



15-Mar-2011

Marla Miller
Malcolm Pirnie
211 N Florence Street
Suite 202
El Paso, TX 79901

Tel: (602) 797-4699
Fax: (915) 533-9045

Re: El Paso Smelter

Work Order: **1103093**

Dear Marla,

ALS Environmental received 1 sample on 03-Mar-2011 08:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 42.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

J ayL ynn F T hibault

Electronically approved by: Mary K. Knowles

JayLynn F Thibault
Project Manager



Certificate No: TX: T104704231-10-3

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Client: Malcolm Pirnie
Project: El Paso Smelter
Work Order: 1103093

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1103093-01	QA030111	Water		3/1/2011 11:25	3/3/2011 08:30	<input type="checkbox"/>

ALS Environmental

Date: 17-Mar-11

Client: Malcolm Pirnie
Project: El Paso Smelter
Work Order: 1103093

Case Narrative

Batch 50676 Metals (sample 1103271-01) MS/MSD unrelated sample.

Batch R106231 Anions (sample 1103055-01) MS/MSD unrelated sample.

ALS Environmental

Date: 15-Mar-11

Client: Malcolm Pirnie
 Project: El Paso Smelter
 Sample ID: QA030111
 Collection Date: 3/1/2011 11:25 AM

Work Order: 1103093
 Lab ID: 1103093-01
 Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
DISSOLVED MERCURY			Method: SW7470		Prep: SW7470 / 3/8/11		Analyst: JCJ
Mercury		U	0.00042	0.000200	mg/L	1	3/8/2011 19:23
MERCURY			Method: SW7470		Prep: SW7470 / 3/11/11		Analyst: JCJ
Mercury	0.0000530	J	0.00042	0.000200	mg/L	1	3/11/2011 19:11
DISSOLVED METALS			Method: SW6020		Prep: SW3010A / 3/8/11		Analyst: ALR
Antimony	0.120		0.00050	0.00500	mg/L	1	3/11/2011 19:36
Arsenic	0.246		0.00090	0.00500	mg/L	1	3/11/2011 19:36
Barium	0.0272		0.00070	0.00500	mg/L	1	3/11/2011 19:36
Cadmium	0.00274		0.00060	0.00200	mg/L	1	3/11/2011 19:36
Chromium	0.00340	J	0.00060	0.00500	mg/L	1	3/11/2011 19:36
Cobalt		U	0.00050	0.00500	mg/L	1	3/11/2011 19:36
Copper	0.00624		0.00050	0.00500	mg/L	1	3/11/2011 19:36
Iron		U	0.036	0.200	mg/L	1	3/11/2011 19:36
Lead		U	0.00040	0.00500	mg/L	1	3/11/2011 19:36
Molybdenum	0.116		0.00060	0.00500	mg/L	1	3/11/2011 19:36
Nickel		U	0.0014	0.00500	mg/L	1	3/11/2011 19:36
Selenium	0.0288		0.0025	0.00500	mg/L	1	3/11/2011 19:36
Thallium		U	0.00080	0.00200	mg/L	1	3/11/2011 19:36
Zinc	0.0248		0.0025	0.00500	mg/L	1	3/11/2011 19:36
METALS			Method: SW6020		Prep: SW3010A / 3/9/11		Analyst: ALR
Aluminum	0.266		0.0037	0.0100	mg/L	1	3/9/2011 21:30
Antimony	0.130		0.00050	0.00500	mg/L	1	3/9/2011 21:30
Arsenic	0.269		0.00090	0.00500	mg/L	1	3/9/2011 21:30
Barium	0.0305		0.00070	0.00500	mg/L	1	3/9/2011 21:30
Cadmium	0.00244		0.00060	0.00200	mg/L	1	3/9/2011 21:30
Calcium	91.7		0.050	0.500	mg/L	1	3/9/2011 21:30
Chromium	0.00493	J	0.00060	0.00500	mg/L	1	3/9/2011 21:30
Cobalt	0.000894	J	0.00050	0.00500	mg/L	1	3/9/2011 21:30
Copper	0.00941		0.00050	0.00500	mg/L	1	3/9/2011 21:30
Iron	0.131	J	0.036	0.200	mg/L	1	3/9/2011 21:30
Lead	0.00230	J	0.00040	0.00500	mg/L	1	3/9/2011 21:30
Magnesium	57.2		0.039	0.200	mg/L	1	3/9/2011 21:30
Manganese	0.0175		0.00080	0.00500	mg/L	1	3/9/2011 21:30
Molybdenum	0.124		0.00060	0.00500	mg/L	1	3/9/2011 21:30
Nickel	0.00176	J	0.0014	0.00500	mg/L	1	3/9/2011 21:30
Potassium	19.3		0.10	0.200	mg/L	1	3/9/2011 21:30
Selenium	0.0317		0.0025	0.00500	mg/L	1	3/9/2011 21:30
Sodium	605		10	20.0	mg/L	100	3/10/2011 20:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Mar-11

Client: Malcolm Pirnie
 Project: El Paso Smelter
 Sample ID: QA030111
 Collection Date: 3/1/2011 11:25 AM

Work Order: 1103093
 Lab ID: 1103093-01
 Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
Thallium	0.00123	J	0.00080	0.00200	mg/L	1	3/9/2011 21:30
Zinc	0.0258		0.0025	0.00500	mg/L	1	3/9/2011 21:30
ANIONS			Method: E300			Analyst: TDW	
Chloride	349		4.00	10.0	mg/L	20	3/3/2011 16:45
Fluoride	2.59		0.0500	0.100	mg/L	1	3/3/2011 11:05
Nitrogen, Nitrate (As N)	6.47		0.0300	0.100	mg/L	1	3/3/2011 11:05
Nitrogen, Nitrite (As N)	U		0.0300	0.100	mg/L	1	3/3/2011 11:05
Sulfate	1,050		10.0	10.0	mg/L	20	3/3/2011 16:45
Nitrate/Nitrite (as N)	6.47		0.0300	0.100	mg/L	1	3/3/2011 11:05
Surr: Selenate (surr)	113			85-115	%REC	1	3/3/2011 11:05
Surr: Selenate (surr)	103			85-115	%REC	20	3/3/2011 16:45
ALKALINITY			Method: SM2320B			Analyst: DM	
Alkalinity, Total (As CaCO3)	396		2.0	5.00	mg/L	1	3/7/2011 14:30
SULFIDE			Method: SM4500 S2-F			Analyst: JBA	
Sulfide	U		0.50	1.00	mg/L	1	3/8/2011 08:25
TOTAL DISSOLVED SOLIDS			Method: M2540C			Analyst: JKP	
Total Dissolved Solids (Residue, Filterable)	2,500		5.0	10.0	mg/L	1	3/7/2011 13:00
TOTAL ORGANIC CARBON			Method: SM5310C			Analyst: JKP	
Organic Carbon, Total	3.24		0.10	0.500	mg/L	1	3/13/2011 02:09
TOTAL SUSPENDED SOLIDS			Method: M2540D			Analyst: JKP	
Suspended Solids (Residue, Non-Filterable)	8.00		2.00	2.00	mg/L	1	3/7/2011 09:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 1103093
 Client: Malcolm Pirnie
 Project: El Paso Smelter

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID 50630</u> <u>Test Name: Dissolved Mercury</u>						
1103093-01C	QA030111	Water	3/1/2011 11:25:00 AM		3/8/2011 03:06 PM	3/8/2011 07:23 PM
<u>Batch ID 50634</u> <u>Test Name: Dissolved Metals</u>						
1103093-01C	QA030111	Water	3/1/2011 11:25:00 AM		3/8/2011 04:00 PM	3/11/2011 07:36 PM
<u>Batch ID 50676</u> <u>Test Name: Metals</u>						
1103093-01B	QA030111	Water	3/1/2011 11:25:00 AM		3/9/2011 05:00 PM 3/9/2011 05:00 PM	3/9/2011 09:30 PM 3/10/2011 08:47 PM
<u>Batch ID 50743</u> <u>Test Name: Mercury</u>						
1103093-01B	QA030111	Water	3/1/2011 11:25:00 AM		3/11/2011 12:21 PM	3/11/2011 07:11 PM
<u>Batch ID R106231</u> <u>Test Name: Anions</u>						
1103093-01E	QA030111	Water	3/1/2011 11:25:00 AM			3/3/2011 11:05 AM 3/3/2011 04:45 PM
<u>Batch ID R106407</u> <u>Test Name: Total Suspended Solids</u>						
1103093-01E	QA030111	Water	3/1/2011 11:25:00 AM			3/7/2011 09:00 AM
<u>Batch ID R106438</u> <u>Test Name: Alkalinity</u>						
1103093-01E	QA030111	Water	3/1/2011 11:25:00 AM			3/7/2011 02:30 PM
<u>Batch ID R106442</u> <u>Test Name: Total Dissolved Solids</u>						
1103093-01E	QA030111	Water	3/1/2011 11:25:00 AM			3/7/2011 01:00 PM
<u>Batch ID R106478</u> <u>Test Name: Sulfide</u>						
1103093-01D	QA030111	Water	3/1/2011 11:25:00 AM			3/8/2011 08:25 AM

Work Order: 1103093
Client: Malcolm Pirnie
Project: El Paso Smelter

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID <u>R106735</u> Test Name: <u>Total Organic Carbon</u>						
1103093-01A	QA030111	Water	3/1/2011 11:25:00 AM			3/13/2011 02:09 AM

WorkOrder: 1103093
InstrumentID: Balance1
Test Code: TDS_W 2540C
Test Number: M2540C
Test Name: Total Dissolved Solids

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Total Dissolved Solids (Residue, Filterable)	TDS	0	5.0	10

WorkOrder: 1103093
InstrumentID: Balance1
Test Code: TSS_W 2540D
Test Number: M2540D
Test Name: Total Suspended Solids

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Suspended Solids (Residue, Non-Filterable)	TSS	2.00	2.00	2.00

WorkOrder: 1103093
InstrumentID: ICPMS03
Test Code: ICP_DISS
Test Number: SW6020
Test Name: Dissolved Metals

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Antimony	7440-36-0	0.00059	0.00050	0.0050
A	Arsenic	7440-38-2	0.00078	0.00090	0.0050
A	Barium	7440-39-3	0.0011	0.00070	0.0050
A	Cadmium	7440-43-9	0.00098	0.00060	0.0020
A	Chromium	7440-47-3	0.0010	0.00060	0.0050
A	Cobalt	7440-48-4	0.00079	0.00050	0.0050
A	Copper	7440-50-8	0.00061	0.00050	0.0050
A	Iron	7439-89-6	0.042	0.036	0.20
A	Lead	7439-92-1	0.0011	0.00040	0.0050
A	Molybdenum	7439-98-7	0.0013	0.00060	0.0050
A	Nickel	7440-02-0	0.0012	0.0014	0.0050
A	Selenium	7782-49-2	0.00016	0.0025	0.0050
A	Thallium	7440-28-0	0.0010	0.00080	0.0020
A	Zinc	7440-66-6	0.0035	0.0025	0.0050

WorkOrder: 1103093
InstrumentID: ICPMS03
Test Code: ICP_TW
Test Number: SW6020
Test Name: Metals

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Aluminum	7429-90-5	0.0080	0.0037	0.010
A	Antimony	7440-36-0	0.00059	0.00050	0.0050
A	Arsenic	7440-38-2	0.00078	0.00090	0.0050
A	Barium	7440-39-3	0.0011	0.00070	0.0050
A	Cadmium	7440-43-9	0.00098	0.00060	0.0020
A	Calcium	7440-70-2	0.12	0.050	0.50
A	Chromium	7440-47-3	0.0010	0.00060	0.0050
A	Cobalt	7440-48-4	0.00079	0.00050	0.0050
A	Copper	7440-50-8	0.00061	0.00050	0.0050
A	Iron	7439-89-6	0.042	0.036	0.20
A	Lead	7439-92-1	0.0011	0.00040	0.0050
A	Magnesium	7439-95-4	0.11	0.039	0.20
A	Manganese	7439-96-5	0.0012	0.00080	0.0050
A	Molybdenum	7439-98-7	0.0013	0.00060	0.0050
A	Nickel	7440-02-0	0.0012	0.0014	0.0050
A	Potassium	7440-09-7	0.12	0.10	0.20
A	Selenium	7782-49-2	0.00016	0.0025	0.0050
A	Sodium	7440-23-5	0.14	0.10	0.20
A	Thallium	7440-28-0	0.0010	0.00080	0.0020
A	Zinc	7440-66-6	0.0035	0.0025	0.0050

WorkOrder: 1103093
InstrumentID: ICS3000
Test Code: 300_W
Test Number: E300
Test Name: Anions

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Chloride	16887-00-6	0.642	0.200	0.500
A	Fluoride	16984-48-8	0.0420	0.0500	0.100
A	Nitrogen, Nitrate (As N)	7631-99-4	0.128	0.0300	0.100
A	Nitrogen, Nitrite (As N)	7632-00-0	0.0520	0.0300	0.100
A	Sulfate	14808-79-8	0.129	0.500	0.500
M	Nitrate/Nitrite (as N)	7727-37-9	0.180	0.0300	0.100
S	Surr: Selenate (surr)	10102-23-5	0	0.100	0.100

WorkOrder: 1103093
InstrumentID: Mercury
Test Code: HG_DISS
Test Number: SW7470
Test Name: Dissolved Mercury

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous Units: mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Mercury	7439-97-6	0.000096	0.000042	0.00020

WorkOrder: 1103093
InstrumentID: Mercury
Test Code: HG_W
Test Number: SW7470
Test Name: Mercury

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Mercury	7439-97-6	0.000096	0.000042	0.00020

WorkOrder: 1103093
InstrumentID: TOC_W
Test Code: TOC_W 5310C
Test Number: SM5310C
Test Name: Total Organic Carbon

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Total	7440-44-0	0.50	0.10	0.50

WorkOrder: 1103093
InstrumentID: WetChem
Test Code: ALK_W 2320B
Test Number: SM2320B
Test Name: Alkalinity

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous Units: mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Alkalinity, Total (As CaCO3)	ALK	0	2.0	5.0

WorkOrder: 1103093
InstrumentID: WetChem
Test Code: SULFD_4500S F
Test Number: SM4500 S2-F
Test Name: Sulfide

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Sulfide	18496-25-8	0.40	0.50	1.0

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50630** Instrument ID **Mercury** Method: **SW7470** (Dissolve)

MBLK	Sample ID: GBLKW4-030811-50630			Units: mg/L	Analysis Date: 3/8/2011 06:48 PM					
Client ID:	Run ID: MERCURY_110308A			SeqNo: 2303942	Prep Date: 3/8/2011		DF: 1			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS	Sample ID: GLCSW4-030811-50630			Units: mg/L	Analysis Date: 3/8/2011 06:50 PM					
Client ID:	Run ID: MERCURY_110308A			SeqNo: 2303943	Prep Date: 3/8/2011		DF: 1			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00558	0.00020	0.005	0	112	80-120	0			

MS	Sample ID: 1102823-13DMS			Units: mg/L	Analysis Date: 3/8/2011 06:56 PM					
Client ID:	Run ID: MERCURY_110308A			SeqNo: 2303948	Prep Date: 3/8/2011		DF: 1			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00543	0.00020	0.005	-0.000002	109	80-120	0			

MSD	Sample ID: 1102823-13DMSD			Units: mg/L	Analysis Date: 3/8/2011 06:58 PM					
Client ID:	Run ID: MERCURY_110308A			SeqNo: 2303950	Prep Date: 3/8/2011		DF: 1			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00546	0.00020	0.005	-0.000002	109	80-120	0.00543	0.551	20	

DUP	Sample ID: 1102823-13DDUP			Units: mg/L	Analysis Date: 3/8/2011 06:54 PM					
Client ID:	Run ID: MERCURY_110308A			SeqNo: 2303947	Prep Date: 3/8/2011		DF: 1			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	-0 0	-0.000002	0	20	

The following samples were analyzed in this batch: 1103093-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50634** Instrument ID **ICPMS03** Method: **SW6020** (**Dissolve**)

MBLK		Sample ID: MBLKW4-030811-50634			Units: mg/L			Analysis Date: 3/11/2011 02:47 AM		
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2308332		Prep Date: 3/8/2011		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	0.0007275	0.0050								J
Cadmium	0.0006977	0.0020								J
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	0.0009672	0.0050								J
Iron	U	0.20								
Lead	0.001022	0.0050								J
Molybdenum	0.001287	0.0050								J
Nickel	U	0.0050								
Selenium	U	0.0050								
Thallium	U	0.0020								
Zinc	0.003452	0.0050								J

LCS		Sample ID: MLCSW4-030811-50634			Units: mg/L			Analysis Date: 3/11/2011 02:52 AM		
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2308333		Prep Date: 3/8/2011		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04306	0.0050	0.05	0	86.1	80-120	0			
Arsenic	0.04464	0.0050	0.05	0	89.3	80-120	0			
Barium	0.04354	0.0050	0.05	0	87.1	80-120	0			
Cadmium	0.04327	0.0020	0.05	0	86.5	80-120	0			
Chromium	0.04484	0.0050	0.05	0	89.7	80-120	0			
Cobalt	0.04444	0.0050	0.05	0	88.9	80-120	0			
Copper	0.04537	0.0050	0.05	0	90.7	80-120	0			
Iron	4.455	0.20	5	0	89.1	80-120	0			
Lead	0.0434	0.0050	0.05	0	86.8	80-120	0			
Molybdenum	0.04236	0.0050	0.05	0	84.7	80-120	0			
Nickel	0.04579	0.0050	0.05	0	91.6	80-120	0			
Selenium	0.04319	0.0050	0.05	0	86.4	80-120	0			
Thallium	0.04425	0.0020	0.05	0	88.5	80-120	0			
Zinc	0.04744	0.0050	0.05	0	94.9	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 50634 Instrument ID ICPMS03 Method: SW6020 (Dissolve)

MS		Sample ID: 1102823-12DMS				Units: mg/L		Analysis Date: 3/11/2011 03:13 AM		
Client ID:		Run ID: ICPMS03_110310A				SeqNo: 2308337		Prep Date: 3/8/2011		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04415	0.0050	0.05	0.0002211	87.9	75-125	0			
Arsenic	0.04595	0.0050	0.05	0.00007375	91.8	75-125	0			
Barium	0.04446	0.0050	0.05	0.0007467	87.4	75-125	0			
Cadmium	0.04389	0.0020	0.05	0.0006875	86.4	75-125	0			
Chromium	0.04534	0.0050	0.05	0.0001091	90.5	75-125	0			
Cobalt	0.0454	0.0050	0.05	-0.0001313	91.1	75-125	0			
Copper	0.04552	0.0050	0.05	-0.0001333	91.3	75-125	0			
Iron	4.525	0.20	5	-0.02712	91	75-125	0			
Lead	0.04431	0.0050	0.05	0.0009389	86.7	75-125	0			
Molybdenum	0.04263	0.0050	0.05	0.001217	82.8	75-125	0			
Nickel	0.04585	0.0050	0.05	-0.0004675	92.6	75-125	0			
Selenium	0.04464	0.0050	0.05	-0.0002918	89.9	75-125	0			
Thallium	0.04578	0.0020	0.05	0.0003204	90.9	75-125	0			
Zinc	0.04781	0.0050	0.05	0.005136	85.3	75-125	0			

MSD		Sample ID: 1102823-12DMSD				Units: mg/L		Analysis Date: 3/11/2011 03:18 AM		
Client ID:		Run ID: ICPMS03_110310A				SeqNo: 2308338		Prep Date: 3/8/2011		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04465	0.0050	0.05	0.0002211	88.9	75-125	0.04415	1.13	25	
Arsenic	0.04509	0.0050	0.05	0.00007375	90	75-125	0.04595	1.89	25	
Barium	0.04417	0.0050	0.05	0.0007467	86.8	75-125	0.04446	0.654	25	
Cadmium	0.04443	0.0020	0.05	0.0006875	87.5	75-125	0.04389	1.22	25	
Chromium	0.04574	0.0050	0.05	0.0001091	91.3	75-125	0.04534	0.878	25	
Cobalt	0.04594	0.0050	0.05	-0.0001313	92.1	75-125	0.0454	1.18	25	
Copper	0.04582	0.0050	0.05	-0.0001333	91.9	75-125	0.04552	0.657	25	
Iron	4.537	0.20	5	-0.02712	91.3	75-125	4.525	0.265	25	
Lead	0.04371	0.0050	0.05	0.0009389	85.5	75-125	0.04431	1.36	25	
Molybdenum	0.04342	0.0050	0.05	0.001217	84.4	75-125	0.04263	1.84	25	
Nickel	0.04647	0.0050	0.05	-0.0004675	93.9	75-125	0.04585	1.34	25	
Selenium	0.04471	0.0050	0.05	-0.0002918	90	75-125	0.04464	0.157	25	
Thallium	0.04577	0.0020	0.05	0.0003204	90.9	75-125	0.04578	0.0218	25	
Zinc	0.04768	0.0050	0.05	0.005136	85.1	75-125	0.04781	0.272	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 50634 Instrument ID ICPMS03 Method: SW6020 (Dissolve)

DUP		Sample ID: 1102823-12DDUP				Units: mg/L		Analysis Date: 3/11/2011 03:02 AM		
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2308335		Prep Date: 3/8/2011		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050	0	0	0	-0 0	0.0002211	0	25	
Arsenic	U	0.0050	0	0	0	-0 0	0.00007375	0	25	
Barium	0.0007089	0.0050	0	0	0	-0 0	0.0007467	0	25	J
Cadmium	0.0006536	0.0020	0	0	0	-0 0	0.0006875	0	25	J
Chromium	U	0.0050	0	0	0	-0 0	0.0001091	0	25	
Cobalt	U	0.0050	0	0	0	-0 0	-0.0001313	0	25	
Copper	U	0.0050	0	0	0	-0 0	-0.0001333	0	25	
Iron	U	0.20	0	0	0	-0 0	-0.02712	0	25	
Lead	0.0008955	0.0050	0	0	0	-0 0	0.0009389	0	25	J
Molybdenum	0.001134	0.0050	0	0	0	-0 0	0.001217	0	25	J
Nickel	U	0.0050	0	0	0	-0 0	-0.0004675	0	25	
Selenium	U	0.0050	0	0	0	-0 0	-0.0002918	0	25	
Thallium	U	0.0020	0	0	0	-0 0	0.0003204	0	25	
Zinc	U	0.0050	0	0	0	-0 0	0.005136	0	25	

PDS		Sample ID: 1102823-12DBS				Units: mg/L		Analysis Date: 3/11/2011 03:23 AM		
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2308339		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.08905	0.0050	0.1	0.0002211	88.8	75-125	0			
Arsenic	0.09026	0.0050	0.1	0.00007375	90.2	75-125	0			
Barium	0.08751	0.0050	0.1	0.0007467	86.8	75-125	0			
Cadmium	0.08647	0.0020	0.1	0.0006875	85.8	75-125	0			
Chromium	0.09029	0.0050	0.1	0.0001091	90.2	75-125	0			
Cobalt	0.09003	0.0050	0.1	-0.0001313	90.2	75-125	0			
Copper	0.0907	0.0050	0.1	-0.0001333	90.8	75-125	0			
Iron	8.963	0.20	10	-0.02712	89.9	75-125	0			
Lead	0.08571	0.0050	0.1	0.0009389	84.8	75-125	0			
Molybdenum	0.08591	0.0050	0.1	0.001217	84.7	75-125	0			
Nickel	0.09031	0.0050	0.1	-0.0004675	90.8	75-125	0			
Selenium	0.09461	0.0050	0.1	-0.0002918	94.9	75-125	0			
Thallium	0.09318	0.0020	0.1	0.0003204	92.9	75-125	0			
Zinc	0.09348	0.0050	0.1	0.005136	88.3	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 50634 Instrument ID ICPMS03 Method: SW6020 (Dissolve)

SD	Sample ID: 1102823-12D DIL SX	Units: mg/L					Analysis Date: 3/11/2011 03:08 AM				
Client ID:	Run ID: ICPMS03_110310A	SeqNo: 2308336			Prep Date:		DF: 5				
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual	
Antimony	U	0.025	0	0	0	-0 0	0.0002211	0	10		
Arsenic	U	0.025	0	0	0	-0 0	0.00007375	0	10		
Barium	U	0.025	0	0	0	-0 0	0.0007467	0	10		
Cadmium	0.003196	0.010	0	0	0	-0 0	0.0006875	0	10	J	
Chromium	U	0.025	0	0	0	-0 0	0.0001091	0	10		
Cobalt	U	0.025	0	0	0	-0 0	-0.0001313	0	10		
Copper	U	0.025	0	0	0	-0 0	-0.0001333	0	10		
Iron	U	1.0	0	0	0	-0 0	-0.02712	0	10		
Lead	0.004306	0.025	0	0	0	-0 0	0.0009389	0	10	J	
Molybdenum	0.00559	0.025	0	0	0	-0 0	0.001217	0	10	J	
Nickel	U	0.025	0	0	0	-0 0	-0.0004675	0	10		
Selenium	U	0.025	0	0	0	-0 0	-0.0002918	0	10		
Thallium	U	0.010	0	0	0	-0 0	0.0003204	0	10		
Zinc	U	0.025	0	0	0	-0 0	0.005136	0	10		

The following samples were analyzed in this batch:

1103093-01C

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50676** Instrument ID **ICPMS03** Method: **SW6020**

MBLK Sample ID: **MBLKW5-030911-50676** Units: **mg/L** Analysis Date: **3/9/2011 08:01 PM**

Client ID: Run ID: **ICPMS03_110309A** SeqNo: **2305814** Prep Date: **3/9/2011** DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.006885	0.010								J
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Calcium	U	0.50								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	U	0.0050								
Iron	U	0.20								
Lead	U	0.0050								
Magnesium	U	0.20								
Manganese	U	0.0050								
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	U	0.0050								
Sodium	U	0.20								
Thallium	U	0.0020								
Zinc	U	0.0050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50676** Instrument ID **ICPMS03** Method: **SW6020**

LCS		Sample ID: MLCSW5-030911-50676			Units: mg/L		Analysis Date: 3/9/2011 08:07 PM			
Client ID:		Run ID: ICPMS03_110309A			SeqNo: 2305815		Prep Date: 3/9/2011		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1026	0.010	0.1	0	103	80-120	0			
Arsenic	0.04952	0.0050	0.05	0	99	80-120	0			
Barium	0.04789	0.0050	0.05	0	95.8	80-120	0			
Cadmium	0.04857	0.0020	0.05	0	97.1	80-120	0			
Calcium	4.933	0.50	5	0	98.7	80-120	0			
Chromium	0.04878	0.0050	0.05	0	97.6	80-120	0			
Cobalt	0.05026	0.0050	0.05	0	101	80-120	0			
Copper	0.05093	0.0050	0.05	0	102	80-120	0			
Iron	4.896	0.20	5	0	97.9	80-120	0			
Lead	0.04917	0.0050	0.05	0	98.3	80-120	0			
Magnesium	4.807	0.20	5	0	96.1	80-120	0			
Manganese	0.04876	0.0050	0.05	0	97.5	80-120	0			
Molybdenum	0.04779	0.0050	0.05	0	95.6	80-120	0			
Nickel	0.05011	0.0050	0.05	0	100	80-120	0			
Potassium	4.811	0.20	5	0	96.2	80-120	0			
Selenium	0.04733	0.0050	0.05	0	94.7	80-120	0			
Sodium	4.802	0.20	5	0	96	80-120	0			
Thallium	0.04675	0.0020	0.05	0	93.5	80-120	0			
Zinc	0.05105	0.0050	0.05	0	102	80-120	0			

LCS		Sample ID: MLCSW5-030911-50676			Units: mg/L		Analysis Date: 3/10/2011 08:01 PM			
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2307924		Prep Date: 3/9/2011		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04665	0.0050	0.05	0	93.3	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50676** Instrument ID **ICPMS03** Method: **SW6020**

MS		Sample ID: 1103271-01CMS			Units: mg/L		Analysis Date: 3/9/2011 08:28 PM			
Client ID:		Run ID: ICPMS03_110309A			SeqNo: 2305819		Prep Date: 3/9/2011		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1507	0.010	0.1	0.03214	119	80-120	0			
Arsenic	0.04949	0.0050	0.05	0.001042	96.9	80-120	0			
Barium	0.1524	0.0050	0.05	0.09691	111	80-120	0			
Cadmium	0.04978	0.0020	0.05	-0.0006342	101	80-120	0			
Calcium	100.6	0.50	5	98.88	34.4	80-120	0			SO
Chromium	0.04715	0.0050	0.05	0.001173	92	80-120	0			
Cobalt	0.04729	0.0050	0.05	0.0002033	94.2	80-120	0			
Copper	0.04684	0.0050	0.05	-0.0000747	93.8	80-120	0			
Iron	4.743	0.20	5	0.1675	91.5	80-120	0			
Lead	0.05096	0.0050	0.05	-0.0002498	102	80-120	0			
Magnesium	24.85	0.20	5	19.29	111	80-120	0			
Manganese	0.07132	0.0050	0.05	0.02636	89.9	80-120	0			
Molybdenum	0.05177	0.0050	0.05	0.000416	103	80-120	0			
Nickel	0.04822	0.0050	0.05	0.001715	93	80-120	0			
Potassium	7.135	0.20	5	2.051	102	80-120	0			
Selenium	0.04659	0.0050	0.05	-0.0006026	94.4	80-120	0			
Sodium	126.6	0.20	5	116.9	194	80-120	0			SO
Thallium	0.04824	0.0020	0.05	0.0004334	95.6	80-120	0			
Zinc	0.04842	0.0050	0.05	0.0006817	95.5	80-120	0			

MS		Sample ID: 1103271-01CMS			Units: mg/L		Analysis Date: 3/10/2011 08:06 PM			
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2307925		Prep Date: 3/9/2011		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0481	0.0050	0.05	0	96.2	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 50676 Instrument ID ICPMS03 Method: SW6020

MSD		Sample ID: 1103271-01CMSD				Units: mg/L		Analysis Date: 3/9/2011 08:33 PM		
Client ID:		Run ID: ICPMS03_110309A			SeqNo: 2305820		Prep Date: 3/9/2011		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.138	0.010	0.1	0.03214	106	80-120	0.1507	8.8	15	
Arsenic	0.05296	0.0050	0.05	0.001042	104	80-120	0.04949	6.77	15	
Barium	0.1458	0.0050	0.05	0.09691	97.8	80-120	0.1524	4.43	15	
Cadmium	0.04843	0.0020	0.05	-0.0006342	98.1	80-120	0.04978	2.75	15	
Calcium	98.99	0.50	5	98.88	2.2	80-120	100.6	1.61	15	SO
Chromium	0.0497	0.0050	0.05	0.001173	97.1	80-120	0.04715	5.27	15	
Cobalt	0.04941	0.0050	0.05	0.0002033	98.4	80-120	0.04729	4.38	15	
Copper	0.04894	0.0050	0.05	-0.0000747	98	80-120	0.04684	4.39	15	
Iron	5.04	0.20	5	0.1675	97.4	80-120	4.743	6.07	15	
Lead	0.05005	0.0050	0.05	-0.0002498	101	80-120	0.05096	1.8	15	
Magnesium	23.13	0.20	5	19.29	76.8	80-120	24.85	7.17	15	S
Manganese	0.07243	0.0050	0.05	0.02636	92.1	80-120	0.07132	1.54	15	
Molybdenum	0.05169	0.0050	0.05	0.000416	103	80-120	0.05177	0.155	15	
Nickel	0.04981	0.0050	0.05	0.001715	96.2	80-120	0.04822	3.24	15	
Potassium	6.907	0.20	5	2.051	97.1	80-120	7.135	3.25	15	
Selenium	0.0483	0.0050	0.05	-0.0006026	97.8	80-120	0.04659	3.6	15	
Sodium	118	0.20	5	116.9	22	80-120	126.6	7.03	15	SO
Thallium	0.04779	0.0020	0.05	0.0004334	94.7	80-120	0.04824	0.937	15	
Zinc	0.05044	0.0050	0.05	0.0006817	99.5	80-120	0.04842	4.09	15	

MSD		Sample ID: 1103271-01CMSD				Units: mg/L		Analysis Date: 3/10/2011 08:11 PM		
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2307926		Prep Date: 3/9/2011		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0507	0.0050	0.05	0	101	80-120	0.0481	5.26	15	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50676** Instrument ID **ICPMS03** Method: **SW6020**

DUP Sample ID: **1103271-01CDUP** Units: **mg/L** Analysis Date: **3/9/2011 08:17 PM**

Client ID: Run ID: **ICPMS03_110309A** SeqNo: **2305817** Prep Date: **3/9/2011** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.02885	0.010	0	0	0	-0 0	0.03214	10.8	25	
Antimony	U	0.0050	0	0	0	-0 0	0.0002353	0	25	
Arsenic	0.001135	0.0050	0	0	0	-0 0	0.001042	0	25	J
Barium	0.09333	0.0050	0	0	0	-0 0	0.09691	3.76	25	
Cadmium	U	0.0020	0	0	0	-0 0	-0.0006342	0	25	
Calcium	94.66	0.50	0	0	0	-0 0	98.88	4.36	25	
Chromium	U	0.0050	0	0	0	-0 0	0.001173	0	25	
Cobalt	U	0.0050	0	0	0	-0 0	0.0002033	0	25	
Copper	U	0.0050	0	0	0	-0 0	-0.0000747	0	25	
Iron	0.04851	0.20	0	0	0	-0 0	0.1675	0	25	J
Lead	U	0.0050	0	0	0	-0 0	-0.0002498	0	25	
Magnesium	18.76	0.20	0	0	0	-0 0	19.29	2.79	25	
Manganese	0.02412	0.0050	0	0	0	-0 0	0.02636	8.87	25	
Molybdenum	U	0.0050	0	0	0	-0 0	0.000416	0	25	
Nickel	U	0.0050	0	0	0	-0 0	0.001715	0	25	
Potassium	1.985	0.20	0	0	0	-0 0	2.051	3.27	25	
Selenium	U	0.0050	0	0	0	-0 0	-0.0006026	0	25	
Sodium	114.9	0.20	0	0	0	-0 0	116.9	1.73	25	
Thallium	U	0.0020	0	0	0	-0 0	0.0004334	0	25	
Zinc	U	0.0050	0	0	0	-0 0	0.0006817	0	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 50676 Instrument ID ICPMS03 Method: SW6020

PDS		Sample ID: 1103271-01CBS			Units: mg/L		Analysis Date: 3/9/2011 08:38 PM			
Client ID:		Run ID: ICPMS03_110309A			SeqNo: 2305821		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1214	0.010	0.1	0.03214	89.3	75-125	0			
Arsenic	0.09721	0.0050	0.1	0.001042	96.2	75-125	0			
Barium	0.1914	0.0050	0.1	0.09691	94.5	75-125	0			
Cadmium	0.09316	0.0020	0.1	-0.0006342	93.8	75-125	0			
Calcium	103.1	0.50	10	98.88	42.2	75-125	0			SO
Chromium	0.09233	0.0050	0.1	0.001173	91.2	75-125	0			
Cobalt	0.09238	0.0050	0.1	0.0002033	92.2	75-125	0			
Copper	0.09225	0.0050	0.1	-0.0000747	92.3	75-125	0			
Iron	9.226	0.20	10	0.1675	90.6	75-125	0			
Lead	0.09505	0.0050	0.1	-0.0002498	95.3	75-125	0			
Magnesium	27.31	0.20	10	19.29	80.2	75-125	0			
Manganese	0.1159	0.0050	0.1	0.02636	89.5	75-125	0			
Molybdenum	0.09797	0.0050	0.1	0.000416	97.6	75-125	0			
Nickel	0.09216	0.0050	0.1	0.001715	90.4	75-125	0			
Potassium	11.25	0.20	10	2.051	92	75-125	0			
Selenium	0.09266	0.0050	0.1	-0.0006026	93.3	75-125	0			
Sodium	121.4	0.20	10	116.9	45	75-125	0			SO
Thallium	0.09211	0.0020	0.1	0.0004334	91.7	75-125	0			
Zinc	0.09635	0.0050	0.1	0.0006817	95.7	75-125	0			

PDS		Sample ID: 1103271-01CBS			Units: mg/L		Analysis Date: 3/10/2011 08:16 PM			
Client ID:		Run ID: ICPMS03_110310A			SeqNo: 2307927		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09662	0.0050	0.1	0	96.6	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 50676 Instrument ID ICPMS03 Method: SW6020

SD	Sample ID: 1103271-01C DIL SX			Units: mg/L			Analysis Date: 3/9/2011 08:22 PM			
Client ID:	Run ID: ICPMS03_110309A			SeqNo: 2305818		Prep Date:		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.03582	0.050	0	0	0	-0 0	0.03214	0	10	J
Antimony	U	0.025	0	0	0	-0 0	0.0002353	0	10	
Arsenic	U	0.025	0	0	0	-0 0	0.001042	0	10	
Barium	0.0973	0.025	0	0	0	-0 0	0.09691	0.402	10	
Cadmium	U	0.010	0	0	0	-0 0	-0.0006342	0	10	
Calcium	118.5	2.5	0	0	0	-0 0	98.88	19.8	10	R
Chromium	U	0.025	0	0	0	-0 0	0.001173	0	10	
Cobalt	U	0.025	0	0	0	-0 0	0.0002033	0	10	
Copper	U	0.025	0	0	0	-0 0	-0.0000747	0	10	
Iron	U	1.0	0	0	0	-0 0	0.1675	0	10	
Lead	U	0.025	0	0	0	-0 0	-0.0002498	0	10	
Magnesium	20.08	1.0	0	0	0	-0 0	19.29	4.12	10	
Manganese	0.0268	0.025	0	0	0	-0 0	0.02636	1.65	10	
Molybdenum	U	0.025	0	0	0	-0 0	0.000416	0	10	
Nickel	U	0.025	0	0	0	-0 0	0.001715	0	10	
Potassium	1.906	1.0	0	0	0	-0 0	2.051	7.05	10	
Selenium	U	0.025	0	0	0	-0 0	-0.0006026	0	10	
Sodium	123.6	1.0	0	0	0	-0 0	116.9	5.73	10	
Thallium	U	0.010	0	0	0	-0 0	0.0004334	0	10	
Zinc	U	0.025	0	0	0	-0 0	0.0006817	0	10	

The following samples were analyzed in this batch: | 1103093-01B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **50743** Instrument ID **Mercury** Method: **SW7470**

MBLK		Sample ID: GBLKW4-031111-50743				Units: mg/L		Analysis Date: 3/11/2011 06:58 PM		
Client ID:		Run ID: MERCURY_110311A				SeqNo: 2309674		Prep Date: 3/11/2011		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS		Sample ID: GLCSW4-031111-50743				Units: mg/L		Analysis Date: 3/11/2011 07:00 PM		
Client ID:		Run ID: MERCURY_110311A				SeqNo: 2309675		Prep Date: 3/11/2011		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00464	0.00020	0.005	0	92.8	85-115	0			

MS		Sample ID: 1103186-01DMS				Units: mg/L		Analysis Date: 3/11/2011 07:06 PM		
Client ID:		Run ID: MERCURY_110311A				SeqNo: 2309678		Prep Date: 3/11/2011		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0047	0.00020	0.005	0.000032	93.4	85-115	0			

MSD		Sample ID: 1103186-01DMSD				Units: mg/L		Analysis Date: 3/11/2011 07:09 PM		
Client ID:		Run ID: MERCURY_110311A				SeqNo: 2309679		Prep Date: 3/11/2011		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00458	0.00020	0.005	0.000032	91	85-115	0.0047	2.59	20	

DUP		Sample ID: 1103186-01DDUP				Units: mg/L		Analysis Date: 3/11/2011 07:04 PM		
Client ID:		Run ID: MERCURY_110311A				SeqNo: 2309677		Prep Date: 3/11/2011		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	-0 0	0.000032	0	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R106231** Instrument ID **ICS3000** Method: **E300**

MBLK		Sample ID: WBLKW1-030311-R106231			Units: mg/L			Analysis Date: 3/3/2011 10:02 AM		
Client ID:		Run ID: ICS3000_110303A			SeqNo: 2298004		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Sulfate	U	0.50								
Nitrate/Nitrite (as N)	U	0.10								
<i>Surr: Selenate (surr)</i>	5.208	0.10	5	0	104	85-115	0			

LCS		Sample ID: WLCSW1-030311-R106231			Units: mg/L			Analysis Date: 3/3/2011 10:23 AM		
Client ID:		Run ID: ICS3000_110303A			SeqNo: 2298005		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.99	0.50	20	0	100	90-110	0			
Fluoride	3.941	0.10	4	0	98.5	90-110	0			
Nitrogen, Nitrate (As N)	3.914	0.10	4	0	97.8	90-110	0			
Nitrogen, Nitrite (As N)	3.987	0.10	4	0	99.7	90-110	0			
Sulfate	19.53	0.50	20	0	97.6	90-110	0			
Nitrate/Nitrite (as N)	7.901	0.10	8	0	98.8	90-110	0			
<i>Surr: Selenate (surr)</i>	5.258	0.10	5	0	105	85-115	0			

LCSD		Sample ID: WLCSDW1-030311-R106231			Units: mg/L			Analysis Date: 3/3/2011 10:44 AM		
Client ID:		Run ID: ICS3000_110303A			SeqNo: 2298006		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.9	0.50	20	0	99.5	90-110	19.99	0.481	20	
Fluoride	3.919	0.10	4	0	98	90-110	3.941	0.56	20	
Nitrogen, Nitrate (As N)	3.896	0.10	4	0	97.4	90-110	3.914	0.461	20	
Nitrogen, Nitrite (As N)	3.964	0.10	4	0	99.1	90-110	3.987	0.579	20	
Sulfate	19.47	0.50	20	0	97.3	90-110	19.53	0.313	20	
Nitrate/Nitrite (as N)	7.86	0.10	8	0	98.2	90-110	7.901	0.52	20	
<i>Surr: Selenate (surr)</i>	5.227	0.10	5	0	105	85-115	5.258	0.591	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: R106231 Instrument ID ICS3000 Method: E300

MS		Sample ID: 1103055-01DMS			Units: mg/L			Analysis Date: 3/3/2011 12:29 PM		
Client ID:		Run ID: ICS3000_110303A			SeqNo: 2298011		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	167.4	0.50	10	160.9	64.5	80-120	0			SEO
Fluoride	3.757	0.10	2	2.42	66.8	80-120	0			S
Nitrogen, Nitrite (As N)	2.078	0.10	2	0	104	80-120	0			
Sulfate	2147	0.50	10	2178	-311	80-120	0			SEO
Nitrate/Nitrite (as N)	2.395	0.10	4	0	59.9	80-120	0			S
<i>Surr: Selenate (surr)</i>	5.586	0.10	5	0	112	85-115	0			

MS		Sample ID: 1103002-07EMS			Units: mg/L			Analysis Date: 3/3/2011 04:43 PM		
Client ID:		Run ID: ICS3000_110303A			SeqNo: 2299849		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	38.17	0.50	10	28.52	96.4	80-120	0			
Fluoride	3.124	0.10	2	1.139	99.2	80-120	0			
Nitrogen, Nitrate (As N)	4.026	0.10	2	2.108	95.9	80-120	0			H
Nitrogen, Nitrite (As N)	2.03	0.10	2	0	102	80-120	0			H
Sulfate	59.88	0.50	10	50.77	91.1	80-120	0			O
Nitrate/Nitrite (as N)	6.056	0.10	4	2.108	98.7	80-120	0			H
<i>Surr: Selenate (surr)</i>	5.173	0.10	5	0	103	85-115	0			

MSD		Sample ID: 1103055-01DMSD			Units: mg/L			Analysis Date: 3/3/2011 12:51 PM		
Client ID:		Run ID: ICS3000_110303A			SeqNo: 2298012		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	166.9	0.50	10	160.9	59.2	80-120	167.4	0.316	20	SEO
Fluoride	3.9	0.10	2	2.42	74	80-120	3.757	3.74	20	S
Nitrogen, Nitrite (As N)	2.072	0.10	2	0	104	80-120	2.078	0.289	20	
Sulfate	2141	0.50	10	2178	-365	80-120	2147	0.255	20	SEO
Nitrate/Nitrite (as N)	2.42	0.10	4	0	60.5	80-120	2.395	1.04	20	S
<i>Surr: Selenate (surr)</i>	5.577	0.10	5	0	112	85-115	5.586	0.161	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R106231** Instrument ID **ICS3000** Method: **E300**

MSD		Sample ID: 1103002-07EMSD				Units: mg/L		Analysis Date: 3/3/2011 05:04 PM			
Client ID:		Run ID: ICS3000_110303A				SeqNo: 2299850		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	38.25	0.50	10	28.52	97.2	80-120	38.17	0.204	20		
Fluoride	3.132	0.10	2	1.139	99.6	80-120	3.124	0.256	20		
Nitrogen, Nitrate (As N)	4.033	0.10	2	2.108	96.2	80-120	4.026	0.174	20	H	
Nitrogen, Nitrite (As N)	2.038	0.10	2	0	102	80-120	2.03	0.393	20	H	
Sulfate	60.04	0.50	10	50.77	92.7	80-120	59.88	0.264	20	O	
Nitrate/Nitrite (as N)	6.071	0.10	4	2.108	99.1	80-120	6.056	0.247	20	H	
<i>Surr: Selenate (surr)</i>	5.193	0.10	5	0	104	85-115	5.173	0.386	20		

The following samples were analyzed in this batch: 1103093-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R106407** Instrument ID **Balance1** Method: **M2540D**

MBLK		Sample ID: BLANK-R106407				Units: mg/L		Analysis Date: 3/7/2011 09:00 AM			
Client ID:		Run ID: BALANCE1_110307A				SeqNo: 2301936		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Suspended Solids (Residue, Non-Fi	U	2.0									

LCS		Sample ID: LCS-R106407				Units: mg/L		Analysis Date: 3/7/2011 09:00 AM			
Client ID:		Run ID: BALANCE1_110307A				SeqNo: 2301938		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Suspended Solids (Residue, Non-Fi	85.33	2.0	100	0	85.3	78-120	0				

DUP		Sample ID: 1103110-07CDUP				Units: mg/L		Analysis Date: 3/7/2011 09:00 AM			
Client ID:		Run ID: BALANCE1_110307A				SeqNo: 2301917		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Suspended Solids (Residue, Non-Fi	U	2.0	0	0	0	0-0	0	0	0	20	

DUP		Sample ID: 1103176-01BDUP				Units: mg/L		Analysis Date: 3/7/2011 09:00 AM			
Client ID:		Run ID: BALANCE1_110307A				SeqNo: 2301922		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Suspended Solids (Residue, Non-Fi	66.67	2.0	0	0	0	0-0	60.4	9.86	20		

The following samples were analyzed in this batch: 1103093-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R106438** Instrument ID **WetChem** Method: **SM2320B**

MBLK		Sample ID: WBLKW1-030711-R106438				Units: mg/L		Analysis Date: 3/7/2011 02:30 PM		
Client ID:		Run ID: WETCHEM_110307M				SeqNo: 2302919		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	U	5.0								

LCS		Sample ID: WLCSW1-030711-R106438				Units: mg/L		Analysis Date: 3/7/2011 02:30 PM		
Client ID:		Run ID: WETCHEM_110307M				SeqNo: 2302920		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	998.1	5.0	1000	0	99.8	80-120	0			

DUP		Sample ID: 1102761-01DDUP				Units: mg/L		Analysis Date: 3/7/2011 02:30 PM		
Client ID:		Run ID: WETCHEM_110307M				SeqNo: 2302958		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	701.6	5.0	0	0	0	0-0	702.6	0.141	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
Work Order: 1103093
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R106442** Instrument ID **Balance1** Method: **M2540C**

MBLK		Sample ID: BLANK-R106442				Units: mg/L		Analysis Date: 3/7/2011 01:00 PM			
Client ID:		Run ID: _110307A				SeqNo: 2303010		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Dissolved Solids (Residue, Fil	U	10									

LCS		Sample ID: LCS-R106442				Units: mg/L		Analysis Date: 3/7/2011 01:00 PM			
Client ID:		Run ID: _110307A				SeqNo: 2303011		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Dissolved Solids (Residue, Fil	1080	10	1000		0	108	85-115	0			

DUP		Sample ID: 1103002-19EDUP				Units: mg/L		Analysis Date: 3/7/2011 01:00 PM			
Client ID:		Run ID: _110307A				SeqNo: 2302990		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Dissolved Solids (Residue, Fil	382	10	0		0	0	0-0	378	1.05	20	

DUP		Sample ID: 1103110-07BDUP				Units: mg/L		Analysis Date: 3/7/2011 01:00 PM			
Client ID:		Run ID: _110307A				SeqNo: 2303002		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Dissolved Solids (Residue, Fil	462	10	0		0	0	0-0	458	0.87	20	

The following samples were analyzed in this batch: 1103093-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R106478** Instrument ID **WetChem** Method: **SM4500 S2-F**

MBLK		Sample ID: WBLKW-030811-R106478				Units: mg/L		Analysis Date: 3/8/2011 08:25 AM		
Client ID:		Run ID: WETCHEM_110308H				SeqNo: 2303608		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	1.0								

LCS		Sample ID: WLCSW-030811-R106478				Units: mg/L		Analysis Date: 3/8/2011 08:25 AM		
Client ID:		Run ID: WETCHEM_110308H				SeqNo: 2303609		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	24.8	1.0	25	0	99.2	80-120	0			

LCSD		Sample ID: WLCSDW-030811-R106478				Units: mg/L		Analysis Date: 3/8/2011 08:25 AM		
Client ID:		Run ID: WETCHEM_110308H				SeqNo: 2303619		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	24.4	1.0	25	0	97.6	80-120	24.8	1.63	20	

MS		Sample ID: 1103163-01IMS				Units: mg/L		Analysis Date: 3/8/2011 08:25 AM		
Client ID:		Run ID: WETCHEM_110308H				SeqNo: 2303618		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	24	1.0	25	0	96	80-120	0			

DUP		Sample ID: 1103162-01IDUP				Units: mg/L		Analysis Date: 3/8/2011 08:25 AM		
Client ID:		Run ID: WETCHEM_110308H				SeqNo: 2303617		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	1.0	0	0	0	-0 0	0	0	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie
 Work Order: 1103093
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: R106735 Instrument ID TOC_W Method: SM5310C

MBLK		Sample ID: WBLKW1-031211-R106735				Units: mg/L		Analysis Date: 3/12/2011 02:37 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310080		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	0.284	0.50								J

LCS		Sample ID: WLCSW1-031211-R106735				Units: mg/L		Analysis Date: 3/12/2011 03:06 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310081		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.074	0.50	10	0	90.7	80-120	0			

LCSD		Sample ID: WLCSDW1-03121-R106735				Units: mg/L		Analysis Date: 3/12/2011 03:35 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310082		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.168	0.50	10	0	91.7	80-120	9.074	1.03	20	

MS		Sample ID: 1103334-01AZMS				Units: mg/L		Analysis Date: 3/12/2011 06:28 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310088		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.99	0.50	10	18.1	88.8	80-120	0			E

MS		Sample ID: 1103192-01DMS				Units: mg/L		Analysis Date: 3/12/2011 10:47 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310097		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	17.11	0.50	10	7.632	94.8	80-120	0			

MSD		Sample ID: 1103334-01AZMSD				Units: mg/L		Analysis Date: 3/12/2011 06:57 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310089		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	27.84	0.50	10	18.1	97.4	80-120	26.99	3.12	20	E

MSD		Sample ID: 1103192-01DMSD				Units: mg/L		Analysis Date: 3/12/2011 11:16 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310098		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	16.83	0.50	10	7.632	92	80-120	17.11	1.64	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

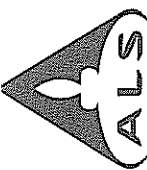
Client: Malcolm Pirnie
Project: El Paso Smelter
WorkOrder: 1103093

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter



ALS Laboratory Group
 10450 Stanciliff Rd., Suite 210
 Houston, Texas 77099
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Chain of Custody Form

ALS Laboratory Group
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 Holland, MI 49424-9263
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 Fax: +1 616 399 6185

Page 1 of 1

Customer Information				Project Information				ALS Work Order #: <u>10393</u> Parameter/Method Request for Analysis											
Purchase Order	El Paso Smelter			Project Name	El Paso Smelter			A	Total Metals (6020/7000) Al, Ca, Mg, Mn, K, Na, Sb, As, Ba, Cd, Cr										
Work Order	6835001			Project Number	6835001			B	Co, Cu, Fe, Pb, Mo, Ni, Se, Ti, Zn, Hg										
Company Name	Malcolm Pirnie			Bill To Company	Malcolm Pirnie			C	Dissolved Metals (6020/7000) Sb, As, Ba, Cd, Cr, Co, Cu, Fe, Pb										
Send Report To	Marla Miller			Invoice Attn	Marla Miller			D	Mo, Ni, Se, Ti, Zn, Hg										
Address	211 N Florence Street Suite 202			Address	211 N Florence Street Suite 202			E	Anions (300) Cl, F, SO4, NO3, NO2										
City/State/Zip	El Paso, TX 79901			City/State/Zip	El Paso, TX 79901			F	TDS										
Phone	(915) 533-9025			Phone	(915) 533-9025			G	TSS										
Fax	(915) 533-9045			Fax	(915) 533-9045			H	TOC (5310C)										
e-Mail Address				e-Mail Address				I											
				e-Mail Address				J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	QA03011	3/1/11	1125	W		2,3,4,7,8	X	X	X	X	X	X	X	X					
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s) Please Print & Sign <i>Garrett Ferguson</i>				Shipment Method Kedax				Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 10 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> Other				Results Due Date: 24 Hour							
Relinquished by: <i>[Signature]</i>				Received by: <i>[Signature]</i>				Notes: 10 Day TAT				Cooler # <i>1B10</i>							
Relinquished by: Date: <u>3/1/11</u> Time: <u>1800</u>				Received by Laboratory: <i>[Signature]</i> Date: <u>3/3/11</u> Time: <u>0830</u>				Cooler ID:				Cooler Temp:							
Relinquished by: Date: <u>3/1/11</u> Time: <u>1800</u>				Checked by Laboratory: <i>[Signature]</i> Date: <u>08/30</u> Time: <u>1800</u>				Level II Std QC <input checked="" type="checkbox"/>				Level III Std QC/RAW Data <input type="checkbox"/>							
Relinquished by: Date: <u>3/1/11</u> Time: <u>1800</u>				Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035				Level IV SW946/CLP <input type="checkbox"/>				Other / EDD <input type="checkbox"/>							

Note: 1. Any changes must be made in writing once samples and COC form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: MALCOLM PIRNIE-EL PASO

Date/Time Received: 03-Mar-11 08:30

Work Order: 1103093

Received by: RNG

Checklist completed by Raymond N Gamboa 03-Mar-11
eSignature Date

Reviewed by: Bethany Agarwal 04-Mar-11
eSignature Date

Matrices: Water
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): 3.2c 002

Cooler(s)/Kit(s): 1810

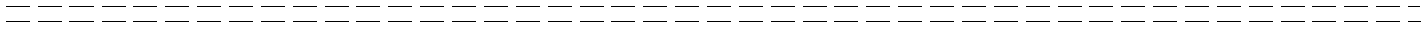
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]

Water - pH acceptable upon receipt? Yes [checked] No [] N/A []

pH adjusted? Yes [] No [checked] N/A []

pH adjusted by: []

Login Notes: Received NaOH bottle extra. Sulfide and Alkalinity added per client email request on March 4, 2011.



Client Contacted: Date Contacted: Person Contacted:


Contacted By: Regarding:

Comments: []

CorrectiveAction: []

MO.# 1103093

This portion can be removed for Recipient's records.
 e 3/2/11 FedEx Tracking Number 873521293160
 Order's name JODY BILLINGSLEE Phone 915 533-9025
 Company MALCOM FIRNIE INC
 Address 211 N FLORENCE ST STE 202
 City EL PASO State TX ZIP 79901-1424
 Internal Billing Reference 6835001

 **ALS Environmental**
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

CUSTODY SEAL
 Date: 3/2/11 Time: 15:00
 Name: *Shirley Ragan*
 Company: *ALS*

Seal Broken By: *ALS*
 Date: 3/3/11