		ND	<0.1	
			LCS	ug/L	2.000	101 %	90-110	
			MS	ug/L	2.000	109 %	75-125	
			MSD	ug/L	2.000	111 %	75-125	
	MSRPD	ug/L	2.000	1.7%	≤20			
	218.6	07/03/17:210006MCA	ICB	ppb		0.000	0.1	
ICV	ppb	5.000	95.2 %	95-105				
CCB	ppb		0.000	0.1				
CCV	ppb	5.000	101 %	95-105				
Alkalinity (as CaCO3)	2320B	(STK1737400-001)	Dup	mg/L		1.1%	10	
	2320B	07/03/17:209802AMB	CCV CCV	mg/L mg/L	234.9 234.9	95.3 % 94.7 %	90-110 90-110	
Bicarbonate	2320B	(STK1737400-001)	Dup	mg/L		1.1%	10	
Carbonate	2320B	(STK1737400-001)	Dup	mg/L		0.0	10	
Hydroxide	2320B	(STK1737400-001)	Dup	mg/L		0.0	10	
Conductivity	2510B	06/30/17:209654JMG	ICB	umhos/cm		0.06	1	
			CCV	umhos/cm	999.0	105 %	95-105	
			CCV	umhos/cm	999.0	104 %	95-105	
E. C.	2510B	06/30/17:207754jmg (SP 1707828-001)	Blank	umhos/cm		ND	<1	
			Dup	umhos/cm		0.0%	5	
Total Dissolved Solids (TFR)	2540CE	07/03/17:207818CTL (STK1737975-001) (STK1737975-002)	Blank	mg/L		3.3	20	
			LCS	mg/L	996.2	101 %	90-110	
			Dup	mg/L		2.3%	5	
			Dup	mg/L		0.3%	5	
Chloride	300.0	06/30/17:207785MCA (STK1738029-001) (SP 1707836-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	108 %	90-110	
			MS	mg/L	50.00	98.9 %	85-121	
			MSD	mg/L	50.00	99.5 %	85-121	
			MSRPD	mg/L	10.00	0.5%	≤19	
			MS	mg/L	50.00	94.7 %	85-121	
	MSD	mg/L	50.00	97.5 %	85-121			
	MSRPD	mg/L	10.00	2.0%	≤19			
	300.0	06/30/17:209777MCA	ICB	mg/L		0.00	1	
			ICV	mg/L	25.00	105 %	90-110	
CCB			mg/L		0.00	1		
CCV			mg/L	25.00	106 %	90-110		
Fluoride	300.0	06/30/17:207785MCA (STK1738029-001) (SP 1707836-001)	Blank	mg/L		ND	<0.2	
			LCS	mg/L	2.500	106 %	90-110	
			MS	mg/L	5.000	103 %	87-120	
			MSD	mg/L	5.000	104 %	87-120	
			MSRPD	mg/L	10.00	0.8%	≤16	
			MS	mg/L	5.000	102 %	87-120	
			MSD	mg/L	5.000	105 %	87-120	
			MSRPD	mg/L	10.00	3.0%	≤16	
300.0	06/30/17:209777MCA	ICB	mg/L		0.000	0.1		

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Fluoride	300.0	06/30/17:209777MCA	ICV	mg/L	2.500	105 %	90-110	
			CCB	mg/L		0.000	0.1	
			CCV	mg/L	2.500	105 %	90-110	
Nitrate	300.0	06/30/17:207785MCA (STK1738029-001) (SP 1707836-001)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	20.00	108 %	90-110	
			MS	mg/L	40.00	105 %	85-119	
			MSD	mg/L	40.00	105 %	85-119	
			MSRPD	mg/L	10.00	0.7%	≤19	
			MS	mg/L	40.00	103 %	85-119	
	300.0	06/30/17:209777MCA	MSD	mg/L	40.00	106 %	85-119	
			MSRPD	mg/L	10.00	2.9%	≤19	
			ICB	mg/L		0.000	0.5	
			ICV	mg/L	20.00	106 %	90-110	
Nitrite	300.0	06/30/17:207785MCA (STK1738029-001) (SP 1707836-001)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	15.00	106 %	90-110	
			MS	mg/L	30.00	104 %	74-126	
			MSD	mg/L	30.00	105 %	74-126	
			MSRPD	mg/L	10.00	0.9%	≤20	
			MS	mg/L	30.00	104 %	74-126	
	300.0	06/30/17:209777MCA	MSD	mg/L	30.00	107 %	74-126	
			MSRPD	mg/L	10.00	3.1%	≤20	
			ICB	mg/L		0.000	0.5	
			ICV	mg/L	15.00	105 %	90-110	
Sulfate	300.0	06/30/17:207785MCA (STK1738029-001) (SP 1707836-001)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	106 %	90-110	
			MS	mg/L	100.0	102 %	82-124	
			MSD	mg/L	100.0	102 %	82-124	
			MSRPD	mg/L	10.00	0.7%	≤23	
			MS	mg/L	100.0	84.6 %	82-124	
	300.0	06/30/17:209777MCA	MSD	mg/L	100.0	87.4 %	82-124	
			MSRPD	mg/L	10.00	1.6%	≤23	
			ICB	mg/L		0.150	0.5	
			ICV	mg/L	50.00	104 %	90-110	
MBAS	5540C	06/29/17:209729jmg	CCB	mg/L		0.000	0.1	
			CCV	mg/L	10.00	100 %	99-101	
MBAS Screen	5540C	(VI 1742965-001)	MS	mg/L	10.00	100 %	90-110	
			MSD	mg/L	10.00	100 %	90-110	
			MSRPD	mg/L	10.00	0.0	≤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.

July 12, 2017
Romaldo Water

Lab ID : SP 1707836
Customer : 2-24644

Quality Control - Inorganic

Definition	
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.
<1/4	: 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.

Client: **Romaldo Water**
Address: **55 87 West Camino Cielo**
San Juan Barbara, CA 93105

Phone: (805) 886-1850 Fax: _____
Contact Person: **Bill Hurst**

Project Name: **New Well - Water Quality**

Purchase Order Number: _____
Quote Number: _____

Sampler(s) **M. Jimenez**

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

Lab Number: **SP 7078310** 2-24644

Sample Num	Location Description	Date Sampled	Time Sampled
1	New Well	10/29/17	8:30

4543-06/29/2017

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information	Type of Sample	Method of Sampling: Composite(C) Grab(G)	Field Test-Field pH	Field Test-Field pH	Field - pH Date	Field - pH Time	General Mineral	Metals, Total-Al, Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Ag, Tl, V	Wet Chemistry-Color, Odor, Turbidity	Wet Chemistry-Cr (VI)	8oz(P)-(NH4)2SO4, NH4OH	Sampling-Sampling Fee	Reinquired	Date	Time	Received By	Date	Time
Field Test-Field pH 1 pH = 15 MINUTE HOLD TIME!!!	DW	G	7.48	X														

Remarks: **Z.C**

Relinquished **10/29/17** Date: **10/29/17** Time: **14/6**

Received By: *[Signature]* 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?
Temps: ROI / 2 / _____ / _____ / _____ / _____ / _____
- 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
[Exception: Oil & Grease, VOA and CrVI verified in lab]
- 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

Alyssa P. Bavero



Digitally signed by Alyssa P. Bavero
Title: Sample Receiving
Date: 06/29/2017-14:28:54

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 1707836
APB-06/29/2017-14:28:54