

**EXCELCHEM**  
**Environmental Labs**

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ELAP Certificate No. : 2119

17 December 2010

Leticia Valadez

Central Valley Regional Water Quality Control Brd

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: Walker Mine

Workorder number:1011135

Enclosed are the results of analyses for samples received by the laboratory on 11/18/10 09:02. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

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John Somers, Lab Director

## Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
 11020 Sun Center Dr. #200  
 Rancho Cordova, CA 95670

Project: Walker Mine  
 Project Number: 10-026-150  
 Project Manager: Leticia Valadez

Date Reported:  
 12/17/10 14:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WM-1	1011135-01	Water	11/16/10 10:00	11/18/10 09:02
WM-2	1011135-02	Water	11/16/10 10:10	11/18/10 09:02
WM-19	1011135-03	Water	11/16/10 10:25	11/18/10 09:02
WM-3	1011135-04	Water	11/16/10 10:30	11/18/10 09:02
WM-5	1011135-05	Water	11/16/10 10:45	11/18/10 09:02
WM-7B	1011135-06	Water	11/16/10 11:10	11/18/10 09:02
WM-7C	1011135-07	Water	11/16/10 11:15	11/18/10 09:02
WM-6	1011135-08	Water	11/16/10 11:20	11/18/10 09:02
WM-7A	1011135-09	Water	11/16/10 11:45	11/18/10 09:02
WM-4	1011135-10	Water	11/16/10 12:20	11/18/10 09:02
WM-9	1011135-11	Water	11/16/10 12:30	11/18/10 09:02
WM-12	1011135-12	Water	11/16/10 12:50	11/18/10 09:02
WM-13	1011135-13	Water	11/16/10 13:00	11/18/10 09:02
WM-17	1011135-14	Water	11/16/10 13:05	11/18/10 09:02
WM-18	1011135-15	Water	11/16/10 13:30	11/18/10 09:02
WM-16	1011135-16	Water	11/16/10 13:55	11/18/10 09:02
WM-15	1011135-17	Water	11/16/10 14:00	11/18/10 09:02
WM-14	1011135-18	Water	11/16/10 14:05	11/18/10 09:02
WM-10	1011135-19	Water	11/16/10 14:45	11/18/10 09:02
WM-20	1011135-20	Water	11/16/10 15:10	11/18/10 09:02
WM-30	1011135-21	Water	11/17/10 12:00	11/18/10 09:02
WM-31	1011135-22	Water	11/17/10 12:45	11/18/10 09:02
WM-32	1011135-23	Water	11/17/10 13:00	11/18/10 09:02

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Laboratory Representative

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Date Reported:  
 12/17/10 14:20

### WM-1 1011135-01 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	12000	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	4630	50.0	"	"	"	11/29/10	"	
Potassium	919	100	"	"	"	11/29/10	"	
Sodium	4600	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	58.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	58.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	112	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.33	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	98.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	48.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	1.3	0.5	"	"	"	"	"	

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Date Reported:  
12/17/10 14:20

### WM-2 1011135-02 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	15500	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	7900	50.0	"	"	"	11/29/10	"	
Potassium	974	100	"	"	"	11/29/10	"	
Sodium	2830	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	76.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	76.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	141	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.89	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	107	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	72.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	ND	0.5	"	"	"	"	"	

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12/17/10 14:20

### WM-19 1011135-03 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>23700</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>5770</b>	50.0	"	"	"	11/29/10	"	
Potassium	ND	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>5660</b>	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
<b>Total Alkalinity</b>	<b>30.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>30.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>206</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>7.48</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>161</b>	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>170</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
<b>Sulfate as SO4</b>	<b>68.2</b>	0.5	"	"	"	"	"	

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 12/17/10 14:20

### WM-3 1011135-04 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>15000</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>6890</b>	50.0	"	"	"	"	"	
Potassium	ND	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>3100</b>	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
<b>Total Alkalinity</b>	<b>66.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>66.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>136</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>7.76</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>112</b>	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>66.0</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
<b>Chloride</b>	<b>0.5</b>	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
<b>Sulfate as SO4</b>	<b>5.0</b>	0.5	"	"	"	"	"	

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12/17/10 14:20

### WM-5 1011135-05 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	11100	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	4310	50.0	"	"	"	"	"	
Potassium	1340	100	"	"	"	11/29/10	"	
Sodium	3740	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	54.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	54.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	102	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.58	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	84.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	46.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.7	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	ND	0.5	"	"	"	"	"	

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12/17/10 14:20

### WM-7B 1011135-06 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	14900	100	ug/l	ATK0247	11/24/10	11/29/10	EPA 200.7	
Magnesium	6740	50.0	"	"	"	"	"	
Potassium	1040	100	"	"	"	11/29/10	"	
Sodium	3050	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	68.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	68.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	134	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	8.00	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	81.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	64.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.5	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	2.0	0.5	"	"	"	"	"	

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12/17/10 14:20

### WM-7C 1011135-07 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	15200	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	4510	50.0	"	"	"	"	"	
Potassium	ND	100	"	"	"	11/29/10	"	
Sodium	4260	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	60.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	60.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	128	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.54	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	32.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	58.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.6	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	5.7	0.5	"	"	"	"	"	

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12/17/10 14:20

### WM-6 1011135-08 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	26300	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	4280	50.0	"	"	"	"	"	
Potassium	4380	100	"	"	"	11/29/10	"	
Sodium	4830	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	58.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	58.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	210	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.56	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	143	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	98.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.5	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	44.6	0.5	"	"	"	"	"	

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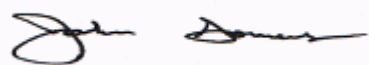
Project: Walker Mine  
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 12/17/10 14:20

#### WM-7A 1011135-09 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	14700	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	6670	50.0	"	"	"	"	"	
Potassium	1080	100	"	"	"	11/29/10	"	
Sodium	3380	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	70.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	70.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	135	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.98	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	96.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	61.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.5	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	2.1	0.5	"	"	"	"	"	

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 12/17/10 14:20

**WM-4  
 1011135-10 (Water)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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**Metals by 200 series**

<b>Calcium</b>	<b>14600</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>6940</b>	50.0	"	"	"	"	"	
<b>Potassium</b>	<b>1060</b>	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>3140</b>	200	"	"	"	11/30/10	"	

**Wet Chemistry**

<b>Total Alkalinity</b>	<b>70.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>70.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>135</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>7.86</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>97.0</b>	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>67.0</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	

**Ion Chromatography**

<b>Chloride</b>	<b>0.5</b>	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
<b>Sulfate as SO4</b>	<b>2.0</b>	0.5	"	"	"	"	"	

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Laboratory Representative

### Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### WM-9 1011135-11 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>16600</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>5200</b>	50.0	"	"	"	"	"	
<b>Potassium</b>	<b>1550</b>	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>4020</b>	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
<b>Total Alkalinity</b>	<b>64.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>64.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>137</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>7.85</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>113</b>	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>70.0</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
<b>Chloride</b>	<b>0.6</b>	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
<b>Sulfate as SO4</b>	<b>7.6</b>	0.5	"	"	"	"	"	

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Project: Walker Mine  
 Project Number: 10-026-150  
 Project Manager: Leticia Valadez

Date Reported:  
 12/17/10 14:20

#### WM-12 1011135-12 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>2620</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>1120</b>	50.0	"	"	"	"	"	
<b>Potassium</b>	<b>356</b>	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>1120</b>	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
<b>Total Alkalinity</b>	<b>14.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>14.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>25.4</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>6.50</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	ND	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>10.0</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
<b>Sulfate as SO4</b>	<b>0.5</b>	0.5	"	"	"	"	"	

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Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
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### WM-13 1011135-13 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	13900	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	5930	50.0	"	"	"	"	"	
Potassium	512	100	"	"	"	11/29/10	"	
Sodium	2640	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	64.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	64.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	121	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.28	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	93.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	62.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.5	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	ND	0.5	"	"	"	"	"	

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 Project Manager: Leticia Valadez

Date Reported:  
 12/17/10 14:20

#### WM-17 1011135-14 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	17200	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	7010	50.0	"	"	"	"	"	
Potassium	1600	100	"	"	"	11/29/10	"	
Sodium	3450	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	84.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	84.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	154	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.90	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	102	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	74.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	0.6	0.5	"	"	"	"	"	

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Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### WM-18 1011135-15 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>17300</b>	100	ug/l	ATK0247	11/24/10	11/29/10	EPA 200.7	
<b>Magnesium</b>	<b>6970</b>	50.0	"	"	"	"	"	
<b>Potassium</b>	<b>1930</b>	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>3740</b>	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
<b>Total Alkalinity</b>	<b>78.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>78.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>150</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>7.94</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>111</b>	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>70.0</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	ND	0.5	"	"	"	"	"	

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 Project Number: 10-026-150  
 Project Manager: Leticia Valadez

Date Reported:  
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#### WM-16 1011135-16 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	16300	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	6140	50.0	"	"	"	"	"	
Potassium	1190	100	"	"	"	11/29/10	"	
Sodium	3030	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	72.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	72.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	136	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	7.89	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	109	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	68.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	0.6	0.5	"	"	"	"	"	

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11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

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Project Manager: Leticia Valadez

Date Reported:  
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#### WM-15 1011135-17 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	14300	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	5500	50.0	"	"	"	"	"	
Potassium	1060	100	"	"	"	11/29/10	"	
Sodium	2820	200	"	"	"	12/01/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	68.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	68.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	121	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	8.01	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	97.0	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	62.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	0.5	0.5	"	"	"	"	"	

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11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

### WM-14 1011135-18 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	47100	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	3600	50.0	"	"	"	11/29/10	"	
Potassium	873	100	"	"	"	11/29/10	"	
Sodium	2760	200	"	"	"	11/30/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	128	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	128	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	263	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	8.00	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	165	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	138	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.5	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
Sulfate as SO4	6.6	0.5	"	"	"	"	"	

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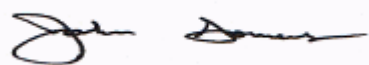
Project: Walker Mine  
 Project Number: 10-026-150  
 Project Manager: Leticia Valadez

Date Reported:  
 12/17/10 14:20

#### WM-10 1011135-19 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>19100</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>4030</b>	50.0	"	"	"	"	"	
Potassium	ND	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>4630</b>	200	"	"	"	12/01/10	"	
<b>Wet Chemistry</b>								
<b>Total Alkalinity</b>	<b>72.0</b>	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>72.0</b>	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>150</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>8.15</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>99.0</b>	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>72.0</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
<b>Chloride</b>	<b>0.5</b>	0.5	mg/L	ATK0217	11/22/10	11/22/10	EPA 300.0	
<b>Sulfate as SO4</b>	<b>6.1</b>	0.5	"	"	"	"	"	

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Project Manager: Leticia Valadez

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### WM-20 1011135-20 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	17900	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	4640	50.0	"	"	"	"	"	
Potassium	1710	100	"	"	"	11/29/10	"	
Sodium	7010	200	"	"	"	12/01/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	68.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	68.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	151	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	8.04	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	115	15.0	mg/L	ATL0022	11/23/10	12/06/10	SM 2540C	
Total Hardness	64.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	0.5	0.5	mg/L	ATK0217	11/22/10	11/23/10	EPA 300.0	
Sulfate as SO4	8.0	0.5	"	"	"	"	"	

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#### WM-30 1011135-21 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>37800</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>6810</b>	50.0	"	"	"	"	"	
<b>Potassium</b>	<b>2250</b>	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>2740</b>	200	"	"	"	12/01/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	ND	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>400</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>4.46</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>309</b>	15.0	mg/L	ATL0022	11/24/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>522</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/23/10	EPA 300.0	

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### Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### WM-30 1011135-21RE1 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Sulfate as SO4	225	5.0	mg/L	ATK0217	11/22/10	11/23/10	EPA 300.0	
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11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

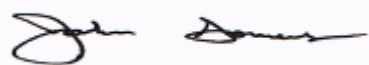
Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### WM-31 1011135-22 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
<b>Calcium</b>	<b>37600</b>	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
<b>Magnesium</b>	<b>6790</b>	50.0	"	"	"	"	"	
<b>Potassium</b>	<b>2240</b>	100	"	"	"	11/29/10	"	
<b>Sodium</b>	<b>2760</b>	200	"	"	"	12/01/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	ND	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>402</b>	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
<b>pH</b>	<b>4.44</b>	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>307</b>	15.0	mg/L	ATL0022	11/24/10	12/06/10	SM 2540C	
<b>Total Hardness</b>	<b>584</b>	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	ND	0.5	mg/L	ATK0217	11/22/10	11/23/10	EPA 300.0	

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### Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### WM-31 1011135-22RE1 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### Ion Chromatography

Sulfate as SO4	238	5.0	mg/L	ATK0217	11/22/10	11/23/10	EPA 300.0	
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Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### WM-32 1011135-23 (Water)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
<b>Metals by 200 series</b>								
Calcium	2590	100	ug/l	ATK0247	11/24/10	11/30/10	EPA 200.7	
Magnesium	1040	50.0	"	"	"	"	"	
Potassium	608	100	"	"	"	11/29/10	"	
Sodium	2440	200	"	"	"	12/01/10	"	
<b>Wet Chemistry</b>								
Total Alkalinity	18.0	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
Bicarbonate Alkalinity	18.0	5.00	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	
Specific Conductance (EC)	30.7	5.00	uS/cm	ATK0167	11/18/10	11/18/10	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	mg/L	ATK0186	11/19/10	11/19/10	SM2320B	
pH	6.88	0.100	pH Units	ATK0166	11/18/10	11/18/10	SM 4500-H+ B	Field
Total Dissolved Solids	77.0	15.0	mg/L	ATL0022	11/24/10	12/06/10	SM 2540C	
Total Hardness	12.0	5.00	"	ATK0171	11/18/10	11/18/10	SM2340B	
<b>Ion Chromatography</b>								
Chloride	1.4	0.5	mg/L	ATK0217	11/22/10	11/23/10	EPA 300.0	
Sulfate as SO4	0.6	0.5	"	"	"	"	"	

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### Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Leticia Valadez	Date Reported: 12/17/10 14:20
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#### Metals by 200 series - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0247 - EPA 200.7

##### Blank (ATK0247-BLK1)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	ND	100	ug/l
Magnesium	ND	50.0	"
Potassium	ND	100	"
Sodium	ND	200	"

##### Blank (ATK0247-BLK2)

Prepared: 11/24/10 Analyzed: 11/30/10

Calcium	ND	100	ug/l
Magnesium	ND	50.0	"
Potassium	ND	100	"
Sodium	ND	200	"

##### Blank (ATK0247-BLK3)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	ND	100	ug/l
Magnesium	ND	50.0	"
Potassium	ND	100	"
Sodium	ND	200	"

##### LCS (ATK0247-BS1)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	913	100	ug/l	1000	91.3	85-115
Magnesium	917	50.0	"	1000	91.7	85-115
Potassium	11100	100	"	10000	111	85-115
Sodium	917	200	"	1000	91.7	85-115

##### LCS (ATK0247-BS2)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	911	100	ug/l	1000	91.1	85-115
Magnesium	887	50.0	"	1000	88.7	85-115
Potassium	10900	100	"	10000	109	85-115
Sodium	936	200	"	1000	93.6	85-115

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### Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

#### Metals by 200 series - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0247 - EPA 200.7

##### LCS (ATK0247-BS3)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	949	100	ug/l	1000		94.9	85-115			
Magnesium	889	50.0	"	1000		88.9	85-115			
Potassium	10500	100	"	10000		105	85-115			
Sodium	974	200	"	1000		97.4	85-115			

##### LCS Dup (ATK0247-BSD1)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	929	100	ug/l	1000		92.9	85-115	1.69	20	
Magnesium	930	50.0	"	1000		93.0	85-115	1.42	20	
Potassium	11000	100	"	10000		110	85-115	1.14	20	
Sodium	933	200	"	1000		93.3	85-115	1.72	20	

##### LCS Dup (ATK0247-BSD2)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	899	100	ug/l	1000		89.9	85-115	1.41	20	
Magnesium	871	50.0	"	1000		87.1	85-115	1.83	20	
Potassium	10600	100	"	10000		106	85-115	3.08	20	
Sodium	955	200	"	1000		95.5	85-115	1.97	20	

##### LCS Dup (ATK0247-BSD3)

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	916	100	ug/l	1000		91.6	85-115	3.45	20	
Magnesium	894	50.0	"	1000		89.4	85-115	0.547	20	
Potassium	10500	100	"	10000		105	85-115	0.127	20	
Sodium	953	200	"	1000		95.3	85-115	2.19	20	


##### Matrix Spike (ATK0247-MS1)

Source: 1011135-06

Prepared: 11/24/10 Analyzed: 11/29/10

Calcium	15600	100	ug/l	1000	14900	75.0	75-125			
Magnesium	7720	50.0	"	1000	6740	98.3	75-125			
Potassium	11800	100	"	10000	1040	108	75-125			
Sodium	4070	200	"	1000	3050	101	75-125			

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## Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

### Metals by 200 series - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0247 - EPA 200.7

<b>Matrix Spike (ATK0247-MS2)</b>		<b>Source: 1011135-15</b>			Prepared: 11/24/10 Analyzed: 11/29/10					
Calcium	19200	100	ug/l	1000	17300	191	75-125			QL-01
Magnesium	7730	50.0	"	1000	6970	76.1	75-125			
Potassium	12700	100	"	10000	1930	108	75-125			
Sodium	4610	200	"	1000	3740	87.1	75-125			

<b>Matrix Spike (ATK0247-MS3)</b>		<b>Source: 1011135-18</b>			Prepared: 11/24/10 Analyzed: 11/30/10					
Calcium	48400	100	ug/l	1000	47100	123	75-125			
Magnesium	4640	50.0	"	1000	3600	104	75-125			
Potassium	11400	100	"	10000	873	105	75-125			
Sodium	3780	200	"	1000	2760	101	75-125			

<b>Matrix Spike Dup (ATK0247-MSD1)</b>		<b>Source: 1011135-06</b>			Prepared: 11/24/10 Analyzed: 11/29/10					
Calcium	16000	100	ug/l	1000	14900	110	75-125	2.21	25	
Magnesium	7850	50.0	"	1000	6740	111	75-125	1.61	25	
Potassium	11700	100	"	10000	1040	107	75-125	0.745	25	
Sodium	4070	200	"	1000	3050	102	75-125	0.171	25	

<b>Matrix Spike Dup (ATK0247-MSD2)</b>		<b>Source: 1011135-15</b>			Prepared: 11/24/10 Analyzed: 11/30/10					
Calcium	19200	100	ug/l	1000	17300	193	75-125	0.0799	25	QL-01
Magnesium	7820	50.0	"	1000	6970	85.3	75-125	1.18	25	
Potassium	12400	100	"	10000	1930	104	75-125	2.50	25	
Sodium	4610	200	"	1000	3740	87.2	75-125	0.0236	25	

<b>Matrix Spike Dup (ATK0247-MSD3)</b>		<b>Source: 1011135-18</b>			Prepared: 11/24/10 Analyzed: 11/30/10					
Calcium	47300	100	ug/l	1000	47100	15.6	75-125	2.25	25	QL-01
Magnesium	4690	50.0	"	1000	3600	109	75-125	1.07	25	
Potassium	11100	100	"	10000	873	103	75-125	2.20	25	
Sodium	3760	200	"	1000	2760	100	75-125	0.407	25	

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Laboratory Representative

### Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Leticia Valadez	Date Reported: 12/17/10 14:20
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#### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0166 - SM 4500-H+ B

<b>Duplicate (ATK0166-DUP1)</b>		<b>Source: 1011135-22</b>			Prepared & Analyzed: 11/18/10					
pH	4.45	0.100	pH Units		4.44			0.225	20	Field
<b>Duplicate (ATK0166-DUP2)</b>		<b>Source: 1011135-23</b>			Prepared & Analyzed: 11/18/10					
pH	6.89	0.100	pH Units		6.88			0.145	20	Field

#### Batch ATK0167 - EPA 120.1

<b>Duplicate (ATK0167-DUP1)</b>		<b>Source: 1011135-22</b>			Prepared & Analyzed: 11/18/10					
Specific Conductance (EC)	399	5.00	uS/cm		402			0.749	20	
<b>Duplicate (ATK0167-DUP2)</b>		<b>Source: 1011135-23</b>			Prepared & Analyzed: 11/18/10					
Specific Conductance (EC)	30.6	5.00	uS/cm		30.7			0.326	20	

#### Batch ATK0171 - SM2340B

<b>Blank (ATK0171-BLK1)</b>					Prepared & Analyzed: 11/18/10					
Total Hardness	ND	5.00	mg/L							
<b>LCS (ATK0171-BS1)</b>					Prepared & Analyzed: 11/18/10					
Total Hardness	56.0	5.00	mg/L	50.0		112	80-120			
<b>LCS Dup (ATK0171-BSD1)</b>					Prepared & Analyzed: 11/18/10					
Total Hardness	52.0	5.00	mg/L	50.0		104	80-120	7.41	20	
<b>Duplicate (ATK0171-DUP1)</b>		<b>Source: 1011135-12</b>			Prepared & Analyzed: 11/18/10					
Total Hardness	12.0	5.00	mg/L		10.0			18.2	200	

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## Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0171 - SM2340B

<b>Duplicate (ATK0171-DUP2)</b>		<b>Source: 1011135-23</b>			<b>Prepared &amp; Analyzed: 11/18/10</b>					
Total Hardness	16.0	5.00	mg/L		12.0			28.6	200	
<b>Matrix Spike (ATK0171-MS1)</b>		<b>Source: 1011135-01</b>			<b>Prepared &amp; Analyzed: 11/18/10</b>					
Total Hardness	98.0	5.00	mg/L	50.0	48.0	100	75-125			
<b>Matrix Spike Dup (ATK0171-MSD1)</b>		<b>Source: 1011135-01</b>			<b>Prepared &amp; Analyzed: 11/18/10</b>					
Total Hardness	98.0	5.00	mg/L	50.0	48.0	100	75-125	0.00	20	

#### Batch ATK0186 - SM2320B

<b>Blank (ATK0186-BLK1)</b>				<b>Prepared &amp; Analyzed: 11/19/10</b>						
Bicarbonate Alkalinity	ND	5.00	mg/L							
Carbonate Alkalinity	ND	5.00	"							
Hydroxide Alkalinity	ND	5.00	"							
Total Alkalinity	ND	5.00	"							
<b>Blank (ATK0186-BLK2)</b>				<b>Prepared &amp; Analyzed: 11/22/10</b>						
Bicarbonate Alkalinity	ND	5.00	mg/L							
Carbonate Alkalinity	ND	5.00	"							
Hydroxide Alkalinity	ND	5.00	"							
Total Alkalinity	ND	5.00	"							
<b>LCS (ATK0186-BS1)</b>				<b>Prepared &amp; Analyzed: 11/19/10</b>						
Total Alkalinity	104	5.00	mg/L	100		104	80-120			
<b>LCS (ATK0186-BS2)</b>				<b>Prepared &amp; Analyzed: 11/22/10</b>						
Total Alkalinity	118	5.00	mg/L	100		118	80-120			

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## Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0186 - SM2320B

##### LCS Dup (ATK0186-BSD1)

Prepared & Analyzed: 11/19/10

Total Alkalinity	106	5.00	mg/L	100		106	80-120	1.90	20
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##### LCS Dup (ATK0186-BSD2)

Prepared & Analyzed: 11/22/10

Total Alkalinity	98.0	5.00	mg/L	100		98.0	80-120	18.5	20
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##### Duplicate (ATK0186-DUP1)

Source: 1011135-10

Prepared & Analyzed: 11/19/10

Bicarbonate Alkalinity	64.0	5.00	mg/L		70.0			8.96	20
Carbonate Alkalinity	ND	5.00	"		ND				20
Hydroxide Alkalinity	ND	5.00	"		ND				20
Total Alkalinity	64.0	5.00	"		70.0			8.96	20

##### Duplicate (ATK0186-DUP2)

Source: 1011135-11

Prepared & Analyzed: 11/19/10

Bicarbonate Alkalinity	62.0	5.00	mg/L		64.0			3.17	20
Carbonate Alkalinity	ND	5.00	"		ND				20
Hydroxide Alkalinity	ND	5.00	"		ND				20
Total Alkalinity	62.0	5.00	"		64.0			3.17	20

##### Matrix Spike (ATK0186-MS1)

Source: 1011135-02

Prepared & Analyzed: 11/19/10

Total Alkalinity	180	5.00	mg/L	100	76.0	104	80-120
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##### Matrix Spike (ATK0186-MS2)

Source: 1011135-03

Prepared & Analyzed: 11/22/10

Total Alkalinity	136	5.00	mg/L	100	30.0	106	80-120
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##### Matrix Spike Dup (ATK0186-MSD1)

Source: 1011135-02

Prepared & Analyzed: 11/19/10

Total Alkalinity	182	5.00	mg/L	100	76.0	106	80-120	1.10	20
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##### Matrix Spike Dup (ATK0186-MSD2)

Source: 1011135-03

Prepared & Analyzed: 11/22/10

Total Alkalinity	136	5.00	mg/L	100	30.0	106	80-120	0.00	20
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### Excelchem Environmental Labs

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#### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch ATL0022 - SM 2540C**

<b>Blank (ATL0022-BLK1)</b>										
					Prepared: 11/24/10 Analyzed: 12/06/10					
Total Dissolved Solids	ND	15.0	mg/L							
<b>Blank (ATL0022-BLK2)</b>										
					Prepared: 11/24/10 Analyzed: 12/06/10					
Total Dissolved Solids	ND	15.0	mg/L							
<b>Duplicate (ATL0022-DUP1)</b>										
			<b>Source: 1011135-08</b>		Prepared: 11/24/10 Analyzed: 12/06/10					
Total Dissolved Solids	154	15.0	mg/L		143			7.41	20	
<b>Duplicate (ATL0022-DUP2)</b>										
			<b>Source: 1011135-22</b>		Prepared: 11/24/10 Analyzed: 12/06/10					
Total Dissolved Solids	316	15.0	mg/L		307			2.89	20	

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

Central Valley Regional Water Quality Control Brd  
11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

### Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch ATK0217 - EPA 300.0

##### Blank (ATK0217-BLK1)

Prepared & Analyzed: 11/22/10

Chloride	ND	0.5	mg/L						
Sulfate as SO4	ND	0.5	"						

##### Blank (ATK0217-BLK2)

Prepared & Analyzed: 11/22/10

Chloride	ND	0.5	mg/L						
Sulfate as SO4	ND	0.5	"						

##### LCS (ATK0217-BS1)

Prepared & Analyzed: 11/22/10

Chloride	10.4	0.5	mg/L	10.0	104	80-120			
Sulfate as SO4	9.0	0.5	"	10.0	90.2	80-120			

##### LCS (ATK0217-BS2)

Prepared: 11/22/10 Analyzed: 11/30/10

Chloride	10.1	0.5	mg/L	10.0	101	80-120			
Sulfate as SO4	10.5	0.5	"	10.0	105	80-120			

##### LCS Dup (ATK0217-BSD1)

Prepared & Analyzed: 11/22/10

Chloride	11.4	0.5	mg/L	10.0	114	80-120	8.91	20	
Sulfate as SO4	9.6	0.5	"	10.0	95.5	80-120	5.79	20	

##### LCS Dup (ATK0217-BSD2)

Prepared: 11/22/10 Analyzed: 11/30/10

Chloride	10.2	0.5	mg/L	10.0	102	80-120	0.733	20	
Sulfate as SO4	10.6	0.5	"	10.0	106	80-120	1.04	20	

##### Duplicate (ATK0217-DUP1)

Source: 1011135-19

Prepared & Analyzed: 11/22/10

Chloride	0.6	0.5	mg/L		0.5		12.1	20	
Sulfate as SO4	6.5	0.5	"		6.1		5.84	20	

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Date Reported:  
12/17/10 14:20

### Notes and Definitions

- QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- Field This analyte was analyzed outside of the EPA recommended hold time of ASAP and should be analyzed in the field.
- ND Analyte not detected at reporting limit.
- NR Not reported

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Project: Walker Mine  
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Project Manager: Leticia Valadez

Date Reported:  
12/17/10 14:20

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST						
1135 W. Sunset Blvd. Unit A Rocklin, CA. 95765 Ph: 916-543-4445 Fax: 916-543-4449		Electronic Data Deliverables Request Email Address: <i>shue@centralvalleywaterboards.ca.gov</i>				
Project Manager: <i>Leticia Valadez</i> Lab: <i>916/464-4634</i>		Project Name: <i>Walker Mine</i> Sample Signature: <i>Leticia Valadez</i>				
Company Address: <i>Central Valley Water Board</i> 11020 Sun Center Drive, #200 Rancho Cordova, CA 95670		Project Location: <i>Thomas County</i>				
Project Number/P.O.#: <i>10-026-150</i>		Project Number: <i>Walker Mine</i>				
Sample ID	Sampling Date Time	Container	Method Preserved	Matrix	ANALYSIS REQUEST	
					Requested TAT: 12hr/24hr/48hr/72hr/Standard	LAB USE ONLY
WM-1	11/16/10 10:00	3	NONE	Water	01	
WM-2	10:10		NONE	Water	02	
WM-1A	10:25		NONE	Water	03	
WM-3	10:30		NONE	Water	04	
WM-5	10:45		NONE	Water	05	
WM-7B	11:10		NONE	Water	06	
WM-7C	11:15		NONE	Water	07	
WM-6	11:20		NONE	Water	08	
WM-7A	11:45		NONE	Water	09	
WM-4	12:20		NONE	Water	10	
WM-9	12:30		NONE	Water	11	
WM-11	12:45 No		NONE	Water		
Requisitioned by: <i>Leticia Valadez</i>					Remarks/Condition of Sample: <i>Filter unpressured samples upon receipt for dissolved metals</i>	
Relinquished by: <i>Leticia Valadez</i>					Bill To:	
Received by Laboratory: <i>5-2</i>					Date: <i>11-18-10 8:40</i>	
Received by Laboratory: <i>5-2</i>					Date: <i>11/18/10 09:02</i>	

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 11020 Sun Center Dr. #200  
 Rancho Cordova, CA 95670

Project: Walker Mine  
 Project Number: 10-026-150  
 Project Manager: Leticia Valadez

Date Reported:  
 12/17/10 14:20

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		ANALYSIS REQUEST	
1135 W. Sunset Blvd. Unit A Rocklin, CA 95765 Ph: 916-543-4445 Fax: 916-543-4449 Project Manager: Leticia Valadez Lab: (916) 464-4634		Electronic Data Deliverables Request: Email Address: Jhuggins@waterboards.ca.gov Page 2 of 3	
Company/Address: Central Valley Water Board 11020 Sun Center Drive, #200 Rancho Cordova, CA 95670 Project Number/Cell: 10-026-150 Project Location: Plumas County		Requested TAT: 12hr/24hr/48hr/72hr/Standard Chloride, Sulfate, Nitrate, Ammonia, Kjeldahl Metals = Metals = Metals = Tphg/BTEX/5 Oxygenates (8260B) Lead Scavengers DCA/EDB (8260B) 5 Oxygenates (8260B) Methanol (6015M) Ethanol (8260) MTBE (8021/8260B) circle the method VOC Full list (8260B) Semi VOC Full list (8270C) Chlorinated Hydrocarbons (8151) Organophosphorous Pesticide (8141) Pesticides (608/8081A) - PCBs (8082) Total Oil & Grease (SM-18th 5520)1664 TPH as Oil (8015m) TPH as Diesel (8015m) BTEX - TPH as Gasoline (602/8021/8015)	
Project Name: Walker Mine Sampler Signature: J. Huggins		LAB USE ONLY 12 13 14 15 16 17 18 19 20	
Sample ID	Sampling		Matrix
	Date	Time	
WM-12	11-16-10	12:30	WATER
WM-13	11-16-10	1:00	WATER
WM-17	11-16-10	1:05	WATER
WM-18	11-16-10	13:30	WATER
WM-16	11-16-10	13:55	WATER
WM-15	11-16-10	14:00	WATER
WM-14	11-16-10	14:05	WATER
WM-10	11-16-10	14:45	WATER
WM-20	11-16-10	15:10	WATER
Relinquished by: J. Huggins		Date: 11-18-10	Time: 9:45
Relinquished by: S. J.		Date: 11/18/10	Time: 0902
Remarks/Condition of Sample: Filter unpreserved samples upon receipt for dissolved metals.			
Bill To:			

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Project: Walker Mine  
 Project Number: 10-026-150  
 Project Manager: Leticia Valadez

Date Reported:  
 12/17/10 14:20

#### Sample Integrity

**WORK ORDER** 101135

Date Received: 11/18/10

#### Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: \_\_\_\_\_  
 Transported In: Ice Chest Box Hand  
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A  
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice  
 Temperature of Samples (°C): 4 Ice Chest Temperature(s) (°C): 2  
 Was temperature In Range?: Y N

#### Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		WM-14 & 15 See
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?	<input checked="" type="checkbox"/>			
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

#### Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		On separate sheet
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				A	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					A	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

#### Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes  No  N/A  Notified by: \_\_\_\_\_  
 Explanations/Comments: WM-14 is written on 4 bottles however WM-15 is at 1400 & WM-14 is written as the sample time from WM-15.

Samples Labeled by: SRE  
 Labels reviewed by: [Signature]  
 Bin #: P14, P15, P16  
 COC Scanned/Attached by: S

Form completed by: [Signature] Date/Time: 11/18/10 9:20

[Signature]