

**EXCELCHEM**  
**Environmental Labs**

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ELAP Certificate No. : 2119

23 November 2011

Jeff Huggins

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: Walker Mine

Work order number:1111071

Enclosed are the results of analyses for samples received by the laboratory on 11/03/11 08:48. 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,

John Somers, Lab Director

## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WM-1	1111071-01	Water	11/01/11 10:15	11/03/11 08:48
WM-2	1111071-02	Water	11/01/11 10:20	11/03/11 08:48
WM-3	1111071-03	Water	11/01/11 13:15	11/03/11 08:48
WM-7c	1111071-04	Water	11/01/11 13:45	11/03/11 08:48
WM-7b	1111071-05	Water	11/01/11 13:40	11/03/11 08:48
WM-6	1111071-06	Water	11/01/11 14:00	11/03/11 08:48
WM-7a	1111071-07	Water	11/01/11 14:30	11/03/11 08:48
WM-2	1111071-08	Water	11/01/11 14:45	11/03/11 08:48
WM-4	1111071-09	Water	11/02/11 08:30	11/03/11 08:48
WM-9	1111071-10	Water	11/02/11 08:40	11/03/11 08:48
WM-20	1111071-11	Water	11/02/11 08:50	11/03/11 08:48
WM-11	1111071-12	Water	11/02/11 09:15	11/03/11 08:48
WM-12	1111071-13	Water	11/02/11 09:30	11/03/11 08:48
WM-13	1111071-14	Water	11/02/11 09:35	11/03/11 08:48
WM-17	1111071-15	Water	11/02/11 09:45	11/03/11 08:48
WM-19	1111071-16	Water	11/01/11 13:20	11/03/11 08:48

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Laboratory Representative

## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-1 1111071-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

<b>Dissolved Aluminum</b>	<b>74.5</b>	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
<b>Aluminum</b>	<b>108</b>	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Arsenic</b>	<b>13.2</b>	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
<b>Arsenic</b>	<b>13.2</b>	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>13100</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>79.4</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Copper</b>	<b>80.3</b>	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>240</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>267</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>5250</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>964</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>4700</b>	200	120	"	"	"	"	"	
<b>Dissolved Zinc</b>	<b>25.5</b>	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
<b>Zinc</b>	<b>29.1</b>	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>64.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>64.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>121</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.44</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>86.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>54.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

**Excelchem Environmental Labs**

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-1  
1111071-01 (Water)**

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

<b>Chloride</b>	<b>0.6</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>1.4</b>	0.5	0.03	"	"	"	"	"	

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**WM-2  
1111071-02 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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**METALS BY 6000/7000 SERIES**

<b>Dissolved Aluminum</b>	<b>78.7</b>	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
<b>Aluminum</b>	<b>114</b>	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>15900</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>108</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>118</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>7840</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>958</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>2970</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

**Wet Chemistry**

<b>Total Alkalinity</b>	<b>78.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>78.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>144</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.81</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>84.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>68.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

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**WM-2**  
**1111071-02 (Water)**

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

Chloride	0.9	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
Sulfate as SO4	0.5	0.5	0.03	"	"	"	"	"	

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**WM-3  
1111071-03 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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**METALS BY 6000/7000 SERIES**

<b>Dissolved Aluminum</b>	<b>66.5</b>	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
<b>Aluminum</b>	<b>119</b>	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>14900</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>6.1</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>652</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>656</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>7180</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>897</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>2920</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

**Wet Chemistry**

<b>Total Alkalinity</b>	<b>72.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>72.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>136</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.76</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>81.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>66.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-3  
1111071-03 (Water)**

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

<b>Chloride</b>	<b>0.8</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>1.6</b>	0.5	0.03	"	"	"	"	"	

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Laboratory Representative

### Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

#### WM-7c 1111071-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>15100</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>12.8</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Copper</b>	<b>10.9</b>	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>330</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>312</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>6950</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>891</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>3590</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>70.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>70.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>135</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>8.14</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>84.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>64.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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**WM-7c  
1111071-04 (Water)**

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

<b>Chloride</b>	<b>1.5</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>2.4</b>	0.5	0.03	"	"	"	"	"	

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### Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-7b**  
**1111071-05 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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**METALS BY 6000/7000 SERIES**

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>17900</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>880</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>900</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>5070</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>1720</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>4670</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

**Wet Chemistry**

<b>Total Alkalinity</b>	<b>66.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>66.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>148</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.32</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>79.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>64.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

**Excelchem Environmental Labs**

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-7b  
1111071-05 (Water)**

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

<b>Chloride</b>	<b>0.8</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>9.9</b>	0.5	0.03	"	"	"	"	"	

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Laboratory Representative

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-6 1111071-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>26800</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>69.5</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Copper</b>	<b>69.5</b>	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>390</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>466</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>3630</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>2620</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>5480</b>	200	120	"	"	"	"	"	
<b>Dissolved Zinc</b>	<b>39.8</b>	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
<b>Zinc</b>	<b>40.5</b>	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>72.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>72.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>193</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>8.00</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>147</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>82.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-6  
1111071-06 (Water)**

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

Chloride	0.8	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
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**Excelchem Environmental Labs**

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-6  
1111071-06RE1 (Water)**

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

Sulfate as SO4	26.2	2.5	0.1	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-7a 1111071-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>15200</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>14.4</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Copper</b>	<b>12.2</b>	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>368</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>374</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>6990</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>933</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>3280</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>72.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>72.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>138</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>8.02</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>112</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>64.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

**Excelchem Environmental Labs**

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-7a  
1111071-07 (Water)**

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

<b>Chloride</b>	<b>0.9</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>2.2</b>	0.5	0.03	"	"	"	"	"	

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### Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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#### WM-2 1111071-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>12900</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>361</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>366</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>4960</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>1390</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>3970</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>62.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>62.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>118</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.56</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>94.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>50.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

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**Excelchem Environmental Labs**

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-2  
1111071-08 (Water)**

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

<b>Chloride</b>	<b>0.8</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>1.0</b>	0.5	0.03	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-4 1111071-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>14900</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>14.1</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Copper</b>	<b>11.9</b>	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>242</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>248</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>7100</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>946</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>3170</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>72.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>72.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>138</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.86</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>121</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>66.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

#### WM-4 1111071-09 (Water)

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

Chloride	0.8	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
Sulfate as SO4	2.0	0.5	0.03	"	"	"	"	"	

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**Excelchem Environmental Labs**

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-9  
1111071-10 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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**METALS BY 6000/7000 SERIES**

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>18200</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>541</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>560</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>6100</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>1460</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>4190</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

**Wet Chemistry**

<b>Total Alkalinity</b>	<b>72.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>72.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>153</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.88</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>122</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>68.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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**WM-9  
1111071-10 (Water)**

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

<b>Chloride</b>	<b>1.1</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>8.3</b>	0.5	0.03	"	"	"	"	"	

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### Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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#### WM-20 1111071-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>19200</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>142</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>150</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>5160</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>1630</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>7160</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>76.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>76.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>163</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.95</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>114</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>66.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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**WM-20  
1111071-11 (Water)**

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

<b>Chloride</b>	<b>1.4</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>10.9</b>	0.5	0.03	"	"	"	"	"	

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-11 1111071-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>5360</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>37.8</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>37.5</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>1610</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>479</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>2330</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>26.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>26.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>46.8</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.47</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>60.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>26.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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**WM-11  
1111071-12 (Water)**

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

<b>Chloride</b>	<b>0.8</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>1.0</b>	0.5	0.03	"	"	"	"	"	

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**WM-12  
1111071-13 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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**METALS BY 6000/7000 SERIES**

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
<b>Aluminum</b>	<b>77.6</b>	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>2080</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>31.0</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>37.2</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>917</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>382</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>1100</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

**Wet Chemistry**

<b>Total Alkalinity</b>	<b>14.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>14.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>20.2</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>6.38</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>42.0</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>18.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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**WM-12  
1111071-13 (Water)**

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

<b>Chloride</b>	<b>0.5</b>	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
<b>Sulfate as SO4</b>	<b>0.7</b>	0.5	0.03	"	"	"	"	"	

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-13 1111071-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	10.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>10100</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Iron	ND	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
Iron	ND	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>4300</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>384</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>2580</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>58.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>58.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>88.7</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>6.98</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
Total Dissolved Solids	ND	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>42.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

**WM-13  
1111071-14 (Water)**

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

Chloride	1.0	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
Sulfate as SO4	1.4	0.5	0.03	"	"	"	"	"	

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Laboratory Representative

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

#### WM-17 1111071-15 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>17900</b>	100	79.0	"	"	"	"	"	
Dissolved Copper	ND	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
Copper	ND	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Iron	ND	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
Iron	ND	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>7210</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>1560</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>3540</b>	200	120	"	"	"	"	"	
Dissolved Zinc	ND	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
Zinc	ND	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>74.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>74.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>157</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.99</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>113</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>72.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

**WM-17  
1111071-15 (Water)**

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

Chloride	0.9	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
Sulfate as SO4	1.3	0.5	0.03	"	"	"	"	"	

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Laboratory Representative

## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### WM-19 1111071-16 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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#### METALS BY 6000/7000 SERIES

Dissolved Aluminum	ND	50.0	19.0	ug/l	AUK0218	11/17/11	11/18/11	EPA 6010B	
Aluminum	ND	50.0	19.0	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Arsenic	ND	5.0	0.9	"	AUK0218	11/17/11	11/18/11	"	
Arsenic	ND	5.0	0.9	"	AUK0182	11/15/11	11/16/11	"	
Dissolved Cadmium	ND	5.0	0.4	"	AUK0218	11/17/11	11/18/11	"	
Cadmium	ND	5.0	0.4	"	AUK0182	11/15/11	11/16/11	"	
<b>Calcium</b>	<b>14500</b>	100	79.0	"	"	"	"	"	
<b>Dissolved Copper</b>	<b>327</b>	5.0	1.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Copper</b>	<b>328</b>	5.0	1.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Dissolved Iron</b>	<b>177</b>	20.0	11.0	"	AUK0218	11/17/11	11/18/11	"	
<b>Iron</b>	<b>190</b>	20.0	11.0	"	AUK0182	11/15/11	11/16/11	"	
<b>Magnesium</b>	<b>4760</b>	50.0	13.0	"	"	"	"	"	
<b>Potassium</b>	<b>1340</b>	100	57.0	"	"	"	"	"	
<b>Sodium</b>	<b>4580</b>	200	120	"	"	"	"	"	
<b>Dissolved Zinc</b>	<b>35.9</b>	20.0	4.5	"	AUK0218	11/17/11	11/18/11	"	
<b>Zinc</b>	<b>35.9</b>	20.0	4.5	"	AUK0182	11/15/11	11/16/11	"	

#### Wet Chemistry

<b>Total Alkalinity</b>	<b>48.0</b>	5.00	2.37	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>Bicarbonate Alkalinity</b>	<b>48.0</b>	5.00	0.410	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	0.410	"	"	"	"	"	
<b>Specific Conductance (EC)</b>	<b>133</b>	5.00	1.00	uS/cm	AUK0072	11/04/11	11/04/11	EPA 120.1	
Hydroxide Alkalinity	ND	5.00	0.410	mg/L	AUK0129	11/09/11	11/09/11	SM2320B	
<b>pH</b>	<b>7.70</b>	0.100	0.100	pH Units	AUK0071	11/04/11	11/04/11	SM 4500-H+ B	Field
<b>Total Dissolved Solids</b>	<b>114</b>	15.0	5.00	mg/L	AUK0128	11/04/11	11/10/11	SM 2540C	
<b>Total Hardness</b>	<b>56.0</b>	5.00	2.86	"	AUK0117	11/04/11	11/04/11	SM2340B	

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Laboratory Representative

### Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

#### WM-19 1111071-16 (Water)

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

Chloride	0.8	0.5	0.02	mg/L	AUK0152	11/04/11	11/04/11	EPA 300.0	
Sulfate as SO4	19.1	0.5	0.03	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

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**Excelchem Environmental Labs**

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

**METALS BY 6000/7000 SERIES - Quality Control**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AUK0182 - EPA 6010B**

**Blank (AUK0182-BLK1)**

Prepared: 11/15/11 Analyzed: 11/16/11

Aluminum	ND	50.0		ug/l							
Arsenic	ND	5.0		"							
Cadmium	ND	5.0		"							
Calcium	ND	100		"							
Copper	ND	5.0		"							
Iron	ND	20.0		"							
Magnesium	ND	50.0		"							
Potassium	ND	100		"							
Sodium	ND	200		"							
Zinc	ND	20.0		"							

**LCS (AUK0182-BS1)**

Prepared: 11/15/11 Analyzed: 11/16/11

Aluminum	989	50.0		ug/l	1000		98.9	80-120			
Arsenic	910	5.0		"	1000		91.0	80-120			
Cadmium	920	5.0		"	1000		92.0	80-120			
Calcium	951	100		"	1000		95.1	80-120			
Copper	939	5.0		"	1000		93.9	80-120			
Iron	945	20.0		"	1000		94.5	80-120			
Magnesium	940	50.0		"	1000		94.0	80-120			
Potassium	9390	100		"	10000		93.9	80-120			
Sodium	955	200		"	1000		95.5	80-120			
Zinc	911	20.0		"	1000		91.1	80-120			

**LCS Dup (AUK0182-BSD1)**

Prepared: 11/15/11 Analyzed: 11/16/11

Aluminum	962	50.0		ug/l	1000		96.2	80-120	2.69		25
Arsenic	924	5.0		"	1000		92.4	80-120	1.60		25
Cadmium	934	5.0		"	1000		93.4	80-120	1.51		25
Calcium	975	100		"	1000		97.5	80-120	2.54		25
Copper	956	5.0		"	1000		95.6	80-120	1.81		25
Iron	967	20.0		"	1000		96.7	80-120	2.31		25
Magnesium	961	50.0		"	1000		96.1	80-120	2.17		25
Potassium	9490	100		"	10000		94.9	80-120	1.09		25
Sodium	961	200		"	1000		96.1	80-120	0.647		25
Zinc	927	20.0		"	1000		92.7	80-120	1.71		25

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Laboratory Representative

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

**METALS BY 6000/7000 SERIES - Quality Control**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AUK0182 - EPA 6010B**

**Matrix Spike (AUK0182-MS1)**

Source: 1111071-01

Prepared: 11/15/11 Analyzed: 11/16/11

Aluminum	1140	50.0		ug/l	1000	108	103	75-125			
Arsenic	926	5.0		"	1000	13.2	91.3	75-125			
Cadmium	921	5.0		"	1000	ND	92.1	75-125			
Calcium	14000	100		"	1000	13100	87.0	75-125			
Copper	1020	5.0		"	1000	80.3	94.0	75-125			
Iron	1230	20.0		"	1000	267	96.3	75-125			
Magnesium	6140	50.0		"	1000	5250	89.4	75-125			
Potassium	10800	100		"	10000	964	98.5	75-125			
Sodium	5650	200		"	1000	4700	95.4	75-125			
Zinc	927	20.0		"	1000	29.1	89.8	75-125			

**Matrix Spike Dup (AUK0182-MSD1)**

Source: 1111071-01

Prepared: 11/15/11 Analyzed: 11/16/11

Aluminum	1100	50.0		ug/l	1000	108	99.3	75-125	3.13	25	
Arsenic	924	5.0		"	1000	13.2	91.1	75-125	0.216	25	
Cadmium	922	5.0		"	1000	ND	92.2	75-125	0.0977	25	
Calcium	14000	100		"	1000	13100	85.0	75-125	0.143	25	
Copper	1010	5.0		"	1000	80.3	92.9	75-125	1.08	25	
Iron	1230	20.0		"	1000	267	96.4	75-125	0.0813	25	
Magnesium	6150	50.0		"	1000	5250	89.9	75-125	0.0813	25	
Potassium	10400	100		"	10000	964	94.5	75-125	3.77	25	
Sodium	5630	200		"	1000	4700	93.1	75-125	0.408	25	
Zinc	924	20.0		"	1000	29.1	89.5	75-125	0.367	25	

**Batch AUK0218 - EPA 6010B**

**Blank (AUK0218-BLK1)**

Prepared: 11/17/11 Analyzed: 11/18/11

Dissolved Aluminum	ND	50.0		ug/l							
Dissolved Arsenic	ND	5.0		"							
Dissolved Cadmium	ND	5.0		"							
Dissolved Copper	ND	5.0		"							
Dissolved Iron	ND	20.0		"							
Dissolved Zinc	ND	20.0		"							

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**Excelchem Environmental Labs**

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

**METALS BY 6000/7000 SERIES - Quality Control**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AUK0218 - EPA 6010B**

**LCS (AUK0218-BS1)**

Prepared: 11/17/11 Analyzed: 11/18/11

Dissolved Aluminum	968	50.0		ug/l	1000		96.8	80-120			
Dissolved Arsenic	958	5.0		"	1000		95.8	80-120			
Dissolved Cadmium	972	5.0		"	1000		97.2	80-120			
Dissolved Copper	995	5.0		"	1000		99.5	80-120			
Dissolved Iron	1010	20.0		"	1000		101	80-120			
Dissolved Zinc	950	20.0		"	1000		95.0	80-120			

**LCS Dup (AUK0218-BS1)**

Prepared: 11/17/11 Analyzed: 11/18/11

Dissolved Aluminum	964	50.0		ug/l	1000		96.4	80-120	0.383	25	
Dissolved Arsenic	928	5.0		"	1000		92.8	80-120	3.25	25	
Dissolved Cadmium	948	5.0		"	1000		94.8	80-120	2.51	25	
Dissolved Copper	964	5.0		"	1000		96.4	80-120	3.17	25	
Dissolved Iron	986	20.0		"	1000		98.6	80-120	2.04	25	
Dissolved Zinc	921	20.0		"	1000		92.1	80-120	3.10	25	

**Matrix Spike (AUK0218-MS1)**

Source: 1111071-08

Prepared: 11/17/11 Analyzed: 11/18/11

Dissolved Aluminum	992	50.0		ug/l	1000	ND	99.2	75-125			
Dissolved Arsenic	912	5.0		"	1000	ND	91.2	75-125			
Dissolved Cadmium	928	5.0		"	1000	ND	92.8	75-125			
Dissolved Copper	928	5.0		"	1000	ND	92.8	75-125			
Dissolved Iron	1330	20.0		"	1000	361	96.8	75-125			
Dissolved Zinc	901	20.0		"	1000	ND	90.1	75-125			

**Matrix Spike Dup (AUK0218-MS1)**

Source: 1111071-08

Prepared: 11/17/11 Analyzed: 11/18/11

Dissolved Aluminum	1010	50.0		ug/l	1000	ND	101	75-125	1.67	25	
Dissolved Arsenic	935	5.0		"	1000	ND	93.5	75-125	2.56	25	
Dissolved Cadmium	951	5.0		"	1000	ND	95.1	75-125	2.42	25	
Dissolved Copper	957	5.0		"	1000	ND	95.7	75-125	3.02	25	
Dissolved Iron	1360	20.0		"	1000	361	99.5	75-125	2.01	25	
Dissolved Zinc	920	20.0		"	1000	ND	92.0	75-125	2.10	25	

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Laboratory Representative

### Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AUK0071 - SM 4500-H+ B

<b>Duplicate (AUK0071-DUP1)</b>		<b>Source: 1111071-08</b>			<b>Prepared &amp; Analyzed: 11/04/11</b>						
pH	7.55	0.100		pH Units		7.56			0.132	20	
<b>Duplicate (AUK0071-DUP2)</b>		<b>Source: 1111071-16</b>			<b>Prepared &amp; Analyzed: 11/04/11</b>						
pH	7.68	0.100		pH Units		7.70			0.260	20	

#### Batch AUK0072 - EPA 120.1

<b>Duplicate (AUK0072-DUP1)</b>		<b>Source: 1111071-08</b>			<b>Prepared &amp; Analyzed: 11/04/11</b>						
Specific Conductance (EC)	117	5.00		uS/cm		118			0.768	20	
<b>Duplicate (AUK0072-DUP2)</b>		<b>Source: 1111071-16</b>			<b>Prepared &amp; Analyzed: 11/04/11</b>						
Specific Conductance (EC)	133	5.00		uS/cm		133			0.0753	20	

#### Batch AUK0117 - SM2340B

<b>Blank (AUK0117-BLK1)</b>					<b>Prepared &amp; Analyzed: 11/04/11</b>						
Total Hardness	ND	5.00		mg/L							
<b>LCS (AUK0117-BS1)</b>					<b>Prepared &amp; Analyzed: 11/04/11</b>						
Total Hardness	52.0	5.00		mg/L	50.0	104	80-120				
<b>LCS Dup (AUK0117-BSD1)</b>					<b>Prepared &amp; Analyzed: 11/04/11</b>						
Total Hardness	52.0	5.00		mg/L	50.0	104	80-120	0.00	20		
<b>Duplicate (AUK0117-DUP1)</b>		<b>Source: 1111071-08</b>			<b>Prepared &amp; Analyzed: 11/04/11</b>						
Total Hardness	50.0	5.00		mg/L		50.0			0.00	20	

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Laboratory Representative

### Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

#### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AUK0117 - SM2340B

##### Matrix Spike (AUK0117-MS1)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Total Hardness	118	5.00		mg/L	50.0	68.0	100	75-125		
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##### Matrix Spike Dup (AUK0117-MSD1)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Total Hardness	118	5.00		mg/L	50.0	68.0	100	75-125	0.00	20
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#### Batch AUK0128 - SM 2540C

##### Blank (AUK0128-BLK1)

Prepared: 11/04/11 Analyzed: 11/10/11

Total Dissolved Solids	ND	15.0		mg/L						
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##### Duplicate (AUK0128-DUP1)

Source: 1111071-01

Prepared: 11/04/11 Analyzed: 11/10/11

Total Dissolved Solids	92.0	15.0		mg/L		86.0			6.74	20
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#### Batch AUK0129 - SM2320B

##### Blank (AUK0129-BLK1)

Prepared & Analyzed: 11/09/11

Bicarbonate Alkalinity	ND	5.00		mg/L						
Carbonate Alkalinity	ND	5.00		"						
Hydroxide Alkalinity	ND	5.00		"						
Total Alkalinity	ND	5.00		"						

##### LCS (AUK0129-BS1)

Prepared & Analyzed: 11/09/11

Bicarbonate Alkalinity	108	5.00		mg/L	100		108	80-120		
Total Alkalinity	108	5.00		"	100		108	80-120		

##### LCS Dup (AUK0129-BSD1)

Prepared & Analyzed: 11/09/11

Bicarbonate Alkalinity	106	5.00		mg/L	100		106	80-120	1.87	20
Total Alkalinity	106	5.00		"	100		106	80-120	1.87	20

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Laboratory Representative

### Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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#### Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AUK0129 - SM2320B**

<b>Duplicate (AUK0129-DUP1)</b>		<b>Source: 1111071-11</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>						
Bicarbonate Alkalinity	76.0	5.00		mg/L		76.0			0.00	20	
Carbonate Alkalinity	ND	5.00		"		ND				20	
Hydroxide Alkalinity	ND	5.00		"		ND				20	
Total Alkalinity	76.0	5.00		"		76.0			0.00	20	

<b>Matrix Spike (AUK0129-MS1)</b>		<b>Source: 1111071-05</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>						
Total Alkalinity	168	5.00		mg/L	100	66.0	102	80-120			

<b>Matrix Spike Dup (AUK0129-MSD1)</b>		<b>Source: 1111071-05</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>						
Total Alkalinity	168	5.00		mg/L	100	66.0	102	80-120	0.00	20	

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AUK0152 - EPA 300.0

##### Blank (AUK0152-BLK1)

Prepared & Analyzed: 11/04/11

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

##### Blank (AUK0152-BLK2)

Prepared & Analyzed: 11/04/11

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

##### LCS (AUK0152-BS1)

Prepared & Analyzed: 11/04/11

Chloride	9.5	0.5		mg/L	10.0		95.4	80-120		
Sulfate as SO4	10.0	0.5		"	10.0		100	80-120		

##### LCS (AUK0152-BS2)

Prepared & Analyzed: 11/04/11

Chloride	9.4	0.5		mg/L	10.0		94.5	80-120		
Sulfate as SO4	9.9	0.5		"	10.0		99.0	80-120		

##### LCS Dup (AUK0152-BSD1)

Prepared & Analyzed: 11/04/11

Chloride	9.6	0.5		mg/L	10.0		95.6	80-120	0.188	20
Sulfate as SO4	10.1	0.5		"	10.0		101	80-120	1.19	20

##### LCS Dup (AUK0152-BSD2)

Prepared & Analyzed: 11/04/11

Chloride	9.6	0.5		mg/L	10.0		95.6	80-120	1.19	20
Sulfate as SO4	10.1	0.5		"	10.0		101	80-120	1.59	20

##### Duplicate (AUK0152-DUP1)

Source: 1111071-01

Prepared & Analyzed: 11/04/11

Chloride	0.5	0.5		mg/L			0.6		18.7	20
Sulfate as SO4	1.2	0.5		"			1.4		11.6	20

##### Duplicate (AUK0152-DUP2)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Chloride	0.8	0.5		mg/L			0.9		17.6	20
Sulfate as SO4	0.5	0.5		"			0.5		0.987	20

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Laboratory Representative

### Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Walker Mine Project Number: 10-026-150 Project Manager: Jeff Huggins	Date Reported: 11/23/11 10:59
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### Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AUK0152 - EPA 300.0

##### Matrix Spike (AUK0152-MS1)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Chloride	9.9	0.5		mg/L	10.0	0.9	89.9	75-125			
Sulfate as SO4	11.4	0.5		"	10.0	0.5	109	75-125			

##### Matrix Spike (AUK0152-MS2)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Chloride	10.1	0.5		mg/L	10.0	0.9	91.9	75-125			
Sulfate as SO4	10.8	0.5		"	10.0	0.5	103	75-125			

##### Matrix Spike Dup (AUK0152-MSD1)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Chloride	9.5	0.5		mg/L	10.0	0.9	85.7	75-125	4.31	20	
Sulfate as SO4	10.7	0.5		"	10.0	0.5	102	75-125	6.25	20	

##### Matrix Spike Dup (AUK0152-MSD2)

Source: 1111071-02

Prepared & Analyzed: 11/04/11

Chloride	9.4	0.5		mg/L	10.0	0.9	85.5	75-125	6.58	20	
Sulfate as SO4	10.2	0.5		"	10.0	0.5	97.1	75-125	5.35	20	

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

### Notes and Definitions

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

#### Analysis Method

EPA 8260, EPA 8021/8015M

EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)

Metals

TCLP

Not Specified

#### Prep Method

EPA 5030B

Water - EPA 3510C, Soil- EPA 3550B

Water- 3005A, Soil- 3050B

EPA 1311

Same as Analysis Method

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST	
<b>Excelchem Environmental Labs</b> 1135 W. Sunset Blvd. Unit A Roodlin, CA 95765 Ph. 916-563-4445    Fax. 916-563-4449	Project Manager: <b>Jeff Huggins</b> Company Address: Central Valley Water Board 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670 Project Number/P. Of: <b>10-026-150</b> Project Name: <b>Walker Mine</b> Project Location: <b>Plumas County</b>
Electronic Data Deliverables Request: Shuggins@waterboards.ca.gov	Email Address: Shuggins@waterboards.ca.gov
<b>ANALYSIS REQUEST</b> Page <u>1</u> of <u>2</u>	Requested TAT: 12hr/24hr/48hr/72hr/Standard 12hr 24hr 48hr 72hr Standard
BTEX - TPH as Gasoline (602/8021/8015) TPH as Diesel (8015m) TPH as Oil (8015m) Total Oil & Grease (SM-18th 5520) 1664 Pesticides (608/8081A) - PCBs (8082) Organophosphorous Pesticide (8141) Chlorinated Herbicides (8151) Semi VOC Full List (8270C) VOC Full list (8260B) MTBE (8021/8260B) circle the method Methanol (8015M) Ethanol (8260) 5 Oxygenates (8260B) Lead Scavengers DCA/EDB (8260B) TPh/BTEX/5 Oxygenates (8260B)	Matrix: AIR SOIL WATER NONE ICE HNO3 HCl Summa or Tedlar SLEAVE 1L GLASS PLASTIC X VOA
Method Preserved: NONE ICE HNO3 HCl	Date: 11-3-11 8:48 Time: 8:48 Received by: <i>[Signature]</i>
Date: 11-3-11 8:48 Time: 8:48 Received by Laboratory: <i>[Signature]</i>	Date: 11-3-11 8:48 Time: 8:48 Received by Laboratory: <i>[Signature]</i>
Remarks/Condition of Sample: Excelchem to provide presence/absence (P/A/S) upon receipt of samples	Bill To:
<b>Sample ID</b> WM-1 WM-2 WM-3 WM-7C WM-7D WM-6 WM-7a WM-2 WM-4 WM-9 WM-20 WM-11	Date 11/11/11 10:15 10:20 10:15 1:45 1:40 2:00 2:30 2:45 11/21/11 8:30 8:40 8:50 9:15

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

<b>Excelchem Environmental Labs</b>	1135 W. Sunset Blvd. Unit A Rocklin, CA. 95765 Ph: 916-543-4445 Fax: 916-543-4449	Project Manager: <b>Jeff Huggins</b>	Phone #: <b>(916) 464-4659</b>	Company/Address: <b>Central Valley Water Board 11020 Sun Center Drive #200 Rancho Cordova, CA 95670</b>	Fax #: <b>(916) 464-4782</b>
Project Number/OK: <b>10-026-150</b>		Project Name: <b>Walker Mine</b>		Sampler Signature: _____	
Project Location: <b>Plumas, County</b>		Electronic Data Deliverables Request: _____			
Requested TAT: 12hr/24hr/48hr/72hr/Standard		Requested by: _____			
Metals = <b>Al, As, Cd, Cr, Cu, Fe, Pb, Zn, Ni, Mn, Hg, Se, V, U</b>		Metals - <b>Al, As, Cd, Cr, Cu, Fe, Pb, Zn, Ni, Mn, Hg, Se, V, U</b>			
Nitrate, Nitrite, Ammonia, Kjeldahl		Chloride, Sulfate, Sulfide, ph, conductance			
General Minerals		Requested TAT: 12hr/24hr/48hr/72hr/Standard			

  

Sample ID	Sampling Date	Time	Container			Method Preserved			Matrix			Remarks/Condition of Sample: <b>Excess upon receipt of samples</b>							
			VOA	SLEEVE	TL GLASS	PLASTIC	Summa or Tedlar	HCl	HNO3	ICE	NONE		WATER	SOIL	AIR				
WM-12	11/2/11	9:30			X														
WM-13		9:35							X										
WM-17		9:45																	

  

Relinquished by: <b>Jeff Huggins</b>	Date: <b>11/3/11</b>	Time: <b>9:48</b>	Received by: _____
Relinquished by: _____	Date: <b>11-3-11</b>	Time: <b>8:48</b>	Received by Laboratory: _____

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

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

Project: Walker Mine  
Project Number: 10-026-150  
Project Manager: Jeff Huggins

Date Reported:  
11/23/11 10:59

**Sample Integrity** **WORK ORDER** 1111071

Date Received: 11-3-11

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**Section 1 – Sample Arrival Info.**

Sample Transport: ONTRAC UPS USPS Walk-In EXCELICHEM Courier Fed-Ex Other: \_\_\_\_\_

Transported In: Ice Chest Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: none

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice

Number of Samples (C): 2 Ice Chest Temperature(s) (C): 7

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**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"/>		
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			Received Extra bottle not noted on COC
Were correct preservations used for the tests requested?	<input checked="" type="checkbox"/>			"WM-19"
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			Date of Collection 11/1/11
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	time of collection 13:20

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**Section 3 – COC Info.**

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

\_\_\_\_\_

\_\_\_\_\_

Samples Labeled by: mg  
Labels Reviewed by: \_\_\_\_\_  
Bin #: ATG P1  
COC Scanned/Attached by: mg

Form completed by: Mamea Date: 11/3/11  
Time: 848

Excelchem Environmental Lab.

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Laboratory Representative