Project Name: **Rico-Argentine - Surface Waters - Nov 2010** **Certificate of Analysis**

TDF #: **DG-220**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP07b **Date / Time Sampled:** 11/16/10 12:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-74 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**240**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**16.5**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**243000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**2170**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**21400**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1930**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11500**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**2610**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**13.1**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**29.2**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**4.34**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1600**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP08 **Date / Time Sampled:** 11/16/10 12:00 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-77 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**282**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**16.1**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**241000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**2660**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**21100**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1870**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11400**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**2720**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**13.4**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**39.1**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**4.58**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1720**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP09 **Date / Time Sampled:** 11/16/10 11:50 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-80 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**440**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**17.0**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**239000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**4480**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**20800**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1810**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11300**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**3320**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**15.7**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**68.8**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**7.01**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1810**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP10 **Date / Time Sampled:** 11/16/10 11:30 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-83 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**134**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**9.09**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**261000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**660**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**30800**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**2180**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**10500**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**253**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**0.887**	J	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**1.52**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**2400**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Selenium**	**5.03**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

Project Name: **Rico-Argentine - Surface Waters - Nov 2010** **Certificate of Analysis**

TDF #: **DG-220**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP11 **Date / Time Sampled:** 11/16/10 11:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-86 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**407**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**13.8**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**237000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**3260**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**20500**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1450**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11100**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**2870**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**14.5**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**48.7**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**5.48**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1700**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

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TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP12 **Date / Time Sampled:** 11/16/10 10:45 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-89 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**436**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**13.7**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**237000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**3590**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**20500**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1440**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11100**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**2940**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**14.2**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**55.1**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**6.05**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1690**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

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TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP14 **Date / Time Sampled:** 11/16/10 10:30 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-92 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**435**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**16.9**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**239000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**4560**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**20600**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1770**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11300**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**3190**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**16.3**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**71.5**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**7.58**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1790**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

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TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWP15 **Date / Time Sampled:** 11/16/10 10:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-95 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**438**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**16.9**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**235000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**4520**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**20200**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1730**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11000**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**3070**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**14.9**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**69.8**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**7.54**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1710**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

Project Name: **Rico-Argentine - Surface Waters - Nov 2010** **Certificate of Analysis**

TDF #: **DG-220**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: SLSWPP **Date / Time Sampled:** 11/16/10 10:00 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-B **Matrix:** Surface Water **Lab Number:** C101104-98 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1230**		ug/L	20.0	1	11/30/2010	SV	1011106
200.7	**Barium**	**18.1**		ug/L	2.00	1	11/30/2010	SV	1011106
200.7	**Calcium**	**238000**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Iron**	**12300**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Magnesium**	**20500**		ug/L	100	1	11/30/2010	SV	1011106
200.7	**Potassium**	**1750**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Sodium**	**11300**		ug/L	250	1	11/30/2010	SV	1011106
200.7	**Zinc**	**3810**		ug/L	10.0	1	11/30/2010	SV	1011106
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Cadmium**	**18.1**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	Chromium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Cobalt	< 1.00	U	ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Copper**	**196**		ug/L	2.50	5	11/30/2010	SV	1011106
200.8	**Lead**	**21.9**		ug/L	0.500	5	11/30/2010	SV	1011106
200.8	**Manganese**	**1740**		ug/L	1.00	5	11/30/2010	SV	1011106
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Selenium	< 5.00	U	ug/L	2.50	5	11/30/2010	SV	1011106
200.8	Silver	< 2.50	U	ug/L	0.500	5	11/30/2010	SV	1011106

"J" Qualifier indicates an estimated value

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TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLDRBG **Date / Time Sampled:** 11/17/10 11:45 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-01 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**94.7**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLDRBG DUP **Date / Time Sampled:** 11/17/10 11:45 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-04 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**96.2**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLDRMZ1a **Date / Time Sampled:** 11/17/10 14:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-07 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**103**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLDRMZ1b **Date / Time Sampled:** 11/17/10 14:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-10 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**105**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

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TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLDRMZ1c **Date / Time Sampled:** 11/17/10 14:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-13 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**109**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLDRMZ2 **Date / Time Sampled:** 11/17/10 14:05 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-16 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**106**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLPO01 **Date / Time Sampled:** 11/17/10 11:19 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-19 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**134**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLPO02 **Date / Time Sampled:** 11/17/10 10:48 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-22 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**128**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLPO03 **Date / Time Sampled:** 11/17/10 10:32 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-25 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**123**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLPO04 **Date / Time Sampled:** 11/17/10 10:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-28 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**112**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLPO05 **Date / Time Sampled:** 11/17/10 09:16 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-31 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**95.7**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSW01 **Date / Time Sampled:** 11/17/10 11:19 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-34 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**131**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSW02 **Date / Time Sampled:** 11/17/10 10:48 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-37 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**122**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSW03 **Date / Time Sampled:** 11/17/10 10:10 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-40 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**122**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSW04 **Date / Time Sampled:** 11/17/10 09:50 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-43 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**122**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSW05 **Date / Time Sampled:** 11/17/10 11:55 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-46 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**92.8**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWDR3 **Date / Time Sampled:** 11/16/10 09:20 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-49 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**105**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011115

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWDR4 **Date / Time Sampled:** 11/16/10 09:30 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-52 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**103**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWDR6 **Date / Time Sampled:** 11/16/10 14:00 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-55 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**130**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWDR7b **Date / Time Sampled:** 11/16/10 16:50 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-58 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**110**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWDR7c **Date / Time Sampled:** 11/16/10 16:50 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-61 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**111**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWFB **Date / Time Sampled:** 11/17/10 18:00 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-64 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	Total Alkalinity	< 5.00		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP06 **Date / Time Sampled:** 11/16/10 13:45 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-67 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**127**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP07a **Date / Time Sampled:** 11/16/10 12:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-70 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**109**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP07b **Date / Time Sampled:** 11/16/10 12:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-73 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**111**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP08 **Date / Time Sampled:** 11/16/10 12:00 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-76 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**106**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP09 **Date / Time Sampled:** 11/16/10 11:50 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-79 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**101**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP10 **Date / Time Sampled:** 11/16/10 11:30 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-82 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**134**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP11 **Date / Time Sampled:** 11/16/10 11:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-85 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**7.08**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP12 **Date / Time Sampled:** 11/16/10 10:45 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-88 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**99.9**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP14 **Date / Time Sampled:** 11/16/10 10:30 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-91 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**100**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWP15 **Date / Time Sampled:** 11/16/10 10:15 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-94 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**101**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: SLSWPP **Date / Time Sampled:** 11/16/10 10:00 **Workorder:** C101104
EPA Tag No.: No Tag Prefix-A **Matrix:** Surface Water **Lab Number:** C101104-97 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 310.1	**Total Alkalinity**	**106**		mg CaCO3 / L	5.00	1	11/30/2010	SV	1011116

"J" Qualifier indicates an estimated value

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
ICPMS-PE DRC-II									
Batch 1011111 - No Lab Prep Reqd			*Water*						ICPMS-PE DRC-II
Method Blank (1011111-BLK1)		Dilution Factor: 1				Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	< 0.500	1.00	ug/L						
Manganese	< 0.200	0.500	"						
Cobalt	< 0.100	0.200	"						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 0.500	1.00	"						
Silver	< 0.100	0.500	"						
Cadmium	< 0.100	0.200	"						
Lead	< 0.100	0.200	"						
Method Blank Spike (1011111-BS1)		Dilution Factor: 1				Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	92.7	1.00	ug/L	100		93	85-115		
Manganese	97.8	0.500	"	100		98	85-115		
Cobalt	99.6	0.200	"	100		100	85-115		
Nickel	96.2	1.00	"	100		96	85-115		
Copper	92.6	1.00	"	100		93	85-115		
Arsenic	94.8	2.00	"	100		95	85-115		
Selenium	475	1.00	"	500		95	85-115		
Silver	98.6	0.500	"	100		99	85-115		
Cadmium	96.6	0.200	"	100		97	85-115		
Lead	96.0	0.200	"	100		96	85-115		
Duplicate (1011111-DUP1)		Dilution Factor: 1	Source: C101104-03			Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	2.49	1.00	ug/L		2.95			17	20
Manganese	10.4	0.500	"		11.3			9	20
Cobalt	< 0.100	0.200	"		< 0.100				20
Nickel	< 0.500	1.00	"		< 0.500				20
Copper	< 0.500	1.00	"		< 0.500				20
Arsenic	< 0.500	2.00	"		< 0.500				20
Selenium	0.610	1.00	"		0.892			38	20
Silver	< 0.100	0.500	"		0.116				20
Cadmium	< 0.100	0.200	"		< 0.100				20
Lead	< 0.100	0.200	"		< 0.100				20

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011111 - No Lab Prep Reqd			*Water*						ICPMS-PE DRC-II
Matrix Spike (1011111-MS1)		Dilution Factor: 1	Source: C101104-03			Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	96.5	1.00	ug/L	100	2.95	94	75-125		
Manganese	104	0.500	"	100	11.3	93	75-125		
Cobalt	92.0	0.200	"	100	< 0.100	92	75-125		
Nickel	92.5	1.00	"	100	< 0.500	93	75-125		
Copper	90.5	1.00	"	100	< 0.500	90	75-125		
Arsenic	107	2.00	"	100	< 0.500	107	75-125		
Selenium	562	1.00	"	500	0.892	112	75-125		
Silver	98.0	0.500	"	100	0.116	98	75-125		
Cadmium	99.8	0.200	"	100	< 0.100	100	75-125		
Lead	106	0.200	"	100	< 0.100	106	75-125		
Matrix Spike Dup (1011111-MSD1)		Dilution Factor: 1	Source: C101104-03			Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	99.1	1.00	ug/L	100	2.95	96	75-125	3	20
Manganese	110	0.500	"	100	11.3	98	75-125	5	20
Cobalt	100	0.200	"	100	< 0.100	100	75-125	9	20
Nickel	95.2	1.00	"	100	< 0.500	95	75-125	3	20
Copper	96.2	1.00	"	100	< 0.500	96	75-125	6	20
Arsenic	109	2.00	"	100	< 0.500	109	75-125	1	20
Selenium	549	1.00	"	500	0.892	110	75-125	2	20
Silver	96.3	0.500	"	100	0.116	96	75-125	2	20
Cadmium	101	0.200	"	100	< 0.100	101	75-125	0.9	20
Lead	106	0.200	"	100	< 0.100	106	75-125	0.0005	20
Batch 1011112 - No Lab Prep Reqd			*Water*						ICPMS-PE DRC-II
Method Blank (1011112-BLK1)		Dilution Factor: 1				Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	< 0.500	1.00	ug/L						
Manganese	< 0.200	0.500	"						
Cobalt	< 0.100	0.200	"						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 0.500	1.00	"						
Silver	< 0.100	0.500	"						
Cadmium	< 0.100	0.200	"						
Lead	< 0.100	0.200	"						

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011112 - No Lab Prep Reqd			*Water*						ICPMS-PE DRC-II
Method Blank Spike (1011112-BS1)		Dilution Factor: 1				Prepared: 11/24/10	Analyzed: 11/29/10		
Chromium	93.5	1.00	ug/L	100		94	85-115		
Manganese	93.1	0.500	"	100		93	85-115		
Cobalt	89.6	0.200	"	100		90	85-115		
Nickel	92.5	1.00	"	100		93	85-115		
Copper	85.4	1.00	"	100		85	85-115		
Arsenic	95.1	2.00	"	100		95	85-115		
Selenium	492	1.00	"	500		98	85-115		
Silver	102	0.500	"	100		102	85-115		
Cadmium	102	0.200	"	100		102	85-115		
Lead	103	0.200	"	100		103	85-115		
Duplicate (1011112-DUP1)		Dilution Factor: 1	Source: C101104-54			Prepared: 11/24/10	Analyzed: 11/29/10		
Chromium	5.71	10.0	ug/L		< 5.00				20
Manganese	1920	5.00	"		1830			4	20
Cobalt	< 1.00	2.00	"		< 1.00				20
Nickel	< 5.00	10.0	"		< 5.00				20
Copper	11.4	10.0	"		11.7			3	20
Arsenic	< 5.00	20.0	"		< 5.00				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 1.00	5.00	"		1.31				20
Cadmium	17.2	2.00	"		16.8			2	20
Lead	< 1.00	2.00	"		< 1.00				20
Matrix Spike (1011112-MS1)		Dilution Factor: 1	Source: C101104-54			Prepared: 11/24/10	Analyzed: 11/29/10		
Chromium	95.8	10.0	ug/L	100	< 5.00	96	75-125		
Manganese	1980	5.00	"	100	1830	145	75-125		
Cobalt	93.7	2.00	"	100	< 1.00	94	75-125		
Nickel	92.3	10.0	"	100	< 5.00	92	75-125		
Copper	103	10.0	"	100	11.7	91	75-125		
Arsenic	98.5	20.0	"	100	< 5.00	98	75-125		
Selenium	507	10.0	"	500	< 5.00	101	75-125		
Silver	97.0	5.00	"	100	1.31	96	75-125		
Cadmium	117	2.00	"	100	16.8	100	75-125		
Lead	106	2.00	"	100	< 1.00	106	75-125		

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011112 - No Lab Prep Reqd			*Water*						ICPMS-PE DRC-II
Matrix Spike Dup (1011112-MSD1)		Dilution Factor: 1	Source: C101104-54			Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	95.5	10.0	ug/L	100	< 5.00	95	75-125	0.3	20
Manganese	2000	5.00	"	100	1830	171	75-125	1	20
Cobalt	95.9	2.00	"	100	< 1.00	96	75-125	2	20
Nickel	91.4	10.0	"	100	< 5.00	91	75-125	1	20
Copper	106	10.0	"	100	11.7	94	75-125	3	20
Arsenic	102	20.0	"	100	< 5.00	102	75-125	4	20
Selenium	504	10.0	"	500	< 5.00	101	75-125	0.5	20
Silver	100	5.00	"	100	1.31	99	75-125	4	20
Cadmium	118	2.00	"	100	16.8	102	75-125	1	20
Lead	109	2.00	"	100	< 1.00	109	75-125	2	20
Batch 1011114 - 1011112			*Water*						ICPMS-PE DRC-II
Serial Dilution (1011114-SRD1)		Dilution Factor: 5	Source: C101104-03			Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	3.03	5.00	ug/L		2.95			3	10
Manganese	10.9	5.00	"		11.3			4	10
Cobalt	< 2.50	5.00	"		< 0.50				10
Nickel	< 2.50	5.00	"		< 0.50				10
Copper	< 2.50	5.00	"		< 0.50				10
Arsenic	< 2.50	5.00	"		< 0.50				10
Selenium	< 2.50	5.00	"		0.892				10
Silver	< 2.50	5.00	"		0.116				10
Cadmium	< 2.50	5.00	"		< 0.50				10
Lead	< 2.50	5.00	"		< 0.50				10
Serial Dilution (1011114-SRD2)		Dilution Factor: 5	Source: C101104-54			Prepared: 11/24/10 Analyzed: 11/29/10			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Manganese	2040	50.0	"		1830			11	10
Cobalt	< 25.0	50.0	"		< 5.00				10
Nickel	< 25.0	50.0	"		< 5.00				10
Copper	< 25.0	50.0	"		11.7				10
Arsenic	< 25.0	50.0	"		< 5.00				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 25.0	50.0	"		1.31				10
Cadmium	< 25.0	50.0	"		16.8				10
Lead	< 25.0	50.0	"		< 5.00				10

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
ICPOE - PE Optima									
Batch 1011109 - No Lab Prep Reqd			*Water*						**ICPOE - PE Optima**
Method Blank (1011109-BLK1)		Dilution Factor: 1				Prepared: 11/24/10 Analyzed: 11/29/10			
Aluminum	< 20.0	50.0	ug/L						
Barium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Potassium	< 250	1000	"						
Magnesium	< 100	250	"						
Sodium	< 250	500	"						
Zinc	< 10.0	20.0	"						
Method Blank Spike (1011109-BS1)		Dilution Factor: 1				Prepared: 11/24/10 Analyzed: 11/29/10			
Aluminum	10480	50.0	ug/L	10100		104	85-115		
Barium	98.91	5.00	"	100		99	85-115		
Calcium	10200	250	"	10100		101	85-115		
Iron	10340	250	"	10100		102	85-115		
Potassium	10380	1000	"	10100		103	85-115		
Magnesium	10430	250	"	10100		103	85-115		
Sodium	10500	500	"	10100		104	85-115		
Zinc	100.4	20.0	"	100		100	85-115		
Duplicate (1011109-DUP1)		Dilution Factor: 1	Source: C101104-03			Prepared: 11/24/10 Analyzed: 11/29/10			
Aluminum	< 20.0	50.0	ug/L		< 20.0				20
Barium	67.00	5.00	"		67.18			0.3	20
Calcium	42280	250	"		42470			0.5	20
Iron	< 100	250	"		< 100				20
Potassium	640.5	1000	"		650.7			2	20
Magnesium	6410	250	"		6435			0.4	20
Sodium	2731	500	"		2733			0.09	20
Zinc	< 10.0	20.0	"		< 10.0				20

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011109 - No Lab Prep Reqd			*Water*						**ICPOE - PE Optima**
Matrix Spike (1011109-MS1)		Dilution Factor: 1		Source: C101104-03		Prepared: 11/24/10	Analyzed: 11/29/10		
Aluminum	10810	50.0	ug/L	10100	< 20.0	107	75-125		
Barium	166.0	5.00	"	100	67.18	99	75-125		
Calcium	51960	250	"	10100	42470	94	75-125		
Iron	10720	250	"	10100	< 100	106	75-125		
Potassium	11220	1000	"	10100	650.7	105	75-125		
Magnesium	16860	250	"	10100	6435	103	75-125		
Sodium	13420	500	"	10100	2733	106	75-125		
Zinc	105.4	20.0	"	100	< 10.0	105	75-125		
Matrix Spike Dup (1011109-MSD1)		Dilution Factor: 1		Source: C101104-03		Prepared: 11/24/10	Analyzed: 11/29/10		
Aluminum	10660	50.0	ug/L	10100	< 20.0	106	75-125	1	20
Barium	164.9	5.00	"	100	67.18	98	75-125	0.7	20
Calcium	51980	250	"	10100	42470	94	75-125	0.05	20
Iron	10500	250	"	10100	< 100	104	75-125	2	20
Potassium	11120	1000	"	10100	650.7	104	75-125	0.9	20
Magnesium	16760	250	"	10100	6435	102	75-125	0.6	20
Sodium	13280	500	"	10100	2733	104	75-125	1	20
Zinc	103.3	20.0	"	100	< 10.0	103	75-125	2	20
Batch 1011110 - No Lab Prep Reqd			*Water*						**ICPOE - PE Optima**
Method Blank (1011110-BLK1)		Dilution Factor: 1				Prepared: 11/24/10	Analyzed: 11/29/10		
Aluminum	< 20.0	50.0	ug/L						
Barium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Potassium	< 250	1000	"						
Magnesium	< 100	250	"						
Sodium	< 250	500	"						
Zinc	< 10.0	20.0	"						

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011110 - No Lab Prep Reqd			*Water*						ICPOE - PE Optima
Method Blank Spike (1011110-BS1)		Dilution Factor: 1				Prepared: 11/24/10	Analyzed: 11/29/10		
Aluminum	10570	50.0	ug/L	10100		105	85-115		
Barium	99.47	5.00	"	100		99	85-115		
Calcium	10340	250	"	10100		102	85-115		
Iron	10400	250	"	10100		103	85-115		
Potassium	10440	1000	"	10100		103	85-115		
Magnesium	10510	250	"	10100		104	85-115		
Sodium	10580	500	"	10100		105	85-115		
Zinc	101.3	20.0	"	100		101	85-115		
Duplicate (1011110-DUP1)		Dilution Factor: 1	Source: C101104-54			Prepared: 11/24/10	Analyzed: 11/29/10		
Aluminum	103.7	50.0	ug/L		102.2			1	20
Barium	17.53	5.00	"		17.80			2	20
Calcium	239900	250	"		241400			0.6	20
Iron	2878	250	"		2861			0.6	20
Potassium	1761	1000	"		1745			0.9	20
Magnesium	20380	250	"		20360			0.09	20
Sodium	11210	500	"		11090			1	20
Zinc	3590	20.0	"		3628			1	20
Matrix Spike (1011110-MS1)		Dilution Factor: 1	Source: C101104-54			Prepared: 11/24/10	Analyzed: 11/29/10		
Aluminum	11080	50.0	ug/L	10100	102.2	109	75-125		
Barium	117.4	5.00	"	100	17.80	100	75-125		
Calcium	246600	250	"	10100	241400	51	75-125		
Iron	13300	250	"	10100	2861	103	75-125		
Potassium	12600	1000	"	10100	1745	107	75-125		
Magnesium	30670	250	"	10100	20360	102	75-125		
Sodium	21890	500	"	10100	11090	107	75-125		
Zinc	3527	20.0	"	100	3628	NR	75-125		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011110 - No Lab Prep Reqd			*Water*						ICPOE - PE Optima
Matrix Spike Dup (1011110-MSD1)		Dilution Factor: 1		Source: C101104-54		Prepared: 11/24/10 Analyzed: 11/29/10			
Aluminum	10740	50.0	ug/L	10100	102.2	105	75-125	3	20
Barium	115.0	5.00	"	100	17.80	97	75-125	2	20
Calcium	247700	250	"	10100	241400	62	75-125	0.4	20
Iron	13030	250	"	10100	2861	101	75-125	2	20
Potassium	12220	1000	"	10100	1745	104	75-125	3	20
Magnesium	30360	250	"	10100	20360	99	75-125	1	20
Sodium	21470	500	"	10100	11090	103	75-125	2	20
Zinc	3553	20.0	"	100	3628	NR	75-125	0.7	20
Batch 1011113 - 1011110			*Water*						ICPOE - PE Optima
Serial Dilution (1011113-SRD1)		Dilution Factor: 5		Source: C101104-03		Prepared: 11/24/10 Analyzed: 11/29/10			
Aluminum	< 10.0	25.0	ug/L		< 2.00				10
Barium	67.66	25.0	"		67.18			0.7	10
Calcium	42130	25.0	"		42470			0.8	10
Iron	43.84	25.0	"		< 2.00				10
Potassium	681.2	25.0	"		650.7			5	10
Magnesium	6384	25.0	"		6435			0.8	10
Sodium	2689	25.0	"		2733			2	10
Zinc	10.47	25.0	"		< 2.00				10
Serial Dilution (1011113-SRD2)		Dilution Factor: 5		Source: C101104-54		Prepared: 11/24/10 Analyzed: 11/29/10			
Aluminum	< 1250	5000	ug/L		102.2				10
Barium	< 1250	5000	"		17.80				10
Calcium	235700	5000	"		241400			2	10
Iron	2955	5000	"		2861			3	10
Potassium	1510	5000	"		1745			14	10
Magnesium	19980	5000	"		20360			2	10
Sodium	10740	5000	"		11090			3	10
Zinc	3608	5000	"		3628			0.6	10

NOTE: %R = % Recovery, %R limits do not apply when sample levels exceed 4x the spike level.
RPD = Relative Percent Difference, %D = % Difference, DL = Detection Limit for QC sample

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
ICPMS-PE DRC-II									
Batch 1011105 - 200.2 - TR Metals			*Water*						ICPMS-PE DRC-II
Method Blank (1011105-BLK2)		Dilution Factor: 5				Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	< 2.50	5.00	ug/L						
Manganese	< 1.00	2.50	"						
Cobalt	< 0.500	1.00	"						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 2.50	5.00	"						
Silver	0.5961	2.50	"						
Cadmium	0.8090	1.00	"						
Lead	0.7160	1.00	"						
Duplicate (1011105-DUP2)		Dilution Factor: 5	Source: C101104-02			Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	< 2.50	5.00	ug/L		< 2.50				20
Manganese	12.66	2.50	"		12.51			1	20
Cobalt	< 0.500	1.00	"		< 0.500				20
Nickel	< 2.50	5.00	"		< 2.50				20
Copper	< 2.50	5.00	"		< 2.50				20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 2.50	5.00	"		< 2.50				20
Silver	< 0.500	2.50	"		< 0.500				20
Cadmium	< 0.500	1.00	"		< 0.500				20
Lead	< 0.500	1.00	"		< 0.500				20
Matrix Spike (1011105-MS2)		Dilution Factor: 5	Source: C101104-02			Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	380.6	5.00	ug/L	400	< 2.50	95	75-125		
Manganese	201.4	2.50	"	200	12.51	94	75-125		
Cobalt	196.8	1.00	"	200	< 0.500	98	75-125		
Nickel	481.3	5.00	"	500	< 2.50	96	75-125		
Copper	298.8	5.00	"	300	< 2.50	100	75-125		
Arsenic	806.3	10.0	"	800	< 2.50	101	75-125		
Selenium	1980	5.00	"	2000	< 2.50	99	75-125		
Silver	71.19	2.50	"	75.0	< 0.500	95	75-125		
Cadmium	196.1	1.00	"	200	< 0.500	98	75-125		
Lead	944.2	1.00	"	1000	< 0.500	94	75-125		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011105 - 200.2 - TR Metals			*Water*						ICPMS-PE DRC-II
Matrix Spike Dup (1011105-MSD2)		Dilution Factor: 5	Source: C101104-02			Prepared: 11/23/10	Analyzed: 11/30/10		
Chromium	385.0	5.00	ug/L	400	< 2.50	96	75-125	1	20
Manganese	205.5	2.50	"	200	12.51	96	75-125	2	20
Cobalt	199.2	1.00	"	200	< 0.500	100	75-125	1	20
Nickel	489.8	5.00	"	500	< 2.50	98	75-125	2	20
Copper	311.5	5.00	"	300	< 2.50	104	75-125	4	20
Arsenic	807.9	10.0	"	800	< 2.50	101	75-125	0.2	20
Selenium	2009	5.00	"	2000	< 2.50	100	75-125	1	20
Silver	73.20	2.50	"	75.0	< 0.500	98	75-125	3	20
Cadmium	198.0	1.00	"	200	< 0.500	99	75-125	1	20
Lead	969.2	1.00	"	1000	< 0.500	97	75-125	3	20
Post Spike (1011105-PS2)		Dilution Factor: 5	Source: C101104-02			Prepared: 11/23/10	Analyzed: 11/30/10		
Chromium	97.28		ug/L	100	0.9578	96	80-120		
Manganese	109.4		"	100	12.51	97	80-120		
Cobalt	99.09		"	100	-0.5806	100	80-120		
Nickel	97.48		"	100	-1.600	99	80-120		
Copper	99.40		"	100	-1.533	101	80-120		
Arsenic	99.75		"	100	-0.9352	101	80-120		
Selenium	494.9		"	500	0.1106	99	80-120		
Silver	98.50		"	100	0.3718	98	80-120		
Cadmium	99.73		"	100	0.4835	99	80-120		
Lead	103.6		"	100	0.03680	104	80-120		
Reference (1011105-SRM2)		Dilution Factor: 2				Prepared: 11/23/10	Analyzed: 11/30/10		
Chromium	977.4	20.0	ug/L	1000		98	80-120		
Manganese	979.5	10.0	"	1000		98	80-120		
Cobalt	1020	4.00	"	1000		102	80-120		
Nickel	1021	20.0	"	1000		102	80-120		
Copper	1089	20.0	"	1000		109	80-120		
Arsenic	1997	40.0	"	2000		100	80-120		
Selenium	1050	20.0	"	1000		105	80-120		
Silver	241.0	10.0	"	250		96	80-120		
Cadmium	987.0	4.00	"	1000		99	80-120		
Lead	1911	4.00	"	2000		96	80-120		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011106 - 200.2 - TR Metals			*Water*						ICPMS-PE DRC-II
Method Blank (1011106-BLK2)		Dilution Factor: 5				Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	< 2.50	5.00	ug/L						
Manganese	< 1.00	2.50	"						
Cobalt	< 0.500	1.00	"						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 2.50	5.00	"						
Silver	< 0.500	2.50	"						
Cadmium	< 0.500	1.00	"						
Lead	< 0.500	1.00	"						
Duplicate (1011106-DUP2)		Dilution Factor: 5	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	< 2.50	5.00	ug/L		< 2.50				20
Manganese	1749	2.50	"		1766			1	20
Cobalt	< 0.500	1.00	"		< 0.500				20
Nickel	< 2.50	5.00	"		< 2.50				20
Copper	194.2	5.00	"		193.1			0.6	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 2.50	5.00	"		< 2.50				20
Silver	< 0.500	2.50	"		< 0.500				20
Cadmium	19.05	1.00	"		19.02			0.2	20
Lead	20.40	1.00	"		20.58			0.9	20
Matrix Spike (1011106-MS2)		Dilution Factor: 5	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	351.8	5.00	ug/L	400	< 2.50	88	75-125		
Manganese	1916	2.50	"	200	1766	75	75-125		
Cobalt	189.9	1.00	"	200	< 0.500	95	75-125		
Nickel	465.0	5.00	"	500	< 2.50	93	75-125		
Copper	485.0	5.00	"	300	193.1	97	75-125		
Arsenic	785.0	10.0	"	800	< 2.50	98	75-125		
Selenium	1946	5.00	"	2000	< 2.50	97	75-125		
Silver	70.18	2.50	"	75.0	< 0.500	94	75-125		
Cadmium	207.3	1.00	"	200	19.02	94	75-125		
Lead	1061	1.00	"	1000	20.58	104	75-125		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011106 - 200.2 - TR Metals			*Water*						ICPMS-PE DRC-II
Matrix Spike Dup (1011106-MSD2)		Dilution Factor: 5	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	367.9	5.00	ug/L	400	< 2.50	92	75-125	4	20
Manganese	1938	2.50	"	200	1766	86	75-125	1	20
Cobalt	196.7	1.00	"	200	< 0.500	98	75-125	4	20
Nickel	482.5	5.00	"	500	< 2.50	97	75-125	4	20
Copper	509.7	5.00	"	300	193.1	106	75-125	5	20
Arsenic	788.1	10.0	"	800	< 2.50	99	75-125	0.4	20
Selenium	1959	5.00	"	2000	< 2.50	98	75-125	0.6	20
Silver	70.94	2.50	"	75.0	< 0.500	95	75-125	1	20
Cadmium	216.9	1.00	"	200	19.02	99	75-125	5	20
Lead	1087	1.00	"	1000	20.58	107	75-125	2	20
Post Spike (1011106-PS2)		Dilution Factor: 5	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	93.56		ug/L	100	1.233	92	80-120		
Manganese	1874		"	100	1766	108	80-120		
Cobalt	97.30		"	100	-0.01520	97	80-120		
Nickel	92.88		"	100	-3.632	97	80-120		
Copper	292.4		"	100	193.1	99	80-120		
Arsenic	106.1		"	100	1.074	105	80-120		
Selenium	490.9		"	500	0.1411	98	80-120		
Silver	97.70		"	100	0.1150	98	80-120		
Cadmium	118.8		"	100	19.02	100	80-120		
Lead	129.9		"	100	20.58	109	80-120		
Reference (1011106-SRM2)		Dilution Factor: 2				Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	928.0	20.0	ug/L	1000		93	80-120		
Manganese	944.9	10.0	"	1000		94	80-120		
Cobalt	964.1	4.00	"	1000		96	80-120		
Nickel	950.8	20.0	"	1000		95	80-120		
Copper	995.0	20.0	"	1000		99	80-120		
Arsenic	2007	40.0	"	2000		100	80-120		
Selenium	1006	20.0	"	1000		101	80-120		
Silver	240.4	10.0	"	250		96	80-120		
Cadmium	1009	4.00	"	1000		101	80-120		
Lead	2034	4.00	"	2000		102	80-120		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011120 - 1011106			*Water*						ICPMS-PE DRC-II
Serial Dilution (1011120-SRD1)		Dilution Factor: 2		Source: C101104-02		Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	< 12.5	25.0	ug/L		< 2.50				10
Manganese	12.32	12.5	"		12.51			2	10
Cobalt	< 2.50	5.00	"		< 0.50				10
Nickel	< 12.5	25.0	"		< 2.50				10
Copper	< 12.5	25.0	"		< 2.50				10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 12.5	25.0	"		< 2.50				10
Silver	< 2.50	12.5	"		< 0.50				10
Cadmium	< 2.50	5.00	"		< 0.50				10
Lead	< 2.50	5.00	"		< 0.50				10
Serial Dilution (1011120-SRD2)		Dilution Factor: 2		Source: C101104-50		Prepared: 11/23/10 Analyzed: 11/30/10			
Chromium	< 12.5	25.0	ug/L		< 2.50				10
Manganese	1958	12.5	"		1766			10	10
Cobalt	< 2.50	5.00	"		< 0.50				10
Nickel	< 12.5	25.0	"		< 2.50				10
Copper	195.7	25.0	"		193.1			1	10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 12.5	25.0	"		< 2.50				10
Silver	< 2.50	12.5	"		< 0.50				10
Cadmium	17.85	5.00	"		19.02			6	10
Lead	19.61	5.00	"		20.58			5	10

ICPOE - PE Optima

Batch 1011105 - 200.2 - TR Metals			*Water*						ICPOE - PE Optima
Method Blank (1011105-BLK1)		Dilution Factor: 1				Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	< 20.0	50.0	ug/L						
Barium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Potassium	< 250	1000	"						
Magnesium	< 100	250	"						
Sodium	< 250	500	"						
Zinc	< 10.0	20.0	"						

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011105 - 200.2 - TR Metals			*Water*						ICPOE - PE Optima
Duplicate (1011105-DUP1)		Dilution Factor: 1		Source: C101104-02		Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	60.59	50.0	ug/L		57.77			5	20
Barium	67.78	5.00	"		67.77			0.03	20
Calcium	42290	250	"		42310			0.05	20
Iron	< 100	250	"		< 100				20
Potassium	642.8	1000	"		656.8			2	20
Magnesium	6473	250	"		6464			0.1	20
Sodium	2762	500	"		2760			0.1	20
Zinc	< 10.0	20.0	"		< 10.0				20
Matrix Spike (1011105-MS1)		Dilution Factor: 1		Source: C101104-02		Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	2023	50.0	ug/L	2000	57.77	98	75-125		
Barium	265.7	5.00	"	200	67.77	99	75-125		
Calcium	43100	250	"	1000	42310	79	75-125		
Iron	3074	250	"	3000	< 100	102	75-125		
Potassium	10550	1000	"	10000	656.8	99	75-125		
Magnesium	8430	250	"	2000	6464	98	75-125		
Sodium	5784	500	"	3000	2760	101	75-125		
Zinc	191.5	20.0	"	200	< 10.0	96	75-125		
Matrix Spike Dup (1011105-MSD1)		Dilution Factor: 1		Source: C101104-02		Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	2053	50.0	ug/L	2000	57.77	100	75-125	1	20
Barium	268.7	5.00	"	200	67.77	100	75-125	1	20
Calcium	44010	250	"	1000	42310	170	75-125	2	20
Iron	3086	250	"	3000	< 100	103	75-125	0.4	20
Potassium	10690	1000	"	10000	656.8	100	75-125	1	20
Magnesium	8589	250	"	2000	6464	106	75-125	2	20
Sodium	5884	500	"	3000	2760	104	75-125	2	20
Zinc	193.2	20.0	"	200	< 10.0	97	75-125	0.9	20

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011105 - 200.2 - TR Metals			*Water*						ICPOE - PE Optima
Post Spike (1011105-PS1)		Dilution Factor: 1		Source: C101104-02		Prepared: 11/23/10	Analyzed: 11/30/10		
Aluminum	10660		ug/L	10100	57.77	105	80-120		
Barium	165.7		"	100	67.77	98	80-120		
Calcium	51510		"	10100	42310	91	80-120		
Iron	10480		"	10100	68.39	103	80-120		
Potassium	11180		"	10100	656.8	104	80-120		
Magnesium	16730		"	10100	6464	102	80-120		
Sodium	13290		"	10100	2760	104	80-120		
Zinc	98.55		"	100	6.958	92	80-120		
Reference (1011105-SRM1)		Dilution Factor: 1				Prepared: 11/23/10	Analyzed: 11/30/10		
Aluminum	1000	50.0	ug/L	1000		100	80-120		
Barium	1005	5.00	"	1000		101	80-120		
Calcium	926.6	250	"	1000		93	80-120		
Iron	980.0	250	"	1000		98	80-120		
Potassium	4838	1000	"	5000		97	80-120		
Magnesium	992.8	250	"	1000		99	80-120		
Sodium	959.7	500	"	1000		96	80-120		
Zinc	969.1	20.0	"	1000		97	80-120		
Batch 1011106 - 200.2 - TR Metals			*Water*						ICPOE - PE Optima
Method Blank (1011106-BLK1)		Dilution Factor: 1				Prepared: 11/23/10	Analyzed: 11/30/10		
Aluminum	< 20.0	50.0	ug/L						
Barium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Potassium	< 250	1000	"						
Magnesium	< 100	250	"						
Sodium	< 250	500	"						
Zinc	< 10.0	20.0	"						

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011106 - 200.2 - TR Metals			*Water*						ICPOE - PE Optima
Duplicate (1011106-DUP1)		Dilution Factor: 1	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	1166	50.0	ug/L		1172			0.5	20
Barium	15.54	5.00	"		16.18			4	20
Calcium	237100	250	"		236800			0.2	20
Iron	11260	250	"		11350			0.8	20
Potassium	1422	1000	"		1452			2	20
Magnesium	20340	250	"		20300			0.2	20
Sodium	11110	500	"		11110			0.04	20
Zinc	3701	20.0	"		3722			0.6	20
Matrix Spike (1011106-MS1)		Dilution Factor: 1	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	3100	50.0	ug/L	2000	1172	96	75-125		
Barium	214.8	5.00	"	200	16.18	99	75-125		
Calcium	239100	250	"	1000	236800	239	75-125		
Iron	14290	250	"	3000	11350	98	75-125		
Potassium	12010	1000	"	10000	1452	106	75-125		
Magnesium	22440	250	"	2000	20300	107	75-125		
Sodium	14390	500	"	3000	11110	109	75-125		
Zinc	3962	20.0	"	200	3722	120	75-125		
Matrix Spike Dup (1011106-MSD1)		Dilution Factor: 1	Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	3067	50.0	ug/L	2000	1172	95	75-125	1	20
Barium	212.7	5.00	"	200	16.18	98	75-125	0.9	20
Calcium	234900	250	"	1000	236800	NR	75-125	2	20
Iron	13980	250	"	3000	11350	88	75-125	2	20
Potassium	11960	1000	"	10000	1452	105	75-125	0.4	20
Magnesium	22080	250	"	2000	20300	89	75-125	2	20
Sodium	14250	500	"	3000	11110	105	75-125	1	20
Zinc	3799	20.0	"	200	3722	39	75-125	4	20

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011106 - 200.2 - TR Metals			*Water*						ICPOE - PE Optima
Post Spike (1011106-PS1)		Dilution Factor: 1		Source: C101104-50		Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	11750		ug/L	10100	1172	105	80-120		
Barium	115.1		"	100	16.18	99	80-120		
Calcium	241300		"	10100	236800	45	80-120		
Iron	21130		"	10100	11350	97	80-120		
Potassium	12390		"	10100	1452	108	80-120		
Magnesium	30210		"	10100	20300	98	80-120		
Sodium	21600		"	10100	11110	104	80-120		
Zinc	3630		"	100	3722	NR	80-120		
Reference (1011106-SRM1)		Dilution Factor: 1				Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	1007	50.0	ug/L	1000		101	80-120		
Barium	1010	5.00	"	1000		101	80-120		
Calcium	927.5	250	"	1000		93	80-120		
Iron	959.0	250	"	1000		96	80-120		
Potassium	4840	1000	"	5000		97	80-120		
Magnesium	999.2	250	"	1000		100	80-120		
Sodium	962.1	500	"	1000		96	80-120		
Zinc	971.1	20.0	"	1000		97	80-120		
Batch 1011119 - 1011106			*Water*						ICPOE - PE Optima
Serial Dilution (1011119-SRD1)		Dilution Factor: 5		Source: C101104-02		Prepared: 11/23/10 Analyzed: 11/30/10			
Aluminum	< 100	250	ug/L		57.77				10
Barium	68.67	25.0	"		67.77			1	10
Calcium	42190	1250	"		42310			0.3	10
Iron	< 500	1250	"		< 100.00				10
Potassium	< 1250	5000	"		656.8				10
Magnesium	6452	1250	"		6464			0.2	10
Sodium	2782	2500	"		2760			0.8	10
Zinc	< 50.0	100	"		< 10.00				10

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1011119 - 1011106			*Water*						ICPOE - PE Optima
Serial Dilution (1011119-SRD2)		Dilution Factor: 5		Source: C101104-50			Prepared: 11/23/10 Analyzed: 11/30/10		
Aluminum	1189	250	ug/L		1172			1	10
Barium	16.63	25.0	"		16.18			3	10
Calcium	237600	1250	"		236800			0.3	10
Iron	11610	1250	"		11350			2	10
Potassium	1625	5000	"		1452			11	10
Magnesium	20440	1250	"		20300			0.7	10
Sodium	11110	2500	"		11110			0.04	10
Zinc	3871	100	"		3722			4	10

NOTE: %R = % Recovery, %R limits do not apply when sample levels exceed 4x the spike level.
RPD = Relative Percent Difference, %D = % Difference, DL = Detection Limit for QC sample

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Mettler AT									
Batch 1011115 - No Lab Prep Reqd			*Water*						**Mettler AT**
Method Blank (1011115-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 11/30/10			
Total Alkalinity	< 5.00	5.00	mg CaCO3 / L						
Duplicate (1011115-DUP1)		Dilution Factor: 1	Source: C101104-01			Prepared & Analyzed: 11/30/10			
Total Alkalinity	95.7	5.00	mg CaCO3 / L		94.7			1	20
Reference (1011115-SRM1)		Dilution Factor: 1				Prepared & Analyzed: 11/30/10			
Total Alkalinity	123	5.00	mg CaCO3 / L	123		100	93.6-106		
Batch 1011116 - No Lab Prep Reqd			*Water*						**Mettler AT**
Method Blank (1011116-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 11/30/10			
Total Alkalinity	< 5.00	5.00	mg CaCO3 / L						
Duplicate (1011116-DUP1)		Dilution Factor: 1	Source: C101104-52			Prepared & Analyzed: 11/30/10			
Total Alkalinity	105	5.00	mg CaCO3 / L		103			1	20
Reference (1011116-SRM1)		Dilution Factor: 1				Prepared & Analyzed: 11/30/10			
Total Alkalinity	124	5.00	mg CaCO3 / L	123		101	93.6-106		

NOTE: %R = % Recovery, %R limits do not apply when sample levels exceed 4x the spike level.
RPD = Relative Percent Difference, %D = % Difference, DL = Detection Limit for QC sample

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals-2010

Instrument: ICPOE - PE Optima Work Order: Nu C101104

Analytical Sequence: 1011113 Dissolved Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Aluminum	-0.74	1	2	3	4	1011109-BLK1	NA	50.00
		0.82	1.55	0.56	-0.11	-0.57	NA	
		5	6	7	8			
		1.99	2.88					
	-0.74	1	2	3	4	1011110-BLK1	NA	50.00
		0.82	1.55	0.56	-0.11	0.86	NA	
		5	6	7	8			
		1.99	2.88					
Barium	-0.02	1	2	3	4	1011110-BLK1	NA	5.00
		0.11	0.04	0.18	0.08	-0.02	NA	
		5	6	7	8			
		0.12	0.17					
	-0.02	1	2	3	4	1011109-BLK1	NA	5.00
		0.11	0.04	0.18	0.08	0.10	NA	
		5	6	7	8			
		0.12	0.17					
Calcium	0.53	1	2	3	4	1011109-BLK1	NA	250.00
		0.92	2.74	2.12	3.31	-0.65	NA	
		5	6	7	8			
		4.87	6.70					
	0.53	1	2	3	4	1011110-BLK1	NA	250.00
		0.92	2.74	2.12	3.31	6.29	NA	
		5	6	7	8			
		4.87	6.70					
Iron	4.72	1	2	3	4	1011110-BLK1	NA	250.00
		38.73	15.68	17.42	14.78	25.34	NA	
		5	6	7	8			
		28.74	22.04					
	4.72	1	2	3	4	1011109-BLK1	NA	250.00
		38.73	15.68	17.42	14.78	21.14	NA	
		5	6	7	8			
		28.74	22.04					

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals-2010

Instrument: ICPOE - PE Optima Work Order: Nu C101104

Analytical Sequence: 1011113 Dissolved Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Potassium	36.08	1	2	3	4	1011109-BLK1	NA	1,000.00
		33.35	28.61	40.26	40.35	28.11	NA	
		5	6	7	8			
		54.55	45.06					
	36.08	1	2	3	4	1011110-BLK1	NA	1,000.00
		33.35	28.61	40.26	40.35	30.36	NA	
		5	6	7	8			
		54.55	45.06					
Magnesium	0.11	1	2	3	4	1011110-BLK1	NA	250.00
		1.51	0.83	1.30	0.88	-0.38	NA	
		5	6	7	8			
		1.52	2.30					
	0.11	1	2	3	4	1011109-BLK1	NA	250.00
		1.51	0.83	1.30	0.88	-0.72	NA	
		5	6	7	8			
		1.52	2.30					
Sodium	3.75	1	2	3	4	1011109-BLK1	NA	500.00
		-2.98	-4.76	1.78	2.67	-9.04	NA	
		5	6	7	8			
		2.58	-0.29					
	3.75	1	2	3	4	1011110-BLK1	NA	500.00
		-2.98	-4.76	1.78	2.67	2.88	NA	
		5	6	7	8			
		2.58	-0.29					
Zinc	1.55	1	2	3	4	1011109-BLK1	NA	20.00
		1.74	1.92	0.56	0.15	0.91	NA	
		5	6	7	8			
		2.72	2.17					
	1.55	1	2	3	4	1011110-BLK1	NA	20.00
		1.74	1.92	0.56	0.15	0.91	NA	
		5	6	7	8			
		2.72	2.17					

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals-2010

Instrument: ICPMS-PE DRC-II Work Order: Nu C101104

Analytical Sequence: 1011114 Dissolved Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	0.00	1	2	3	4	1011111-BLK1	NA	1.00
		0.00	0.02	-0.05	0.00	-0.01	NA	
		5	6	7	8			
		-0.01	-0.01					
	0.00	1	2	3	4	1011112-BLK1	NA	1.00
		0.00	0.02	-0.05	0.00	0.06	NA	
		5	6	7	8			
		-0.01	-0.01					
Manganese	-0.01	1	2	3	4	1011112-BLK1	NA	0.50
		0.00	0.01	-0.01	0.04	0.09	NA	
		5	6	7	8			
		0.01	0.02					
	-0.01	1	2	3	4	1011111-BLK1	NA	0.50
		0.00	0.01	-0.01	0.04	-0.01	NA	
		5	6	7	8			
		0.01	0.02					
Cobalt	0.01	1	2	3	4	1011112-BLK1	NA	0.20
		0.01	0.02	0.01	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01					
	0.01	1	2	3	4	1011111-BLK1	NA	0.20
		0.01	0.02	0.01	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01					
Nickel	0.01	1	2	3	4	1011112-BLK1	NA	1.00
		0.02	0.03	0.02	0.02	-0.01	NA	
		5	6	7	8			
		0.01	0.01					
	0.01	1	2	3	4	1011111-BLK1	NA	1.00
		0.02	0.03	0.02	0.02	0.00	NA	
		5	6	7	8			
		0.01	0.01					

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals-2010

Instrument: ICPMS-PE DRC-II Work Order: Nu C101104

Analytical Sequence: 1011114 Dissolved Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Copper	0.26	1	2	3	4	1011111-BLK1	NA	1.00
		0.15	0.45	0.16	0.21	-0.09	NA	
		5	6	7	8			
		0.14	0.09					
	0.26	1	2	3	4	1011112-BLK1	NA	1.00
		0.15	0.45	0.16	0.21	-0.13	NA	
		5	6	7	8			
		0.14	0.09					
Arsenic	0.06	1	2	3	4	1011112-BLK1	NA	2.00
		0.05	0.08	0.07	0.03	0.04	NA	
		5	6	7	8			
		0.04	0.04					
	0.06	1	2	3	4	1011111-BLK1	NA	2.00
		0.05	0.08	0.07	0.03	0.08	NA	
		5	6	7	8			
		0.04	0.04					
Selenium	0.06	1	2	3	4	1011112-BLK1	NA	1.00
		-0.04	0.07	-0.01	-0.02	-0.06	NA	
		5	6	7	8			
		-0.04	-0.15					
	0.06	1	2	3	4	1011111-BLK1	NA	1.00
		-0.04	0.07	-0.01	-0.02	0.00	NA	
		5	6	7	8			
		-0.04	-0.15					
Silver	0.13	1	2	3	4	1011112-BLK1	NA	0.50
		0.13	0.11	0.09	0.09	-0.02	NA	
		5	6	7	8			
		0.07	0.07					
	0.13	1	2	3	4	1011111-BLK1	NA	0.50
		0.13	0.11	0.09	0.09	0.03	NA	
		5	6	7	8			
		0.07	0.07					

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals-2010

Instrument: ICPMS-PE DRC-II Work Order: Nu C101104

Analytical Sequence: 1011114 Dissolved Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.01	1	2	3	4	1011111-BLK1	NA	0.20
		-0.03	0.00	0.00	0.00	-0.03	NA	
		5	6	7	8			
		0.04	0.01					
	0.01	1	2	3	4	1011112-BLK1	NA	0.20
		-0.03	0.00	0.00	0.00	-0.02	NA	
		5	6	7	8			
		0.04	0.01					
Lead	0.02	1	2	3	4	1011111-BLK1	NA	0.20
		0.01	0.02	0.01	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01					
	0.02	1	2	3	4	1011112-BLK1	NA	0.20
		0.01	0.02	0.01	0.01	-0.02	NA	
		5	6	7	8			
		0.01	0.01					

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec Metals-2010

Instrument: ICPOE - PE Optima Work Order: Nu C101104

Analytical Sequence: 1011119 Total Recoverable Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Aluminum	0.37	1	2	3	4	1011106-BLK1	NA	50.00
		3.44	2.72	2.87	3.01	-0.01	NA	
		5	6	7	8			
		5.57	3.18	3.79				
	0.37	1	2	3	4	1011105-BLK1	NA	50.00
		3.44	2.72	2.87	3.01	-0.53	NA	
		5	6	7	8			
		5.57	3.18	3.79				
Barium	0.12	1	2	3	4	1011106-BLK1	NA	5.00
		-0.02	0.05	0.02	0.09	-0.11	NA	
		5	6	7	8			
		-0.03	0.19	0.09				
	0.12	1	2	3	4	1011105-BLK1	NA	5.00
		-0.02	0.05	0.02	0.09	-0.12	NA	
		5	6	7	8			
		-0.03	0.19	0.09				
Calcium	-0.80	1	2	3	4	1011106-BLK1	NA	250.00
		2.35	0.82	0.59	-0.25	4.90	NA	
		5	6	7	8			
		0.61	2.07	5.13				
	-0.80	1	2	3	4	1011105-BLK1	NA	250.00
		2.35	0.82	0.59	-0.25	-0.14	NA	
		5	6	7	8			
		0.61	2.07	5.13				
Iron	-0.47	1	2	3	4	1011105-BLK1	NA	250.00
		38.52	30.05	20.65	19.87	20.36	NA	
		5	6	7	8			
		18.84	37.15	18.76				
	-0.47	1	2	3	4	1011106-BLK1	NA	250.00
		38.52	30.05	20.65	19.87	6.29	NA	
		5	6	7	8			
		18.84	37.15	18.76				

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec Metals-2010

Instrument: ICPOE - PE Optima Work Order: Nu C101104

Analytical Sequence: 1011119 Total Recoverable Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Potassium	15.80	1	2	3	4	1011106-BLK1	NA	1,000.00
		12.62	25.16	19.74	21.68	13.16	NA	
		5	6	7	8			
		30.86	30.60	41.58				
	15.80	1	2	3	4	1011105-BLK1	NA	1,000.00
		12.62	25.16	19.74	21.68	29.76	NA	
		5	6	7	8			
		30.86	30.60	41.58				
Magnesium	0.32	1	2	3	4	1011106-BLK1	NA	250.00
		2.49	1.96	1.92	3.03	0.57	NA	
		5	6	7	8			
		2.16	2.85	3.13				
	0.32	1	2	3	4	1011105-BLK1	NA	250.00
		2.49	1.96	1.92	3.03	0.28	NA	
		5	6	7	8			
		2.16	2.85	3.13				
Sodium	0.49	1	2	3	4	1011105-BLK1	NA	500.00
		1.24	3.49	8.96	4.48	9.68	NA	
		5	6	7	8			
		3.58	2.57	5.39				
	0.49	1	2	3	4	1011106-BLK1	NA	500.00
		1.24	3.49	8.96	4.48	7.94	NA	
		5	6	7	8			
		3.58	2.57	5.39				
Zinc	1.68	1	2	3	4	1011106-BLK1	NA	20.00
		1.37	1.64	1.73	1.79	1.34	NA	
		5	6	7	8			
		1.58	1.44	1.15				
	1.68	1	2	3	4	1011105-BLK1	NA	20.00
		1.37	1.64	1.73	1.79	9.58	NA	
		5	6	7	8			
		1.58	1.44	1.15				

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICP-MS Tot. Rec. Metals-2010

Instrument: ICPMS-PE DRC-II Work Order: Nu C101104

Analytical Sequence: 1011120 Total Recoverable Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	-0.07	1	2	3	4	NA	1011106-BLK2	1.00
		-0.08	-0.04	-0.04	-0.09	NA	0.18	
		5	6	7	8			
		-0.08	-0.10	-0.10				
	-0.07	1	2	3	4	NA	1011105-BLK2	1.00
		-0.08	-0.04	-0.04	-0.09	NA	0.16	
		5	6	7	8			
		-0.08	-0.10	-0.10				
Manganese	0.04	1	2	3	4	NA	1011106-BLK2	0.50
		0.01	-0.01	0.00	0.00	NA	-0.01	
		5	6	7	8			
		0.06	0.06	0.02				
	0.04	1	2	3	4	NA	1011105-BLK2	0.50
		0.01	-0.01	0.00	0.00	NA	-0.01	
		5	6	7	8			
		0.06	0.06	0.02				
Cobalt	0.00	1	2	3	4	NA	1011106-BLK2	0.20
		0.00	0.01	0.01	0.01	NA	0.00	
		5	6	7	8			
		0.00	0.01	0.01				
	0.00	1	2	3	4	NA	1011105-BLK2	0.20
		0.00	0.01	0.01	0.01	NA	0.00	
		5	6	7	8			
		0.00	0.01	0.01				
Nickel	0.01	1	2	3	4	NA	1011105-BLK2	1.00
		0.02	0.02	0.03	0.02	NA	-0.02	
		5	6	7	8			
		0.01	0.01	0.01				
	0.01	1	2	3	4	NA	1011106-BLK2	1.00
		0.02	0.02	0.03	0.02	NA	-0.02	
		5	6	7	8			
		0.01	0.01	0.01				

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICP-MS Tot. Rec. Metals-2010

Instrument: ICPMS-PE DRC-II Work Order: Nu C101104

Analytical Sequence: 1011120 Total Recoverable Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Copper	0.34	1	2	3	4	NA	1011105-BLK2	1.00
		0.28	0.35	0.27	0.26	NA	0.00	
		5	6	7	8			
		0.26	0.25	0.26				
	0.34	1	2	3	4	NA	1011106-BLK2	1.00
		0.28	0.35	0.27	0.26	NA	-0.15	
		5	6	7	8			
		0.26	0.25	0.26				
Arsenic	0.01	1	2	3	4	NA	1011106-BLK2	2.00
		0.08	0.00	0.04	0.09	NA	-0.02	
		5	6	7	8			
		0.01	0.05	0.07				
	0.01	1	2	3	4	NA	1011105-BLK2	2.00
		0.08	0.00	0.04	0.09	NA	-0.29	
		5	6	7	8			
		0.01	0.05	0.07				
Selenium	-0.02	1	2	3	4	NA	1011105-BLK2	1.00
		-0.04	-0.03	0.05	0.01	NA	-0.05	
		5	6	7	8			
		-0.12	-0.07	-0.17				
	-0.02	1	2	3	4	NA	1011106-BLK2	1.00
		-0.04	-0.03	0.05	0.01	NA	-0.09	
		5	6	7	8			
		-0.12	-0.07	-0.17				
Silver	0.13	1	2	3	4	NA	1011106-BLK2	0.50
		0.13	0.13	0.11	0.10	NA	0.00	
		5	6	7	8			
		0.13	0.11	0.12				
	0.13	1	2	3	4	NA	1011105-BLK2	0.50
		0.13	0.13	0.11	0.10	NA	0.12	
		5	6	7	8			
		0.13	0.11	0.12				

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICP-MS Tot. Rec. Metals-2010

Instrument: ICPMS-PE DRC-II Work Order: Nu C101104

Analytical Sequence: 1011120 Total Recoverable Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.03	1	2	3	4	NA	1011105-BLK2	0.20
		-0.01	0.00	0.02	0.02	NA	0.16	
		5	6	7	8			
		0.02	0.01	0.03				
	0.03	1	2	3	4	NA	1011106-BLK2	0.20
		-0.01	0.00	0.02	0.02	NA	-0.01	
		5	6	7	8			
		0.02	0.01	0.03				
Lead	0.01	1	2	3	4	NA	1011105-BLK2	0.20
		0.01	0.04	0.02	0.01	NA	0.14	
		5	6	7	8			
		0.02	0.01	0.03				
	0.01	1	2	3	4	NA	1011106-BLK2	0.20
		0.01	0.04	0.02	0.01	NA	-0.01	
		5	6	7	8			
		0.02	0.01	0.03				

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 310.1 Analysis Name: WC - Alkalinity

Instrument: Mettler AT Work Order: Nu C101104

Analytical Sequence: Total Concentration Units: mg CaCO3 / L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
		1	2	3	4	1011115-BLK1	NA	
Total Alkalinity		0.58	0.94			0.98	NA	5.00
		5	6	7	8			
		1	2	3	4	1011116-BLK1	NA	
		0.58	0.94			0.84	NA	5.00
		5	6	7	8			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 310.1 Analysis Name: WC - Alkalinity

Instrument: Mettler AT Work Order: Nu C101104

Analytical Sequence: Total Concentration Units: mg CaCO3 / L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Total Alkalinity		1	2	3	4	1011116-BLK1	NA	5.00
		1.10	0.94			0.84	NA	
		5	6	7	8			
		1	2	3	4	1011115-BLK1	NA	5.00
		1.10	0.94			0.98	NA	
		5	6	7	8			

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Diss. Metals-2010

Sequence: 1011113 Work Order: C101104 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Aluminum					1			2			3	
	1000	1004	100.4	12500	12730	101.8	12500	12680	101.4	12500	12730	101.8
					4			5			6	
				12500	12900	103.2	12500	12970	103.8	12500	13000	104.0
					7			8			9	
Barium					1			2			3	
	1000	1005	100.5	500	501.4	100.3	500	504.0	100.8	500	508.6	101.7
					4			5			6	
				500	512.2	102.4	500	510.2	102.0	500	518.1	103.6
					7			8			9	
Calcium					1			2			3	
	1000	955.3	95.5	12500	12690	101.5	12500	12670	101.4	12500	12760	102.1
					4			5			6	
				12500	12950	103.6	12500	13040	104.3	12500	13040	104.3
					7			8			9	
Iron					1			2			3	
	1000	962.1	96.2	12500	12630	101.0	12500	12650	101.2	12500	12570	100.6
					4			5			6	
				12500	12860	102.9	12500	12970	103.8	12500	12890	103.1
					7			8			9	
Magnesium					1			2			3	
	1000	1019	101.9	12500	12810	102.5	12500	12780	102.2	12500	12810	102.5
					4			5			6	
				12500	12960	103.7	12500	13040	104.3	12500	13060	104.5
					7			8			9	
Potassium					1			2			3	
	5000	4874	97.5	25000	25270	101.1	25000	25200	100.8	25000	25240	101.0
					4			5			6	
				25000	25460	101.8	25000	25550	102.2	25000	25640	102.6
					7			8			9	

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Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Diss. Metals-2010

Sequence: 1011113 Work Order: C101104 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Sodium	1000	965.7	96.6		1			2			3	
				12500	12700	101.6	12500	12700	101.6	12500	12740	101.9
					4			5			6	
				12500	12870	103.0	12500	12990	103.9	12500	13020	104.2
					7			8			9	
Zinc	1000	986.0	98.6		1			2			3	
				2500	2561	102.4	2500	2575	103.0	2500	2562	102.5
					4			5			6	
				2500	2617	104.7	2500	2643	105.7	2500	2640	105.6
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

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Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Diss. Metals-2010

Sequence: 1011114 Work Order: C101104 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Arsenic	50.0	53.0	106.0		1			2			3	
				50.0	46.7	93.4	50.0	48.3	96.6	50.0	48.4	96.8
					4			5			6	
				50.0	49.0	98.0	50.0	48.3	96.6	50.0	48.3	96.6
					7			8			9	
Cadmium	50.0	50.1	100.2		1			2			3	
				50.0	50.2	100.4	50.0	50.8	101.6	50.0	50.2	100.4
					4			5			6	
				50.0	51.4	102.8	50.0	51.4	102.8	50.0	51.4	102.8
					7			8			9	
Chromium	50.0	48.6	97.2		1			2			3	
				50.0	49.2	98.4	50.0	49.7	99.4	50.0	47.9	95.8
					4			5			6	
				50.0	50.6	101.2	50.0	48.5	97.0	50.0	50.8	101.6
					7			8			9	
Cobalt	50.0	48.0	96.0		1			2			3	
				50.0	51.4	102.8	50.0	51.0	102.0	50.0	46.8	93.6
					4			5			6	
				50.0	48.4	96.8	50.0	47.1	94.2	50.0	47.2	94.4
					7			8			9	
Copper	50.0	50.7	101.4		1			2			3	
				50.0	50.9	101.8	50.0	51.7	103.4	50.0	46.8	93.6
					4			5			6	
				50.0	46.9	93.8	50.0	46.5	93.0	50.0	45.7	91.4
					7			8			9	
Lead	50.0	49.9	99.8		1			2			3	
				50.0	52.2	104.4	50.0	49.6	99.2	50.0	52.2	104.4
					4			5			6	
				50.0	51.9	103.8	50.0	50.3	100.6	50.0	51.3	102.6
					7			8			9	

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Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Diss. Metals-2010

Sequence: 1011114 Work Order: C101104 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Manganese	50.0	49.9	99.8		1			2			3	
				50.0	47.6	95.2	50.0	51.0	102.0	50.0	46.5	93.0
					4			5			6	
				50.0	48.7	97.4	50.0	48.9	97.8	50.0	49.9	99.8
					7			8			9	
Nickel	50.0	50.2	100.4		1			2			3	
				50.0	51.2	102.4	50.0	52.2	104.4	50.0	46.5	93.0
					4			5			6	
				50.0	47.6	95.2	50.0	47.5	95.0	50.0	46.9	93.8
					7			8			9	
Selenium	250	249	99.6		1			2			3	
				50.0	48.0	96.0	50.0	49.4	98.8	50.0	51.9	103.8
					4			5			6	
				50.0	52.0	104.0	50.0	49.3	98.6	50.0	48.0	96.0
					7			8			9	
Silver	50.0	52.0	104.0		1			2			3	
				50.0	50.6	101.2	50.0	49.6	99.2	50.0	49.5	99.0
					4			5			6	
				50.0	50.3	100.6	50.0	50.4	100.8	50.0	51.2	102.4
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Tot. Rec Metals-2010

Sequence: 1011119 Work Order: C101104 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Aluminum	1000	1006	100.6		1			2			3	
				12500	12750	102.0	12500	12760	102.1	12500	12810	102.5
					4			5			6	
				12500	12880	103.0	12500	12880	103.0	12500	12890	103.1
					7			8			9	
				12500	13020	104.2						
Barium	1000	1022	102.2		1			2			3	
				500	508.5	101.7	500	501.7	100.3	500	508.4	101.7
					4			5			6	
				500	501.6	100.3	500	505.7	101.1	500	502.0	100.4
					7			8			9	
				500	497.4	99.5						
Calcium	1000	942.9	94.3		1			2			3	
				12500	12650	101.2	12500	12610	100.9	12500	12620	101.0
					4			5			6	
				12500	12660	101.3	12500	12600	100.8	12500	12630	101.0
					7			8			9	
				12500	12710	101.7						
Iron	1000	956.2	95.6		1			2			3	
				12500	12750	102.0	12500	12730	101.8	12500	12620	101.0
					4			5			6	
				12500	12700	101.6	12500	12680	101.4	12500	12740	101.9
					7			8			9	
				12500	12830	102.6						
Magnesium	1000	1011	101.1		1			2			3	
				12500	12820	102.6	12500	12800	102.4	12500	12840	102.7
					4			5			6	
				12500	12880	103.0	12500	12910	103.3	12500	12910	103.3
					7			8			9	
				12500	13000	104.0						
Potassium	5000	4848	97.0		1			2			3	
				25000	25360	101.4	25000	25330	101.3	25000	25480	101.9
					4			5			6	
				25000	25580	102.3	25000	25690	102.8	25000	25700	102.8
					7			8			9	
				25000	25950	103.8						

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Tot. Rec Metals-2010

Sequence: 1011119 Work Order: C101104 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Sodium	1000	961.3	96.1		1			2			3	
				12500	12680	101.4	12500	12710	101.7	12500	12800	102.4
					4			5			6	
				12500	12880	103.0	12500	12950	103.6	12500	12960	103.7
					7			8			9	
				12500	13060	104.5						
Zinc	1000	990.6	99.1		1			2			3	
				2500	2545	101.8	2500	2505	100.2	2500	2549	102.0
					4			5			6	
				2500	2555	102.2	2500	2549	102.0	2500	2551	102.0
					7			8			9	
				2500	2540	101.6						

Metals - ICV & CCV %R Criteria = 90 - 110%. Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICP-MS Tot. Rec. Metals-2010

Sequence: 1011120 Work Order: C101104 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Arsenic	50.0	53.00	106.0		1			2			3	
				50.0	50.50	101.0	50.0	49.41	98.8	50.0	50.70	101.4
					4			5			6	
				50.0	49.65	99.3	50.0	51.00	102.0	50.0	50.24	100.5
					7			8			9	
				50.0	49.34	98.7						
Cadmium	50.0	50.26	100.5		1			2			3	
				50.0	50.70	101.4	50.0	49.82	99.6	50.0	51.82	103.6
					4			5			6	
				50.0	51.09	102.2	50.0	50.63	101.3	50.0	51.27	102.5
					7			8			9	
				50.0	50.50	101.0						
Chromium	50.0	50.64	101.3		1			2			3	
				50.0	49.75	99.5	50.0	48.59	97.2	50.0	50.01	100.0
					4			5			6	
				50.0	51.27	102.5	50.0	50.07	100.1	50.0	50.96	101.9
					7			8			9	
				50.0	49.70	99.4						
Cobalt	50.0	51.03	102.1		1			2			3	
				50.0	52.69	105.4	50.0	51.06	102.1	50.0	51.15	102.3
					4			5			6	
				50.0	51.84	103.7	50.0	50.92	101.8	50.0	51.46	102.9
					7			8			9	
				50.0	49.21	98.4						
Copper	50.0	53.80	107.6		1			2			3	
				50.0	54.43	108.9	50.0	52.68	105.4	50.0	52.53	105.1
					4			5			6	
				50.0	52.07	104.1	50.0	52.22	104.4	50.0	51.80	103.6
					7			8			9	
				50.0	49.72	99.4						
Lead	50.0	50.70	101.4		1			2			3	
				50.0	50.72	101.4	50.0	49.01	98.0	50.0	52.33	104.7
					4			5			6	
				50.0	52.18	104.4	50.0	53.68	107.4	50.0	55.04	110.1
					7			8			9	
				50.0	53.02	106.0						

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICP-MS Tot. Rec. Metals-2010

Sequence: 1011120 Work Order: C101104 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Manganese	50.0	51.18	102.4		1			2			3	
				50.0	51.85	103.7	50.0	50.89	101.8	50.0	50.48	101.0
					4			5			6	
				50.0	51.63	103.3	50.0	50.81	101.6	50.0	52.28	104.6
					7			8			9	
				50.0	49.97	99.9						
Nickel	50.0	50.74	101.5		1			2			3	
				50.0	53.59	107.2	50.0	50.43	100.9	50.0	50.38	100.8
					4			5			6	
				50.0	51.69	103.4	50.0	49.87	99.7	50.0	50.35	100.7
					7			8			9	
				50.0	49.30	98.6						
Selenium	250	252.5	101.0		1			2			3	
				50.0	50.12	100.2	50.0	49.97	99.9	50.0	49.90	99.8
					4			5			6	
				50.0	48.35	96.7	50.0	49.91	99.8	50.0	49.48	99.0
					7			8			9	
				50.0	48.64	97.3						
Silver	50.0	52.65	105.3		1			2			3	
				50.0	49.99	100.0	50.0	48.90	97.8	50.0	49.96	99.9
					4			5			6	
				50.0	50.29	100.6	50.0	49.73	99.5	50.0	50.97	101.9
					7			8			9	
				50.0	49.03	98.1						

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

Mettler AT Method: EPA 310.1 Analysis Name: WC - Alkalinity

Sequence: 1012001 Work Order: C101104 Units: mg CaCO3 / L

Total Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Total Alkalinity					1			2			3	
				100	102	102.0	100	99.8	99.8			
					4			5			6	
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

Mettler AT Method: EPA 310.1 Analysis Name: WC - Alkalinity

Sequence: 1012002 Work Order: C101104 Units: mg CaCO3 / L

Total Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
					1			2			3	
				100	101	101.0	100	99.8	99.8			
Total Alkalinity					4			5			6	
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1011114	Analysis: ICPMS Diss. Metals-2010					
Arsenic	IFA1	0.1	ug/L			2.00
	IFB1	19.4	ug/L	20	97	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	20.5	ug/L	20	102	0.200
Chromium	IFA1	0.1	ug/L			1.00
	IFB1	20.4	ug/L	20	102	1.00
Cobalt	IFA1	0.0	ug/L			0.200
	IFB1	19.9	ug/L	20	99	0.200
Copper	IFA1	0.5	ug/L			1.00
	IFB1	21.1	ug/L	20	105	1.00
Lead	IFA1	0.1	ug/L			0.200
	IFB1	0.1	ug/L			0.200
Manganese	IFA1	0.0	ug/L			0.500
	IFB1	20.3	ug/L	20	101	0.500
Nickel	IFA1	-0.2	ug/L			1.00
	IFB1	20.0	ug/L	20	100	1.00
Selenium	IFA1	0.2	ug/L			1.00
	IFB1	0.1	ug/L			1.00
Silver	IFA1	0.0	ug/L			0.500
	IFB1	19.4	ug/L	20	97	0.500

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1011120	Analysis: ICP-MS Tot. Rec. Metals-2010					
Arsenic	IFA1	0.0	ug/L			2.00
	IFB1	20.7	ug/L	20	103	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	20.5	ug/L	20	102	0.200
Chromium	IFA1	0.1	ug/L			1.00
	IFB1	19.8	ug/L	20	99	1.00
Cobalt	IFA1	0.0	ug/L			0.200
	IFB1	20.8	ug/L	20	104	0.200
Copper	IFA1	0.4	ug/L			1.00
	IFB1	23.4	ug/L	20	117	1.00
Lead	IFA1	0.1	ug/L			0.200
	IFB1	0.1	ug/L			0.200
Manganese	IFA1	0.0	ug/L			0.500
	IFB1	19.9	ug/L	20	100	0.500
Nickel	IFA1	-0.3	ug/L			1.00
	IFB1	20.3	ug/L	20	102	1.00
Selenium	IFA1	0.0	ug/L			1.00
	IFB1	0.0	ug/L			1.00
Silver	IFA1	0.0	ug/L			0.500
	IFB1	19.7	ug/L	20	98	0.500

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Rico-Argentine - Surface Waters - Nov 2010** **Certificate of Analysis**

TDF #: **DG-220**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPOE - PE Optima

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1011113	Analysis: ICPOE Diss. Metals-2010					
Aluminum	IFA1	61,255.2	ug/L	60,000	102	50.0
	IFB1	60,497.3	ug/L	60,000	101	50.0
Barium	IFA1	-2.8	ug/L			5.00
	IFB1	289.4	ug/L	300	96	5.00
Calcium	IFA1	292,081.3	ug/L	300,000	97	250
	IFB1	288,007.0	ug/L	300,000	96	250
Iron	IFA1	235,083.0	ug/L	250,000	94	250
	IFB1	231,985.3	ug/L	250,000	93	250
Magnesium	IFA1	143,748.9	ug/L	150,000	96	250
	IFB1	142,358.5	ug/L	150,000	95	250
Potassium	IFA1	-50.8	ug/L			1000
	IFB1	19,980.1	ug/L	20,000	100	1000
Sodium	IFA1	51,070.0	ug/L	50,000	102	500
	IFB1	50,361.3	ug/L	50,000	101	500
Zinc	IFA1	2.8	ug/L			20.0
	IFB1	275.4	ug/L	300	92	20.0

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPOE - PE Optima

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1011119 Analysis: ICPOE Tot. Rec Metals-2010						
Aluminum	IFA1	62,179.6	ug/L	60,000	104	50.0
	IFB1	62,666.8	ug/L	60,000	104	50.0
Barium	IFA1	-3.0	ug/L			5.00
	IFB1	296.2	ug/L	300	99	5.00
Calcium	IFA1	296,268.1	ug/L	300,000	99	250
	IFB1	296,924.9	ug/L	300,000	99	250
Iron	IFA1	239,718.6	ug/L	250,000	96	250
	IFB1	242,036.9	ug/L	250,000	97	250
Magnesium	IFA1	145,773.6	ug/L	150,000	97	250
	IFB1	147,136.7	ug/L	150,000	98	250
Potassium	IFA1	-83.7	ug/L			1000
	IFB1	20,771.5	ug/L	20,000	104	1000
Sodium	IFA1	51,619.1	ug/L	50,000	103	500
	IFB1	51,840.0	ug/L	50,000	104	500
Zinc	IFA1	3.5	ug/L			20.0
	IFB1	284.3	ug/L	300	95	20.0

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Detection Limit (PQL) Standard

ICPMS-PE DRC-II

Metals (Dissolved) by EPA 200/7000 Series Methods

Sequence: 1011114

Analyte	True	Found	%R	Units
Arsenic	2.00	1.94	97	ug/L
Cadmium	0.200	0.195	97	ug/L
Chromium	1.00	0.929	93	ug/L
Cobalt	0.200	0.190	95	ug/L
Copper	1.00	0.917	92	ug/L
Lead	0.200	0.171	86	ug/L
Manganese	0.200	0.173	86	ug/L
Nickel	1.00	0.928	93	ug/L
Selenium	1.00	0.962	96	ug/L
Silver	0.500	0.509	102	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8

Detection Limit (PQL) Standard

ICPOE - PE Optima

Metals (Dissolved) by EPA 200/7000 Series Methods

Sequence: 1011113

Analyte	True	Found	%R	Units
Aluminum	100	101.2	101	ug/L
Barium	10.0	10.43	104	ug/L
Calcium	250	254.2	102	ug/L
Iron	100	99.55	100	ug/L
Magnesium	1000	1041	104	ug/L
Potassium	1000	1049	105	ug/L
Sodium	1000	1041	104	ug/L
Zinc	50.0	53.21	106	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPMS-PE DRC-II

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1011120

Analyte	True	Found	%R	Units
Arsenic	2.00	1.998	100	ug/L
Cadmium	0.200	0.1907	95	ug/L
Chromium	1.00	0.8933	89	ug/L
Cobalt	0.200	0.1995	100	ug/L
Copper	1.00	1.021	102	ug/L
Lead	0.200	0.1702	85	ug/L
Manganese	0.200	0.1884	94	ug/L
Nickel	1.00	0.9893	99	ug/L
Selenium	1.00	0.9530	95	ug/L
Silver	0.500	0.5200	104	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPOE - PE Optima

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1011119

Analyte	True	Found	%R	Units
Aluminum	100	101.0	101	ug/L
Barium	10.0	10.29	103	ug/L
Calcium	250	249.4	100	ug/L
Iron	100	112.3	112	ug/L
Magnesium	1000	1039	104	ug/L
Potassium	1000	1053	105	ug/L
Sodium	1000	1043	104	ug/L
Zinc	50.0	53.47	107	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: Rico-Argentine - Surface Waters - Nov 2010 Certificate of Analysis

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 Dissolved Sequence ID#: 1011113

Instrument ID #: ICPOE - PE Optima Water LSR #: DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011113-ICV1	Initial Cal Check	11/29/10	07:46
1011113-ICB1	Initial Cal Blank	11/29/10	07:49
1011113-CRL1	Instrument RL Check	11/29/10	07:52
1011113-IFA1	Interference Check A	11/29/10	07:55
1011113-IFB1	Interference Check B	11/29/10	07:59
1011113-CCV1	Calibration Check	11/29/10	08:03
1011113-CCB1	Calibration Blank	11/29/10	08:06
1011109-BLK1	Blank	11/29/10	08:09
1011109-BS1		11/29/10	08:12
C101104-03	SLDRBG	11/29/10	08:15
1011109-DUP1	Duplicate	11/29/10	08:18
1011113-SRD1	Serial Dilution	11/29/10	08:21
1011109-MS1	Matrix Spike	11/29/10	08:24
1011109-MSD1	Matrix Spike Dup	11/29/10	08:27
C101104-06	SLDRBG DUP	11/29/10	08:30
C101104-09	SLDRMZ1a	11/29/10	08:34
1011113-CCV2	Calibration Check	11/29/10	08:40
1011113-CCB2	Calibration Blank	11/29/10	08:43
C101104-12	SLDRMZ1b	11/29/10	08:46
C101104-15	SLDRMZ1c	11/29/10	08:49
C101104-18	SLDRMZ2	11/29/10	08:52
C101104-21	SLPO01	11/29/10	08:55
C101104-24	SLPO02	11/29/10	08:58
C101104-27	SLPO03	11/29/10	09:01
C101104-30	SLPO04	11/29/10	09:04
C101104-33	SLPO05	11/29/10	09:09
C101104-36	SLSW01	11/29/10	09:13
1011113-CCV3	Calibration Check	11/29/10	09:19
1011113-CCB3	Calibration Blank	11/29/10	09:22
C101104-39	SLSW02	11/29/10	09:25
C101104-42	SLSW03	11/29/10	09:28
C101104-45	SLSW04	11/29/10	09:31
C101104-48	SLSW05	11/29/10	09:34
C101104-51	SLSWDR3	11/29/10	09:38
1011110-BLK1	Blank	11/29/10	09:42
1011110-BS1		11/29/10	09:46
C101104-54	SLSWDR4	11/29/10	09:49
1011110-DUP1	Duplicate	11/29/10	09:53
1011113-CCV4	Calibration Check	11/29/10	10:00
1011113-CCB4	Calibration Blank	11/29/10	10:03
1011113-SRD2	Serial Dilution	11/29/10	10:06
1011110-MS1	Matrix Spike	11/29/10	10:09

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Dissolved** **Sequence ID#:** 1011113

Instrument ID #: ICPOE - PE Optima Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011110-MSD1	Matrix Spike Dup	11/29/10	10:13
C101104-57	SLSWDR6	11/29/10	10:18
C101104-60	SLSWDR7b	11/29/10	10:22
C101104-63	SLSWDR7c	11/29/10	10:25
C101104-66	SLSWFB	11/29/10	10:28
C101104-69	SLSWP06	11/29/10	10:31
C101104-72	SLSWP07a	11/29/10	10:35
1011113-CCV5	Calibration Check	11/29/10	10:42
1011113-CCB5	Calibration Blank	11/29/10	10:45
C101104-75	SLSWP07b	11/29/10	10:49
C101104-78	SLSWP08	11/29/10	10:53
C101104-81	SLSWP09	11/29/10	10:57
C101104-84	SLSWP10	11/29/10	11:01
C101104-87	SLSWP11	11/29/10	11:05
C101104-90	SLSWP12	11/29/10	11:09
C101104-93	SLSWP14	11/29/10	11:14
C101104-96	SLSWP15	11/29/10	11:18
C101104-99	SLSWPP	11/29/10	11:22
1011113-CCV6	Calibration Check	11/29/10	11:29
1011113-CCB6	Calibration Blank	11/29/10	11:32

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1011114

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011114-ICV1	Initial Cal Check	11/29/10	09:41
1011114-ICB1	Initial Cal Blank	11/29/10	09:44
1011114-CRL1	Instrument RL Check	11/29/10	09:47
1011114-IFA1	Interference Check A	11/29/10	09:50
1011114-IFB1	Interference Check B	11/29/10	09:53
1011114-CCV1	Calibration Check	11/29/10	09:56
1011114-CCB1	Calibration Blank	11/29/10	09:59
1011111-BLK1	Blank	11/29/10	10:02
1011111-BS1		11/29/10	10:05
C101104-03	SLDRBG	11/29/10	10:07
1011111-DUP1	Duplicate	11/29/10	10:10
1011114-SRD1	Serial Dilution	11/29/10	10:13
1011111-MS1	Matrix Spike	11/29/10	10:16
1011111-MSD1	Matrix Spike Dup	11/29/10	10:18
C101104-06	SLDRBG DUP	11/29/10	10:21
C101104-09	SLDRMZ1a	11/29/10	10:24
1011114-CCV2	Calibration Check	11/29/10	10:30
1011114-CCB2	Calibration Blank	11/29/10	10:33
C101104-12	SLDRMZ1b	11/29/10	10:36
C101104-15	SLDRMZ1c	11/29/10	10:39
C101104-18	SLDRMZ2	11/29/10	10:41
C101104-21	SLPO01	11/29/10	10:44
C101104-24	SLPO02	11/29/10	10:47
C101104-27	SLPO03	11/29/10	10:50
C101104-30	SLPO04	11/29/10	10:53
C101104-33	SLPO05	11/29/10	10:55
C101104-36	SLSW01	11/29/10	10:58
1011114-CCV3	Calibration Check	11/29/10	11:04
1011114-CCB3	Calibration Blank	11/29/10	11:07
C101104-39	SLSW02	11/29/10	11:10
C101104-42	SLSW03	11/29/10	11:13
C101104-45	SLSW04	11/29/10	11:15
C101104-48	SLSW05	11/29/10	11:18
C101104-51	SLSWDR3	11/29/10	11:21
1011112-BLK1	Blank	11/29/10	11:24
1011112-BS1		11/29/10	11:27
C101104-54	SLSWDR4	11/29/10	11:29
1011112-DUP1	Duplicate	11/29/10	11:32
1011114-CCV4	Calibration Check	11/29/10	11:38
1011114-CCB4	Calibration Blank	11/29/10	11:41
1011114-SRD2	Serial Dilution	11/29/10	11:44
1011112-MS1	Matrix Spike	11/29/10	11:47

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1011114

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011112-MSD1	Matrix Spike Dup	11/29/10	11:49
C101104-57	SLSWDR6	11/29/10	11:52
C101104-60	SLSWDR7b	11/29/10	11:55
C101104-63	SLSWDR7c	11/29/10	11:58
C101104-66	SLSWFB	11/29/10	12:01
C101104-69	SLSWP06	11/29/10	12:04
C101104-72	SLSWP07a	11/29/10	12:06
1011114-CCV5	Calibration Check	11/29/10	12:12
1011114-CCB5	Calibration Blank	11/29/10	12:15
C101104-75	SLSWP07b	11/29/10	12:18
C101104-78	SLSWP08	11/29/10	12:21
C101104-81	SLSWP09	11/29/10	12:24
C101104-84	SLSWP10	11/29/10	12:26
C101104-87	SLSWP11	11/29/10	12:29
C101104-90	SLSWP12	11/29/10	12:32
C101104-93	SLSWP14	11/29/10	12:35
C101104-96	SLSWP15	11/29/10	12:38
C101104-99	SLSWPP	11/29/10	12:40
1011114-CCV6	Calibration Check	11/29/10	12:46
1011114-CCB6	Calibration Blank	11/29/10	12:49

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1011119

Instrument ID #: ICPOE - PE Optima Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011119-ICV1	Initial Cal Check	11/30/10	07:24
1011119-ICB1	Initial Cal Blank	11/30/10	07:27
1011119-CRL1	Instrument RL Check	11/30/10	07:30
1011119-IFA1	Interference Check A	11/30/10	07:33
1011119-IFB1	Interference Check B	11/30/10	07:37
1011119-CCV1	Calibration Check	11/30/10	07:41
1011119-CCB1	Calibration Blank	11/30/10	07:44
1011105-BLK1	Blank	11/30/10	07:47
1011105-SRM1	Reference	11/30/10	07:50
C101104-02	SLDRBG	11/30/10	07:53
1011105-DUP1	Duplicate	11/30/10	07:56
1011119-SRD1	Serial Dilution	11/30/10	07:59
1011105-MS1	Matrix Spike	11/30/10	08:02
1011105-MSD1	Matrix Spike Dup	11/30/10	08:05
1011105-PS1	Post Spike	11/30/10	08:09
C101104-05	SLDRBG DUP	11/30/10	08:12
1011119-CCV2	Calibration Check	11/30/10	08:18
1011119-CCB2	Calibration Blank	11/30/10	08:21
C101104-08	SLDRMZ1a	11/30/10	08:24
C101104-11	SLDRMZ1b	11/30/10	08:27
C101104-14	SLDRMZ1c	11/30/10	08:30
C101104-17	SLDRMZ2	11/30/10	08:33
C101104-20	SLPO01	11/30/10	08:36
C101104-23	SLPO02	11/30/10	08:40
C101104-26	SLPO03	11/30/10	08:43
C101104-29	SLPO04	11/30/10	08:46
C101104-32	SLPO05	11/30/10	08:49
1011119-CCV3	Calibration Check	11/30/10	08:56
1011119-CCB3	Calibration Blank	11/30/10	08:59
C101104-35	SLSW01	11/30/10	09:02
C101104-38	SLSW02	11/30/10	09:05
C101104-41	SLSW03	11/30/10	09:08
C101104-44	SLSW04	11/30/10	09:12
C101104-47	SLSW05	11/30/10	09:15
1011106-BLK1	Blank	11/30/10	09:19
1011106-SRM1	Reference	11/30/10	09:22
C101104-50	SLSWDR3	11/30/10	09:25
1011106-DUP1	Duplicate	11/30/10	09:30
1011119-CCV4	Calibration Check	11/30/10	09:37
1011119-CCB4	Calibration Blank	11/30/10	09:40
1011119-SRD2	Serial Dilution	11/30/10	09:43
1011106-MS1	Matrix Spike	11/30/10	09:46

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1011119

Instrument ID #: ICPOE - PE Optima Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011106-MSD1	Matrix Spike Dup	11/30/10	09:50
1011106-PS1	Post Spike	11/30/10	09:54
C101104-53	SLSWDR4	11/30/10	09:59
C101104-56	SLSWDR6	11/30/10	10:03
C101104-59	SLSWDR7b	11/30/10	10:07
C101104-62	SLSWDR7c	11/30/10	10:10
C101104-65	SLSWFB	11/30/10	10:13
1011119-CCV5	Calibration Check	11/30/10	10:19
1011119-CCB5	Calibration Blank	11/30/10	10:22
C101104-68	SLSWP06	11/30/10	10:25
C101104-71	SLSWP07a	11/30/10	10:30
C101104-74	SLSWP07b	11/30/10	10:34
C101104-77	SLSWP08	11/30/10	10:38
C101104-80	SLSWP09	11/30/10	10:42
C101104-83	SLSWP10	11/30/10	10:47
C101104-86	SLSWP11	11/30/10	10:51
C101104-89	SLSWP12	11/30/10	10:55
C101104-92	SLSWP14	11/30/10	11:00
1011119-CCV6	Calibration Check	11/30/10	11:07
1011119-CCB6	Calibration Blank	11/30/10	11:10
C101104-95	SLSWP15	11/30/10	11:13
C101104-98	SLSWPP	11/30/10	11:17
1011119-CCV7	Calibration Check	11/30/10	11:27
1011119-CCB7	Calibration Blank	11/30/10	11:30

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1011120

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011120-ICV1	Initial Cal Check	11/30/10	08:00
1011120-ICB1	Initial Cal Blank	11/30/10	08:03
1011120-CRL1	Instrument RL Check	11/30/10	08:06
1011120-IFA1	Interference Check A	11/30/10	08:09
1011120-IFB1	Interference Check B	11/30/10	08:12
1011120-CCV1	Calibration Check	11/30/10	08:15
1011120-CCB1	Calibration Blank	11/30/10	08:18
1011105-BLK2	Blank	11/30/10	08:21
C101104-02	SLDRBG	11/30/10	08:24
1011105-DUP2	Duplicate	11/30/10	08:27
1011120-SRD1	Serial Dilution	11/30/10	08:30
1011105-SRM2	Reference	11/30/10	08:32
1011105-MS2	Matrix Spike	11/30/10	08:35
1011105-MSD2	Matrix Spike Dup	11/30/10	08:38
1011105-PS2	Post Spike	11/30/10	08:41
C101104-05	SLDRBG DUP	11/30/10	08:44
1011120-CCV2	Calibration Check	11/30/10	08:49
1011120-CCB2	Calibration Blank	11/30/10	08:52
C101104-08	SLDRMZ1a	11/30/10	08:55
C101104-11	SLDRMZ1b	11/30/10	08:58
C101104-14	SLDRMZ1c	11/30/10	09:01
C101104-17	SLDRMZ2	11/30/10	09:04
C101104-20	SLPO01	11/30/10	09:06
C101104-23	SLPO02	11/30/10	09:09
C101104-26	SLPO03	11/30/10	09:12
C101104-29	SLPO04	11/30/10	09:15
C101104-32	SLPO05	11/30/10	09:18
1011120-CCV3	Calibration Check	11/30/10	09:23
1011120-CCB3	Calibration Blank	11/30/10	09:26
C101104-35	SLSW01	11/30/10	09:29
C101104-38	SLSW02	11/30/10	09:32
C101104-41	SLSW03	11/30/10	09:35
C101104-44	SLSW04	11/30/10	09:38
C101104-47	SLSW05	11/30/10	09:41
1011106-BLK2	Blank	11/30/10	09:43
C101104-50	SLSWDR3	11/30/10	09:46
1011106-DUP2	Duplicate	11/30/10	09:49
1011120-SRD2	Serial Dilution	11/30/10	09:52
1011120-CCV4	Calibration Check	11/30/10	09:57
1011120-CCB4	Calibration Blank	11/30/10	10:00
1011106-SRM2	Reference	11/30/10	10:03
1011106-MS2	Matrix Spike	11/30/10	10:06

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1011120

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1011106-MSD2	Matrix Spike Dup	11/30/10	10:09
1011106-PS2	Post Spike	11/30/10	10:12
C101104-53	SLSWDR4	11/30/10	10:15
C101104-56	SLSWDR6	11/30/10	10:17
C101104-59	SLSWDR7b	11/30/10	10:20
C101104-62	SLSWDR7c	11/30/10	10:23
C101104-65	SLSWFB	11/30/10	10:26
1011120-CCV5	Calibration Check	11/30/10	10:31
1011120-CCB5	Calibration Blank	11/30/10	10:35
C101104-68	SLSWP06	11/30/10	10:38
C101104-71	SLSWP07a	11/30/10	10:40
C101104-74	SLSWP07b	11/30/10	10:43
C101104-77	SLSWP08	11/30/10	10:46
C101104-80	SLSWP09	11/30/10	10:49
C101104-83	SLSWP10	11/30/10	10:52
C101104-86	SLSWP11	11/30/10	10:54
C101104-89	SLSWP12	11/30/10	10:57
C101104-92	SLSWP14	11/30/10	11:00
1011120-CCV6	Calibration Check	11/30/10	11:06
1011120-CCB6	Calibration Blank	11/30/10	11:09
C101104-95	SLSWP15	11/30/10	11:12
C101104-98	SLSWPP	11/30/10	11:15
1011120-CCV7	Calibration Check	11/30/10	11:20
1011120-CCB7	Calibration Blank	11/30/10	11:23

Project Name: Rico-Argentine - Surface Waters - Nov 2010 **Certificate of Analysis**

TDF #: DG-220

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 310.1 **Total** **Sequence ID#:** 1012001

Instrument ID #: Mettler AT Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1012001-CCV1	Calibration Check	11/30/10	00:00
1012001-CCB1	Calibration Blank	11/30/10	00:00
1012001-CCV2	Calibration Check	11/30/10	00:00
1012001-CCB2	Calibration Blank	11/30/10	00:00
1011115-SRM1	Reference	11/30/10	08:21
1011115-BLK1	Blank	11/30/10	08:21
C101104-01	SLDRBG	11/30/10	08:21
1011115-DUP1	Duplicate	11/30/10	08:21
C101104-04	SLDRBG DUP	11/30/10	08:21
C101104-07	SLDRMZ1a	11/30/10	08:21
C101104-10	SLDRMZ1b	11/30/10	08:21
C101104-13	SLDRMZ1c	11/30/10	08:21
C101104-16	SLDRMZ2	11/30/10	08:21
C101104-19	SLPO01	11/30/10	08:21
C101104-22	SLPO02	11/30/10	08:21
C101104-25	SLPO03	11/30/10	08:21
C101104-28	SLPO04	11/30/10	08:21
C101104-31	SLPO05	11/30/10	08:21
C101104-34	SLSW01	11/30/10	08:21
C101104-37	SLSW02	11/30/10	08:21
C101104-40	SLSW03	11/30/10	08:21
C101104-43	SLSW04	11/30/10	08:21
C101104-46	SLSW05	11/30/10	08:21
C101104-49	SLSWDR3	11/30/10	08:21

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 310.1 **Total** **Sequence ID#:** 1012002

Instrument ID #: Mettler AT Water **LSR #:** DG-220

Analysis ID	Sample Name	Analysis Date	Analysis Time
1012002-CCV1	Calibration Check	11/30/10	00:00
1012002-CCB1	Calibration Blank	11/30/10	00:00
1012002-CCV2	Calibration Check	11/30/10	00:00
1012002-CCB2	Calibration Blank	11/30/10	00:00
1011116-SRM1	Reference	11/30/10	08:23
1011116-BLK1	Blank	11/30/10	08:23
C101104-52	SLSWDR4	11/30/10	08:23
1011116-DUP1	Duplicate	11/30/10	08:23
C101104-55	SLSWDR6	11/30/10	08:23
C101104-58	SLSWDR7b	11/30/10	08:23
C101104-61	SLSWDR7c	11/30/10	08:23
C101104-64	SLSWFB	11/30/10	08:23
C101104-67	SLSWP06	11/30/10	08:23
C101104-70	SLSWP07a	11/30/10	08:23
C101104-73	SLSWP07b	11/30/10	08:23
C101104-76	SLSWP08	11/30/10	08:23
C101104-79	SLSWP09	11/30/10	08:23
C101104-82	SLSWP10	11/30/10	08:23
C101104-85	SLSWP11	11/30/10	08:23
C101104-88	SLSWP12	11/30/10	08:23
C101104-91	SLSWP14	11/30/10	08:23
C101104-94	SLSWP15	11/30/10	08:23
C101104-97	SLSWPP	11/30/10	08:23

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ESAT Region 8

Perkin Elmer Optima 4300 ICP-OE

2010 MDLs and PQLs
Contract: EP-W-06-33

2010		Dissolved MDL u g/L	Tot Rec. MDL u g/L	Practical MDL u g/L	PQL H20 u g/L	PQL Soil mg/Kg	Linear Range mg/L
Ag	Silver	0.319	0.129	2	10.0	1.0	5
Al	Aluminum	2.86	3.34	20	50.0	5.0	100
As	Arsenic	12.8	18.3	20	50.0	5.0	20
B	Boron	8.68	9.69	50	250.0	25.0	100
Ba	Barium	0.223	0.139	2	5.0	0.5	20
Be	Beryllium	0.068	0.061	2	5.0	0.5	10
Ca	Calcium	6.16	5.08	100	250.0	25.0	1000
Cd	Cadmium	0.356	0.34	2	5.0	0.5	20
Co	Cobalt	0.923	0.803	2	5.0	0.5	20
Cr	Chromium	0.262	0.491	2	5.0	0.5	20
Cu	Copper	0.398	0.263	2	2.0	1.0	100
Fe	Iron	17.5	11.4	100	250.0	25.0	500
K	Potassium	36.6	42.9	250	1000.0	100.0	500
Mg	Magnesium	9.2	9.68	100	250.0	25.0	500
Mn	Manganese	0.158	0.081	2	5.0	0.5	40
Mo	Molybdenum	1.4	1.83	2	10.0	1.0	50
Na	Sodium	17.5	18	250	1000.0	100.0	500
Ni	Nickel	0.932	1.57	2	10.0	1.0	100
Pb	Lead	4.1	3.95	5	25.0	2.5	100
Sb	Antimony	6.9	6.71	20	100.0	10.0	20
Se	Selenium	19.1	13.5	20	100.0	10.0	20
SiO2	Silica	64	4.77	250	1000.0	100.0	100
Sr	Strontium	0.243	0.28	2	10.0	1.0	1
Ti	Titanium	0.708	1.19	5	10.0	1.0	10
Tl	Thallium	5.73	5.7	20	50.0	5.0	20
V	Vanadium	3.26	3.01	10	50.0	5.0	25
Zn	Zinc	1.14	1.71	10	20.0	2.0	100

ICP-OE * MDL determined: February 2010
Last Updated: February 2010

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ESAT Region 8

Perkin Elmer ELAN DRC-II ICP-MS

2010 MDLs and PQLs
Contract: EP-W-06-33

2010	Dissolved MDL u g/L	Tot Rec. MDL u g/L	Practical MDL u g/L	PQL H20 ug/L	PQL Soil ug/Kg
Ag 107	0.01	0.01	0.10	0.5	50.0
Al 27	1.18	0.53	5.00	20.0	2000.0
As 75	0.05	0.17	0.50	2.0	200.0
Ba 135	0.06	0.06	5.00	10.0	1000.0
Be 9	0.03	0.07	0.10	0.2	20.0
Cd 111	0.03	0.01	0.10	0.2	20.0
Co 59	0.01	0.01	0.10	0.2	20.0
Cr 52	0.10	0.50	0.50	1.0	100.0
Cu 65	0.26	0.03	0.50	1.0	100.0
Mn 55	0.05	0.19	0.20	0.5	50.0
Mo 98	0.01	0.01	0.10	0.2	20.0
Ni 60	0.09	0.04	0.50	1.0	100.0
Pb 208	0.01	0.01	0.10	0.2	20.0
Sb 121	0.02	0.02	0.50	1.0	100.0
Se 82	0.38	0.50	0.50	1.0	100.0
Tl 205	0.01	0.01	0.50	1.0	100.0
Th 232	0.06	0.03	0.50	1.0	100.0
U 238	0.01	0.01	0.10	0.2	20.0
V 51	0.07	1.00	1.00	2.0	200.0
Zn 66	0.25	0.13	2.00	5.0	500.0

ICP-MS * MDL determined: February 2010

Last Updated: February 2010

TechLaw, Inc.
Environmental Services Assistance Team
16194 W. 45th Drive, Golden, CO 80403
303-312-7720

Task Order: 32
TDF: DG-220
LIMS: C101104
DCN #: EP8-5-5600
Contract: EP-W-06-33

Rico-Argentine - Surface Water - Nov 2010

Sample Calculation for Hardness

Sample ID: C101104-48

Calcium (µg/L)			Ca Hardness, mg/L
231000	divide by 1000, then x 2.497	=	576.81

Magnesium (µg/L)			Mg Hardness, mg/L
21500	divide by 1000, then x 4.118	=	88.54

Calculated Hardness, mg/L 665.34