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April 3, 2009

Mr. Bill Renfro
Railroad Commission of Texas
Oil and Gas Division
Site Remediation Section
P.O. Box 12967
Austin, TX 78711-2967

**Subject: Final Letter Report – Summary of the January 2009 Site-wide Groundwater and Surface Water Monitoring Event
Dugout Creek Area, Howard and Mitchell Counties
Cleanup Code #CU-04-54102, Requisition No. 455-4-0284**

Dear Mr. Renfro:

INTERA personnel mobilized to the Dugout Creek area including the O’Ryan and Pharaoh Seeps on January 26, 2009, to conduct a site-wide groundwater and surface water monitoring event as described in the Work Plan developed for these field activities by INTERA in November 2008.

Water levels in monitor wells along Dugout Creek and in monitor wells around Pharaoh Seep were measured on January 26, 2009, and water levels in monitor wells around O’Ryan Seep were measured on January 27, 2009. Groundwater elevations were lower in the wells by one to four feet as compared to those measured during the previous site-wide monitoring event in January 2008 with the exception of MW-O-15 where a drop of 10 feet was noted. Flow directions based on data measured in January 2009 are similar to those in January 2008. Potentiometric surface maps for the O’Ryan Seep area and the Pharaoh Seep area have been updated with January 2009 data and are provided as Figure 1 and Figure 2. Groundwater elevation data are summarized in Table 1.

A total of 37 groundwater monitor wells are present in the Dugout Creek, O’Ryan Seep and Pharaoh Seep study area. At the time of the site-wide monitoring event, MW-D-09, MW-O-02, MW-O-04 and MW-P-07 were dry and were not sampled. As noted in previous reports, MW-O-7 has been washed out and a hand auger was used to dig a hole adjacent to the former well from which a groundwater sample was collected. A surface water sample was not collected from Dugout Creek as it was dry. O’Ryan Seep was flowing; but a pool of surface water suitable for sampling was not present; therefore, a water sample was collected from a shallow hole excavated near the base of the seep. Pharaoh Seep was not flowing; but, at the recommendation of Tim Prude, RRC Midland District office site remediation coordinator, a shallow hole was also excavated at this seep location and a water sample was collected from the excavation.

Six wells in the seep areas were sampled using a bladder pump and analyzed for BTEX constituents (MW-07-1, MW-O-21, the shallow boring adjacent to MW-O-7, MW-P-1, MW-P-9, and FINA-01). Benzene was detected in two of the wells (FINA-01 and MW-P-1) at concentrations of 7.52 µg/L and 48.7 µg/L, respectively. These concentrations continue to exceed the Protective Concentration Level (PCL) of 5 µg/L and are similar to benzene levels previously measured at these locations. No other BTEX constituents were

present in these wells, and the other four wells analyzed showed no evidence of BTEX impacts (Table 2). BTEX data for the Pharaoh Seep area, which includes the wells with benzene detections, are posted on Figure 3. Analytical data packages and the associated Data Review Checklists are provided in Attachment A.

Thirty-three monitor wells were sampled using a bladder pump or a bailer and analyzed for chloride in the January 2009 site-wide groundwater monitoring event. Results show that chloride concentrations remain elevated and exceed the State of Texas secondary drinking water standard of 300 mg/L in twenty-eight wells (Table 2). In general, chloride distribution and pattern of occurrence remain essentially unchanged for data obtained in January 2009 as compared to data obtained in March 2006, August 2007 and January 2008.

In the O’Ryan Seep study area, chloride concentrations remained highest in upgradient well MW-O-21 (16,600 mg/L), which is located near inactive injection well Citation #71, and in the sample collected adjacent to downgradient well MW-O-7 (18,300 mg/L). Ten wells showed an increase; one well remained the same; and four wells showed a decrease in chloride concentrations around O’Ryan Seep between January 2008 and January 2009. The largest increase occurred in MW-O-13, which increased by a factor of about 2.6 from 245 mg/L to 635 mg/L. Increases in two wells, MW-O-12 and MW-O-13, resulted in chloride concentrations above the secondary drinking water standard where they had been below the standard in the previous sampling event. Decreases occurred in MW-O-5, MW-O-11, MW-O-21, and MW-07-1 with the largest decrease noted in MW-O-11, which decreased by a factor of about 5.5. Chloride data for the O’Ryan Seep study area are summarized in Table 2 and posted and contoured on Figure 4.

In the Pharaoh Seep study area, chloride concentrations remain highest in FINA-01 (33,900 mg/L), which is located near Saga Well #2, and in downgradient well MW-P-1 (19,600 mg/L), which is located east of Pit #1. Five wells (FINA-01, MW-P-1, MW-P-2, MW-P-3 and MW-P-8) showed an increase while two wells (MW-P-9 and MW-P-10) showed a decrease in chloride concentrations in the Pharaoh Seep study area between January 2008 and January 2009. The largest increase occurred in MW-P-8, which increased by a factor of about 1.6 from 420 mg/L to 678 mg/L. The largest decrease (by a factor of about 5.6) occurred in MW-P-10, which is located southeast of Saga #6. The chloride concentration in this well at 89.3 mg/L is now below the secondary drinking water standard of 300 mg/L. Chloride data for the Pharaoh Seep study area are summarized in Table 2 and posted and contoured on Figure 5.

Along Dugout Creek, chloride concentrations are highest at the confluence of the Pharaoh Seep drainage and Dugout Creek (36,800 mg/L in MW-07-3) and in MW-D-3, which is located between the O’Ryan Seep and Pharaoh Seep confluences with Dugout Creek and has a chloride concentration of 10,600 mg/L. Five wells (MW-D-3, MW-D-4, MW-D-6, MW-D-10 and MW-07-3) showed an increase while six wells (MW-D-1, MW-D-2, MW-D-5, MW-D-7, MW-D-8 and MW-07-2) showed a decrease in chloride concentrations along Dugout Creek between January 2008 and January 2009. The largest increase occurred in MW-D-6, which increased by a factor of about 1.9 from 1,550 mg/L to 2,980 mg/L. The largest decrease by a factor of about 1.7 occurred in MW-07-2 from 7,480 mg/L to 4,350 mg/L. Chloride data for the Dugout Creek study area is summarized in Table 2 and posted on Figure 6.

The high chloride concentration in MW-07-3 of 36,800 mg/L, which is located in the Pharaoh Seep drainage just above the confluence with Dugout Creek, indicates that Pharaoh Seep continues to contribute chloride to Dugout Creek. The chloride concentration in MW-07-2, which is located in the O’Ryan Seep drainage just above the confluence with Dugout Creek, is not as high as that in MW-07-3 but is still elevated at 4,350 mg/L and indicates that the O’Ryan Seep is also contributing chloride to Dugout Creek.

Surface water samples collected from the seeps were also sent to the laboratory for chloride analysis. Chloride concentration in the O’Ryan Seep water sample was detected at 1,220 mg/L. Chloride

concentration in the Pharaoh Seep water sample was detected at 16,300 mg/L. These results are similar to those from January 2008 at 1,090 mg/L and 13,000 mg/L, respectively. These results are also consistent with the concentrations seen at the drainage confluences with Dugout Creek where Pharaoh Seep drainage concentrations are much higher than those in the O’Ryan Seep drainage.

The working hypothesis that has been proposed for the transport of chloride and other dissolved constituents continues to be supported by the data. Ongoing injection of produced water to facilitate oil production activities in Howard and Mitchell Counties is likely contributing to the elevated chloride concentrations in the study area. Injection into a productive reservoir can cause build-up of reservoir pressure allowing the migration of saline water into the freshwater aquifer by way of conduits like improperly plugged well bores which have been drilled from the surface into or below the productive reservoir. Alluvial deposits located along the channels in Dugout Creek and O’Ryan and Pharaoh Seeps serve to retain and concentrate chloride loads via evaporation and precipitation while subsequent dissolution during rain events facilitates continued movement downstream. Much of the seepage along the Ogallala/Dockum Contact flows through the drainage alluvium to Dugout Creek without surfacing at any point. The chloride content of the groundwater, particularly upgradient of the Pharaoh Seep, will remain elevated as it flows through the alluvium beneath the surface. This may explain the high chloride content in the alluvial water at the confluence of Dugout Creek and the Pharaoh Seep drainage.

Conclusions:

- Benzene was detected above the PCL of 5 µg/L in two wells, FINA-01 and MW-P-1. Both of these are located upgradient of the Pharaoh Seep, and the results are consistent with previous monitoring events.
- Chloride concentrations remain elevated above the secondary drinking water standard of 300 mg/L in 28 of 33 wells sampled.
- Chloride concentrations in the O’Ryan Seep study area are highest in MW-O-21, which is located near Citation #71, and in the augured hole adjacent to the downgradient well MW-O-7.
- Chloride concentrations in the Pharaoh Seep study area are highest in FINA-01, which is located near Saga Well #2, and in well MW-P-1, which is located downgradient of FINA-01 and east of Pit #1.
- Chloride concentrations in Dugout Creek are highest in MW-07-3, which is located in the Pharaoh Seep drainage just above the confluence with Dugout Creek and in MW-D-3, which is located between the O’Ryan Seep and Pharaoh Seep confluences with Dugout Creek.
- The high chloride concentration in MW-07-3 indicates that Pharaoh Seep continues to contribute chloride to Dugout Creek.
- The chloride concentration in MW-07-2, which is located in the O’Ryan Seep drainage just above the confluence with Dugout Creek, is not as high as that in MW-07-3 but is still elevated and indicates that the O’Ryan Seep is also contributing chloride to Dugout Creek.
- Chloride concentrations remain elevated in samples collected from both the Pharaoh Seep and the O’Ryan Seep.

Recommendations:

- Consider re-plugging Saga Well #2 as this well continues as the most likely source of the high chloride concentration in FINA-01 as well as the most likely source for the benzene detected in FINA-01.
- Consider excavation of soil in Pit #1, which has been identified as a possible source for the benzene detected in MW-P-1. Benzene concentration in this well continues to increase. Gathering lines in the vicinity of this well should also be investigated to determine if a leak in gathering lines may be a source for the continued presence of benzene in MW-P-1.

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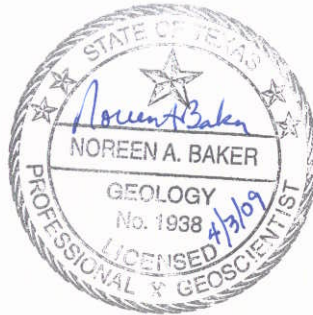
- Consider integrity testing and plugging, if warranted, of injection well Citation #71, as this well appears to be the most likely source of the high chloride concentration in MW-O-21.
- Continue semi-annual site-wide groundwater and surface water sampling to monitor chloride and benzene concentrations (where applicable).

Please email me at nabaker@intera.com or call me at 425-2023 if you have any questions about this information.

Sincerely,



Noreen A. Baker, P.G.
Project Manager



TABLES

Table 1. Monitor Well Summary and Groundwater Elevations

Locus	Monitor Well	Date Installed	UTM Northing (NAD83 meters)	UTM Easting (NAD83 meters)	Total Depth (ft below TOC)	TOC Elevations (ft msl)	Depth to Water* (ft below TOC) 1/8/2008	Depth to Water (ft below TOC) 1/26&27/2009	Water Level Elevation (ft msl) 1/8/2008	Water Level Elevation (ft msl) 1/26&27/2009
Dugout	MW-D-01	10-Mar-06	3575371	290077	19.7	NS	11.19	13.64	NA	NA
Creek**	MW-D-02	10-Mar-06	3574157	291164	22.7	NS	9.97	10.76	NA	NA
	MW-D-03	9-Mar-06	3574791	290802	18.9	NS	9.98	11.88	NA	NA
	MW-D-04	10-Mar-06	3573143	292323	17.7	NS	11.72	13.33	NA	NA
	MW-D-05	13-Mar-06	3572265	292857	24.8	NS	20.65	21.76	NA	NA
	MW-D-06	11-Mar-06	3570065	294106	17.6	NS	9.93	9.82	NA	NA
	MW-D-07	12-Mar-06	3567828	295057	27.7	NS	24.46	26.44	NA	NA
	MW-D-08	12-Mar-06	3567819	296071	37.5	NS	29.1	30.87	NA	NA
	MW-D-09	12-Mar-06	3567339	296796	19.9	NS	DRY	DRY	NA	NA
	MW-D-10	9-Mar-06	3575642	289778	19.6	NS	9.46	12.12	NA	NA
	MW-07-02	16-Aug-07	3575230	289926	20.0	NS	9.1	9.31	NA	NA
	MW-07-03	15-Aug-07	3574102	291181	20.0	NS	10.4	11.63	NA	NA
O'Ryan	MW-O-01	9-Feb-01	3573901	287806	29.7	2422.98	19.64	20.83	2403	2402
	MW-O-02	10-Feb-01	3574158	287981	17.7	2412.50	DRY	DRY	NA	NA
	MW-O-03	11-Feb-01	3573734	287420	55.7	2449.26	43.42	44.51	2406	2405
	MW-O-04	9-Feb-01	3574321	287970	57.8	2391.44	DRY	DRY	NA	NA
	MW-O-05	9-Feb-01	3573624	287756	61.7	2448.14	40.25	42.52	2408	2406
	MW-O-06	10-Feb-01	3573976	288039	23.3	2415.80	14.96	15.51	2401	2400
	MW-O-07	10-Feb-01	3574269	288657	16.8	2330.18	Well destroyed	Well destroyed	NA	NA
	MW-O-08	11-Feb-01	3573950	287403	60.1	2453.59	48.91	50.4	2405	2403
	MW-O-09	11-Feb-01	3573880	287390	58.3	2455.60	50.79	52.0	2405	2404
	MW-O-11	11-Feb-01	3574253	287510	35.7	2442.99	25.98	28.51	2417	2414
	MW-O-12	13-Jun-02	3573834	288087	22.7	2418.15	15.34	16.48	2403	2402
	MW-O-13	13-Jun-02	3573760	287968	34.7	2428.42	23.98	25.93	2404	2402
	MW-O-15	8-Jul-03	3574143	288403	17.0	2346.90	4.41	15.08	2342	2332
	MW-O-21	8-Mar-06	3574436	287480	37.8	2444.06	26.93	29.17	2417	2415
	MW-O-22	8-Mar-06	3574367	287443	36.5	2443.51	26.72	28.72	2417	2415
	MW-O-23	9-Mar-06	3574227	287348	37.9	2446.66	30.26	32.36	2416	2414
	MW-07-01	17-Aug-07	3574499	287482	34.4	NS	24.55	26.91	NA	NA
Pharaoh	MW-P-01	7-Feb-01	3573048	288378	29.7	2395.10	9.78	12.67	2385	2382
	MW-P-02	8-Feb-01	3573154	288064	28.5	2418.33	14.32	17.25	2404	2401
	MW-P-03	12-Feb-01	3573260	288074	24.6	2419.30	14.55	18.25	2405	2401
	MW-P-07	8-Feb-01	3572970	288251	52.5	2402.70	DRY	DRY	NA	NA
	MW-P-08	11-Feb-01	3573325	288249	27.7	2421.41	18.33	21.76	2403	2400
	MW-P-09	10-Feb-01	3573170	288169	20.1	2413.93	10.78	13.92	2403	2400
	MW-P-10	14-Jun-02	3573226	288094	26.5	2417.52	13.29	16.73	2404	2401
	FINA-01	Unknown	3573093	288299	19.5	2402.31	7.18	9.42	2395	2393

**Elevations for Dugout Creek not surveyed, xy locations determined using handheld GPS

UTM: Universal Transverse Mercator

NAD: North American Datum

TOC: top of casing

ft msl: feet above mean sea level

NS: Not Surveyed

NA: Not Available

Table 2. Summary of Constituents of Concern in Groundwater/Surface Water

Well ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Chloride (mg/L)	Barium (mg/L)	Chromium (mg/L)
^{GW} GW _{ing} PCL		5	1000	700	10000	300	2.0	0.1
Pharaoh Seep								
FINA-01	Feb 2001	118	<0.5	0.771	<1.5	52400	0.38	<0.03
FINA-01	June 2002	51.0	<0.500	1.40	2.97	50000	0.27	<0.010
FINA-01	March 2006	39	<2U	<2U	<3U	30100	0.113	NA
FINA-01	January 2008	12.8	<4U	<4U	<4U	33300	NA	NA
FINA-01	January 2009	7.52	<2U	<2U	<3U	33900	NA	NA
MW-P-1	Feb 2001	8.30	<0.5	<0.5	<1.5	30000	0.45	0.060
MW-P-1	June 2002	8.13	<0.500	<0.500	<0.500	28000	0.19	0.018
MW-P-1	March 2006	15	<2U	7	<3U	9100	NA	NA
MW-P-1	January 2008	13.6	<4U	<4U	<4U	16900	NA	NA
MW-P-1	January 2009	48.7	<2U	<2U	<3U	19600	NA	NA
MW-P-2	Feb 2001	<0.5	<0.5	<0.5	<1.5	220	0.19	<0.03
MW-P-2	June 2002	<0.500	<0.500	<0.500	<1.50	160	0.30	0.015
MW-P-2	March 2006	dry	dry	dry	dry	dry	dry	dry
MW-P-2	January 2008	NA	NA	NA	NA	93.7	NA	NA
MW-P-2	January 2009	NA	NA	NA	NA	123	NA	NA
MW-P-3	Feb 2001	<0.5	<0.5	<0.5	<1.5	84	0.22	<0.03
MW-P-3	June 2002	1.58	<0.500	2.87	1.79	46	0.10	<0.010
MW-P-3	March 2006	<0.8U	<2U	61	<3U	147	NA	NA
MW-P-3	January 2008	NA	NA	NA	NA	142	NA	NA
MW-P-3	January 2009	NA	NA	NA	NA	217	NA	NA
MW-P-7	Feb 2001	dry	dry	dry	dry	dry	dry	dry
MW-P-7	June 2002	dry	dry	dry	dry	dry	dry	dry
MW-P-7	March 2006	dry	dry	dry	dry	dry	dry	dry
MW-P-7	January 2008	dry	dry	dry	dry	dry	dry	dry
MW-P-7	January 2009	dry	dry	dry	dry	dry	dry	dry
MW-P-8	Feb 2001	<0.5	<0.5	<0.5	<1.5	67	0.23	<0.03
MW-P-8	June 2002	<0.500	<0.500	0.980	<1.50	63	0.052	<0.010
MW-P-8	March 2006	<0.8U	<2U	57	<3U	428	NA	NA
MW-P-8	January 2008	NA	NA	NA	NA	420	NA	NA
MW-P-8	January 2009	NA	NA	NA	NA	678	NA	NA
MW-P-9	Feb 2001	207	66.4	4.04	<1.5	28000	1.0	<0.03
MW-P-9	June 2002	130	43.8	4.19	2.94	47000	0.45	<0.010
MW-P-9	March 2006	<0.8U	<2U	<2U	<3U	730	0.12	NA
MW-P-9	January 2008	<2U	<4U	<4U	<4U	542	NA	NA
MW-P-9	January 2009	<0.8U	<2U	<2U	<3U	434	NA	NA
MW-P-10	June 2002	<0.500	<0.500	<0.500	<1.50	38	0.067	<0.010
MW-P-10	March 2006	<0.8U	<2U	22	<3U	37.1	NA	NA
MW-P-10	January 2008	NA	NA	NA	NA	497	NA	NA
MW-P-10	January 2009	NA	NA	NA	NA	89.3	NA	NA
Seep	March 2006	<0.8U	<2U	<2U	<3U	13800	0.1	NA
Seep	January 2008	NA	NA	NA	NA	13000	NA	NA
Seep	January 2009	NA	NA	NA	NA	16300	NA	NA
Stream Channel	Feb 2001	NA	NA	NA	NA	13700	0.15	<0.03
O'Ryan Seep								
Sump-01	Feb 2001	<0.5	<0.5	<0.5	<0.5	20500	1.2	1.1
MW-O-1	Feb 2001	3040	1160	285	201	17500	0.59	<0.03
MW-O-1	June 2002	0.610	<0.5	<0.5	<1.5	3300	0.26	<0.010
MW-O-1	July 2003	<0.8	<2.0	<2.0	<3.0	1460	0.181	NA
MW-O-1	March 2006	<0.8U	<2U	<2U	<3U	1370	0.189	NA
MW-O-1	January 2008	NA	NA	NA	NA	1040	NA	NA
MW-O-1	January 2009	NA	NA	NA	NA	1300	NA	NA
MW-O-2	Feb 2001	dry	dry	dry	dry	dry	dry	dry
MW-O-2	June 2002	dry	dry	dry	dry	dry	dry	dry
MW-O-2	July 2003	dry	dry	dry	dry	dry	dry	dry
MW-O-2	March 2006	dry	dry	dry	dry	dry	dry	dry
MW-O-2	January 2008	dry	dry	dry	dry	dry	dry	dry
MW-O-2	January 2009	dry	dry	dry	dry	dry	dry	dry
MW-O-3	Feb 2001	<0.5	<0.5	<0.5	<0.5	810	2.3	0.16
MW-O-3	June 2002	<0.5	<0.5	<0.5	<1.5	680	0.19	0.013
MW-O-3	July 2003	<0.8	<2.0	<2.0	<3.0	361	0.0611	NA
MW-O-3	March 2006	<0.8U	<2U	<2U	<3U	770	0.154	NA
MW-O-3	January 2008	NA	NA	NA	NA	1450	NA	NA
MW-O-3	January 2009	NA	NA	NA	NA	1450	NA	NA

Table 2. Summary of Constituents of Concern in Groundwater/Surface Water

Well ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Chloride (mg/L)	Barium (mg/L)	Chromium (mg/L)
	^{GW} GW _{ing} PCL	5	1000	700	10000	300	2.0	0.1
MW-O-4	Feb 2001	dry	dry	dry	dry	dry	dry	dry
MW-O-4	June 2002	dry	dry	dry	dry	dry	dry	dry
MW-O-4	July 2003	dry	dry	dry	dry	dry	dry	dry
MW-O-4	March 2006	dry	dry	dry	dry	dry	dry	dry
MW-O-4	January 2008	dry	dry	dry	dry	dry	dry	dry
MW-O-4	January 2009	dry	dry	dry	dry	dry	dry	dry
MW-O-5	Feb 2001	<0.5	<0.5	<0.5	<0.5	2100	10	0.11
MW-O-5	June 2002	<0.5	<0.5	<0.5	<1.5	1700	3.7	0.020
MW-O-5	July 2003	<0.8	<2.0	<2.0	<3.0	1620	0.0723	NA
MW-O-5	March 2006	<0.8U	<2U	<2U	<3U	1900	0.0406	NA
MW-O-5	January 2008	NA	NA	NA	NA	2800	NA	NA
MW-O-5	January 2009	NA	NA	NA	NA	2740	NA	NA
MW-O-6	Feb 2001	<0.5	<0.5	<0.5	<0.5	1900	0.1	<0.03
MW-O-6	June 2002	<0.5	<0.5	<0.5	<1.5	6300	0.12	<0.010
MW-O-6	July 2003	<0.8	<2.0	<2.0	<3.0	6740	0.153	NA
MW-O-6	March 2006	<0.8U	<2U	<2U	<3U	3100	0.0651	NA
MW-O-6	January 2008	NA	NA	NA	NA	2320	NA	NA
MW-O-6	January 2009	NA	NA	NA	NA	3110	NA	NA
MW-O-7	Feb 2001	<0.5	<0.5	<0.5	<0.5	5510	0.52	0.079
MW-O-7	June 2002	<0.5	<0.5	<0.5	<1.5	25000	0.090	<0.010
MW-O-7	July 2003	<0.8	<2.0	<2.0	<3.0	26500	0.12	NA
MW-O-7	March 2006	1.66J	<2U	<2U	<3U	22300	0.0669	NA
MW-O-7	January 2008	<2U	<4U	<4U	<4U	13100	NA	NA
MW-O-7	January 2009	<0.8U	<2U	<2U	<3U	18300	NA	NA
MW-O-8	Feb 2001	<0.5	<0.5	<0.5	<0.5	2900	0.15	<0.03
MW-O-8	June 2002	<0.5	<0.5	<0.5	<1.5	2900	0.13	<0.010
MW-O-8	July 2003	<0.8	<2.0	<2.0	<3.0	2560	0.124	NA
MW-O-8	March 2006	<0.8U	<2U	<2U	<3U	2140	0.12	NA
MW-O-8	January 2008	NA	NA	NA	NA	2510	NA	NA
MW-O-8	January 2009	NA	NA	NA	NA	2630	NA	NA
MW-O-9	Feb 2001	<0.5	<0.5	<0.5	<0.5	450	0.29	<0.03
MW-O-9	June 2002	<0.5	<0.5	<0.5	<1.5	530	0.091	<0.010
MW-O-9	July 2003	<0.8	<2.0	<2.0	<3.0	337	0.0327	NA
MW-O-9	March 2006	<0.8U	<2U	<2U	<3U	309	0.0414	NA
MW-O-9	January 2008	NA	NA	NA	NA	330	NA	NA
MW-O-9	January 2009	NA	NA	NA	NA	431	NA	NA
MW-O-11	Feb 2001	<0.5	<0.5	<0.5	<0.5	130	0.12	<0.03
MW-O-11	June 2002	<0.5	<0.5	<0.5	<1.5	190	0.039	<0.010
MW-O-11	July 2003	<0.8	<2.0	<2.0	<3.0	1540	0.0547	NA
MW-O-11	March 2006	<0.8U	<2U	<2U	<3U	606	0.0322	NA
MW-O-11	January 2008	NA	NA	NA	NA	3130	NA	NA
MW-O-11	January 2009	NA	NA	NA	NA	574	NA	NA
MW-O-12	June 2002	<0.5	<0.5	0.750	<1.5	2300	0.28	0.020
MW-O-12	July 2003	<0.8	<2.0	<2.0	<3.0	2860	0.0780	NA
MW-O-12	March 2006	<0.8U	13.2	<2U	<3U	692	0.0614	NA
MW-O-12	January 2008	NA	NA	NA	NA	229	NA	NA
MW-O-12	January 2009	NA	NA	NA	NA	349	NA	NA
MW-O-13	June 2002	<0.5	<0.5	<0.5	<1.5	2600	0.12	0.012
MW-O-13	July 2003	<0.8	<2.0	<2.0	<3.0	2530	0.0618	NA
MW-O-13	March 2006	<0.8U	36.7	<2U	<3U	689	0.0252	NA
MW-O-13	January 2008	NA	NA	NA	NA	245	NA	NA
MW-O-13	January 2009	NA	NA	NA	NA	635	NA	NA
MW-O-15	July 2003	<0.8	<2.0	<2.0	<3.0	8590	0.0900	NA
MW-O-15	March 2006	<0.8U	<2U	<2U	<3U	6640	0.0342	NA
MW-O-15	January 2008	NA	NA	NA	NA	4600	NA	NA
MW-O-15	January 2009	NA	NA	NA	NA	5550	NA	NA
MW-O-21	March 2006	<0.8U	<2U	<2U	<3U	16200	0.175	NA
MW-O-21	January 2008	<2U	<4U	<4U	<4U	17200	NA	NA
MW-O-21	January 2009	<0.8U	<2U	<2U	<3U	16600	NA	NA
MW-O-22	March 2006	<0.8U	<2U	<2U	<3U	352	0.0377	NA
MW-O-22	January 2008	NA	NA	NA	NA	336	NA	NA
MW-O-22	January 2009	NA	NA	NA	NA	440	NA	NA
MW-O-23	March 2006	<0.8U	<2U	<2U	<3U	83.1	0.0354	NA
MW-O-23	January 2008	NA	NA	NA	NA	43.6	NA	NA
MW-O-23	January 2009	NA	NA	NA	NA	91.1	NA	NA

Table 2. Summary of Constituents of Concern in Groundwater/Surface Water

Well ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Chloride (mg/L)	Barium (mg/L)	Chromium (mg/L)
^{GW} GW _{ing} PCL		5	1000	700	10000	300	2.0	0.1
MW-07-1	August 2007	NA	NA	NA	NA	8840	NA	NA
MW-07-1	January 2008	<2U	<4U	<4U	<4U	7980	NA	NA
MW-07-1	January 2009	<0.8U	<2U	<2U	<3U	6620	NA	NA
North Seep	Feb 2001	NA	NA	NA	NA	1900	0.12	<0.03
Seep	March 2006	<0.8U	<2U	<2U	<3U	1210	0.0623	NA
Seep	January 2008	NA	NA	NA	NA	1090	NA	NA
Seep	January 2009	NA	NA	NA	NA	1220	NA	NA
Dugout Creek								
MW-D-1	March 2006	<0.8	<2	<2	<3	10200	0.181	NA
MW-D-1	January 2008	NA	NA	NA	NA	11600	NA	NA
MW-D-1	January 2009	NA	NA	NA	NA	10300	NA	NA
MW-D-2	March 2006	<0.8	10.5	<2	<3	2370	0.180	NA
MW-D-2	January 2008	NA	NA	NA	NA	3480	NA	NA
MW-D-2	January 2009	NA	NA	NA	NA	2970	NA	NA
MW-D-3	March 2006	<0.8	<2	<2	<3	11000	0.0611	NA
MW-D-3	January 2008	NA	NA	NA	NA	8949*	NA	NA
MW-D-3	January 2009	NA	NA	NA	NA	10600	NA	NA
MW-D-4	March 2006	NS	NS	NS	NS	NS	NS	NA
MW-D-4	January 2008	NA	NA	NA	NA	5710	NA	NA
MW-D-4	January 2009	NA	NA	NA	NA	5720	NA	NA
MW-D-5	March 2006	dry	dry	dry	dry	dry	dry	NA
MW-D-5	January 2008	NA	NA	NA	NA	11400	NA	NA
MW-D-5	January 2009	NA	NA	NA	NA	10400	NA	NA
MW-D-6	March 2006	<0.8	<2	<2	<3	1270	0.0723	NA
MW-D-6	January 2008	NA	NA	NA	NA	1550	NA	NA
MW-D-6	January 2009	NA	NA	NA	NA	2980	NA	NA
MW-D-7	March 2006	dry	dry	dry	dry	dry	dry	NA
MW-D-7	January 2008	NA	NA	NA	NA	10400	NA	NA
MW-D-7	January 2009	NA	NA	NA	NA	10300	NA	NA
MW-D-8	March 2006	<0.8	<2	<2	<3	349	0.153	NA
MW-D-8	January 2008	NA	NA	NA	NA	482	NA	NA
MW-D-8	January 2009	NA	NA	NA	NA	440	NA	NA
MW-D-9	March 2006	NS	NS	NS	NS	NS	NS	NA
MW-D-9	January 2008	dry	dry	dry	dry	dry	dry	dry
MW-D-9	January 2009	dry	dry	dry	dry	dry	dry	dry
MW-D-10	March 2006	<0.8	<2	<2	<3	80.7	0.124	NA
MW-D-10	January 2008	NA	NA	NA	NA	68.9	NA	NA
MW-D-10	January 2009	NA	NA	NA	NA	121.0	NA	NA
MW-07-2	August 2007	dry	dry	dry	dry	dry	dry	dry
MW-07-2	January 2008	NA	NA	NA	NA	7480	NA	NA
MW-07-2	January 2009	NA	NA	NA	NA	4350	NA	NA
MW-07-3	August 2007	NA	NA	NA	NA	38800	NA	NA
MW-07-3	January 2008	NA	NA	NA	NA	33500	NA	NA
MW-07-3	January 2009	NA	NA	NA	NA	36800	NA	NA

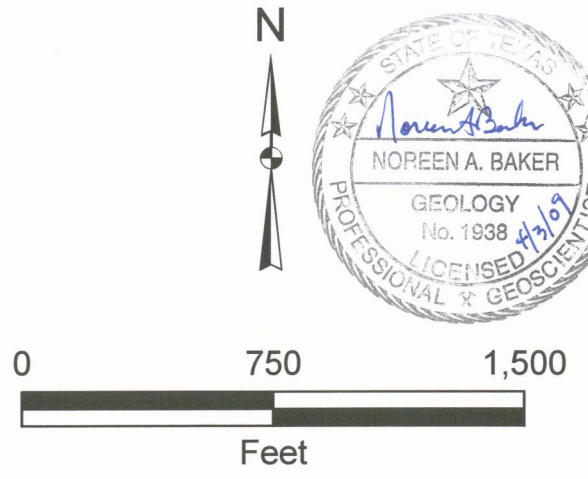
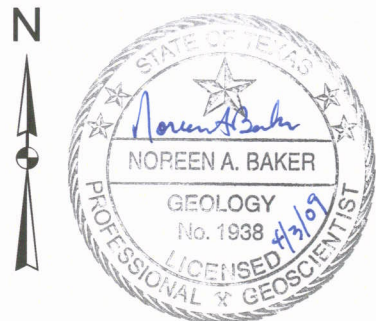
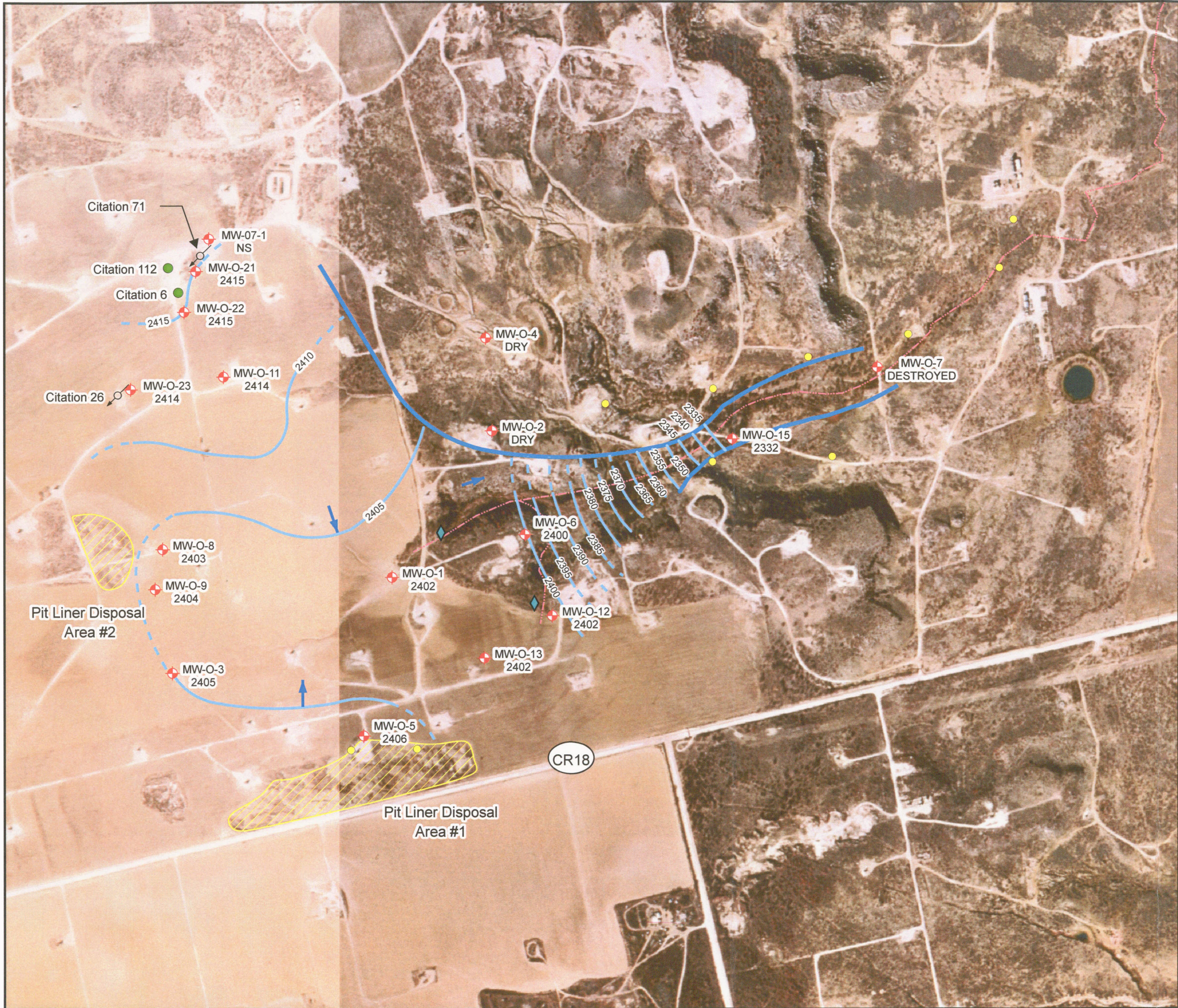
^{GW}GW_{ing} PCL: Tier 1 Protective Concentration Levels for ingestion of groundwater (TCEQ, 2008)

*data from field titration using Hach test kit

NA: not analyzed

NS: not sampled, insufficient water in well

FIGURES



Legend

- ◆ MW-O-3 Monitor Well
2405 Water Level Elevation (ft msl)
- Injection Well
- Oil Production Well
- Soil Boring From Previous Investigations
- ◆ O'Ryan Seep (North and South)
- Stream Bed
- Pit Liner
- 2405 Groundwater Elevation Contour (ft msl)
Contour Interval = 5 ft
(contour line is dashed where inferred)
- Dry Line
- Flow Direction
- CR18 County Road
- NS Not Surveyed

**Potentiometric Surface Map -
O'Ryan Seep
(January 2009)**

Date: 3/17/2009

File: Fig1_O'Ryan_Potentio.mxd

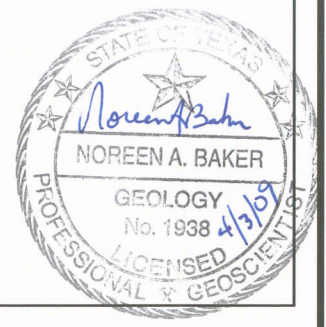
Proj: UTM, NAD83 Zone 14

	O'Ryan Seep Coahoma, Texas	Figure 1
--	-------------------------------	-------------



Legend

- MW-P-2 Monitor Well
2401 Water Level Elevation (ft msl)
- Abandoned Collection Line Manifold
- Pharaoh Seep
- Producing Oil Well
- Plugged Oil Well
- Groundwater Elevation Contours (ft msl)
Contour Interval = 5 ft
(contour line is dashed where inferred)
- Dry Line
- Flow Direction
- Former Pit Location
- Creek Bed

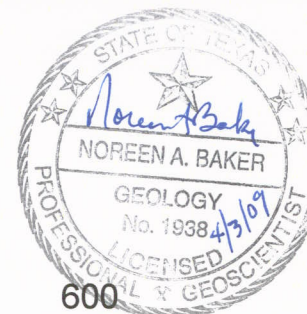


Date: 3/17/2009		Potentiometric Surface Map - Pharaoh Seep (January 2009)
File: Fig2_2009_Phara_Potentio.mxd		
Project: RRC-PHR 05-01		
	Pharaoh Seep Cahoma, Texas	Figure 2

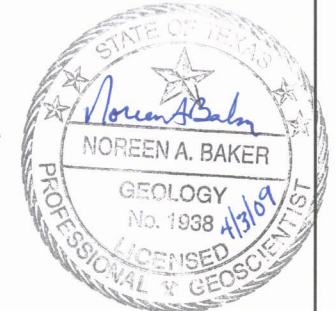
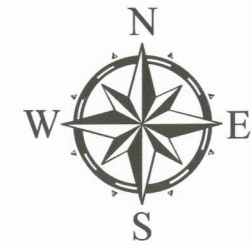
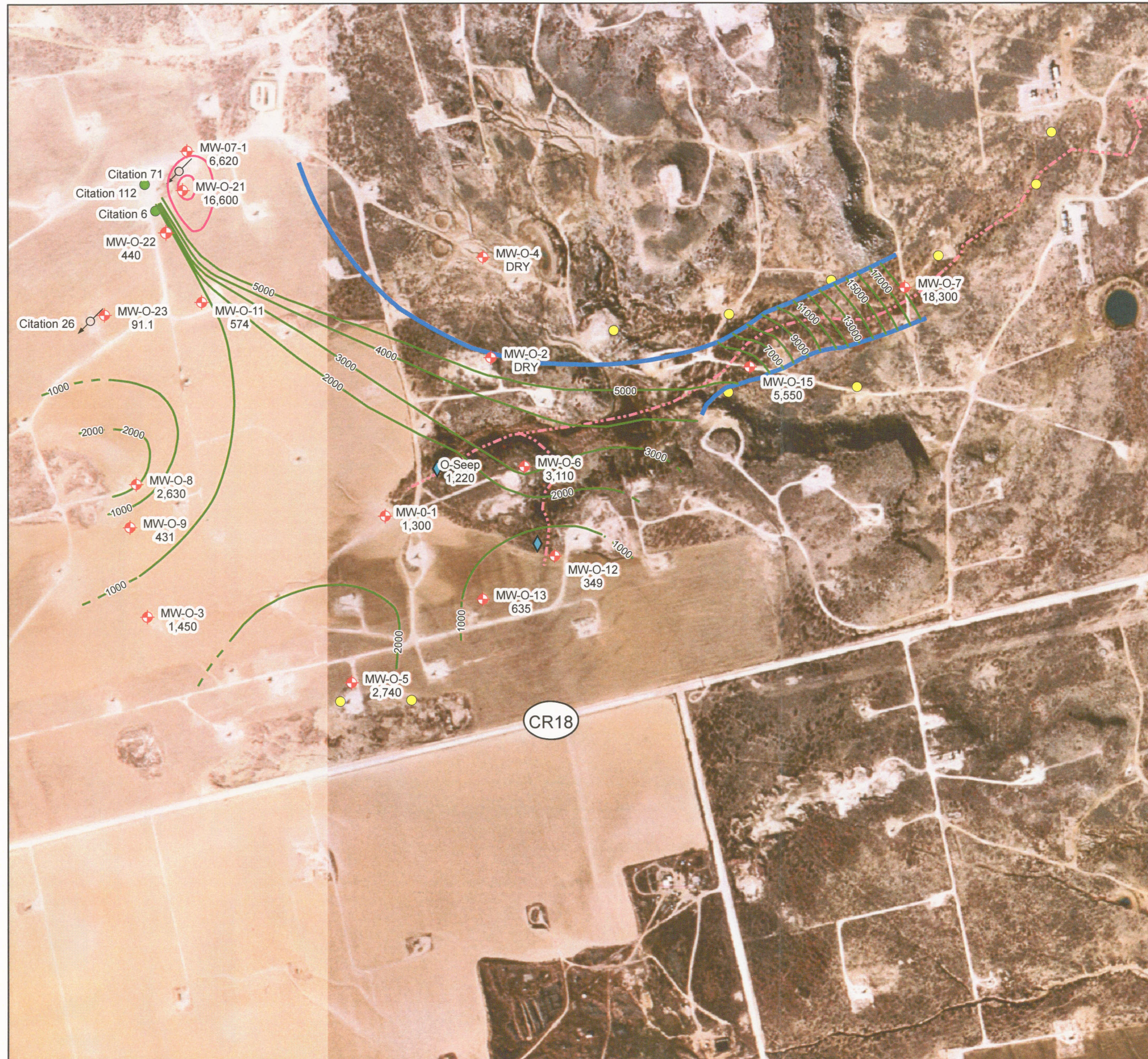


Legend

- ◆ MW-P-3 Monitor Well
- NS Not Sampled for BTEX
- ND No BTEX Constituent Detected
- B Benzene (mg/L), Regulatory Limit = 0.005 mg/L
- T Toluene (mg/L)
- E Ethyl benzene (mg/L)
- X Xylene (mg/L)
- ◆ Seep
- - - - - Creek



Date: 3/17/2009	BTEX Constituents in Groundwater - Pharaoh Seep (January 2009)	
File: Fig3_2009_Pharaoh_BTEX.mxd		
Projection: NAD83, UTM Zone 14N		FIGURE 3
Dugout Creek Near Caohoma, TX		



Legend

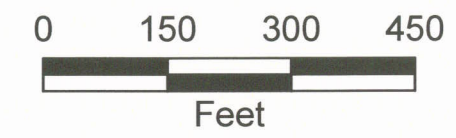
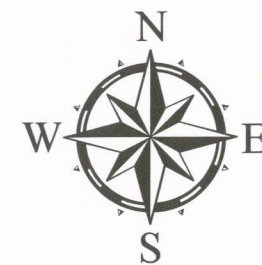
- MW-O-21 Monitor Well
16,600 Chloride Concentration (mg/L)
Regulatory Limit = 300 mg/L
- Injection Well
- Oil Production Well
- Soil Borings from Previous Investigations
- O'Ryan Seep (North and South)
- Dry Line
- Chloride Concentration Contour (mg/L)
Concentration Interval = 1,000 mg/L
- Concentration Interval = 5,000 mg/L
(contour line is dashed where inferred)
- Creek Bed
- County Road

Date: 3/17/2009
 File: Fig4_2009_ORyan_Chlor.mxd
 Projection: NAD83,
 UTM Zone 14N

**Chloride Levels
 in Groundwater -
 O'Ryan Seep
 (January 2009)**

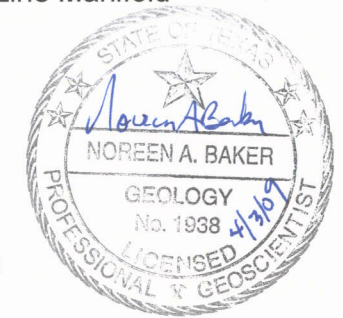


Dugout Creek
 Near
 Coahoma, TX



Legend




- MW-P-3 Monitor Well
 217 Chloride Concentration (mg/L)
 Regulatory Limit = 300 mg/L
- Abandoned Collection Line Manifold
- Seep
- Producing Oil Well
- Plugged Oil Well
- Former Pit Location
- Chloride Concentration Contour (mg/L)
 Contour Interval = 2000 mg/L
 (contour line is dashed where inferred)
- Dry Line
- Creek Bed

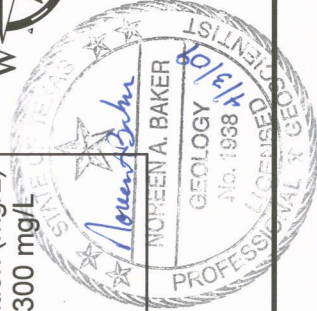


Date: 3/17/2009	Chloride Levels in Groundwater - Pharaoh Seep (January 2009)	
File: Fig5_Pharaoh_Chlor.mxd		
Project: RRC-PHR 05-01		
	Pharaoh Seep Caohoma, Texas	Figure 5



Legend

-  Monitor Well
-  Chloride Concentration (mg/L)
- Regulatory Limit = 300 mg/L
-  Dugout Creek



Date: 3/17/2009

File: Fig6_2009_Dug_Chlor.mxd

Projection: NAD83,
UTM Zone 14N



Chloride Levels in
Groundwater - Dugout Creek
(January 2009)

Dugout Creek
Near
Caohoma, TX

FIGURE
6

ATTACHMENT A
Laboratory Data Packages

Data Review Checklist

Client/Project: RRC / Dugout Creek		Reviewer: L. Pille		Review Date: 3/16/09
Laboratory: DHL Work Order No.: 0901157		Analytical Method: Anions - 300		Matrix: Water
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?	✓		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?	✓		
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?	✓		
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?	✓		
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		

Data Review Checklist (continued)

Client/Project: RRC/ <i>Pugnot Creek</i>		Reviewer: <i>L Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method: <i>Anions-300</i>		Matrix: <i>Water</i>
Work Order No.: <i>0901157</i>				
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?			<i>NA</i>
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		
15	Are MS/MSD recoveries and RPDs within limits?	✓		
16	Are surrogate recoveries within limits (organic analyses only)?			<i>NA</i>
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments:

Data Review Checklist

Client/Project: RRC / <i>Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/10/09</i>
Laboratory: <i>DHL</i>		Analytical Method: <i>TDS-2540 C</i>		Matrix: <i>Water</i>
Work Order No.: <i>0901157</i>				
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?	✓		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?	✓		
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		<i>Reporting ICV/CCV is not required. Lab checklist indicates ICV/CCV is ok. No effect on data quality.</i>
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?	✓		<i>Only LCS provided. Lab dup provided and in control. No effect on data quality.</i>
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?		✓	<i>MS/MSD not run for TDS. LCS + lab dup ok. No effect on data quality.</i>
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		

Data Review Checklist (continued)

Client/Project: <i>RRC / Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/14/09</i>
Laboratory: <i>DHL</i>		Analytical Method:		Matrix:
Work Order No.: <i>0901157</i>		<i>TDS-2540 C</i>		<i>Water</i>
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?			<i>NA</i>
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		<i>LCSD not provided.</i>
15	Are MS/MSD recoveries and RPDs within limits?		✓	<i>No MS/MSD provided.</i>
16	Are surrogate recoveries within limits (organic analyses only)?			<i>NA</i>
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments:



February 05, 2009

Barbara Rigney
INTERA Inc.
1812 Centre Creek Dr. #300
Austin, Texas 78754

TEL: (512) 425-2097
FAX: (512) 425-2099

Order No.: 0901157

RE: Dugout Creek

Dear Barbara Rigney:

DHL Analytical received 8 sample(s) on 1/29/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont". The signature is fluid and cursive, with a large initial "J".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08A-TX



TABLE OF CONTENTS

This report for INTERA Inc.: Dugout Creek (DHL Work Order 0901157) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, FedEx slip (if used), log-in checklist	3-5
• Laboratory Data Package Signature Page	6
• Laboratory Review Checklist	7-8
• Case Narrative	9
• Work Order Summary	10
• Preparation Dates Report	11-12
• Analytical Dates Report	13-14
• Sample Results	15-22
• QC Summary Report	23-27
• MQL Summary Report	28
• Total Number of Pages	28

February 5, 2009

Approved: _____


John DuPont

redEX Express **US-Airbill**

FedEx Tracking Number

8670 4267 741B

Form ID No. 0215

1 From This portion can be removed for Recipient's records.
Date 1/28/09 FedEx Tracking Number 86704267741B

Sender's Name B. Saigney Phone 512 425-2000

Company WATERA INC

Address 3000 CENTRE CREEK DR STE 300

City AUSTIN State TX ZIP 78754

2 Your Internal Billing Reference RRC-DUG-06-02

3 To Recipient's Name John Dupont Phone 512 388-8222

Address HL Analytical

Address 300 Double Creek Dr.

City Round Rock State TX ZIP 78664

City Round Rock State TX ZIP 78664



8670 4267 741B

CUSTODY SEAL
DATE 1/28/09
SIGNATURE [Signature]

4a Express Package Service
 FedEx Priority Overnight
Next business morning, Friday shipments will be delivered on Monday unless ship/DOT Delivery is selected.
 FedEx Standard Overnight
Next business afternoon, Saturday Delivery NOT available.
 FedEx Express Saver
Third business day, Saturday Delivery NOT available.
FedEx overnight rate not available. Minimum charge: One-pound rate.

4b Express Freight Service
 FedEx 1Day Freight
Next business day, Friday shipments will be delivered on Monday unless ship/DOT Delivery is selected.
 FedEx 2Day Freight
Second business day, Thursday shipments will be delivered on Monday unless ship/DOT Delivery is selected.
 FedEx 3Day Freight
Third business day, Saturday Delivery NOT available.

5 Packaging
 FedEx Pak* Small
FedEx Large Pak* Small, Sturdy Pak
 FedEx Envelope*
 FedEx Box

6 Special Handling
 SATURDAY Delivery
Not available for FedEx Priority Overnight, FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.
 HOL Day
Include FedEx address, location, and weight.
 Fragile
Does this shipment contain dangerous goods?
 No
 Yes
Dry Ice
As per attached Shipper's Declaration, not required.
 Yes
Shipper's Declaration not required.
 Cargo Aircraft

7 Payment Bill to:
 Sender
Sender's Name: [Name]
 Recipient
Recipient's Name: [Name]
 Credit Card
Credit Card No. [Number]
Total Packages 6
Total Weight 6.5

8 Residential Delivery Signature Options
If you require a signature:
 No Signature
Package may be left unattended, obtaining a signature for delivery.
 Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature
If no one is available, recipient's address will be signed for delivery.

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Sample Receipt Checklist

Client Name INTERA Inc.
Work Order Number 0901157

Date Received: 1/29/2009
Received by JB

Checklist completed by: JB 1/29/09
Signature Date

Reviewed by: JD 01/29/09
Initials Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 1.3 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

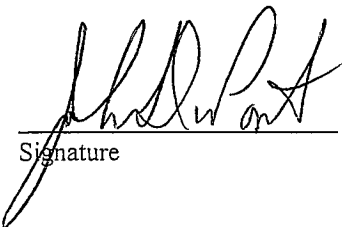
This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

02/05/09
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Dugout Creek		Date: 2/5/09					
Reviewer Name: Carlos Castro		Laboratory Work Order: 0901157					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?			X		
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Dugout Creek Date: 2/5/09
 Reviewer Name: Carlos Castro Laboratory Work Order: 0901157

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?			X		
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: INTERA Inc.
Project: Dugout Creek
Lab Order: 0901157

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

- Method E300 - Anions Analysis
- Method M2540C (18th Edition) - TDS Analysis

Exception Report R1-01

Samples were received and log-in performed on 1/29/09. A total of 8 samples were received. The samples arrived in good condition and were properly packaged.

CLIENT: INTERA Inc.
Project: Dugout Creek
LabOrder: 0901157

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
0901157-01	MW-O-3		01/27/09 01:00 PM	1/29/2009
0901157-02	MW-O-5		01/27/09 02:07 PM	1/29/2009
0901157-03	MW-O-12		01/27/09 02:50 PM	1/29/2009
0901157-04	MW-O-13		01/27/09 03:35 PM	1/29/2009
0901157-05	MW-O-9		01/27/09 12:17 PM	1/29/2009
0901157-06	MW-O-8		01/27/09 01:40 PM	1/29/2009
0901157-07	MW-O-11		01/27/09 02:48 PM	1/29/2009
0901157-08	MW-O-23		01/27/09 03:55 PM	1/29/2009

DHL Analytical

05-Fe b-09

LabOrder: 0901157
 Client: INTERA Inc.
 Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901157-01A	MW-O-3	01/27/09 01:00 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-3	01/27/09 01:00 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-3	01/27/09 01:00 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-3	01/27/09 01:00 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-02A	MW-O-5	01/27/09 02:07 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-5	01/27/09 02:07 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-5	01/27/09 02:07 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-5	01/27/09 02:07 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-03A	MW-O-12	01/27/09 02:50 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-12	01/27/09 02:50 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-12	01/27/09 02:50 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-04A	MW-O-13	01/27/09 03:35 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-13	01/27/09 03:35 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-13	01/27/09 03:35 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-13	01/27/09 03:35 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-05A	MW-O-9	01/27/09 12:17 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-9	01/27/09 12:17 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-9	01/27/09 12:17 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-06A	MW-O-8	01/27/09 01:40 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-8	01/27/09 01:40 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-8	01/27/09 01:40 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-8	01/27/09 01:40 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-07A	MW-O-11	01/27/09 02:48 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-11	01/27/09 02:48 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-11	01/27/09 02:48 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-11	01/27/09 02:48 PM	Aqueous	M2540C	TDS Preparation	02/02/09 09:20 AM	33255
0901157-08A	MW-O-23	01/27/09 03:55 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-23	01/27/09 03:55 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-23	01/27/09 03:55 PM	Aqueous	E300	Anion Preparation	02/03/09 03:00 PM	33297
	MW-O-23	01/27/09 03:55 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217
	MW-O-23	01/27/09 03:55 PM	Aqueous	E300	Anion Preparation	01/29/09 10:00 AM	33217

DHL Analytical

05-Feb-09

LabOrder: 0901157
Client: INTERA Inc.
Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901157-08A	MW-O-23	01/27/09 03:55 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297

DHL Analytical

05-Feb-09

LabOrder: 0901157
 Client: INTERA Inc.
 Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901157-01A	MW-O-3	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 03:14 PM	IC2_090129A
	MW-O-3	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 04:27 PM	IC2_090129A
	MW-O-3	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 12:22 PM	IC2_090129A
	MW-O-3	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-02A	MW-O-5	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 12:37 PM	IC2_090129A
	MW-O-5	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 03:29 PM	IC2_090129A
	MW-O-5	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 04:42 PM	IC2_090129A
	MW-O-5	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-03A	MW-O-12	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 12:52 PM	IC2_090129A
	MW-O-12	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 05:13 PM	IC2_090129A
	MW-O-12	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-04A	MW-O-13	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 05:28 PM	IC2_090129A
	MW-O-13	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 01:06 PM	IC2_090129A
	MW-O-13	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 03:43 PM	IC2_090129A
	MW-O-13	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-05A	MW-O-9	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 05:43 PM	IC2_090129A
	MW-O-9	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 01:21 PM	IC2_090129A
	MW-O-9	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-06A	MW-O-8	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 02:30 PM	IC2_090129A
	MW-O-8	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 03:58 PM	IC2_090129A
	MW-O-8	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 06:27 PM	IC2_090129A
	MW-O-8	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-07A	MW-O-11	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 02:30 PM	IC2_090129A
	MW-O-11	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 03:58 PM	IC2_090129A
	MW-O-11	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 06:27 PM	IC2_090129A
	MW-O-11	Aqueous	M2540C	Total Dissolved Solids	33255	1	02/02/09 10:00 AM	WC_090202A
0901157-08A	MW-O-23	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 02:45 PM	IC2_090129A
	MW-O-23	Aqueous	E300	Anions by IC method - Water	33217	100	01/29/09 04:13 PM	IC2_090129A
	MW-O-23	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 06:41 PM	IC2_090129A
	MW-O-23	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
	MW-O-23	Aqueous	E300	Anions by IC method - Water	33217	10	01/29/09 02:59 PM	IC2_090129A
	MW-O-23	Aqueous	E300	Anions by IC method - Water	33217	1	01/29/09 06:56 PM	IC2_090129A

DHL Analytical

05-Feb-09

LabOrder: 0901157
Client: INTERA Inc.
Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901157-08A	MW-O-23	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
LabOrder: 0901157

Client Sample ID: MW-O-3
LabID: 0901157-01
Collection Date: 01/27/09 01:00PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	2.66	0.300	1.00		mg/L	1	01/29/09 04:27 PM
Chloride	1450	30.0	100		mg/L	100	01/29/09 03:14 PM
Sulfate	255	10.0	30.0		mg/L	10	01/29/09 12:22 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	3160	10.0	10.0		mg/L	1	02/02/09 10:00 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901157

Client Sample ID: MW-O-5
Lab ID: 0901157-02
Collection Date: 01/27/09 02:07 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	2.56	0.300	1.00		mg/L	1	01/29/09 04:42 PM
Chloride	2740	30.0	100		mg/L	100	01/29/09 03:29 PM
Sulfate	558	10.0	30.0		mg/L	10	01/29/09 12:37 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	5730	10.0	10.0		mg/L	1	02/02/09 10:00 AM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 LabOrder: 0901157

Client Sample ID: MW-O-12
 LabID: 0901157-03
 Collection Date: 01/27/09 02:50PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	0.721	0.300	1.00	J	mg/L	1	01/29/09 05:13 PM
Chloride	349	3.00	10.0		mg/L	10	01/29/09 12:52 PM
Sulfate	153	10.0	30.0		mg/L	10	01/29/09 12:52 PM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	1190	10.0	10.0		mg/L	1	02/02/09 10:00 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

Page 3 of 8

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 LabOrder: 0901157

Client Sample ID: MW-O-13
 LabID: 0901157-04
 Collection Date: 01/27/0903:35 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	DateAnalyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	1.39	0.300	1.00		mg/L	1	01/29/09 05:28 PM
Chloride	635	30.0	100		mg/L	100	01/29/09 03:43 PM
Sulfate	136	10.0	30.0		mg/L	10	01/29/09 01:06 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	1580	10.0	10.0		mg/L	1	02/02/09 10:00 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 LabOrder: 0901157

Client Sample ID: MW-O-9
 LabID: 0901157-05
 Collection Date: 01/27/09 12:17 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	3.00	0.300	1.00		mg/L	1	01/29/09 05:43 PM
Chloride	431	3.00	10.0		mg/L	10	01/29/09 01:21 PM
Sulfate	883	10.0	30.0		mg/L	10	01/29/09 01:21 PM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	2380	10.0	10.0		mg/L	1	02/02/09 10:00 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

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DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901157

Client Sample ID: MW-O-8
 Lab ID: 0901157-06
 Collection Date: 01/27/09 01:40 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	4.76	0.300	1.00		mg/L	1	01/29/09 06:27 PM
Chloride	2630	30.0	100		mg/L	100	01/29/09 03:58 PM
Sulfate	432	10.0	30.0		mg/L	10	01/29/09 02:30 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	5440	10.0	10.0		mg/L	1	02/02/09 10:00 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 LabOrder: 0901157

Client Sample ID: MW-O-11
 LabID: 0901157-07
 Collection Date: 01/27/09 02:48 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER							
		E300					Analyst: JBC
Bromide	2.30	0.300	1.00		mg/L	1	01/29/09 06:41 PM
Chloride	574	30.0	100		mg/L	100	01/29/09 04:13 PM
Sulfate	340	10.0	30.0		mg/L	10	01/29/09 02:45 PM
TOTAL DISSOLVED SOLIDS							
		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	1860	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 05-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 LabOrder: 0901157

Client Sample ID: MW-O-23
 LabID: 0901157-08
 Collection Date: 01/27/09 03:55 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	0.698	0.300	1.00	J	mg/L	1	01/29/09 06:56 PM
Chloride	91.1	3.00	10.0		mg/L	10	01/29/09 02:59 PM
Sulfate	265	10.0	30.0		mg/L	10	01/29/09 02:59 PM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	939	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

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CLIENT: INTERA Inc.
 Work Order: 0901157
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090129A

SampleID	LCS-33217	Batch D:	33217	TestNo:	E300	Units:	mg/L
SampType:	LCS	RunID:	IC2_090129A	Analysis Date:	1/29/2009 10:14:36 AM	PrepDate:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.3	1.00	20.00	0	96.7	90	110			
Chloride	9.72	1.00	10.00	0	97.2	90	110			
Sulfate	29.0	3.00	30.00	0	96.5	90	110			

SampleID	LCSD-33217	Batch D:	33217	TestNo:	E300	Units:	mg/L
SampType:	LCSD	RunID:	IC2_090129A	Analysis Date:	1/29/2009 10:29:16 AM	PrepDate:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.5	1.00	20.00	0	97.3	90	110	0.628	20	
Chloride	9.70	1.00	10.00	0	97.0	90	110	0.226	20	
Sulfate	29.3	3.00	30.00	0	97.6	90	110	1.08	20	

SampleID	MB-33217	Batch D:	33217	TestNo:	E300	Units:	mg/L
SampType:	MBLK	RunID:	IC2_090129A	Analysis Date:	1/29/2009 10:43:57 AM	PrepDate:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

SampleID	0901157-05A MS	Batch D:	33217	TestNo:	E300	Units:	mg/L
SampType:	MS	RunID:	IC2_090129A	Analysis Date:	1/29/2009 1:44:43 PM	PrepDate:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	358	10.0	100.0	258.3	99.9	90	110			
Sulfate	828	30.0	300.0	529.7	99.3	90	110			

SampleID	0901157-05A MSD	Batch D:	33217	TestNo:	E300	Units:	mg/L
SampType:	MSD	RunID:	IC2_090129A	Analysis Date:	1/29/2009 1:59:23 PM	PrepDate:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	357	10.0	100.0	258.3	98.8	90	110	0.313	20	
Sulfate	828	30.0	300.0	529.7	99.3	90	110	0.0164	20	

SampleID	0901157-05A MS	Batch D:	33217	TestNo:	E300	Units:	mg/L
SampType:	MS	RunID:	IC2_090129A	Analysis Date:	1/29/2009 5:57:49 PM	PrepDate:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901157
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090129A

SampleID 0901157-05A MS	Batch D: 33217	TestNo: E300	Units: mg/L							
SampType: MS	RunID: IC2_090129A	Analysis Date: 1/29/2009 5:57:49 PM	PrepDate: 1/29/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Bromide	21.2	1.00	20.00	1.800	96.8	90	110			
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SampleID 0901157-05A MSD	Batch D: 33217	TestNo: E300	Units: mg/L							
SampType: MSD	RunID: IC2_090129A	Analysis Date: 1/29/2009 6:12:29 PM	PrepDate: 1/29/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Bromide	21.3	1.00	20.00	1.800	97.3	90	110	0.516	20	
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Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: INTERA Inc.
 Work Order: 0901157
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090129A

SampleID	ICV-090129	Batch D:	R41595	TestNo:	E300	Units:	mg/L
SampType:	ICV	RunID:	IC2_090129A	Analysis Date:	1/29/2009 9:50:14 AM	Prep Date:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	49.7	1.00	50.00	0	99.4	90	110			
Chloride	25.0	1.00	25.00	0	100	90	110			
Sulfate	74.7	3.00	75.00	0	99.6	90	110			

SampleID	CCV1-090129	Batch D:	R41595	TestNo:	E300	Units:	mg/L
SampType:	CCV	RunID:	IC2_090129A	Analysis Date:	1/29/2009 2:14:04 PM	Prep Date:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.4	1.00	20.00	0	97.0	90	110			
Chloride	9.71	1.00	10.00	0	97.1	90	110			
Sulfate	29.2	3.00	30.00	0	97.4	90	110			

SampleID	CCV2-090129	Batch D:	R41595	TestNo:	E300	Units:	mg/L
SampType:	CCV	RunID:	IC2_090129A	Analysis Date:	1/29/2009 4:57:19 PM	Prep Date:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.5	1.00	20.00	0	97.5	90	110			
Chloride	11.0	1.00	10.00	0	110	90	110			
Sulfate	29.7	3.00	30.00	0	99.1	90	110			

SampleID	CCV3-090129	Batch D:	R41595	TestNo:	E300	Units:	mg/L
SampType:	CCV	RunID:	IC2_090129A	Analysis Date:	1/29/2009 7:11:11 PM	Prep Date:	1/29/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.4	1.00	20.00	0	96.8	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
 Work Order: 0901157
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090202A

SampleID	MB-33255	Batch D:	33255	TestNo:	M2540C	Units:	mg/L
SampType:	MBLK	RunID:	WC_090202A	Analysis Date:	2/2/2009 10:00:00 AM	PrepDate:	2/2/2009
Analyte		Result	RL	SPKvalue	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera		ND	10.0				

SampleID	LCS-33255	Batch D:	33255	TestNo:	M2540C	Units:	mg/L
SampType:	LCS	RunID:	WC_090202A	Analysis Date:	2/2/2009 10:00:00 AM	PrepDate:	2/2/2009
Analyte		Result	RL	SPKvalue	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera		774	10.0	745.6	0	104	90 113

SampleID	0901157-06A-DUP	Batch D:	33255	TestNo:	M2540C	Units:	mg/L
SampType:	DUP	RunID:	WC_090202A	Analysis Date:	2/2/2009 10:00:00 AM	PrepDate:	2/2/2009
Analyte		Result	RL	SPKvalue	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids (Residue, Filtera		5400	10.0	0	5445		0.923 5

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901157
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090203B

SampleID	MB-33297	Batch D:	33297	TestNo:	M2540C	Units:	mg/L
SampType:	MBLK	RunID:	WC_090203B	Analysis Date:	2/3/2009 4:30:00 PM	Prep Date:	2/3/2009
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids (Residue, Filtera) ND 10.0

SampleID	LCS-33297	Batch D:	33297	TestNo:	M2540C	Units:	mg/L
SampType:	LCS	RunID:	WC_090203B	Analysis Date:	2/3/2009 4:30:00 PM	Prep Date:	2/3/2009
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids (Residue, Filtera) 753 10.0 745.6 0 101 90 113

SampleID	0901170-06A-DUP	Batch D:	33297	TestNo:	M2540C	Units:	mg/L
SampType:	DUP	RunID:	WC_090203B	Analysis Date:	2/3/2009 4:30:00 PM	Prep Date:	2/3/2009
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids (Residue, Filtera) 14800 10.0 0 14810 0.169 5

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
 Work Order: 0901157
 Project: Dugout Creek

SQL SUMMARY REPORT

TestNo: E300	MDL	SQL
Analyte	mg/L	mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Sulfate	1.00	3.00

TestNo: M2540C	MDL	SQL
Analyte	mg/L	mg/L
Total Dissolved Solids (Residue, Filt	10.0	10.0

Qualifiers: . SQL -Method Quantitation Limit as defined by TRRP
 MDL -Method Detection Limit as defined by TRRP

Data Review Checklist

Client/Project: <i>RRC / Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method:		Matrix:
Work Order No.: <i>0901170</i>		<i>Anions - 300</i>		<i>Water</i>
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?	✓		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?	✓		<i>SDL was elevated due to sample dilution for mw-0-15, mw-0-7, mw-0-21, mw-0-7, mw-p-01, mw-51 for Br. Analyte was detected in all diluted samples. No effect on data quality.</i>
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?	✓		
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?	✓		
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		<i>Duplicate Pairs are: mw-0-1 / mw-0-31 mw-p-01 / mw-51</i>

Data Review Checklist (continued)

Client/Project: <i>RRC / Dryout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method:		Matrix:
Work Order No.: <i>0901170</i>		<i>Anions - 300</i>		<i>Water</i>
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?			<i>NA</i>
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		
15	Are MS/MSD recoveries and RPDs within limits?		✓	<i>ms/msd on mw-0-7 for above control limits. IC</i>
16	Are surrogate recoveries within limits (organic analyses only)?			<i>in control. Samples not qualified on the basis of ms/msd alone. data quality.</i>
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

Br had % Rec 1/CCU + LCS/LCS qualified on the No effect on

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments:

Data Review Checklist

Client/Project: RRC / <i>Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method: <i>VOCs 8021</i>		Matrix: <i>Water</i>
Work Order No.: <i>0901170</i>				
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?	✓		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?	✓		
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?		✓	<i>Only LCS provided. 1cv/CCV and ms/msd are in control. No effect on data quality.</i>
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?	✓		
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		<i>Duplicate pairs: mw-0-1/mw-0-31 mw-P-01/mw-51</i>

Data Review Checklist (continued)

Client/Project: <i>RRC / Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i> Work Order No.: <i>0901170</i>		Analytical Method: <i>VOCs 8021</i>		Matrix: <i>Water</i>
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?	✓		
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		<i>No LCSD provided No effect on data quality.</i>
15	Are MS/MSD recoveries and RPDs within limits?	✓		
16	Are surrogate recoveries within limits (organic analyses only)?	✓		
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments:

Data Review Checklist

Client/Project: RRC / <i>Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method:		Matrix:
Work Order No.: <i>0901170</i>		<i>TDS-2540C</i>		<i>Water</i>
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?		✓	<i>mw-0-7 was prepared out of hold time.</i>
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?	✓		
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		<i>Reporting 1CV/CCV not required. Lab checklist indicates 1CV/CCV ok. No effect on data quality.</i>
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?	✓		<i>Only LCS provided. Lab dup provided and in control. No effect on data quality.</i>
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?		✓	<i>MS/MSD is not run for TDS. LCS + lab dup ok. No effect on data quality.</i>
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		<i>Duplicate pairs: mw-0-1 / mw-0-31 mw-p-01 / mw-51</i>

Data Review Checklist (continued)

Client/Project: <i>RRC / Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method: <i>TDS - 2540C</i>		Matrix: <i>Water</i>
Work Order No.: <i>0901170</i>				
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?			<i>NA</i>
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		<i>No LCSD provided</i>
15	Are MS/MSD recoveries and RPDs within limits?		✓	<i>No ms/msd provided</i>
16	Are surrogate recoveries within limits (organic analyses only)?			<i>Lab dup RPD ok. NA</i>
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments: *TDS was detected in the Equip Purge however, none of the results in batch 33333 were > 5 times the detected amount. No qualification necessary.*



February 17, 2009

Barbara Rigney
INTERA Inc.
1812 Centre Creek Dr. #300
Austin, Texas 78754

TEL: (512) 425-2097

FAX: (512) 425-2099

Order No.: 0901170

RE: Dugout Creek

Dear Barbara Rigney:

DHL Analytical received 18 sample(s) on 1/30/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont", is written over a horizontal line.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification
Number: T104704211-08B-TX



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This report for INTERA Inc.: Dugout Creek (DHL Work Order 0901170) contains the following information:

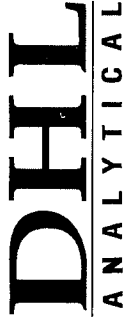
ITEM	Page
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• Laboratory Review Checklist	8-9
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• Sample Results	18-35
• QC Summary Report	36-54
• MQL Summary Report	55
• Total Number of Pages	55

February 17, 2009

Approved: _____

A handwritten signature in black ink, appearing to read "John DuPont", written over a horizontal line.

John DuPont



2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

No 39236

CHAIN-OF-CUSTODY

CLIENT: Inter, Inc DATE: 1/29/09 PAGE 1 OF 2
 ADDRESS: 1812 Centre Creek Dr., Suite 300 PO #: RL-DVG-06-02 DHL WORK ORDER #: 0901170
 PHONE: 512.425.2000 FAX: 512.425.2099 PROJECT LOCATION OR NAME: Drynt Creek
 DATA REPORTED TO: brigney@inter.com, nbanker@inter.com COLLECTOR: _____
 ADDITIONAL REPORT COPIES TO: _____ CLIENT PROJECT #: _____

Authorize 5% surcharge for TRRP report? Yes No
 Field Sample I.D. 3

Field Sample I.D.	S-SOIL W=WATER A=AIR			P-PAINT SL=SLUDGE OT=OTHER		Container Type	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
	DHL Lab #	Date	Time	Matrix	HCl			HNO ₃	H ₂ SO ₄ NaOH	ICF	UNPRESERVED			
MW-0-222	01	1/28/09	1130	W			3							
MW-0-1	02		1220				1							
MW-0-31	03		1245				1							
MW-0-6	04		1340				1							
MW-D-16	05		1425				1							
MW-07-2	06		1520				1							
MW-P-8	07		1600				1							
MW-P-2	08		1635				1							
MW-P-10	09		1700				1							
MW-P-3	10		1730				1							
MW-0-15	11		1825				1							
MW-0-7	12		1845				4	X	X	X	X	X	X	Hold on as per [unclear] 2/11/2009
MW-0-21	13		1210				12	X	X	X	X	X	X	Hold
ER-1	14		1300				4	X	X	X	X	X	X	MS/MSD
MW-07-1	15		1410				4	X	X	X	X	X	X	MS/MSD
TOTAL														

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 1/29/09 0730 RECEIVED BY: (Signature) [Signature]
 RELINQUISHED BY: (Signature) [Signature] DATE/TIME 1/30/09 1000 RECEIVED BY: (Signature) [Signature]
 RELINQUISHED BY: (Signature) [Signature] DATE/TIME _____ RECEIVED BY: (Signature) _____

LABORATORY USE ONLY:
 RECEIVING TEMP: 3.0 THERM #: 57
 CUSTOMER SEALS - BROKEN CONTACT NOT USED
 CARRIER BILL # _____
 APC DELIVERY _____
 HAND DELIVERED _____

TURN AROUND TIME:
 RUSH CALL FIRST
 1 DAY CALL FIRST
 2 DAY
 NORMAL
 OTHER

DHL DISPOSAL @ \$5.00 each Return

FedEx Express **US Airbill**

FedEx Tracking Number **8670 4267 7429**

1 From This portion can be removed for Recipient's records.

Date **1/29/09** FedEx Tracking Number **867042677429**

Sender's Name **B. Rigney**

Phone **512 425-2000**

Company **INTERA INC**

Address **1812 CENTRE CREEK DR BLDG 200**

Dept./Floor/Suite/Room

City **AUSTIN**

State **TX** ZIP **78754**

2 Your Internal Billing Reference **KRC-DWG-06-02**

Phone **512 388-8022**

3 To Recipient's Name **John Dupont**

Company **DHL Analytical**

Recipient's Address **2300 Double Creek Dr.**

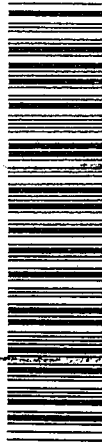
City **Roland Rock**

Dept./Floor/Suite/Room

State **TX** ZIP **78104**

0370955701

To make a purchase be held on a specific FedEx location, print FedEx address here.

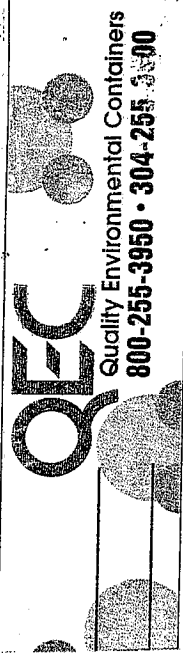


8670 4267 7429

GUESTODY SEAL

DATE **1/29/09**

SIGNATURE **Brian Rigney**



0215

4a Express Package Service

FedEx Priority Overnight
Next business morning, Friday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight
Next business afternoon, Saturday Delivery NOT available.

FedEx 2Day
Second business day, Thursday unless SATURDAY Delivery is selected.
 FedEx Express Saver
Third business day, Friday unless SATURDAY Delivery is selected.

4b Express Freight Service

FedEx 1Day Freight
Next business day, Friday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight
Second business day, Thursday unless SATURDAY Delivery is selected.

FedEx Pak
FedEx Large Pak and FedEx Small Pak.
 FedEx Envelope
 FedEx Tube
 Other

6 Special Handling

SATURDAY Delivery
Not available for FedEx First Overnight, FedEx 2Day Freight, FedEx Priority Overnight, FedEx Saver, or FedEx 3Day Freight.
 HOLD Weekday
Not available for FedEx First Overnight, FedEx Priority Overnight, or FedEx 3Day Freight.
 HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 3Day Freight to select locations.

No One box must be checked.
 Yes As per attached Shipper's Declaration not required.

Dry Ice
Dry Ice 3, 1M 18S
 Cargo Aircraft Only

7 Payment Bill to:

Sender
I will be billed.
 Recipient
 Third Party
 Credit Card
 Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.
Obtain Recip. Acct. No. **Cash/Check**

Total Weight

Credit Card Auth.

579

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options

No Signature Required
Someone at recipient's address may sign for delivery, no recipient signature necessary.
 Direct Signature
Someone at recipient's address may sign for delivery, no recipient signature necessary.
 Indirect Signature
If recipient is available at recipient's address, someone other than recipient may sign for delivery, no recipient signature necessary.

Rev. Date 10/09/08 ©1994-2008 FedEx/PRINTED IN U.S.A. SFR

DHL Analytical

Sample Receipt Checklist

Client Name INTERA Inc.

Date Received: 1/30/2009

Work Order Number 0901170

Received by JB

Checklist completed by: JBank 1/30/09
Signature Date

Reviewed by JB 01/30/09
Initials Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 3.4 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Added on TDS - outside of hold time.
MW-0-7

Corrective Action logged sample in per clients request.

Laboratory Data Package Signature Page

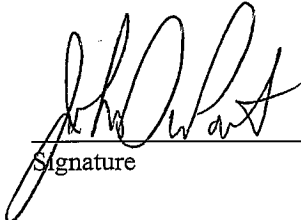
This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

02/17/09
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Dugout Creek		Date: 2/17/2009					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order: 0901170					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?		X			R3-01
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Dugout Creek		Date: 2/17/2009					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order: 0901170					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?	X				
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?			X		
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: INTERA Inc.
Project: Dugout Creek
Lab Order: 0901170

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method E300 - Anions by IC method - Water
Method M2540C - Total Dissolved Solids
Method SW8021B - Volatile Organics by GC

Exception Report R1-01

A total of 18 samples were received and logged-in on 1/30/2009. The samples arrived in good condition and were properly packaged. On 2/11/2009 BTEX/MTBE analysis, Anions analysis and Total Dissolved Solids analysis were added on to Sample (MW-O-7) as per the instructions of Barbara Rigney. The Total Dissolved Solids analysis was added one week outside of the Hold Time for the sample.

Exception Report R3-01

For Total Dissolved Solids Analysis, Sample (MW-O-7) was prepared out of the hold time. The analysis proceeded at the request of the client. The results have been flagged "C" to denote this.

Exception Report R7-03

For Anions Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (0901170-12 MS/MSD) were above the control limit for Bromide. These were flagged accordingly in the enclosed QC Summary Report. The LCS-33450 was within control limits for this compound. The reference sample selected for the MS/MSD was from this work order. No further corrective actions were taken.

CLIENT: INTERA Inc.
Project: Dugout Creek
Lab Order: 0901170

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
0901170-01	MW-O-22		01/28/09 11:30 AM	1/30/2009
0901170-02	MW-O-1		01/28/09 12:20 PM	1/30/2009
0901170-03	MW-O-31		01/28/09 12:45 PM	1/30/2009
0901170-04	MW-O-6		01/28/09 01:40 PM	1/30/2009
0901170-05	MW-D-10		01/28/09 02:25 PM	1/30/2009
0901170-06	MW-07-2		01/28/09 03:20 PM	1/30/2009
0901170-07	MW-P-8		01/28/09 04:00 PM	1/30/2009
0901170-08	MW-P-2		01/28/09 04:35 PM	1/30/2009
0901170-09	MW-P-10		01/28/09 05:00 PM	1/30/2009
0901170-10	MW-P-3		01/28/09 05:20 PM	1/30/2009
0901170-11	MW-O-15		01/28/09 06:25 PM	1/30/2009
0901170-12	MW-O-7		01/28/09 06:45 PM	1/30/2009
0901170-13	MW-O-21		01/28/09 12:10 PM	1/30/2009
0901170-14	ER-1		01/28/09 01:00 PM	1/30/2009
0901170-15	MW-07-1		01/28/09 02:10 PM	1/30/2009
0901170-16	MW-P-01		01/28/09 04:00 PM	1/30/2009
0901170-17	MW-51		01/28/09 04:20 PM	1/30/2009
0901170-18	Trip Blank		01/28/09 10:30 AM	1/30/2009

DHL Analytical

17-Feb-09

Lab Order: 0901170
Client: INTERA Inc.
Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901170-01A	MW-O-22	01/28/09 11:30 AM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-22	01/28/09 11:30 AM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-22	01/28/09 11:30 AM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-02A	MW-O-1	01/28/09 12:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-1	01/28/09 12:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-1	01/28/09 12:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-1	01/28/09 12:20 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-03A	MW-O-31	01/28/09 12:45 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-31	01/28/09 12:45 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-31	01/28/09 12:45 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-31	01/28/09 12:45 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-04A	MW-O-6	01/28/09 01:40 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-6	01/28/09 01:40 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-6	01/28/09 01:40 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-O-6	01/28/09 01:40 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-05A	MW-D-10	01/28/09 02:25 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-D-10	01/28/09 02:25 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-D-10	01/28/09 02:25 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-06A	MW-07-2	01/28/09 03:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-07-2	01/28/09 03:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-07-2	01/28/09 03:20 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-07A	MW-P-8	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-8	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-8	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-8	01/28/09 04:00 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297
0901170-08A	MW-P-2	01/28/09 04:35 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-2	01/28/09 04:35 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-2	01/28/09 04:35 PM	Aqueous	M2540C	TDS Preparation	02/03/09 03:00 PM	33297

DHL Analytical

17-Feb-09

Lab Order: 0901170
Client: INTERA Inc.
Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901170-09A	MW-P-10	01/28/09 05:00 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-10	01/28/09 05:00 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-10	01/28/09 05:00 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-10A	MW-P-3	01/28/09 05:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-3	01/28/09 05:20 PM	Aqueous	E300	Anion Preparation	02/02/09 08:30 AM	33262
	MW-P-3	01/28/09 05:20 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-11A	MW-O-15	01/28/09 06:25 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-O-15	01/28/09 06:25 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-O-15	01/28/09 06:25 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-O-15	01/28/09 06:25 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-12A	MW-O-7	01/28/09 06:45 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/11/09 04:26 PM	33424
0901170-12B	MW-O-7	01/28/09 06:45 PM	Aqueous	E300	Anion Preparation	02/12/09 11:30 AM	33450
	MW-O-7	01/28/09 06:45 PM	Aqueous	E300	Anion Preparation	02/12/09 11:30 AM	33450
	MW-O-7	01/28/09 06:45 PM	Aqueous	E300	Anion Preparation	02/12/09 11:30 AM	33450
	MW-O-7	01/28/09 06:45 PM	Aqueous	M2540C	TDS Preparation	02/13/09 04:00 PM	33478
0901170-13A	MW-O-21	01/28/09 12:10 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901170-13B	MW-O-21	01/28/09 12:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-O-21	01/28/09 12:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-O-21	01/28/09 12:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-O-21	01/28/09 12:10 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-14A	ER-1	01/28/09 01:00 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901170-14B	ER-1	01/28/09 01:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	ER-1	01/28/09 01:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	ER-1	01/28/09 01:00 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-15A	MW-07-1	01/28/09 02:10 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901170-15B	MW-07-1	01/28/09 02:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-07-1	01/28/09 02:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-07-1	01/28/09 02:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-07-1	01/28/09 02:10 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-15C	MW-07-1	01/28/09 02:10 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901170-15D	MW-07-1	01/28/09 02:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-07-1	01/28/09 02:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-07-1	01/28/09 02:10 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-07-1	01/28/09 02:10 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333

DHL Analytical

17-Feb-09

Lab Order: 0901170
Client: INTERA Inc.
Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901170-16A	MW-P-01	01/28/09 04:00 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901170-16B	MW-P-01	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-P-01	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-P-01	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-P-01	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-P-01	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-P-01	01/28/09 04:00 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-P-01	01/28/09 04:00 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-17A	MW-51	01/28/09 04:20 PM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901170-17B	MW-51	01/28/09 04:20 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-51	01/28/09 04:20 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-51	01/28/09 04:20 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33278
	MW-51	01/28/09 04:20 PM	Aqueous	M2540C	TDS Preparation	02/04/09 03:00 PM	33333
0901170-18A	Trip Blank	01/28/09 10:30 AM	Trip Blank	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252

DHL Analytical

17-Feb-09

Lab Order: 0901170
 Client: INTERA Inc.
 Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901170-01A	MW-O-22	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 04:47 PM	IC2_090202A
	MW-O-22	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 11:35 AM	IC2_090202A
	MW-O-22	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-02A	MW-O-1	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 11:50 AM	IC2_090202A
	MW-O-1	Aqueous	E300	Anions by IC method - Water	33262	100	02/02/09 12:49 PM	IC2_090202A
	MW-O-1	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 05:31 PM	IC2_090202A
	MW-O-1	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-03A	MW-O-31	Aqueous	E300	Anions by IC method - Water	33262	100	02/02/09 01:19 PM	IC2_090202A
	MW-O-31	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 01:33 PM	IC2_090202A
	MW-O-31	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 05:46 PM	IC2_090202A
	MW-O-31	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-04A	MW-O-6	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 01:48 PM	IC2_090202A
	MW-O-6	Aqueous	E300	Anions by IC method - Water	33262	100	02/02/09 02:03 PM	IC2_090202A
	MW-O-6	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 06:01 PM	IC2_090202A
	MW-O-6	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-05A	MW-D-10	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 06:15 PM	IC2_090202A
	MW-D-10	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 02:17 PM	IC2_090202A
	MW-D-10	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-06A	MW-07-2	Aqueous	E300	Anions by IC method - Water	33262	100	02/02/09 02:32 PM	IC2_090202A
	MW-07-2	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 06:59 PM	IC2_090202A
	MW-07-2	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-07A	MW-P-8	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 03:01 PM	IC2_090202A
	MW-P-8	Aqueous	E300	Anions by IC method - Water	33262	100	02/02/09 03:49 PM	IC2_090202A
	MW-P-8	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 07:14 PM	IC2_090202A
	MW-P-8	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B
0901170-08A	MW-P-2	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 03:16 PM	IC2_090202A
	MW-P-2	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 07:29 PM	IC2_090202A
	MW-P-2	Aqueous	M2540C	Total Dissolved Solids	33297	1	02/03/09 04:30 PM	WC_090203B

DHL Analytical

17-Feb-09

Lab Order: 0901170
 Client: INTERA Inc.
 Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901170-09A	MW-P-10	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 04:04 PM	IC2_090202A
	MW-P-10	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 07:43 PM	IC2_090202A
	MW-P-10	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-10A	MW-P-3	Aqueous	E300	Anions by IC method - Water	33262	10	02/02/09 04:18 PM	IC2_090202A
	MW-P-3	Aqueous	E300	Anions by IC method - Water	33262	1	02/02/09 07:58 PM	IC2_090202A
	MW-P-3	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-11A	MW-O-15	Aqueous	E300	Anions by IC method - Water	33278	100	02/03/09 10:34 AM	IC2_090203A
	MW-O-15	Aqueous	E300	Anions by IC method - Water	33278	1000	02/04/09 10:34 AM	IC2_090204A
	MW-O-15	Aqueous	E300	Anions by IC method - Water	33278	10	02/03/09 10:49 AM	IC2_090203A
	MW-O-15	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-12A	MW-O-7	Aqueous	SW8021B	Volatile Organics by GC	33424	1	02/11/09 08:33 PM	GC8_090211A
0901170-12B	MW-O-7	Aqueous	E300	Anions by IC method - Water	33450	10	02/12/09 03:41 PM	IC_090212B
	MW-O-7	Aqueous	E300	Anions by IC method - Water	33450	1000	02/12/09 02:02 PM	IC_090212B
	MW-O-7	Aqueous	E300	Anions by IC method - Water	33450	100	02/12/09 02:54 PM	IC_090212B
	MW-O-7	Aqueous	M2540C	Total Dissolved Solids	33478	1	02/13/09 04:00 AM	WC_090213A
0901170-13A	MW-O-21	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 01:53 PM	GC8_090202A
0901170-13B	MW-O-21	Aqueous	E300	Anions by IC method - Water	33278	10	02/03/09 11:03 AM	IC2_090203A
	MW-O-21	Aqueous	E300	Anions by IC method - Water	33278	100	02/03/09 11:18 AM	IC2_090203A
	MW-O-21	Aqueous	E300	Anions by IC method - Water	33278	1000	02/03/09 11:33 AM	IC2_090203A
	MW-O-21	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-14A	ER-1	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 02:13 PM	GC8_090202A
0901170-14B	ER-1	Aqueous	E300	Anions by IC method - Water	33278	1	02/03/09 02:24 PM	IC2_090203A
	ER-1	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-15A	MW-07-1	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 02:32 PM	GC8_090202A
0901170-15B	MW-07-1	Aqueous	E300	Anions by IC method - Water	33278	100	02/03/09 01:41 PM	IC2_090203A
	MW-07-1	Aqueous	E300	Anions by IC method - Water	33278	1000	02/03/09 02:39 PM	IC2_090203A
	MW-07-1	Aqueous	E300	Anions by IC method - Water	33278	10	02/04/09 10:48 AM	IC2_090204A
	MW-07-1	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A

DHL Analytical

17-Feb-09

Lab Order: 0901170
 Client: INTERA Inc.
 Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901170-16A	MW-P-01	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 02:51 PM	GC8_090202A
0901170-16B	MW-P-01	Aqueous	E300	Anions by IC method - Water	33278	1000	02/05/09 10:50 AM	IC2_090205A
	MW-P-01	Aqueous	E300	Anions by IC method - Water	33278	100	02/05/09 02:37 PM	IC2_090205A
	MW-P-01	Aqueous	E300	Anions by IC method - Water	33278	10	02/04/09 11:03 AM	IC2_090204A
	MW-P-01	Aqueous	E300	Anions by IC method - Water	33278	100	02/03/09 01:55 PM	IC2_090203A
	MW-P-01	Aqueous	E300	Anions by IC method - Water	33278	1000	02/05/09 02:51 PM	IC2_090205A
	MW-P-01	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-17A	MW-51	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 03:11 PM	GC8_090202A
0901170-17B	MW-51	Aqueous	E300	Anions by IC method - Water	33278	100	02/03/09 02:10 PM	IC2_090203A
	MW-51	Aqueous	E300	Anions by IC method - Water	33278	1000	02/03/09 02:53 PM	IC2_090203A
	MW-51	Aqueous	E300	Anions by IC method - Water	33278	10	02/04/09 11:18 AM	IC2_090204A
	MW-51	Aqueous	M2540C	Total Dissolved Solids	33333	1	02/04/09 03:50 PM	WC_090204A
0901170-18A	Trip Blank	Trip Blank	SW8021B	Volatile Organics by GC	33252	1	02/02/09 06:41 PM	GC8_090202A

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: MW-O-22
Lab ID: 0901170-01
Collection Date: 01/28/09 11:30 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	1.96	0.300	1.00		mg/L	1	02/02/09 04:47 PM
Chloride	440	3.00	10.0		mg/L	10	02/02/09 11:35 AM
Sulfate	316	10.0	30.0		mg/L	10	02/02/09 11:35 AM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	1670	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: MW-O-1
Lab ID: 0901170-02
Collection Date: 01/28/09 12:20 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Bromide	2.91	0.300	1.00		mg/L	1	02/02/09 05:31 PM
Chloride	1300	30.0	100		mg/L	100	02/02/09 12:49 PM
Sulfate	217	10.0	30.0		mg/L	10	02/02/09 11:50 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: AAD		
Total Dissolved Solids (Residue, Filterable)	3180	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-O-31
 Lab ID: 0901170-03
 Collection Date: 01/28/09 12:45 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	2.94	0.300	1.00		mg/L	1	02/02/09 05:46 PM
Chloride	1320	30.0	100		mg/L	100	02/02/09 01:19 PM
Sulfate	230	10.0	30.0		mg/L	10	02/02/09 01:33 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	3260	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-O-6
 Lab ID: 0901170-04
 Collection Date: 01/28/09 01:40 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	3.76	0.300	1.00		mg/L	1	02/02/09 06:01 PM
Chloride	3110	30.0	100		mg/L	100	02/02/09 02:03 PM
Sulfate	703	10.0	30.0		mg/L	10	02/02/09 01:48 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	6990	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MPLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-D-10
 Lab ID: 0901170-05
 Collection Date: 01/28/09 02:25 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	0.648	0.300	1.00	J	mg/L	1	02/02/09 06:15 PM
Chloride	121	3.00	10.0		mg/L	10	02/02/09 02:17 PM
Sulfate	49.4	10.0	30.0		mg/L	10	02/02/09 02:17 PM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	709	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: MW-07-2
Lab ID: 0901170-06
Collection Date: 01/28/09 03:20 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	13.2	0.300	1.00		mg/L	1	02/02/09 06:59 PM
Chloride	4350	30.0	100		mg/L	100	02/02/09 02:32 PM
Sulfate	4620	100	300		mg/L	100	02/02/09 02:32 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	14800	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: MW-P-8
Lab ID: 0901170-07
Collection Date: 01/28/09 04:00 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	1.14	0.300	1.00		mg/L	1	02/02/09 07:14 PM
Chloride	678	30.0	100		mg/L	100	02/02/09 03:49 PM
Sulfate	205	10.0	30.0		mg/L	10	02/02/09 03:01 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	1890	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: MW-P-2
Lab ID: 0901170-08
Collection Date: 01/28/09 04:35 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	0.785	0.300	1.00	J	mg/L	1	02/02/09 07:29 PM
Chloride	123	3.00	10.0		mg/L	10	02/02/09 03:16 PM
Sulfate	151	10.0	30.0		mg/L	10	02/02/09 03:16 PM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	861	10.0	10.0		mg/L	1	02/03/09 04:30 PM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-P-10
 Lab ID: 0901170-09
 Collection Date: 01/28/09 05:00 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	0.707	0.300	1.00	J	mg/L	1	02/02/09 07:43 PM
Chloride	89.3	3.00	10.0		mg/L	10	02/02/09 04:04 PM
Sulfate	146	10.0	30.0		mg/L	10	02/02/09 04:04 PM
TOTAL DISSOLVED SOLIDS		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	828	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MPLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-P-3
 Lab ID: 0901170-10
 Collection Date: 01/28/09 05:20 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	1.05	0.300	1.00		mg/L	1	02/02/09 07:58 PM
Chloride	217	3.00	10.0		mg/L	10	02/02/09 04:18 PM
Sulfate	163	10.0	30.0		mg/L	10	02/02/09 04:18 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	1080	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MPLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-O-15
 Lab ID: 0901170-11
 Collection Date: 01/28/09 06:25 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	20.3	3.00	10.0		mg/L	10	02/03/09 10:49 AM
Chloride	5550	300	1000		mg/L	1000	02/04/09 10:34 AM
Sulfate	1360	100	300		mg/L	100	02/03/09 10:34 AM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	12800	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-O-7
 Lab ID: 0901170-12
 Collection Date: 01/28/09 06:45 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B		Analyst: JAW			
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/11/09 08:33 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/11/09 08:33 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/11/09 08:33 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/11/09 08:33 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/11/09 08:33 PM
Surr: a,a,a-Trifluorotoluene	94.4	0	87-113		%REC	1	02/11/09 08:33 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	39.6	3.00	10.0		mg/L	10	02/12/09 03:41 PM
Chloride	18300	300	1000		mg/L	1000	02/12/09 02:02 PM
Sulfate	1930	100	300		mg/L	100	02/12/09 02:54 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	32800	10.0	10.0	C	mg/L	1	02/13/09 04:00 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-O-21
 Lab ID: 0901170-13
 Collection Date: 01/28/09 12:10 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B			Analyst: JAW		
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 01:53 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/02/09 01:53 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 01:53 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 01:53 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 01:53 PM
Surr: a,a,a-Trifluorotoluene	90.7	0	87-113		%REC	1	02/02/09 01:53 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Bromide	11.2	3.00	10.0		mg/L	10	02/03/09 11:03 AM
Chloride	16600	300	1000		mg/L	1000	02/03/09 11:33 AM
Sulfate	1850	100	300		mg/L	100	02/03/09 11:18 AM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: AAD		
Total Dissolved Solids (Residue, Filterable)	34800	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MPLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: ER-1
Lab ID: 0901170-14
Collection Date: 01/28/09 01:00 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B			Analyst: JAW		
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 02:13 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/02/09 02:13 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 02:13 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 02:13 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 02:13 PM
Surr: a,a,a-Trifluorotoluene	94.4	0	87-113		%REC	1	02/02/09 02:13 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Bromide	ND	0.300	1.00		mg/L	1	02/03/09 02:24 PM
Chloride	ND	0.300	1.00		mg/L	1	02/03/09 02:24 PM
Sulfate	ND	1.00	3.00		mg/L	1	02/03/09 02:24 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: AAD		
Total Dissolved Solids (Residue, Filterable)	50.0	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-07-1
 Lab ID: 0901170-15
 Collection Date: 01/28/09 02:10 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B		Analyst: JAW			
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 02:32 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/02/09 02:32 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 02:32 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 02:32 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 02:32 PM
Surr: a,a,a-Trifluorotoluene	93.5	0	87-113		%REC	1	02/02/09 02:32 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	34.1	3.00	10.0		mg/L	10	02/04/09 10:48 AM
Chloride	6620	300	1000		mg/L	1000	02/03/09 02:39 PM
Sulfate	872	100	300		mg/L	100	02/03/09 01:41 PM
TOTAL DISSOLVED SOLIDS		M2540C		Analyst: AAD			
Total Dissolved Solids (Residue, Filterable)	15700	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 Project No:
 Lab Order: 0901170

Client Sample ID: MW-P-01
 Lab ID: 0901170-16
 Collection Date: 01/28/09 04:00 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B			Analyst: JAW		
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 02:51 PM
Benzene	0.0487	0.000800	0.00200		mg/L	1	02/02/09 02:51 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 02:51 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 02:51 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 02:51 PM
Surr: a,a,a-Trifluorotoluene	94.0	0	87-113		%REC	1	02/02/09 02:51 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Bromide	73.4	3.00	10.0		mg/L	10	02/04/09 11:03 AM
Chloride	19600	300	1000		mg/L	1000	02/05/09 10:50 AM
Sulfate	1460	100	300		mg/L	100	02/03/09 01:55 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: AAD		
Total Dissolved Solids (Residue, Filterable)	38300	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: MW-51
Lab ID: 0901170-17
Collection Date: 01/28/09 04:20 PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B			Analyst: JAW		
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 03:11 PM
Benzene	0.0456	0.000800	0.00200		mg/L	1	02/02/09 03:11 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 03:11 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 03:11 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 03:11 PM
Surr: a,a,a-Trifluorotoluene	94.3	0	87-113		%REC	1	02/02/09 03:11 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Bromide	84.6	3.00	10.0		mg/L	10	02/04/09 11:18 AM
Chloride	21200	300	1000		mg/L	1000	02/03/09 02:53 PM
Sulfate	1470	100	300		mg/L	100	02/03/09 02:10 PM
TOTAL DISSOLVED SOLIDS		M2540C			Analyst: AAD		
Total Dissolved Solids (Residue, Filterable)	36300	10.0	10.0		mg/L	1	02/04/09 03:50 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 17-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
Project No:
Lab Order: 0901170

Client Sample ID: Trip Blank
Lab ID: 0901170-18
Collection Date: 01/28/09 10:30 AM
Matrix: TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B				Analyst: JAW	
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 06:41 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/02/09 06:41 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 06:41 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 06:41 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 06:41 PM
Surr: a,a,a-Trifluorotoluene	94.4	0	87-113		%REC	1	02/02/09 06:41 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090202A

Sample ID: LCS-33252	Batch ID: 33252	TestNo: SW8021B	Units: mg/L
SampType: LCS	Run ID: GC8_090202A	Analysis Date: 2/2/2009 12:10:40 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0533	0.00600	0.0500	0	107	78	122			
Benzene	0.0518	0.00200	0.0500	0	104	81	125			
Toluene	0.0510	0.00600	0.0500	0	102	84	123			
Ethylbenzene	0.0506	0.00600	0.0500	0	101	83	119			
Xylenes, Total	0.150	0.00900	0.150	0	100	81	117			
Surr: a,a,a-Trifluorotoluene	189		200.0		94.3	87	113			

Sample ID: MB-33252	Batch ID: 33252	TestNo: SW8021B	Units: mg/L
SampType: MBLK	Run ID: GC8_090202A	Analysis Date: 2/2/2009 12:30:16 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	0.00600								
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	193		200.0		96.4	87	113			

Sample ID: 0901170-13AMS	Batch ID: 33252	TestNo: SW8021B	Units: mg/L
SampType: MS	Run ID: GC8_090202A	Analysis Date: 2/2/2009 7:20:14 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0598	0.00600	0.0500	0	120	78	122			
Benzene	0.0534	0.00200	0.0500	0	107	81	125			
Toluene	0.0527	0.00600	0.0500	0	105	84	123			
Ethylbenzene	0.0516	0.00600	0.0500	0	103	83	119			
Xylenes, Total	0.154	0.00900	0.150	0	103	81	117			
Surr: a,a,a-Trifluorotoluene	188		200.0		94.1	87	113			

Sample ID: 0901170-13AMSD	Batch ID: 33252	TestNo: SW8021B	Units: mg/L
SampType: MSD	Run ID: GC8_090202A	Analysis Date: 2/2/2009 7:39:45 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0604	0.00600	0.0500	0	121	78	122	0.969	20	
Benzene	0.0520	0.00200	0.0500	0	104	81	125	2.84	20	
Toluene	0.0514	0.00600	0.0500	0	103	84	123	2.50	20	
Ethylbenzene	0.0505	0.00600	0.0500	0	101	83	119	2.11	20	
Xylenes, Total	0.151	0.00900	0.150	0	100	81	117	2.18	20	
Surr: a,a,a-Trifluorotoluene	185		200.0		92.3	87	113	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090202A

Sample ID: 0901154-05AMS	Batch ID: 33252	TestNo: SW8021B	Units: mg/L
SampType: MS	Run ID: GC8_090202A	Analysis Date: 2/2/2009 9:57:54 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0537	0.00600	0.0500	0	107	78	122			
Benzene	0.0527	0.00200	0.0500	0	105	81	125			
Toluene	0.0521	0.00600	0.0500	0	104	84	123			
Ethylbenzene	0.0515	0.00600	0.0500	0	103	83	119			
Xylenes, Total	0.153	0.00900	0.150	0	102	81	117			
Surr: a,a,a-Trifluorotoluene	189		200.0		94.6	87	113			

Sample ID: 0901154-05AMSD	Batch ID: 33252	TestNo: SW8021B	Units: mg/L
SampType: MSD	Run ID: GC8_090202A	Analysis Date: 2/2/2009 10:17:44 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0535	0.00600	0.0500	0	107	78	122	0.340	20	
Benzene	0.0523	0.00200	0.0500	0	105	81	125	0.653	20	
Toluene	0.0518	0.00600	0.0500	0	104	84	123	0.535	20	
Ethylbenzene	0.0512	0.00600	0.0500	0	102	83	119	0.566	20	
Xylenes, Total	0.152	0.00900	0.150	0	101	81	117	0.981	20	
Surr: a,a,a-Trifluorotoluene	191		200.0		95.4	87	113	0	0	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090202A

Sample ID: ICV-090202	Batch ID: R41670	TestNo: SW8021B	Units: mg/L							
SampType: ICV	Run ID: GC8_090202A	Analysis Date: 2/2/2009 11:51:07 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.101	0.00600	0.100	0	101	80	120			
Benzene	0.102	0.00200	0.100	0	102	85	115			
Toluene	0.0998	0.00600	0.100	0	99.8	85	115			
Ethylbenzene	0.0988	0.00600	0.100	0	98.8	85	115			
Xylenes, Total	0.294	0.00900	0.300	0	97.9	85	115			
Surr: a,a,a-Trifluorotoluene	192		200.0		96.2	87	113			

Sample ID: CCV1-090202	Batch ID: R41670	TestNo: SW8021B	Units: mg/L							
SampType: CCV	Run ID: GC8_090202A	Analysis Date: 2/2/2009 3:49:38 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0520	0.00600	0.0500	0	104	80	120			
Benzene	0.0531	0.00200	0.0500	0	106	85	115			
Toluene	0.0523	0.00600	0.0500	0	105	85	115			
Ethylbenzene	0.0519	0.00600	0.0500	0	104	85	115			
Xylenes, Total	0.154	0.00900	0.150	0	103	85	115			
Surr: a,a,a-Trifluorotoluene	191		200.0		95.7	87	113			

Sample ID: CCV2-090202	Batch ID: R41670	TestNo: SW8021B	Units: mg/L							
SampType: CCV	Run ID: GC8_090202A	Analysis Date: 2/2/2009 9:18:44 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0493	0.00600	0.0500	0	98.6	80	120			
Benzene	0.0513	0.00200	0.0500	0	103	85	115			
Toluene	0.0506	0.00600	0.0500	0	101	85	115			
Ethylbenzene	0.0502	0.00600	0.0500	0	100	85	115			
Xylenes, Total	0.149	0.00900	0.150	0	99.4	85	115			
Surr: a,a,a-Trifluorotoluene	192		200.0		95.8	87	113			

Sample ID: CCV3-090202	Batch ID: R41670	TestNo: SW8021B	Units: mg/L							
SampType: CCV	Run ID: GC8_090202A	Analysis Date: 2/2/2009 10:58:11 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0520	0.00600	0.0500	0	104	80	120			
Benzene	0.0514	0.00200	0.0500	0	103	85	115			
Toluene	0.0509	0.00600	0.0500	0	102	85	115			
Ethylbenzene	0.0505	0.00600	0.0500	0	101	85	115			
Xylenes, Total	0.150	0.00900	0.150	0	99.9	85	115			
Surr: a,a,a-Trifluorotoluene	190		200.0		94.9	87	113			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090211A

Sample ID: LCS-33424	Batch ID: 33424	TestNo: SW8021B	Units: mg/L
SampType: LCS	Run ID: GC8_090211A	Analysis Date: 2/11/2009 7:55:17 PM	Prep Date: 2/11/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0555	0.00600	0.0500	0	111	78	122			
Benzene	0.0541	0.00200	0.0500	0	108	81	125			
Toluene	0.0533	0.00600	0.0500	0	107	84	123			
Ethylbenzene	0.0528	0.00600	0.0500	0	106	83	119			
Xylenes, Total	0.156	0.00900	0.150	0	104	81	117			
Surr: a,a,a-Trifluorotoluene	188		200.0		94.1	87	113			

Sample ID: MB-33424	Batch ID: 33424	TestNo: SW8021B	Units: mg/L
SampType: MBLK	Run ID: GC8_090211A	Analysis Date: 2/11/2009 8:14:10 PM	Prep Date: 2/11/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	0.00600								
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	192		200.0		96.0	87	113			

Sample ID: 0901170-12AMS	Batch ID: 33424	TestNo: SW8021B	Units: mg/L
SampType: MS	Run ID: GC8_090211A	Analysis Date: 2/11/2009 8:51:49 PM	Prep Date: 2/11/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0588	0.00600	0.0500	0	118	78	122			
Benzene	0.0535	0.00200	0.0500	0	107	81	125			
Toluene	0.0529	0.00600	0.0500	0	106	84	123			
Ethylbenzene	0.0522	0.00600	0.0500	0	104	83	119			
Xylenes, Total	0.156	0.00900	0.150	0	104	81	117			
Surr: a,a,a-Trifluorotoluene	188		200.0		94.2	87	113			

Sample ID: 0901170-12AMSD	Batch ID: 33424	TestNo: SW8021B	Units: mg/L
SampType: MSD	Run ID: GC8_090211A	Analysis Date: 2/11/2009 9:11:00 PM	Prep Date: 2/11/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0603	0.00600	0.0500	0	121	78	122	2.52	20	
Benzene	0.0533	0.00200	0.0500	0	107	81	125	0.425	20	
Toluene	0.0527	0.00600	0.0500	0	105	84	123	0.386	20	
Ethylbenzene	0.0519	0.00600	0.0500	0	104	83	119	0.517	20	
Xylenes, Total	0.155	0.00900	0.150	0	103	81	117	0.437	20	
Surr: a,a,a-Trifluorotoluene	184		200.0		91.9	87	113	0	0	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090211A

Sample ID: ICV-090211	Batch ID: R41823	TestNo: SW8021B	Units: mg/L
SampType: ICV	Run ID: GC8_090211A	Analysis Date: 2/11/2009 7:36:18 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.104	0.00600	0.100	0	104	80	120			
Benzene	0.103	0.00200	0.100	0	103	85	115			
Toluene	0.102	0.00600	0.100	0	102	85	115			
Ethylbenzene	0.101	0.00600	0.100	0	101	85	115			
Xylenes, Total	0.300	0.00900	0.300	0	100	85	115			
Surr: a,a,a-Trifluorotoluene	192		200.0		95.8	87	113			

Sample ID: CCV1-090211	Batch ID: R41823	TestNo: SW8021B	Units: mg/L
SampType: CCV	Run ID: GC8_090211A	Analysis Date: 2/11/2009 9:29:54 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0534	0.00600	0.0500	0	107	80	120			
Benzene	0.0529	0.00200	0.0500	0	106	85	115			
Toluene	0.0524	0.00600	0.0500	0	105	85	115			
Ethylbenzene	0.0517	0.00600	0.0500	0	103	85	115			
Xylenes, Total	0.153	0.00900	0.150	0	102	85	115			
Surr: a,a,a-Trifluorotoluene	184		200.0		91.9	87	113			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090212B

Sample ID: LCS-33450	Batch ID: 33450	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC_090212B	Analysis Date: 2/12/2009 12:47:02 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.2	1.00	20.00	0	106	90	110			
Chloride	10.7	1.00	10.00	0	107	90	110			
Sulfate	31.5	3.00	30.00	0	105	90	110			

Sample ID: LCSD-33450	Batch ID: 33450	TestNo: E300	Units: mg/L
SampType: LCSD	Run ID: IC_090212B	Analysis Date: 2/12/2009 1:02:44 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.4	1.00	20.00	0	107	90	110	0.915	20	
Chloride	10.8	1.00	10.00	0	108	90	110	0.907	20	
Sulfate	31.8	3.00	30.00	0	106	90	110	0.951	20	

Sample ID: MB-33450	Batch ID: 33450	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC_090212B	Analysis Date: 2/12/2009 1:18:27 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID: 0901170-12B MS	Batch ID: 33450	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC_090212B	Analysis Date: 2/12/2009 2:23:06 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	21600	1000	10000	11000	106	90	110			

Sample ID: 0901170-12B MSD	Batch ID: 33450	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC_090212B	Analysis Date: 2/12/2009 2:38:48 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	21600	1000	10000	11000	106	90	110	0.0361	20	

Sample ID: 0901170-12B MS	Batch ID: 33450	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC_090212B	Analysis Date: 2/12/2009 3:10:13 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	4290	300	3000	1161	104	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090212B

Sample ID: 0901170-12B MSD	Batch ID: 33450	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC_090212B	Analysis Date: 2/12/2009 3:25:53 PM	Prep Date: 2/12/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	4300	300	3000	1161	105	90	110	0.181	20	

Sample ID: 0901170-12B MS	Batch ID: 33450	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC_090212B	Analysis Date: 2/12/2009 4:28:41 PM	Prep Date: 2/12/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	250	10.0	200.0	23.78	113	90	110			S

Sample ID: 0901170-12B MSD	Batch ID: 33450	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC_090212B	Analysis Date: 2/12/2009 4:44:23 PM	Prep Date: 2/12/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	252	10.0	200.0	23.78	114	90	110	0.572	20	S

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090212B

Sample ID: ICV-090212	Batch ID: R41836	TestNo: E300	Units: mg/L
SampType: ICV	Run ID: IC_090212B	Analysis Date: 2/12/2009 9:30:14 AM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	54.0	1.00	50.00	0	108	90	110			
Chloride	27.1	1.00	25.00	0	109	90	110			
Sulfate	80.1	3.00	75.00	0	107	90	110			

Sample ID: CCV1-090212	Batch ID: R41836	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC_090212B	Analysis Date: 2/12/2009 12:25:30 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.4	1.00	20.00	0	107	90	110			
Chloride	10.8	1.00	10.00	0	108	90	110			
Sulfate	31.8	3.00	30.00	0	106	90	110			

Sample ID: CCV2-090212	Batch ID: R41836	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC_090212B	Analysis Date: 2/12/2009 4:12:59 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.2	1.00	20.00	0	106	90	110			
Chloride	10.8	1.00	10.00	0	108	90	110			
Sulfate	31.5	3.00	30.00	0	105	90	110			

Sample ID: CCV3-090212	Batch ID: R41836	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC_090212B	Analysis Date: 2/12/2009 5:15:48 PM	Prep Date: 2/12/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.3	1.00	20.00	0	106	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090202A

Sample ID: LCS-33262	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC2_090202A	Analysis Date: 2/2/2009 9:30:10 AM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	18.7	1.00	20.00	0	93.7	90	110			
Chloride	9.22	1.00	10.00	0	92.2	90	110			
Sulfate	28.3	3.00	30.00	0	94.2	90	110			

Sample ID: LCSD-33262	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: LCSD	Run ID: IC2_090202A	Analysis Date: 2/2/2009 9:44:50 AM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.1	1.00	20.00	0	95.3	90	110	1.75	20	
Chloride	9.34	1.00	10.00	0	93.4	90	110	1.28	20	
Sulfate	28.7	3.00	30.00	0	95.8	90	110	1.66	20	

Sample ID: MB-33262	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC2_090202A	Analysis Date: 2/2/2009 9:59:31 AM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID: 0901170-01AMS	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC2_090202A	Analysis Date: 2/2/2009 12:05:01 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	367	10.0	100.0	263.8	104	90	110			
Sulfate	486	30.0	300.0	189.8	98.7	90	110			

Sample ID: 0901170-01AMSD	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC2_090202A	Analysis Date: 2/2/2009 12:18:44 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	368	10.0	100.0	263.8	104	90	110	0.188	20	
Sulfate	486	30.0	300.0	189.8	98.7	90	110	0.00309	20	

Sample ID: 0901170-01A MS	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC2_090202A	Analysis Date: 2/2/2009 5:02:22 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.1	1.00	20.00	1.170	94.7	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090202A

Sample ID: 0901170-01A MSD	Batch ID: 33262	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC2_090202A	Analysis Date: 2/2/2009 5:17:02 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.4	1.00	20.00	1.170	96.1	90	110	1.37	20	

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090202A

Sample ID: ICV-090202	Batch ID: R41641	TestNo: E300	Units: mg/L
SampType: ICV	Run ID: IC2_090202A	Analysis Date: 2/2/2009 9:11:24 AM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	50.1	1.00	50.00	0	100	90	110			
Chloride	24.9	1.00	25.00	0	99.5	90	110			
Sulfate	75.5	3.00	75.00	0	101	90	110			

Sample ID: CCV1-090202	Batch ID: R41641	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_090202A	Analysis Date: 2/2/2009 12:33:25 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.3	1.00	20.00	0	96.7	90	110			
Chloride	9.49	1.00	10.00	0	94.9	90	110			
Sulfate	29.0	3.00	30.00	0	96.7	90	110			

Sample ID: CCV2-090202	Batch ID: R41641	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_090202A	Analysis Date: 2/2/2009 3:30:47 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.3	1.00	20.00	0	96.7	90	110			
Chloride	9.51	1.00	10.00	0	95.1	90	110			
Sulfate	29.1	3.00	30.00	0	97.1	90	110			

Sample ID: CCV3-090202	Batch ID: R41641	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_090202A	Analysis Date: 2/2/2009 6:45:05 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.5	1.00	20.00	0	97.4	90	110			
Chloride	9.86	1.00	10.00	0	98.6	90	110			
Sulfate	29.5	3.00	30.00	0	98.5	90	110			

Sample ID: CCV4-090202	Batch ID: R41641	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_090202A	Analysis Date: 2/2/2009 8:27:49 PM	Prep Date: 2/2/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.5	1.00	20.00	0	97.3	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090203A

Sample ID: LCS-33278	Batch ID: 33278	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC2_090203A	Analysis Date: 2/3/2009 9:47:46 AM	Prep Date: 2/3/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.7	1.00	20.00	0	98.6	90	110			
Chloride	9.59	1.00	10.00	0	95.9	90	110			
Sulfate	29.6	3.00	30.00	0	98.6	90	110			

Sample ID: LCSD-33278	Batch ID: 33278	TestNo: E300	Units: mg/L
SampType: LCSD	Run ID: IC2_090203A	Analysis Date: 2/3/2009 10:02:26 AM	Prep Date: 2/3/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.6	1.00	20.00	0	98.2	90	110	0.321	20	
Chloride	9.57	1.00	10.00	0	95.7	90	110	0.173	20	
Sulfate	29.5	3.00	30.00	0	98.2	90	110	0.367	20	

Sample ID: MB-33278	Batch ID: 33278	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC2_090203A	Analysis Date: 2/3/2009 10:17:06 AM	Prep Date: 2/3/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID: 0901170-13BMS	Batch ID: 33278	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC2_090203A	Analysis Date: 2/3/2009 12:24:29 PM	Prep Date: 2/3/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	220	10.0	200.0	6.696	107	90	110			

Sample ID: 0901170-13BMSD	Batch ID: 33278	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC2_090203A	Analysis Date: 2/3/2009 12:39:09 PM	Prep Date: 2/3/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	220	10.0	200.0	6.696	107	90	110	0.110	20	

Sample ID: 0901170-13BMS	Batch ID: 33278	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC2_090203A	Analysis Date: 2/3/2009 3:13:21 PM	Prep Date: 2/3/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	4190	300	3000	1112	103	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090203A

Sample ID: 0901170-13BMSD	Batch ID: 33278	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC2_090203A	Analysis Date: 2/3/2009 3:28:01 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	4230	300	3000	1112	104	90	110	0.878	20	

Sample ID: 0901170-13BMS	Batch ID: 33278	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC2_090203A	Analysis Date: 2/3/2009 3:41:50 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	21000	1000	10000	9960	110	90	110			

Sample ID: 0901170-13BMSD	Batch ID: 33278	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC2_090203A	Analysis Date: 2/3/2009 3:56:31 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	20900	1000	10000	9960	110	90	110	0.301	20	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090203A

Sample ID: ICV-090203	Batch ID: R41687	TestNo: E300	Units: mg/L							
SampType: ICV	Run ID: IC2_090203A	Analysis Date: 2/3/2009 9:21:50 AM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	50.3	1.00	50.00	0	101	90	110			
Chloride	24.9	1.00	25.00	0	99.5	90	110			
Sulfate	76.2	3.00	75.00	0	102	90	110			

Sample ID: CCV1-090203	Batch ID: R41687	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_090203A	Analysis Date: 2/3/2009 1:08:31 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.6	1.00	20.00	0	98.2	90	110			
Chloride	9.79	1.00	10.00	0	97.9	90	110			
Sulfate	29.7	3.00	30.00	0	98.9	90	110			

Sample ID: CCV2-090203	Batch ID: R41687	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_090203A	Analysis Date: 2/3/2009 4:11:11 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.6	1.00	20.00	0	98.1	90	110			
Chloride	9.59	1.00	10.00	0	95.9	90	110			
Sulfate	29.5	3.00	30.00	0	98.3	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090204A

Sample ID: ICV-090204	Batch ID: R41702	TestNo: E300	Units: mg/L
SampType: ICV	Run ID: IC2_090204A	Analysis Date: 2/4/2009 9:12:26 AM	Prep Date: 2/4/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	49.5	1.00	50.00	0	98.9	90	110			
Chloride	24.5	1.00	25.00	0	98.1	90	110			
Sulfate	75.4	3.00	75.00	0	101	90	110			

Sample ID: CCV1-090204	Batch ID: R41702	TestNo: E300	Units: mg/L
SampType: CCV	Run ID: IC2_090204A	Analysis Date: 2/4/2009 12:17:19 PM	Prep Date: 2/4/2009

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.2	1.00	20.00	0	95.9	90	110			
Chloride	9.46	1.00	10.00	0	94.6	90	110			
Sulfate	29.0	3.00	30.00	0	96.7	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090205A

Sample ID: ICV-090205	Batch ID: R41725	TestNo: E300	Units: mg/L							
SampType: ICV	Run ID: IC2_090205A	Analysis Date: 2/5/2009 9:22:52 AM	Prep Date: 2/5/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.6	1.00	25.00	0	98.6	90	110			
Sulfate	75.6	3.00	75.00	0	101	90	110			

Sample ID: CCV1-090205	Batch ID: R41725	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_090205A	Analysis Date: 2/5/2009 11:13:53 AM	Prep Date: 2/5/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.33	1.00	10.00	0	93.3	90	110			
Sulfate	28.7	3.00	30.00	0	95.7	90	110			

Sample ID: CCV2-090205	Batch ID: R41725	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_090205A	Analysis Date: 2/5/2009 3:06:21 PM	Prep Date: 2/5/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.62	1.00	10.00	0	96.2	90	110			
Sulfate	28.9	3.00	30.00	0	96.2	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090203B

Sample ID: MB-33297	Batch ID: 33297	TestNo: M2540C	Units: mg/L							
SampType: MBLK	Run ID: WC_090203B	Analysis Date: 2/3/2009 4:30:00 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		ND	10.0							

Sample ID: LCS-33297	Batch ID: 33297	TestNo: M2540C	Units: mg/L							
SampType: LCS	Run ID: WC_090203B	Analysis Date: 2/3/2009 4:30:00 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		753	10.0	745.6	0	101	90	113		

Sample ID: 0901170-06A-DUP	Batch ID: 33297	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_090203B	Analysis Date: 2/3/2009 4:30:00 PM	Prep Date: 2/3/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		14800	10.0	0	14810			0.169	5	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
Work Order: 0901170
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090204A

Sample ID: MB-33333	Batch ID: 33333	TestNo: M2540C	Units: mg/L
SampType: MBLK	Run ID: WC_090204A	Analysis Date: 2/4/2009 3:50:00 PM	Prep Date: 2/4/2009
Analyte	Result	RL	SPK value
Ref Val	%REC	LowLimit	HighLimit
%RPD	RPDLimit	Qual	

Total Dissolved Solids (Residue, Filtera ND 10.0

Sample ID: LCS-33333	Batch ID: 33333	TestNo: M2540C	Units: mg/L
SampType: LCS	Run ID: WC_090204A	Analysis Date: 2/4/2009 3:50:00 PM	Prep Date: 2/4/2009
Analyte	Result	RL	SPK value
Ref Val	%REC	LowLimit	HighLimit
%RPD	RPDLimit	Qual	

Total Dissolved Solids (Residue, Filtera 782 10.0 745.6 0 105 90 113

Sample ID: 0901170-13B-DUP	Batch ID: 33333	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_090204A	Analysis Date: 2/4/2009 3:50:00 PM	Prep Date: 2/4/2009
Analyte	Result	RL	SPK value
Ref Val	%REC	LowLimit	HighLimit
%RPD	RPDLimit	Qual	

Total Dissolved Solids (Residue, Filtera 35500 10.0 0 34820 1.99 5

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090213A

Sample ID: MB-33478	Batch ID: 33478	TestNo: M2540C	Units: mg/L							
SampType: MBLK	Run ID: WC_090213A	Analysis Date: 2/13/2009 4:00:00 AM	Prep Date: 2/13/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera	ND	10.0
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Sample ID: LCS-33478	Batch ID: 33478	TestNo: M2540C	Units: mg/L							
SampType: LCS	Run ID: WC_090213A	Analysis Date: 2/13/2009 4:00:00 AM	Prep Date: 2/13/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera	711	10.0	745.6	0	95.4	90	113
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Sample ID: 0901170-12B-DUP	Batch ID: 33478	TestNo: M2540C	Units: mg/L							
SampType: DUP	Run ID: WC_090213A	Analysis Date: 2/13/2009 4:00:00 AM	Prep Date: 2/13/2009							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera	32400	10.0	0	32840				1.35	5
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Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: INTERA Inc.
 Work Order: 0901170
 Project: Dugout Creek

MQL SUMMARY REPORT

TestNo: E300	MDL	ML
Analyte	mg/L	mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Sulfate	1.00	3.00

TestNo: SW8021B	MDL	ML
Analyte	mg/L	mg/L
Methyl tert-butyl ether	0.00200	0.00600
Benzene	0.000800	0.00200
Toluene	0.00200	0.00600
Ethylbenzene	0.00200	0.00600
Xylenes, Total	0.00300	0.00900

TestNo: M2540C	MDL	ML
Analyte	mg/L	mg/L
Total Dissolved Solids (Residue, Filt	10.0	10.0

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
 MDL -Method Detection Limit as defined by TRRP

Data Review Checklist

Client/Project: RRC / <i>Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method: <i>Anions - 300</i>		Matrix: <i>Water</i>
Work Order No.: <i>0901173</i>				
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?	✓		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?		✓	<i>SPL was elevated due to dilution for Pharon seep, mw-D-7, mw-D-5, mw-D-4, mw-D-2, mw-D-3 and mw-D-3 was detected in diluted samples. There was no effect on data quality.</i>
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?	✓		
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?	✓		
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		<i>Duplicate pairs: 01 Ryan Seep / BS Seep</i>

no sample mw-D-01, Fina-01, -D-4, mw-D-2, for Br. Analyte samples. There

Data Review Checklist (continued)

Client/Project: RRC / Dogout Creek		Reviewer: L. Price		Review Date: 3/16/09
Laboratory: DHL Work Order No.: 0901173		Analytical Method: Anions - 300		Matrix: Water
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?			NA
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		
15	Are MS/MSD recoveries and RPDs within limits?	✓		
16	Are surrogate recoveries within limits (organic analyses only)?			NA
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments:

Data Review Checklist

Client/Project: <i>RRC / Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method: <i>VOCs - SW 8021 B</i>		Matrix: <i>Water</i>
Work Order No.: <i>0901173</i>				
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
Sample Preservation and Integrity				
1	Did samples arrive at the laboratory appropriately preserved (e.g., 4°C, correct acid added to sample)?	✓		
2	Were holding times met?	✓		
Data Completeness				
3	Are results reported for all target analytes, with no additional analytes?	✓		
4	Was the requested analytical method followed?	✓		
5	Do reported detection limits (or reporting limits) agree with the project specifications (QAPP)?	✓		
6	Are results reported for all samples submitted for analysis?	✓		
Calibration and QC Sample Frequency				
7	Were initial and continuing instrument calibration analyses performed? And reported? ^a	✓		
8	For each analytical batch, are results provided for a method blank?	✓		
9	For each analytical batch, are results provided for an LCS/LCSD pair?		✓	<i>ONLY LCS provided. CV/CCV + ms/msd in control. No effect on data quality.</i>
10	For each analytical/preparation batch, are results provided for an MS/MSD pair? Alternately, are results for MS/MSD pairs provided for every 20 field samples analyzed?	✓		
11	Are field duplicate results provided at the project-specified (QAPP) frequency?	✓		

Data Review Checklist (continued)

Client/Project: <i>RRC / Dugout Creek</i>		Reviewer: <i>L. Price</i>		Review Date: <i>3/16/09</i>
Laboratory: <i>DHL</i>		Analytical Method:		Matrix:
Work Order No.: <i>0901173</i>		<i>VOCs 8021</i>		<i>Water</i>
#	Review Item or Question	Yes	No	Comments (List Exceptions, Explanations, etc.)
12	Organic Analyses Only: For each sample (field and QC), are surrogate spike results provided?	✓		
QC Results				
13	Do method blank results show no detectable concentrations of target analytes (i.e., results = ND)?	✓		
14	Are LCS/LCSD recoveries and RPDs within limits?	✓		<i>No LCSD provided</i>
15	Are MS/MSD recoveries and RPDs within limits?	✓		
16	Are surrogate recoveries within limits (organic analyses only)?	✓		
Other Data Quality-Related Issues				
17	The laboratory did not issue any CARs. If this is not true (a CAR was issued), describe impact on sample results.	✓		
18	The analyst did not describe any analytical anomalies. If this is not true, describe potential impact to sample results.	✓		
19	No other potential data quality issues were identified. If this is not true, describe issues.	✓		

^a The laboratory will not be required to report all calibration results. Data validation efforts for this project will assume that the laboratory performed the method-specified calibration analyses.

CAR = Corrective Action Report

LCS/LCSD = Laboratory Control Sample/Duplicate Laboratory Control Sample

MS/MSD = Matrix Spike/Matrix Spike Duplicate

QAPP = Quality Assurance Project Plan

RPD = Relative Percent Difference

Further Comments:



February 06, 2009

Barbara Rigney
INTERA Inc.
1812 Centre Creek Dr. #300
Austin, Texas 78754

TEL: (512) 425-2097
FAX: (512) 425-2099

Order No.: 0901173

RE: Dugout Creek

Dear Barbara Rigney:

DHL Analytical received 15 sample(s) on 1/30/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08A-TX



TABLE OF CONTENTS

This report for INTERA Inc.: Dugout Creek (DHL Work Order 0901173) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, FedEx slip (if used), log-in checklist	3-4
• Laboratory Data Package Signature Page	5
• Laboratory Review Checklist	6-7
• Case Narrative	8
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• Analytical Dates Report	12-13
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February 6, 2009

Approved: _____

A handwritten signature in black ink, appearing to read "John DuPont", written over a horizontal line.

John DuPont

Sample Receipt Checklist

Client Name INTERA Inc.
Work Order Number 0901173

Date Received: 1/30/2009
Received by JB

Checklist completed by: [Signature] 1/30/09
Signature Date

Reviewed by: [Initials] 1/30/09
Initials Date

Carrier name: Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 2.1 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted Intera Date contacted: 1-30-09 Person contacted Barbara

Contacted by: [Signature] Regarding: Sample IDs

Comments: Per Barbara, follows the COC sample IDs.

Corrective Action Logged it per clients request.

Laboratory Data Package Signature Page

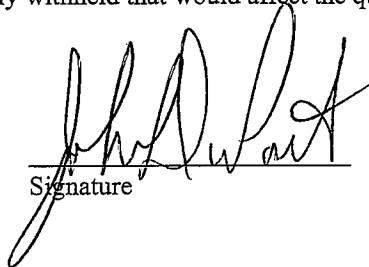
This data package consists of:

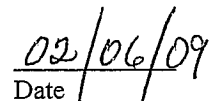
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature


Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Dugout Creek		Date: 2/5/2009					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order: 0901173					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Dugout Creek		Date: 2/5/2009					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order: 0901173					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?			X		
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: INTERA Inc.
Project: Dugout Creek
Lab Order: 0901173

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

- Method SW8021B - Volatile Organics by GC
- Method E300 - Anions by IC method - Water

Exception Report R1-01

A total of 15 samples were received and logged-in on 1/30/2009. The samples arrived in good condition and were properly packaged.

CLIENT: INTERA Inc.
Project: Dugout Creek
LabOrder: 0901173**Work Order Sample Summary**

LabSmpID	ClientSampleID	TagNumber	DateCollected	DateRecved
0901173-01	FINA-01		01/29/0909:50AM	1/30/2009
0901173-02	TripBlank		01/29/0910:10AM	1/30/2009
0901173-03	MW-P-9		01/29/0911:29AM	1/30/2009
0901173-04	O'Ryan Seep		01/29/0901:05PM	1/30/2009
0901173-05	BS Seep		01/29/0901:20PM	1/30/2009
0901173-06	Pharaoh Seep		01/29/0901:45PM	1/30/2009
0901173-07	MW-D-01		01/29/0902:34PM	1/30/2009
0901173-08	MW-D-8		01/29/0909:33AM	1/30/2009
0901173-09	MW-D-7		01/29/0910:20AM	1/30/2009
0901173-10	MW-D-6		01/29/0911:15AM	1/30/2009
0901173-11	MW-D-5		01/29/0912:05PM	1/30/2009
0901173-12	MW-D-4		01/29/0912:45PM	1/30/2009
0901173-13	MW-D-2		01/29/0901:25PM	1/30/2009
0901173-14	MW-07-3		01/29/0801:55PM	1/30/2009
0901173-15	MW-D-3		01/29/0902:57PM	1/30/2009

DHL Analytical

06-Feb-09

LabOrder: 0901173
 Client: INTERA Inc.
 Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901173-01A	FINA-01	01/29/09 09:50 AM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901173-01B	FINA-01	01/29/09 09:50 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	FINA-01	01/29/09 09:50 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	FINA-01	01/29/09 09:50 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-02A	Trip Blank	01/29/09 10:10 AM	Trip Blank	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901173-03A	MW-P-9	01/29/09 11:29 AM	Aqueous	SW5030B	Purge and Trap Water GC	02/02/09 09:02 AM	33252
0901173-03B	MW-P-9	01/29/09 11:29 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-P-9	01/29/09 11:29 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-04A	O'Ryan Seep	01/29/09 01:05 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	O'Ryan Seep	01/29/09 01:05 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-05A	BS Seep	01/29/09 01:20 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	BS Seep	01/29/09 01:20 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-06A	Pharaoh Seep	01/29/09 01:45 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	Pharaoh Seep	01/29/09 01:45 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	Pharaoh Seep	01/29/09 01:45 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-07A	MW-D-01	01/29/09 02:34 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-01	01/29/09 02:34 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-01	01/29/09 02:34 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-08A	MW-D-8	01/29/09 09:33 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-8	01/29/09 09:33 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-09A	MW-D-7	01/29/09 10:20 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-7	01/29/09 10:20 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-7	01/29/09 10:20 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-10A	MW-D-6	01/29/09 11:15 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-6	01/29/09 11:15 AM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
0901173-11A	MW-D-5	01/29/09 12:05 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-5	01/29/09 12:05 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279
	MW-D-5	01/29/09 12:05 PM	Aqueous	E300	Anion Preparation	02/03/09 08:30 AM	33279

DHL Analytical

06-Feb-09

LabOrder: 0901173
Client: INTERA Inc.
Project: Dugout Creek

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901173-12A	MW-D-4	01/29/09 12:45 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-4	01/29/09 12:45 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-4	01/29/09 12:45 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
0901173-13A	MW-D-2	01/29/09 01:25 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-2	01/29/09 01:25 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-2	01/29/09 01:25 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-2	01/29/09 01:25 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-2	01/29/09 01:25 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
0901173-14A	MW-07-3	01/29/08 01:55 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-07-3	01/29/08 01:55 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-07-3	01/29/08 01:55 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-3	01/29/09 02:57 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-3	01/29/09 02:57 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-3	01/29/09 02:57 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-3	01/29/09 02:57 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317
	MW-D-3	01/29/09 02:57 PM	Aqueous	E300	Anion Preparation	02/04/09 08:30 AM	33317

DHL Analytical

06-Feb-09

LabOrder: 0901173
 Client: INTERA Inc.
 Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901173-01A	FINA-01	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 12:55 PM	GC8_090202A
0901173-01B	FINA-01	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 10:44 AM	IC_090203A
	FINA-01	Aqueous	E300	Anions by IC method - Water	33279	1000	02/03/09 01:20 PM	IC_090203A
	FINA-01	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 08:14 PM	IC_090203A
0901173-02A	Trip Blank	Trip Blank	SW8021B	Volatile Organics by GC	33252	1	02/02/09 07:00 PM	GC8_090202A
0901173-03A	MW-P-9	Aqueous	SW8021B	Volatile Organics by GC	33252	1	02/02/09 01:14 PM	GC8_090202A
0901173-03B	MW-P-9	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 12:02 PM	IC_090203A
	MW-P-9	Aqueous	E300	Anions by IC method - Water	33279	1	02/03/09 04:59 PM	IC_090203A
	O'Ryan Seep	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 11:15 AM	IC_090203A
0901173-04A	O'Ryan Seep	Aqueous	E300	Anions by IC method - Water	33279	1	02/03/09 05:44 PM	IC_090203A
0901173-05A	BS Seep	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 11:31 AM	IC_090203A
	BS Seep	Aqueous	E300	Anions by IC method - Water	33279	1	02/03/09 05:59 PM	IC_090203A
0901173-06A	Pharaoh Seep	Aqueous	E300	Anions by IC method - Water	33279	1000	02/03/09 01:36 PM	IC_090203A
	Pharaoh Seep	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 06:13 PM	IC_090203A
	Pharaoh Seep	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 11:47 AM	IC_090203A
0901173-07A	MW-D-01	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 01:51 PM	IC_090203A
	MW-D-01	Aqueous	E300	Anions by IC method - Water	33279	1000	02/03/09 02:25 PM	IC_090203A
	MW-D-01	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 06:28 PM	IC_090203A
0901173-08A	MW-D-8	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 03:26 PM	IC_090203A
	MW-D-8	Aqueous	E300	Anions by IC method - Water	33279	1	02/03/09 06:43 PM	IC_090203A
0901173-09A	MW-D-7	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 07:27 PM	IC_090203A
	MW-D-7	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 02:41 PM	IC_090203A
	MW-D-7	Aqueous	E300	Anions by IC method - Water	33279	1000	02/03/09 03:41 PM	IC_090203A
0901173-10A	MW-D-6	Aqueous	E300	Anions by IC method - Water	33279	1	02/03/09 07:42 PM	IC_090203A
	MW-D-6	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 02:55 PM	IC_090203A
0901173-11A	MW-D-5	Aqueous	E300	Anions by IC method - Water	33279	100	02/03/09 03:10 PM	IC_090203A
	MW-D-5	Aqueous	E300	Anions by IC method - Water	33279	1000	02/03/09 04:28 PM	IC_090203A
	MW-D-5	Aqueous	E300	Anions by IC method - Water	33279	10	02/03/09 07:58 PM	IC_090203A

DHL Analytical

06-Feb-09

LabOrder: 0901173
 Client: INTERA Inc.
 Project: Dugout Creek

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901173-12A	MW-D-4	Aqueous	E300	Anions by IC method - Water	33317	100	02/04/09 10:44 AM	IC_090204A
	MW-D-4	Aqueous	E300	Anions by IC method - Water	33317	1000	02/04/09 11:46 AM	IC_090204A
	MW-D-4	Aqueous	E300	Anions by IC method - Water	33317	10	02/04/09 01:23 PM	IC_090204A
0901173-13A	MW-D-2	Aqueous	E300	Anions by IC method - Water	33317	1	02/04/09 02:42 PM	IC_090204A
	MW-D-2	Aqueous	E300	Anions by IC method - Water	33317	10	02/06/09 12:37 PM	IC_090206A
	MW-D-2	Aqueous	E300	Anions by IC method - Water	33317	100	02/06/09 11:26 AM	IC_090206A
	MW-D-2	Aqueous	E300	Anions by IC method - Water	33317	100	02/04/09 10:59 AM	IC_090204A
0901173-14A	MW-D-2	Aqueous	E300	Anions by IC method - Water	33317	1000	02/06/09 12:21 PM	IC_090206A
	MW-07-3	Aqueous	E300	Anions by IC method - Water	33317	100	02/04/09 11:15 AM	IC_090204A
	MW-07-3	Aqueous	E300	Anions by IC method - Water	33317	1000	02/04/09 12:52 PM	IC_090204A
	MW-07-3	Aqueous	E300	Anions by IC method - Water	33317	10	02/04/09 02:10 PM	IC_090204A
0901173-15A	MW-D-3	Aqueous	E300	Anions by IC method - Water	33317	10	02/06/09 12:52 PM	IC_090206A
	MW-D-3	Aqueous	E300	Anions by IC method - Water	33317	100	02/04/09 11:31 AM	IC_090204A
	MW-D-3	Aqueous	E300	Anions by IC method - Water	33317	1000	02/04/09 01:07 PM	IC_090204A
	MW-D-3	Aqueous	E300	Anions by IC method - Water	33317	10	02/04/09 02:26 PM	IC_090204A
	MW-D-3	Aqueous	E300	Anions by IC method - Water	33317	100	02/06/09 11:42 AM	IC_090206A
	MW-D-3	Aqueous	E300	Anions by IC method - Water	33317	1000	02/06/09 12:05 PM	IC_090206A

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: FINA-01
 LabID: 0901173-01
 Collection Date: 01/29/0909:50 AM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B		Analyst: JAW			
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 12:55 PM
Benzene	0.00752	0.000800	0.00200		mg/L	1	02/02/09 12:55 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 12:55 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 12:55 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 12:55 PM
Surr: a,a,a-Trifluorotoluene	90.2	0	87-113		%REC	1	02/02/09 12:55 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	103	3.00	10.0		mg/L	10	02/03/09 08:14 PM
Chloride	33900	300	1000		mg/L	1000	02/03/09 01:20 PM
Sulfate	1480	100	300		mg/L	100	02/03/09 10:44 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: TripBlank
LabID: 0901173-02
Collection Date: 01/29/09 10:10 AM
Matrix: TRIPBLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B		Analyst: JAW			
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 07:00 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/02/09 07:00 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 07:00 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 07:00 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 07:00 PM
Surr: a,a,a-Trifluorotoluene	94.6	0	87-113		%REC	1	02/02/09 07:00 PM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: MW-P-9
LabID: 0901173-03
Collection Date: 01/29/09 11:29 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC		SW8021B		Analyst: JAW			
Methyl tert-butyl ether	ND	0.00200	0.00600		mg/L	1	02/02/09 01:14 PM
Benzene	ND	0.000800	0.00200		mg/L	1	02/02/09 01:14 PM
Toluene	ND	0.00200	0.00600		mg/L	1	02/02/09 01:14 PM
Ethylbenzene	ND	0.00200	0.00600		mg/L	1	02/02/09 01:14 PM
Xylenes, Total	ND	0.00300	0.00900		mg/L	1	02/02/09 01:14 PM
Surr: a,a,a-Trifluorotoluene	93.3	0	87-113		%REC	1	02/02/09 01:14 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	1.23	0.300	1.00		mg/L	1	02/03/09 04:59 PM
Chloride	434	3.00	10.0		mg/L	10	02/03/09 12:02 PM
Sulfate	104	10.0	30.0		mg/L	10	02/03/09 12:02 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: O'Ryan Seep
LabID: 0901173-04
Collection Date: 01/29/0901:05PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	13.0	0.300	1.00		mg/L	1	02/03/09 05:44 PM
Chloride	1220	30.0	100		mg/L	100	02/03/09 11:15 AM
Sulfate	395	100	300		mg/L	100	02/03/09 11:15 AM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: BS Seep
 LabID: 0901173-05
 Collection Date: 01/29/09 01:20PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	13.5	0.300	1.00		mg/L	1	02/03/09 05:59 PM
Chloride	1220	30.0	100		mg/L	100	02/03/09 11:31 AM
Sulfate	378	100	300		mg/L	100	02/03/09 11:31 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: Pharaoh Seep
 LabID: 0901173-06
 Collection Date: 01/29/09 01:45 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	38.0	3.00	10.0		mg/L	10	02/03/09 06:13 PM
Chloride	16300	300	1000		mg/L	1000	02/03/09 01:36 PM
Sulfate	1100	100	300		mg/L	100	02/03/09 11:47 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: MW-D-01
LabID: 0901173-07
Collection Date: 01/29/09 02:34PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300					Analyst: JBC
Bromide	26.1	3.00	10.0		mg/L	10	02/03/09 06:28 PM
Chloride	10300	300	1000		mg/L	1000	02/03/09 02:25 PM
Sulfate	1490	100	300		mg/L	100	02/03/09 01:51 PM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: MW-D-8
 LabID: 0901173-08
 Collection Date: 01/29/09 09:33 AM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	1.09	0.300	1.00		mg/L	1	02/03/09 06:43 PM
Chloride	440	3.00	10.0		mg/L	10	02/03/09 03:26 PM
Sulfate	133	10.0	30.0		mg/L	10	02/03/09 03:26 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: MW-D-7
LabID: 0901173-09
Collection Date: 01/29/09 10:20 AM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	26.7	3.00	10.0		mg/L	10	02/03/09 07:27 PM
Chloride	10300	300	1000		mg/L	1000	02/03/09 03:41 PM
Sulfate	1770	100	300		mg/L	100	02/03/09 02:41 PM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: MW-D-6
 LabID: 0901173-10
 Collection Date: 01/29/09 11:15 AM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	6.96	0.300	1.00		mg/L	1	02/03/09 07:42 PM
Chloride	2980	30.0	100		mg/L	100	02/03/09 02:55 PM
Sulfate	1440	100	300		mg/L	100	02/03/09 02:55 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: MW-D-5
 LabID: 0901173-11
 CollectionDate: 01/29/09 12:05 PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Bromide	28.8	3.00	10.0		mg/L	10	02/03/09 07:58 PM
Chloride	10400	300	1000		mg/L	1000	02/03/09 04:28 PM
Sulfate	2000	100	300		mg/L	100	02/03/09 03:10 PM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: MW-D-4
LabID: 0901173-12
CollectionDate: 01/29/09 12:45PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY ICMETHOD-WATER		E300					Analyst: JBC
Bromide	29.8	3.00	10.0		mg/L	10	02/04/09 01:23 PM
Chloride	5720	300	1000		mg/L	1000	02/04/09 11:46 AM
Sulfate	2140	100	300		mg/L	100	02/04/09 10:44 AM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: MW-D-2
LabID: 0901173-13
Collection Date: 01/29/0901:25PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY ICMETHOD-WATER		E300		Analyst: JBC			
Bromide	13.3	3.00	10.0		mg/L	10	02/06/09 12:37 PM
Chloride	2970	300	1000		mg/L	1000	02/06/09 12:21 PM
Sulfate	3720	100	300		mg/L	100	02/06/09 11:26 AM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
Project: Dugout Creek
ProjectNo:
LabOrder: 0901173

Client Sample ID: MW-07-3
LabID: 0901173-14
CollectionDate: 01/29/0801:55PM
Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY ICMETHOD-WATER		E300		Analyst: JBC			
Bromide	68.8	3.00	10.0		mg/L	10	02/04/09 02:10 PM
Chloride	36800	300	1000		mg/L	1000	02/04/09 12:52 PM
Sulfate	3330	100	300		mg/L	100	02/04/09 11:15 AM

Qualifiers: ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: 06-Feb-09

CLIENT: INTERA Inc.
 Project: Dugout Creek
 ProjectNo:
 LabOrder: 0901173

Client Sample ID: MW-D-3
 LabID: 0901173-15
 CollectionDate: 01/29/0902:57PM
 Matrix: AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	DateAnalyzed
ANIONS BY ICMETHOD-WATER		E300					Analyst: JBC
Bromide	33.6	3.00	10.0		mg/L	10	02/06/09 12:52 PM
Chloride	10600	300	1000		mg/L	1000	02/06/09 12:05 PM
Sulfate	1770	100	300		mg/L	100	02/06/09 11:42 AM

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAC certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: INTERA Inc.
 Work Order: 0901173
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090202A

SampleID: LCS-33252	Batch D: 33252	TestNo: SW8021B	Units: mg/L
SampType: LCS	RunID: GC8_090202A	Analysis Date: 2/2/2009 12:10:40 PM	PrepDate: 2/2/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0533	0.00600	0.0500	0	107	78	122			
Benzene	0.0518	0.00200	0.0500	0	104	81	125			
Toluene	0.0510	0.00600	0.0500	0	102	84	123			
Ethylbenzene	0.0506	0.00600	0.0500	0	101	83	119			
Xylenes, Total	0.150	0.00900	0.150	0	100	81	117			
Surr: a,a,a-Trifluorotoluene	189		200.0		94.3	87	113			

SampleID: MB-33252	Batch D: 33252	TestNo: SW8021B	Units: mg/L
SampType: MBLK	RunID: GC8_090202A	Analysis Date: 2/2/2009 12:30:16 PM	PrepDate: 2/2/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	0.00600								
Benzene	ND	0.00200								
Toluene	ND	0.00600								
Ethylbenzene	ND	0.00600								
Xylenes, Total	ND	0.00900								
Surr: a,a,a-Trifluorotoluene	193		200.0		96.4	87	113			

SampleID: 0901170-13AMS	Batch D: 33252	TestNo: SW8021B	Units: mg/L
SampType: MS	RunID: GC8_090202A	Analysis Date: 2/2/2009 7:20:14 PM	PrepDate: 2/2/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0598	0.00600	0.0500	0	120	78	122			
Benzene	0.0534	0.00200	0.0500	0	107	81	125			
Toluene	0.0527	0.00600	0.0500	0	105	84	123			
Ethylbenzene	0.0516	0.00600	0.0500	0	103	83	119			
Xylenes, Total	0.154	0.00900	0.150	0	103	81	117			
Surr: a,a,a-Trifluorotoluene	188		200.0		94.1	87	113			

SampleID: 0901170-13AMSD	Batch D: 33252	TestNo: SW8021B	Units: mg/L
SampType: MSD	RunID: GC8_090202A	Analysis Date: 2/2/2009 7:39:45 PM	PrepDate: 2/2/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0604	0.00600	0.0500	0	121	78	122	0.969	20	
Benzene	0.0520	0.00200	0.0500	0	104	81	125	2.84	20	
Toluene	0.0514	0.00600	0.0500	0	103	84	123	2.50	20	
Ethylbenzene	0.0505	0.00600	0.0500	0	101	83	119	2.11	20	
Xylenes, Total	0.151	0.00900	0.150	0	100	81	117	2.18	20	
Surr: a,a,a-Trifluorotoluene	185		200.0		92.3	87	113	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901173
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090202A

SampleID: 0901154-05AMS	Batch D: 33252	TestNo: SW8021B	Units: mg/L
SampType: MS	RunID: GC8_090202A	Analysis Date: 2/2/2009 9:57:54 PM	PrepDate: 2/2/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl-tert-butyl ether	0.0537	0.00600	0.0500	0	107	78	122			
Benzene	0.0527	0.00200	0.0500	0	105	81	125			
Toluene	0.0521	0.00600	0.0500	0	104	84	123			
Ethylbenzene	0.0515	0.00600	0.0500	0	103	83	119			
Xylenes, Total	0.153	0.00900	0.150	0	102	81	117			
Surr: a,a,a-Trifluorotoluene	189		200.0		94.6	87	113			

SampleID: 0901154-05AMSD	Batch D: 33252	TestNo: SW8021B	Units: mg/L
SampType: MSD	RunID: GC8_090202A	Analysis Date: 2/2/2009 10:17:44 PM	PrepDate: 2/2/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0535	0.00600	0.0500	0	107	78	122	0.340	20	
Benzene	0.0523	0.00200	0.0500	0	105	81	125	0.653	20	
Toluene	0.0518	0.00600	0.0500	0	104	84	123	0.535	20	
Ethylbenzene	0.0512	0.00600	0.0500	0	102	83	119	0.566	20	
Xylenes, Total	0.152	0.00900	0.150	0	101	81	117	0.981	20	
Surr: a,a,a-Trifluorotoluene	191		200.0		95.4	87	113	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901173
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: GC8_090202A

SampleID: ICV-090202	Batch D: R41670	TestNo: SW8021B	Units: mg/L
SampType: ICV	RunID: GC8_090202A	Analysis Date: 2/2/2009 11:51:07 AM	PrepDate:

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.101	0.00600	0.100	0	101	80	120			
Benzene	0.102	0.00200	0.100	0	102	85	115			
Toluene	0.0998	0.00600	0.100	0	99.8	85	115			
Ethylbenzene	0.0988	0.00600	0.100	0	98.8	85	115			
Xylenes, Total	0.294	0.00900	0.300	0	97.9	85	115			
Surr: a,a,a-Trifluorotoluene	192		200.0		96.2	87	113			

SampleID: CCV1-090202	Batch D: R41670	TestNo: SW8021B	Units: mg/L
SampType: CCV	RunID: GC8_090202A	Analysis Date: 2/2/2009 3:49:38 PM	PrepDate:

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0520	0.00600	0.0500	0	104	80	120			
Benzene	0.0531	0.00200	0.0500	0	106	85	115			
Toluene	0.0523	0.00600	0.0500	0	105	85	115			
Ethylbenzene	0.0519	0.00600	0.0500	0	104	85	115			
Xylenes, Total	0.154	0.00900	0.150	0	103	85	115			
Surr: a,a,a-Trifluorotoluene	191		200.0		95.7	87	113			

SampleID: CCV2-090202	Batch D: R41670	TestNo: SW8021B	Units: mg/L
SampType: CCV	RunID: GC8_090202A	Analysis Date: 2/2/2009 9:18:44 PM	PrepDate:

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0493	0.00600	0.0500	0	98.6	80	120			
Benzene	0.0513	0.00200	0.0500	0	103	85	115			
Toluene	0.0506	0.00600	0.0500	0	101	85	115			
Ethylbenzene	0.0502	0.00600	0.0500	0	100	85	115			
Xylenes, Total	0.149	0.00900	0.150	0	99.4	85	115			
Surr: a,a,a-Trifluorotoluene	192		200.0		95.8	87	113			

SampleID: CCV3-090202	Batch D: R41670	TestNo: SW8021B	Units: mg/L
SampType: CCV	RunID: GC8_090202A	Analysis Date: 2/2/2009 10:58:11 PM	PrepDate:

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.0520	0.00600	0.0500	0	104	80	120			
Benzene	0.0514	0.00200	0.0500	0	103	85	115			
Toluene	0.0509	0.00600	0.0500	0	102	85	115			
Ethylbenzene	0.0505	0.00600	0.0500	0	101	85	115			
Xylenes, Total	0.150	0.00900	0.150	0	99.9	85	115			
Surr: a,a,a-Trifluorotoluene	190		200.0		94.9	87	113			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901173
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090203A

SampleID: LCS-33279	Batch D: 33279	TestNo: E300	Units: mg/L
SampType: LCS	RunID: IC_090203A	Analysis Date: 2/3/2009 9:47:27 AM	PrepDate: 2/3/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.8	1.00	20.00	0	104	90	110			
Chloride	10.3	1.00	10.00	0	103	90	110			
Sulfate	31.3	3.00	30.00	0	104	90	110			

SampleID: LCSD-33279	Batch D: 33279	TestNo: E300	Units: mg/L
SampType: LCSD	RunID: IC_090203A	Analysis Date: 2/3/2009 10:03:12 AM	PrepDate: 2/3/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.0	1.00	20.00	0	105	90	110	0.579	20	
Chloride	10.3	1.00	10.00	0	103	90	110	0.608	20	
Sulfate	31.3	3.00	30.00	0	104	90	110	0.0824	20	

SampleID: MB-33279	Batch D: 33279	TestNo: E300	Units: mg/L
SampType: MBLK	RunID: IC_090203A	Analysis Date: 2/3/2009 10:18:51 AM	PrepDate: 2/3/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

SampleID: 0901173-03B MS	Batch D: 33279	TestNo: E300	Units: mg/L
SampType: MS	RunID: IC_090203A	Analysis Date: 2/3/2009 12:30:16 PM	PrepDate: 2/3/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	355	10.0	100.0	260.5	94.7	90	110			
Sulfate	367	30.0	300.0	62.31	101	90	110			

SampleID: 0901173-03B MSD	Batch D: 33279	TestNo: E300	Units: mg/L
SampType: MSD	RunID: IC_090203A	Analysis Date: 2/3/2009 12:45:58 PM	PrepDate: 2/3/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	354	10.0	100.0	260.5	93.9	90	110	0.213	20	
Sulfate	366	30.0	300.0	62.31	101	90	110	0.134	20	

SampleID: 0901173-03B MS	Batch D: 33279	TestNo: E300	Units: mg/L
SampType: MS	RunID: IC_090203A	Analysis Date: 2/3/2009 5:15:08 PM	PrepDate: 2/3/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.5	1.00	20.00	0.7400	93.8	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901173
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090203A

SampleID: 0901173-03B MSD	Batch D: 33279	TestNo: E300	Units: mg/L							
SampType: MSD	RunID: IC_090203A	Analysis Date: 2/3/2009 5:29:48 PM	PrepDate: 2/3/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.8	1.00	20.00	0.7400	95.2	90	110	1.41	20	

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: INTERA Inc.
 Work Order: 0901173
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090203A

SampleID: ICV-090203	Batch D: R41681	TestNo: E300	Units: mg/L							
SampType: ICV	RunID: IC_090203A	Analysis Date: 2/3/2009 9:24:18 AM	PrepDate: 2/3/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	53.2	1.00	50.00	0	106	90	110			
Chloride	26.2	1.00	25.00	0	105	90	110			
Sulfate	79.8	3.00	75.00	0	106	90	110			

SampleID: CCV1-090203	Batch D: R41681	TestNo: E300	Units: mg/L							
SampType: CCV	RunID: IC_090203A	Analysis Date: 2/3/2009 1:01:40 PM	PrepDate: 2/3/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.8	1.00	20.00	0	104	90	110			
Chloride	10.4	1.00	10.00	0	104	90	110			
Sulfate	31.3	3.00	30.00	0	104	90	110			

SampleID: CCV2-090203	Batch D: R41681	TestNo: E300	Units: mg/L							
SampType: CCV	RunID: IC_090203A	Analysis Date: 2/3/2009 3:57:33 PM	PrepDate: 2/3/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.9	1.00	20.00	0	104	90	110			
Chloride	10.4	1.00	10.00	0	104	90	110			
Sulfate	31.4	3.00	30.00	0	105	90	110			

SampleID: CCV3-090203	Batch D: R41681	TestNo: E300	Units: mg/L							
SampType: CCV	RunID: IC_090203A	Analysis Date: 2/3/2009 7:12:32 PM	PrepDate: 2/3/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.6	1.00	20.00	0	103	90	110			
Chloride	10.4	1.00	10.00	0	104	90	110			
Sulfate	30.9	3.00	30.00	0	103	90	110			

SampleID: CCV4-090203	Batch D: R41681	TestNo: E300	Units: mg/L							
SampType: CCV	RunID: IC_090203A	Analysis Date: 2/3/2009 8:45:44 PM	PrepDate: 2/3/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.8	1.00	20.00	0	104	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901173
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090204A

SampleID: LCS-33317	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: LCS	RunID: IC_090204A	Analysis Date: 2/4/2009 9:34:07 AM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.8	1.00	20.00	0	104	90	110			
Chloride	10.4	1.00	10.00	0	104	90	110			
Sulfate	31.1	3.00	30.00	0	104	90	110			

SampleID: LCSD-33317	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: LCSD	RunID: IC_090204A	Analysis Date: 2/4/2009 9:49:01 AM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.9	1.00	20.00	0	104	90	110	0.338	20	
Chloride	10.5	1.00	10.00	0	105	90	110	0.377	20	
Sulfate	31.4	3.00	30.00	0	105	90	110	0.982	20	

SampleID: MB-33317	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: MBLK	RunID: IC_090204A	Analysis Date: 2/4/2009 10:03:36 AM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

SampleID: 0901173-13A MS	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: MS	RunID: IC_090204A	Analysis Date: 2/4/2009 12:02:42 PM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2860	100	1000	1816	105	90	110			
Sulfate	5360	300	3000	2199	105	90	110			

SampleID: 0901173-13A MSD	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: MSD	RunID: IC_090204A	Analysis Date: 2/4/2009 12:18:21 PM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2850	100	1000	1816	104	90	110	0.393	20	
Sulfate	5350	300	3000	2199	105	90	110	0.136	20	

SampleID: 0901173-12A MS	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: MS	RunID: IC_090204A	Analysis Date: 2/4/2009 1:39:16 PM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	237	10.0	200.0	17.89	110	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901173
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090204A

SampleID: 0901173-12A MSD	Batch D: 33317	TestNo: E300	Units: mg/L
SampType: MSD	RunID: IC_090204A	Analysis Date: 2/4/2009 1:54:58 PM	PrepDate: 2/4/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	199	10.0	200.0	17.89	90.4	90	110	17.7	20	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
 Work Order: 0901173
 Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090204A

SampleID: ICV-090204	Batch D: R41701	TestNo: E300	Units: mg/L							
SampType: ICV	RunID: IC_090204A	Analysis Date: 2/4/2009 9:11:39 AM	PrepDate: 2/4/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	53.3	1.00	50.00	0	107	90	110			
Chloride	26.5	1.00	25.00	0	106	90	110			
Sulfate	79.8	3.00	75.00	0	106	90	110			

SampleID: CCV1-090204	Batch D: R41701	TestNo: E300	Units: mg/L							
SampType: CCV	RunID: IC_090204A	Analysis Date: 2/4/2009 12:34:00 PM	PrepDate: 2/4/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.3	1.00	20.00	0	106	90	110			
Chloride	10.6	1.00	10.00	0	106	90	110			
Sulfate	32.5	3.00	30.00	0	108	90	110			

SampleID: CCV2-090204	Batch D: R41701	TestNo: E300	Units: mg/L							
SampType: CCV	RunID: IC_090204A	Analysis Date: 2/4/2009 3:31:42 PM	PrepDate: 2/4/2009							
Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	20.9	1.00	20.00	0	104	90	110			
Chloride	10.6	1.00	10.00	0	106	90	110			
Sulfate	31.9	3.00	30.00	0	106	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901173
Project: Dugout Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090206A

SampleID: ICV-090206	Batch D: R41742	TestNo: E300	Units: mg/L
SampType: ICV	RunID: IC_090206A	Analysis Date: 2/6/2009 9:07:28 AM	PrepDate: 2/6/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	53.2	1.00	50.00	0	106	90	110			
Chloride	26.5	1.00	25.00	0	106	90	110			
Sulfate	79.8	3.00	75.00	0	106	90	110			

SampleID: CCV1-090206	Batch D: R41742	TestNo: E300	Units: mg/L
SampType: CCV	RunID: IC_090206A	Analysis Date: 2/6/2009 1:24:20 PM	PrepDate: 2/6/2009

Analyte	Result	RL	SPKvalue	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	21.5	1.00	20.00	0	108	90	110			
Chloride	11.0	1.00	10.00	0	110	90	110			
Sulfate	31.7	3.00	30.00	0	106	90	110			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: INTERA Inc.
Work Order: 0901173
Project: Dugout Creek

MQL SUMMARY REPORT

TestNo: E300	MDL	MLQ
Analyte	mg/L	mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Sulfate	1.00	3.00

TestNo: SW8021B	MDL	MLQ
Analyte	mg/L	mg/L
Methyl tert-butyl ether	0.00200	0.00600
Benzene	0.000800	0.00200
Toluene	0.00200	0.00600
Ethylbenzene	0.00200	0.00600
Xylenes, Total	0.00300	0.00900

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP