

011700

## CHAIN OF CUSTODY

2

WW - Wastewater

Send report and invoice to : Brad Glassman

L.V.M.W.D. Tapia W.R.F. - 731 Malibu Canyon Road

Calabasas, CA 91302

Ventado 11/17/09 1428

Samples released by:

Nett 11/17/09 1610

Dele Guroz 11/12/09 1428

Samples released to:

11/17/99 1610.

### Santa Paula - Condition Upon Receipt (Attach to COC)

#### Sample Receipt:

- Number of ice chests/packages received: 1  
Note as OTC if received over the counter unpackaged.
- Were samples received in a chilled condition? Temps: Ra /      /      /      /       
Acceptable is 2° to 6° C. Also acceptable is received on ice (ROI) for the same day of sampling or received at room temperature (RRT) if sampled within one hour of receipt. Client contact for temperature failures must be documented below. If many packages are received at one time check for tests/H.T.'s/rushes/Bacti's to prioritize further review. Please notify Microbiology personnel immediately of bacti samples received.
- Do the number of bottles received agree with the COC? Yes No N/A
- Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
- Were sample custody seals intact? N/A Yes No

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

#### Sample Verification, Labeling and Distribution:

- Were all requested analyses understood and acceptable? Yes No
- Did bottle labels correspond with the client's ID's? Yes No
- Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
- VOAs checked for Headspace? Yes No N/A
- Were all analyses within holding times at time of receipt? Yes No
- Have rush or project due dates been checked and accepted? N/A Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials):     

#### Discrepancy Documentation:

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

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

Resolution: \_\_\_\_\_

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

Resolution: \_\_\_\_\_

(2-327)  
Las Virgenes Municipal Water District  
SP 0911780

IV-11/17/2009-16:48:33



Analytical Chemists  
December 22, 2009

**Las Virgenes Municipal Water District**  
Attn: Brad Glassman  
4232 Las Virgenes Rd.  
Calabasas, CA 91302

Lab ID : SP 0911780  
Customer : 2-327

### Laboratory Report

**Introduction:** This report package contains total of 18 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.  
Sample Results (7 pages) : Results for each sample submitted.  
Quality Control (9 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
Sample 1	10/14/2009	11/18/2009	SP 0911780-001	SW
Sample 2	10/14/2009	11/18/2009	SP 0911780-002	SW
Sample 3	10/14/2009	11/18/2009	SP 0911780-003	SW
Sample 4	10/14/2009	11/18/2009	SP 0911780-004	SW
Sample 5	10/14/2009	11/18/2009	SP 0911780-005	SW
Sample 6	10/14/2009	11/18/2009	SP 0911780-006	SW
Sample 7	10/14/2009	11/18/2009	SP 0911780-007	SW

**Sampling and Receipt Information:** All samples were received, prepared and analyzed within the method specified holding except those as listed in the table below.

Lab ID	Analyte/Method	Required Holding Time	Actual Holding Time
SP 0911780-001	Mercury	28	35 Days
SP 0911780-002	Mercury	28	35 Days
SP 0911780-003	Mercury	28	35 Days
SP 0911780-004	Mercury	28	35 Days
SP 0911780-005	Mercury	28	35 Days
SP 0911780-006	Mercury	28	35 Days
SP 0911780-007	Mercury	28	35 Days

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.

December 22, 2009  
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Lab ID : SP 0911780  
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**Quality Control:** All samples were prepared and analyzed according to the following tables:

**Inorganic - Metals QC**

200.7	11/20/2009:215140 All analysis quality controls are within established criteria.
200.8	11/24/2009:215294 All analysis quality controls are within established criteria.
	11/25/2009:215361 All analysis quality controls are within established criteria.
	12/11/2009:215977 All analysis quality controls are within established criteria.
	12/16/2009:216123 All analysis quality controls are within established criteria.
245.1	11/18/2009:215020 All analysis quality controls are within established criteria.
3010	11/19/2009:212175 All preparation quality controls are within established criteria.
	11/23/2009:212278 All preparation quality controls are within established criteria, except: The following note applies to Aluminum, Barium, Zinc: 210 The method blank was positive. However, samples reported were either ten times greater than the blank concentration or non detect and accepted.
	12/01/2009:212509 All preparation quality controls are within established criteria.
7470	11/18/2009:212122 All preparation quality controls are within established criteria.

**Certification::** I certify that this data package is in compliance with NELAC 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: 2009-12-23


 Analytical Chemists  
 December 22, 2009

Lab ID : SP 0911780-001

Customer ID : 2-327

**Las Virgenes Municipal Water District**
 Attn: Brad Glassman  
 4232 Las Virgenes Rd.  
 Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 1

Project : 091014-003

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P:15</sup></b>								
Aluminum	11.4	0.1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Antimony	0.001	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Arsenic	0.004	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Barium	0.0441	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Beryllium	0.0004	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	ND	0.1	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cadmium	0.0035	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Calcium	15	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	0.028	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cobalt	0.0033	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Copper	0.018	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Iron	13.0	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0032	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Magnesium	6	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	0.00002	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.025	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Potassium	2	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	ND	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Silver	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Sodium	12	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	0.0003	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.088	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Zinc	0.08	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO<sub>3</sub> pH < 2 ‡Surrogate.



Analytical Chemists  
December 22, 2009

Lab ID : SP 0911780-002

Customer ID : 2-327

**Las Virgenes Municipal Water District**

Attn: Brad Glassman  
4232 Las Virgenes Rd.  
Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 2

Project : 091014-004

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P:15</sup></b>								
Aluminum	34.5	0.1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Antimony	0.003	0.001	mg/L		3010	11/23/09:212278	200.8	12/16/09:216123
Arsenic	0.013	0.002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Barium	0.378	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Beryllium	0.0032	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	ND	0.1	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Cadmium	0.0215	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Calcium	53	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	0.065	0.001	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Cobalt	0.0319	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Copper	0.068	0.001	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Iron	40.3	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0212	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Magnesium	19	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	0.00005	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.111	0.001	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Potassium	12	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	0.004	0.002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Silver	0.001	0.001	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Sodium	13	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	0.0017	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.205	0.002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Zinc	0.39	0.01	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361

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



Analytical Chemists  
December 22, 2009

Lab ID : SP 0911780-003

Customer ID : 2-327

### Las Virgenes Municipal Water District

Attn: Brad Glassman  
4232 Las Virgenes Rd.  
Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 3

Project : 091014-005

### Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P:15</sup></b>								
Aluminum	1.72	0.05	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Antimony	0.002	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Arsenic	0.002	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Barium	0.0149	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Beryllium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	ND	0.1	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cadmium	0.0008	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Calcium	10	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	0.004	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cobalt	0.0012	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Copper	0.019	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Iron	1.84	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0011	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Magnesium	2	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	ND	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.007	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Potassium	2	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	ND	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Silver	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Sodium	3	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.012	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Zinc	0.08	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO<sub>3</sub> pH < 2 ;Surrogate.


 Analytical Chemists  
 December 22, 2009

Lab ID : SP 0911780-004

Customer ID : 2-327

**Las Virgenes Municipal Water District**
 Attn: Brad Glassman  
 4232 Las Virgenes Rd.  
 Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 4

Project : 091014-006

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P:15</sup></b>								
Aluminum	0.36	0.01	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Antimony	0.001	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Arsenic	0.002	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Barium	0.0220	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Beryllium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	0.2	0.1	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cadmium	0.0015	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Calcium	87	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	0.002	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cobalt	0.0015	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Copper	0.012	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Iron	0.49	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0022	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Magnesium	30	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	ND	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.031	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Potassium	7	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	0.007	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Silver	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Sodium	52	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.006	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Zinc	0.07	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140

 ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives; HNO<sub>3</sub> pH < 2 ‡ Surrogate.




 Analytical Chemists  
 December 22, 2009

Lab ID : SP 0911780-005

Customer ID : 2-327

**Las Virgenes Municipal Water District**

Attn: Brad Glassman

4232 Las Virgenes Rd.

Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 5

Project : 091014-007

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P:15</sup></b>								
Aluminum	0.03	0.01	mg/L		3010	12/01/09:212509	200.8	12/11/09:215977
Antimony	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Arsenic	0.006	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Barium	0.0277	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Beryllium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	0.6	0.1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Cadmium	0.0002	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Calcium	318	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cobalt	0.0033	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Copper	0.004	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Iron	0.27	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0004	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Magnesium	191	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	ND	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.022	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Potassium	16	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	ND	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Silver	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Sodium	392	2	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.007	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Zinc	0.02	0.01	mg/L		3010	12/01/09:212509	200.8	12/11/09:215977

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO<sub>3</sub> pH < 2 ‡Surrogate.



Analytical Chemists  
December 22, 2009

Lab ID : SP 0911780-006

Customer ID : 2-327

### Las Virgenes Municipal Water District

Attn: Brad Glassman  
4232 Las Virgenes Rd.  
Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 6

Project : 091014-008

### Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P,15</sup></b>								
Aluminum	0.28	0.01	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Antimony	0.001	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Arsenic	ND	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Barium	0.0180	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Beryllium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	ND	0.1	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Cadmium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Calcium	13	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	0.006	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cobalt	0.0004	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Copper	0.007	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Iron	0.48	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0007	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Magnesium	2	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	ND	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.003	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Potassium	2	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	0.003	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Silver	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Sodium	5	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.004	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Zinc	0.08	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO<sub>3</sub> pH < 2 ‡Surrogate.


 Analytical Chemists  
 December 22, 2009

Lab ID : SP 0911780-007

Customer ID : 2-327

**Las Virgenes Municipal Water District**
 Attn: Brad Glassman  
 4232 Las Virgenes Rd.  
 Calabasas, CA 91302

Sampled On : October 14, 2009-11:10

Sampled By : RO

Received On : November 18, 2009-16:10

Matrix : Surface Water

Description : Sample 7

Project : 091014-009

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total<sup>P:15</sup></b>								
Aluminum	0.93	0.02	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Antimony	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Arsenic	0.002	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Barium	0.01	0.005	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Beryllium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Boron	0.2	0.1	mg/L		3010	11/23/09:212278	200.8	11/25/09:215361
Cadmium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Calcium	35	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Chromium	0.004	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Cobalt	0.0015	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Copper	0.010	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Iron	1.56	0.05	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Lead	0.0007	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Magnesium	13	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Mercury	ND	0.00002	mg/L		7470	11/18/09:212122	245.1	11/18/09:215020
Nickel	0.011	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Potassium	4	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Selenium	ND	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Silver	ND	0.001	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Sodium	39	1	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Thallium	ND	0.0002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Tin	ND	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140
Vanadium	0.015	0.002	mg/L		3010	11/23/09:212278	200.8	11/24/09:215294
Zinc	0.02	0.02	mg/L		3010	11/19/09:212175	200.7	11/20/09:215140

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO<sub>3</sub> pH < 2 ± Surrogate.



## Analytical Chemists

December 22, 2009

Las Virgenes Municipal Water District

Lab ID : SP 0911780

Customer : 2-327

## Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Aluminum	200.7	11/20/2009:215140	CCV	ppm	4.990	97.7 %	90-110	
			CCB	ppm		0.011	0.100	
			CCV	ppm	4.990	100 %	90-110	
			CCB	ppm		0.008	0.100	
Barium	200.7	11/20/2009:215140	CCV	ppm	1.000	104 %	90-110	
			CCB	ppm		0.00034	0.005	
			CCV	ppm	1.000	101 %	90-110	
			CCB	ppm		0.00092	0.005	
Boron	200.7	11/20/2009:215140	CCV	ppm	5.000	102 %	90-110	
			CCB	ppm		0.017	0.10	
			CCV	ppm	5.000	99.0 %	90-110	
			CCB	ppm		0.028	0.10	
Calcium	200.7	11/20/2009:215140	CCV	ppm	25.02	100 %	90-110	
			CCB	ppm		0.009	1.0	
			CCV	ppm	25.02	101 %	90-110	
			CCB	ppm		0.005	1.0	
			CCV	ppm	25.02	98.8 %	90-110	
			CCB	ppm		0.04	1.0	
Iron	200.7	11/20/2009:215140	CCV	ppm	4.990	98.6 %	90-110	
			CCB	ppm		0.0025	0.05	
			CCV	ppm	4.990	101 %	90-110	
			CCB	ppm		0.0004	0.05	
			CCV	ppm	4.990	97.2 %	90-110	
			CCB	ppm		-0.0009	0.05	
Magnesium	200.7	11/20/2009:215140	CCV	ppm	25.02	97.6 %	90-110	
			CCB	ppm		0.003	1.0	
			CCV	ppm	25.02	99.2 %	90-110	
			CCB	ppm		0.002	1.0	
			CCV	ppm	25.02	96.3 %	90-110	
			CCB	ppm		0.002	1.0	
Potassium	200.7	11/20/2009:215140	CCV	ppm	25.00	99.1 %	90-110	
			CCB	ppm		0.0004	1.0	
			CCV	ppm	25.00	101 %	90-110	
			CCB	ppm		-0.007	1.0	
			CCV	ppm	25.00	97.8 %	90-110	
			CCB	ppm		-0.01	1.0	
Sodium	200.7	11/20/2009:215140	CCV	ppm	25.00	95.6 %	90-110	
			CCB	ppm		0.04	1.0	
			CCV	ppm	25.00	96.2 %	90-110	
			CCB	ppm		-0.01	1.0	
			CCV	ppm	25.00	93.8 %	90-110	
			CCB	ppm		-0.01	1.0	
Tin	200.7	11/20/2009:215140	CCV	ppm	0.9980	99.4 %	90-110	
			CCB	ppm		-0.0007	0.02	
			CCV	ppm	0.9980	100 %	90-110	
			CCB	ppm		-0.0005	0.02	
			CCV	ppm	0.9980	97.8 %	90-110	
			CCB	ppm		0.0001	0.02	
Zinc	200.7	11/20/2009:215140	CCV	ppm	0.9990	100 %	90-110	
			CCB	ppm		0.0029	0.02	
			CCV	ppm	0.9990	100 %	90-110	
			CCB	ppm		0.0022	0.02	
			CCV	ppm	0.9990	98.1 %	90-110	
			CCB	ppm		0.0016	0.02	
Aluminum	200.8	11/24/2009:215294	CCV	ppb	120.0	95.2 %	90-110	

December 22, 2009

Las Virgenes Municipal Water District

Lab ID : SP 0911780

Customer : 2-327

## Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Aluminum	200.8	11/24/2009:215294	CCB	ppb	120.0	0.01	10	
			CCV	ppb		96.3 %	90-110	
			CCB	ppb		6.8	10	
			CCB	ppb	120.0	0.4	10	
			CCV	ppb		92.5 %	90-110	
			CCB	ppb		6.4	10	
	200.8	11/25/2009:215361	CCV	ppb	120.0	100 %	90-110	
			CCB	ppb	120.0	-0.8	10	
			CCV	ppb		99.6 %	90-110	
			CCB	ppb		-0.7	10	
			CCB	ppb	120.0	-0.8	10	
			CCV	ppb		101 %	90-110	
			CCB	ppb		-1.1	10	
	200.8	12/11/2009:215977	CCV	ppb	120.0	99.9 %	90-110	
			CCB	ppb	120.0	-0.7	10	
			CCV	ppb		97.8 %	90-110	
			CCB	ppb		-1.1	10	
Antimony	200.8	11/24/2009:215294	CCV	ppb	120.0	96.1 %	90-110	
			CCB	ppb	120.0	0.25	1	
			CCV	ppb		94.6 %	90-110	
			CCB	ppb		1.01	1	
			CCB	ppb	120.0	0.25	1	
			CCV	ppb		93.2 %	90-110	
			CCB	ppb		0.95	1	
	200.8	12/16/2009:216123	CCV	ppb	120.0	92.2 %	90-110	
			CCB	ppb	120.0	0.39	1	
			CCV	ppb		94.9 %	90-110	
			CCB	ppb		0.43	1	
Arsenic	200.8	11/24/2009:215294	CCV	ppb	120.0	97.2 %	90-110	
			CCB	ppb	120.0	-0.04	2	
			CCV	ppb		96.4 %	90-110	
			CCB	ppb		0.02	2	
			CCB	ppb	120.0	-0.02	2	
			CCV	ppb		95.2 %	90-110	
			CCB	ppb		0.16	2	
	200.8	11/25/2009:215361	ICV	ppb	120.0	98.0 %	90-110	
			ICB	ppb	120.0	0.13	2	
			CCV	ppb		103 %	90-110	
			CCB	ppb		0.009	2	
Barium	200.8	11/24/2009:215294	CCV	ppb	120.0	96.2 %	90-110	
			CCB	ppb	120.0	-0.027	0.2	
			CCV	ppb		96.4 %	90-110	
			CCB	ppb		0.234	0.2	
			CCB	ppb	120.0	-0.017	0.2	
			CCV	ppb		94.2 %	90-110	
			CCB	ppb		0.216	0.2	
	200.8	11/25/2009:215361	ICV	ppb	120.0	96.1 %	90-110	
			ICB	ppb	120.0	-0.477	0.2	
			CCV	ppb		99.4 %	90-110	
			CCB	ppb		-0.442	0.2	
Beryllium	200.8	11/25/2009:215361	ICV	ppb	120.0	91.2 %	90-110	
			ICB	ppb	120.0	0.017	0.2	
			CCV	ppb		104 %	90-110	
			CCB	ppb		0.016	0.2	

December 22, 2009  
**Las Virgenes Municipal Water District**

Lab ID : SP 0911780  
 Customer : 2-327

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b> Beryllium	200.8	11/25/2009:215361	CCB	ppb	120.0	-0.043	0.2	
			CCV	ppb		104 %	90-110	
			CCB	ppb		0.005	0.2	
			CCB	ppb		-0.076	0.2	
			CCV	ppb		103 %	90-110	
Boron	200.8	11/24/2009:215294	CCB	ppb	120.0	92.7 %	90-110	
			CCB	ppb	120.0	4.2	20	
			CCV	ppb		92.8 %	90-110	
			CCB	ppb		4.3	20	
			CCB	ppb				
	200.8	11/25/2009:215361	ICV	ppb	120.0	91.4 %	90-110	
			ICB	ppb	120.0	0.3	20	
			CCV	ppb		102 %	90-110	
			CCB	ppb	120.0	1.1	20	
			CCB	ppb		-0.3	20	
			CCV	ppb		101 %	90-110	
			CCB	ppb		0.5	20	
			CCB	ppb	120.0	-0.4	20	
			CCV	ppb		110 %	90-110	
			CCB	ppb		4.2	20	
Cadmium	200.8	11/24/2009:215294	CCV	ppb	120.0	98.1 %	90-110	
			CCB	ppb	120.0	0.000	0.2	
			CCV	ppb		97.3 %	90-110	
			CCB	ppb		0.081	0.2	
			CCB	ppb	120.0	0.008	0.2	
			CCV	ppb		95.6 %	90-110	
			CCB	ppb	120.0	0.053	0.2	
	200.8	11/25/2009:215361	ICV	ppb		97.2 %	90-110	
			ICB	ppb		0.008	0.2	
			CCV	ppb		99.7 %	90-110	
			CCB	ppb		0.004	0.2	
			CCB	ppb				
Chromium	200.8	11/24/2009:215294	CCV	ppb	120.0	95.8 %	90-110	
			CCB	ppb	120.0	-0.02	1	
			CCV	ppb		96.6 %	90-110	
			CCB	ppb		0.04	1	
			CCB	ppb	120.0	0.004	1	
			CCV	ppb		93.7 %	90-110	
			CCB	ppb	120.0	0.03	1	
	200.8	11/25/2009:215361	ICV	ppb		96.4 %	90-110	
			ICB	ppb		-0.03	1	
			CCV	ppb		100 %	90-110	
			CCB	ppb		-0.06	1	
			CCB	ppb				
Cobalt	200.8	11/24/2009:215294	CCV	ppb	120.0	95.4 %	90-110	
			CCB	ppb	120.0	0.002	0.2	
			CCV	ppb		96.4 %	90-110	
			CCB	ppb		0.051	0.2	
			CCB	ppb	120.0	0.002	0.2	
			CCV	ppb		93.4 %	90-110	
			CCB	ppb	120.0	0.052	0.2	
	200.8	11/25/2009:215361	ICV	ppb		96.2 %	90-110	
			ICB	ppb		-0.003	0.2	
			CCV	ppb		100 %	90-110	
			CCB	ppb		0.012	0.2	
			CCB	ppb				
Copper	200.8	11/24/2009:215294	CCV	ppb	120.0	95.7 %	90-110	

December 22, 2009  
**Las Virgenes Municipal Water District**

Lab ID : SP 0911780  
 Customer : 2-327

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Copper	200.8	11/24/2009:215294	CCB	ppb		0.03	1	
			CCV	ppb	120.0	98.6 %	90-110	
			CCB	ppb		0.43	1	
			CCB	ppb		0.07	1	
			CCV	ppb	120.0	94.5 %	90-110	
			CCB	ppb		0.35	1	
	200.8	11/25/2009:215361	ICV	ppb	120.0	97.0 %	90-110	
			ICB	ppb		-0.02	1	
			CCV	ppb	120.0	103 %	90-110	
			CCB	ppb		0.11	1	
Lead	200.8	11/24/2009:215294	CCV	ppb	120.0	95.3 %	90-110	
			CCB	ppb		0.012	0.2	
			CCV	ppb	120.0	95.8 %	90-110	
			CCB	ppb		0.091	0.2	
			CCB	ppb		0.016	0.2	
			CCV	ppb	120.0	93.5 %	90-110	
			CCB	ppb		0.070	0.2	
	200.8	11/25/2009:215361	ICV	ppb	120.0	95.0 %	90-110	
			ICB	ppb		0.002	0.2	
			CCV	ppb	120.0	98.4 %	90-110	
			CCB	ppb		0.028	0.2	
Nickel	200.8	11/24/2009:215294	CCV	ppb	120.0	97.5 %	90-110	
			CCB	ppb		0.12	1	
			CCV	ppb	120.0	98.2 %	90-110	
			CCB	ppb		0.22	1	
			CCB	ppb		0.18	1	
			CCV	ppb	120.0	94.8 %	90-110	
			CCB	ppb		0.23	1	
	200.8	11/25/2009:215361	ICV	ppb	120.0	97.6 %	90-110	
			ICB	ppb		0.00	1	
			CCV	ppb	120.0	102 %	90-110	
			CCB	ppb		0.21	1	
Selenium	200.8	11/24/2009:215294	CCV	ppb	120.0	102 %	90-110	
			CCB	ppb		-0.65	2	
			CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		-0.62	2	
			CCB	ppb		-0.21	2	
			CCV	ppb	120.0	96.0 %	90-110	
			CCB	ppb		0.26	2	
	200.8	11/25/2009:215361	ICV	ppb	120.0	100 %	90-110	
			ICB	ppb		0.17	2	
			CCV	ppb	120.0	104 %	90-110	
			CCB	ppb		0.42	2	
Silver	200.8	11/24/2009:215294	CCV	ppb	120.0	95.3 %	90-110	
			CCB	ppb		-0.003	1	
			CCV	ppb	120.0	95.2 %	90-110	
			CCB	ppb		0.13	1	
			CCB	ppb		0.003	1	
			CCV	ppb	120.0	93.4 %	90-110	
			CCB	ppb		0.09	1	
	200.8	11/25/2009:215361	ICV	ppb	120.0	93.7 %	90-110	
			ICB	ppb		-0.004	1	
			CCV	ppb	120.0	99.2 %	90-110	
			CCB	ppb		0.07	1	

December 22, 2009  
**Las Virgenes Municipal Water District**

Lab ID : SP 0911780  
 Customer : 2-327

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Thallium	200.8	11/24/2009:215294	CCV	ppb	120.0	97.2 %	90-110	
			CCB	ppb		0.011	0.2	
			CCV	ppb	120.0	97.4 %	90-110	
			CCB	ppb		0.096	0.2	
			CCB	ppb		0.012	0.2	
			CCV	ppb	120.0	94.9 %	90-110	
			CCB	ppb		0.076	0.2	
	200.8	11/25/2009:215361	ICV	ppb	120.0	97.7 %	90-110	
			ICB	ppb		0.014	0.2	
			CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		0.039	0.2	
Vanadium	200.8	11/24/2009:215294	CCV	ppb	120.0	95.6 %	90-110	
			CCB	ppb		-0.03	2	
			CCV	ppb	120.0	96.4 %	90-110	
			CCB	ppb		0.05	2	
			CCB	ppb		-0.02	2	
			CCV	ppb	120.0	93.7 %	90-110	
			CCB	ppb		0.04	2	
	200.8	11/25/2009:215361	ICV	ppb	120.0	96.0 %	90-110	
			ICB	ppb		-0.01	2	
			CCV	ppb	120.0	99.9 %	90-110	
			CCB	ppb		-0.03	2	
Zinc	200.8	11/25/2009:215361	ICV	ppb	120.0	98.8 %	90-110	
			ICB	ppb		-0.8	10	
			CCV	ppb	120.0	102 %	90-110	
			CCB	ppb		4.4	10	
	200.8	12/11/2009:215977	CCV	ppb	120.0	98.3 %	90-110	
			CCB	ppb		0.4	10	
Mercury	245.1	11/18/2009:215020	CCV	ppt	200.0	109 %	90-110	
			CCB	ppt		1.1	20	
			CCV	ppt	200.0	107 %	90-110	
			CCB	ppt		0.6	20	
			CCV	ppt	200.0	105 %	90-110	
			CCB	ppt		0.6	20	
Aluminum	3010	11/19/2009:212175 (SP 0911819-001)	Blank	mg/L		ND	<0.1	
			LCS	mg/L	3.992	96.6 %	85-115	
			MS	mg/L	3.992	97.9 %	75-125	
			MSD	mg/L	3.992	100 %	75-125	
			MSRPD	mg/L	0.7992	2.0%	≤20.0	
			PDS	mg/L	3.992	95.5 %	75-125	
	3010	11/23/2009:212278 (CH 0978646-001)	Blank	ug/L		13.4	10	210
			LCS	ug/L	3992	95.2 %	85-115	
			MS	ug/L	3992	93.7 %	75-125	
			MSD	ug/L	3992	90.7 %	75-125	
			MSRPD	ug/L	799.2	3.1 %	≤20.0	
			PDS	ug/L	199.6	85.4 %	75-125	
	3010	12/01/2009:212509 (SP 0912064-001)	Blank	ug/L		2.2	10	
			LCS	ug/L	199.6	104 %	85-115	
			MS	ug/L	199.6	111 %	75-125	
			MSD	ug/L	199.6	110 %	75-125	
			MSRPD	ug/L	39.96	0.3%	≤20.0	
			PDS	ug/L	199.6	105 %	75-125	



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### Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Antimony	3010	11/23/2009:212278 (CH 0978646-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	499.0	93.9 %	85-115	
			MS	ug/L	499.0	96.6 %	75-125	
			MSD	ug/L	499.0	92.9 %	75-125	
			MSRPD	ug/L	799.2	3.8%	≤20.0	
			PDS	ug/L	24.95	92.4 %	75-125	
Arsenic	3010	11/23/2009:212278 (CH 0978646-001)	Blank	ug/L		ND	<2	
			LCS	ug/L	799.2	95.5 %	85-115	
			MS	ug/L	799.2	93.4 %	75-125	
			MSD	ug/L	799.2	91.7 %	75-125	
			MSRPD	ug/L	799.2	1.9%	≤20	
			PDS	ug/L	39.96	91.4 %	75-125	
Barium	3010	11/19/2009:212175 (SP 0911819-001)	Blank	mg/L		ND	<0.005	
			LCS	mg/L	0.8000	102 %	85-115	
			MS	mg/L	0.8000	104 %	75-125	
			MSD	mg/L	0.8000	104 %	75-125	
			MSRPD	mg/L	0.7992	0.2%	≤20.0	
			PDS	mg/L	0.8000	100 %	75-125	
	3010	11/23/2009:212278 (CH 0978646-001)	Blank	ug/L		0.893	0.2	210
			LCS	ug/L	800.0	95.2 %	85-115	
			MS	ug/L	800.0	96.0 %	75-125	
			MSD	ug/L	800.0	92.9 %	75-125	
Beryllium	3010	11/23/2009:212278	MSRPD	ug/L	799.2	3.2%	≤20.0	
			PDS	ug/L	40.00	92.2 %	75-125	
			Blank	ug/L		ND	<0.2	
			PDS	ug/L	39.90	82.7 %	75-125	
			Blank	ug/L		ND	<0.10	
			PDS	ug/L	200.0	93.3 %	75-125	
Boron	3010	11/19/2009:212175 (SP 0911819-001)	Blank	mg/L		ND	<0.10	
			LCS	mg/L	4.000	97.2 %	85-115	
			MS	mg/L	4.000	100 %	75-125	
			MSD	mg/L	4.000	101 %	75-125	
			MSRPD	mg/L	0.7992	0.5%	≤20.0	
			PDS	mg/L	4.000	96.6 %	75-125	
Cadmium	3010	11/23/2009:212278 (CH 0978646-001)	Blank	ug/L		ND	<0.2	
			LCS	ug/L	799.2	94.0 %	85-115	
			MS	ug/L	799.2	95.3 %	75-125	
			MSD	ug/L	799.2	92.9 %	75-125	
			MSRPD	ug/L	799.2	2.5%	≤20	
			PDS	ug/L	39.96	90.7 %	75-125	
Calcium	3010	11/19/2009:212175 (SP 0911819-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.51	97.2 %	85-115	
			MS	mg/L	12.51	132 %	<¼	
			MSD	mg/L	12.51	129 %	<¼	
			MSRPD	mg/L	0.7992	0.5%	≤20.0	
			PDS	mg/L	12.51	91.2 %	75-125	
Chromium	3010	11/23/2009:212278 (CH 0978646-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	799.2	92.9 %	85-115	
			MS	ug/L	799.2	92.6 %	75-125	
			MSD	ug/L	799.2	89.2 %	75-125	
			MSRPD	ug/L	799.2	3.7%	≤20	
			PDS	ug/L	39.96	90.6 %	75-125	
Cobalt	3010	11/23/2009:212278	Blank	ug/L		ND	<0.2	
			LCS	ug/L	799.2	93.9 %	85-115	

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**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Metals</b>								
Cobalt	3010	(CH 0978646-001)	MS	ug/L	799.2	93.8 %	75-125	
			MSD	ug/L	799.2	90.6 %	75-125	
			MSRPD	ug/L	799.2	3.4%	≤20.0	
			PDS	ug/L	39.96	91.4 %	75-125	
Copper	3010	11/23/2009:212278  (CH 0978646-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	799.2	94.6 %	85-115	
			MS	ug/L	799.2	94.4 %	75-125	
			MSD	ug/L	799.2	91.2 %	75-125	
			MSRPD	ug/L	799.2	3.4%	≤20.0	
			PDS	ug/L	39.96	96.6 %	75-125	
Iron	3010	11/19/2009:212175  (SP 0911819-001)	Blank	mg/L		ND	<0.05	
			LCS	mg/L	3.992	103 %	85-115	
			MS	mg/L	3.992	99.0 %	75-125	
			MSD	mg/L	3.992	100 %	75-125	
			MSRPD	mg/L	0.7992	1.2%	≤20.0	
			PDS	mg/L	3.992	97.1 %	75-125	
Lead	3010	11/23/2009:212278  (CH 0978646-001)	Blank	ug/L		ND	<0.2	
			LCS	ug/L	1600	92.9 %	85-115	
			MS	ug/L	1600	93.4 %	75-125	
			MSD	ug/L	1600	91.0 %	75-125	
			MSRPD	ug/L	799.2	2.6%	≤20.0	
			PDS	ug/L	79.98	90.8 %	75-125	
Magnesium	3010	11/19/2009:212175  (SP 0911819-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.51	95.4 %	85-115	
			MS	mg/L	12.51	113 %	75-125	
			MSD	mg/L	12.51	111 %	75-125	
			MSRPD	mg/L	0.7992	0.7%	≤20.0	
			PDS	mg/L	12.51	92.7 %	75-125	
Nickel	3010	11/23/2009:212278  (CH 0978646-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	799.2	94.5 %	85-115	
			MS	ug/L	799.2	96.0 %	75-125	
			MSD	ug/L	799.2	92.0 %	75-125	
			MSRPD	ug/L	799.2	4.3%	≤20	
			PDS	ug/L	39.96	92.4 %	75-125	
Potassium	3010	11/19/2009:212175  (SP 0911819-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.50	92.3 %	85-115	
			MS	mg/L	12.50	114 %	75-125	
			MSD	mg/L	12.50	112 %	75-125	
			MSRPD	mg/L	0.7992	1.0%	≤20	
			PDS	mg/L	12.50	100 %	75-125	
Selenium	3010	11/23/2009:212278  (CH 0978646-001)	Blank	ug/L		ND	<2	
			LCS	ug/L	799.2	103 %	80-120	
			MS	ug/L	799.2	92.3 %	75-125	
			MSD	ug/L	799.2	95.2 %	75-125	
			MSRPD	ug/L	799.2	3.1%	≤20	
			PDS	ug/L	39.96	93.7 %	75-125	
Silver	3010	11/23/2009:212278  (CH 0978646-001)	Blank	ug/L		ND	<1	
			LCS	ug/L	799.2	92.5 %	85-115	
			MS	ug/L	799.2	93.1 %	75-125	
			MSD	ug/L	799.2	90.2 %	75-125	
			MSRPD	ug/L	799.2	3.2%	≤20.0	
			PDS	ug/L	39.96	89.7 %	75-125	
Sodium	3010	11/19/2009:212175	Blank	mg/L		ND	<1	
			LCS	mg/L	12.50	90.4 %	85-115	

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## Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Sodium	3010	(SP 0911819-001)	MS MSD MSRPD PDS	mg/L mg/L mg/L mg/L	12.50 12.50 0.7992 12.50	211 % 197 % 1.1% 91.8 %	<¼ <¼ ≤20.0 75-125	
Thallium	3010	11/23/2009:212278  (CH 0978646-001)	Blank LCS MS MSD MSRPD PDS	ug/L ug/L ug/L ug/L ug/L ug/L	 799.2 799.2 799.2 799.2 39.96	ND 94.1 % 94.7 % 92.3 % 2.5% 92.3 %	<0.2 85-115 75-125 75-125 ≤20.0 75-125	
Tin	3010	11/19/2009:212175  (SP 0911819-001)	Blank LCS MS MSD MSRPD PDS	mg/L mg/L mg/L mg/L mg/L mg/L	 0.4990 0.4990 0.4990 0.7992 0.4990	ND 99.4 % 97.1 % 97.6 % 0.5% 94.0 %	<0.02 85-115 75-125 75-125 ≤20 75-125	
Vanadium	3010	11/23/2009:212278  (CH 0978646-001)	Blank LCS MS MSD MSRPD PDS	ug/L ug/L ug/L ug/L ug/L ug/L	 799.2 799.2 799.2 799.2 39.96	ND 92.9 % 93.3 % 90.0 % 3.6% 90.6 %	<2 85-115 75-125 75-125 ≤20.0 75-125	
Zinc	3010	11/19/2009:212175  (SP 0911819-001)	Blank LCS MS MSD MSRPD PDS	mg/L mg/L mg/L mg/L mg/L mg/L	 1.999 1.999 1.999 0.7992 1.999	ND 99.5 % 98.2 % 98.7 % 0.5% 95.6 %	<0.02 85-115 75-125 75-125 ≤20.0 75-125	
	3010	11/23/2009:212278  (CH 0978646-001)	Blank LCS MS MSD MSRPD PDS	ug/L ug/L ug/L ug/L ug/L ug/L	 1999 1999 1999 799.2 99.96	14.8 96.9 % 96.5 % 93.7 % 3.0% 91.1 %	10 85-115 75-125 75-125 ≤20.0 75-125	210
	3010	12/01/2009:212509  (SP 0912064-001)	Blank LCS MS MSD MSRPD PDS	ug/L ug/L ug/L ug/L ug/L ug/L	 99.96 99.96 99.96 39.96 99.96	ND 99.8 % 109 % 110 % 0.2% 118 %	<10 85-115 75-125 75-125 ≤20.0 75-125	
Mercury	7470	11/18/2009:212122  (CH 0978346-001)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	 0.2000 0.2000 0.2000 0.2000	ND 105 % 116 % 116 % 0.04%	<0.02 85-115 75-125 75-125 ≤20	
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.								

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### **Quality Control - Inorganic**

<b>Definition</b>	
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.
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.
<b>Explanation</b>	
210	: The method blank was positive. However, samples reported were either ten times greater than the blank concentration or non detect and accepted.