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**QUARTERLY MONITORING REPORT
FEBRUARY 2001 - APRIL 2001**

**TOMAH MUNICIPAL SANITARY LANDFILL SUPERFUND SITE
TOMAH, WISCONSIN**

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TOMAH, WISCONSIN**

Prepared By:

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1.0 INTRODUCTION

This report presents the results of the long-term quarterly groundwater and landfill gas monitoring plan at the Tomah Municipal Sanitary Landfill (Site) in Tomah, Wisconsin for the period February 7 to April 30, 2001. Conestoga-Rovers & Associates (CRA) completed this report on behalf of International Paper Corporation.

Groundwater sampling activities were conducted in accordance with the approved Groundwater Field Sampling Plan (GW-FSP) (CRA, February 2000). Landfill gas monitoring was conducted in accordance with the approved Gas Extraction System Field Sampling Plan (GES-FSP) (CRA, February 2000).

1.1 PURPOSE

The objective of the monitoring program is to ensure ongoing protection of human health and the environment by monitoring potential contaminant migration pathways.

The scope of the monitoring program includes:

- Water level monitoring at wells;
- Groundwater quality sampling of the upper, middle, and lower portions of the unconfined aquifer on-Site and off-Site and at selected residential wells;
- Methane, oxygen and pressure measuring in perimeter gas probes;
- Methane, oxygen, Volatile Organic Compound (VOC), pressure, temperature, and flow rate monitoring at the gas extraction system blower discharge; and
- Water quality sampling of condensate collection tank.

The long term monitoring program began in November 2000, following final submittal of the Groundwater Quality Assurance Project Plan (GW-QAPP) (CRA, September 2000) and Gas Extraction System Quality Assurance Project Plan (GES-QAPP) (CRA, September 2000).

This report provides an evaluation of field monitoring data and laboratory results for the second quarterly sampling event.

1.2 SITE BACKGROUND

The Tomah Municipal Sanitary Landfill (TMSL) was operated by the City of Tomah from 1959 to 1979. The TMSL accepted both municipal and industrial wastes. Wastes were placed in shallow, unlined trenches along the southern 18 acres of the property, then covered with native soils. Wisconsin Department of Natural Resources (WDNR) ordered the Site closed in August 1975, because of potential degradation of local groundwater quality. The City of Tomah closed the Site in 1979 with a soil cap and planted grass and trees.

In December 1993, WDNR conducted a Potential Hazardous Waste Site Preliminary Assessment. Results of the assessment found the landfill represented a potential hazard to groundwater and surface water. Additional studies were conducted during June 1984. Based on the evaluation of these investigations, WDNR nominated the Site for inclusion on United States Environmental Protection Agency's (USEPA's) National Priorities List (NPL). The Site was added to the NPL on March 31, 1989.

After addition to the NPL, various studies were conducted, culminating in the Remedial Investigation Report and Feasibility Study Report, released to the public in July 1996 and April 1997, respectively. An interim gas extraction system was installed during 1996 to reduce potential off-Site migration of landfill gas.

USEPA issued a Record of Decision (ROD) to address on-Site source control on September 25, 1997. The ROD outlined the source control remedy for the Site to be the installation of a low permeability geomembrane with a geosynthetic clay liner and operation of an active gas extraction system.

International Paper (formerly Union Camp Corporation) and USEPA entered into an Administrative Order on Consent (AOC) for Remedial Design (effective October 12, 1998). CRA, on behalf of International Paper, developed the USEPA approved design and associated plans for the source control remedy.

USEPA issued the Unilateral Administrative Order (UAO) for Remedial Action, effective November 1, 1999. Under the UAO, International Paper implemented the remedial action set forth in the ROD, in accordance with the design approved by USEPA. Construction of the remedy began in April 2000 and was completed in August 2000. Long term monitoring of the source control remedy began in November 2000.

1.3 SITE LOCATION

The TMSL is located on 40 acres in the SW ¼ of the NE ¼ of Section 32, Township 18 North, Range 1 West, Monroe County, Wisconsin. The Site is bordered on the north by wetlands, scrub, and forested land; on the east by North Avenue; on the South by the Sunnyvale Residential Development; and on the west by agricultural fields and wetlands. The location of the Site is presented on Figure 1.1. The landfill is located on the southern 18 acres of the 40-acre parcel. Figure 1.2 shows the post-construction groundwater monitoring locations. Figure 1.3 shows the post-construction gas extraction system monitoring locations.

2.0 GROUNDWATER MONITORING

2.1 SUMMARY OF GROUNDWATER MONITORING PROGRAM

Figure 1.2 presents the network of wells identified for groundwater monitoring, that includes monitoring wells and residential wells. The groundwater monitoring well network consists of 38 groundwater monitoring wells. Wells are screened in the upper, middle, and lower portions of the unconfined aquifer. The residential well network consists of 11 residential wells.

Monitoring wells closest to the landfill Site will show immediate effects of the landfill cap and will provide information for the long term database for the Site.

Wells located downgradient from the landfill monitor off-Site to develop a more detailed groundwater quality. This database will note changes of the plume, and confirm that the plume remains stable. These wells also serve as sentry wells for potential plume expansion towards nearby residential wells.

The residential well network consists of key residential wells immediately down gradient and cross gradient of the plume. These wells are sampled quarterly for the first year of the monitoring plan following completion of cap construction. The residential well monitoring is to confirm there are potential impacts to the consumers of groundwater down gradient of the Site. All residential wells with the exception of the Hanson and Ripp wells, are used for potable supply.

2.2 GROUNDWATER HYDROLOGY

A complete round of water level measurements was collected from each monitoring well prior to groundwater sampling. Groundwater elevations are provided in Table 2.1. Groundwater elevations for the "A" horizon wells are depicted on Figures 2.1. Groundwater contours for the "B" horizon wells are depicted on Figure 2.2. Groundwater contours for the "C" horizon wells are depicted on Figure 2.3.

Groundwater flow directions for the "A", "B", and "C" horizon wells are to the northeast toward Deer Creek. Groundwater flow is consistent with historical groundwater flow directions. Groundwater elevations dropped 0.2-0.5 feet since the November sampling event, which is a typical seasonal expectation. Groundwater elevations are relatively consistent within the three horizons. At several locations, there is a slight upward to almost neutral hydraulic gradient from the "C" horizon to the "A" horizon. The upward

gradients inhibit downward contaminant migration. However, the low vertical gradients indicate that horizontal flow is the dominant pathway.

2.3 GROUNDWATER SAMPLING RESULTS

Round 3 of the quarterly monitoring program was conducted the week of February 19, 2001. Groundwater sampling was conducted using low-flow sampling procedures. Stabilization of the purged groundwater was conducted prior to sampling to ensure that the samples obtained were representative of the groundwater. Each sample location was sampled in accordance with the GW-FSP and GW-QAPP. Table 2.2 summarizes the February sampling event.

As noted on Table 2.2, 36 of the 38 monitoring wells were sampled. Two monitoring wells, MW-16A and MW-16B, were not sampled because groundwater was frozen inside the monitoring wells. Sampling was conducted as soon after purging as possible. Sampling parameters at the Site include VOCs (EPA Method 8260 B), chloride, and total metals to monitor the landfill cap performance. Well 23 that exhibited total metals concentrations above the Wisconsin enforcement standards (ES's) during the November 2000 sampling event were also analyzed for total dissolved solids (TDS), total suspended solids (TSS) and dissolved (filtered) iron and manganese. Samples were placed in iced coolers and shipped within 48 hours to Severn Trent Laboratories (STL) via commercial courier under standard chain of custody procedures.

Residential well sampling was conducted on February 21 and 22, 2001. A total of eight residential wells were sampled. Three residential wells were not sampled: Schleicher, Hanson, and Thompson. At these locations the outdoor spigot was frozen. At the request of the residents, samples were not collected from another location. Samples were collected for the same parameters as the monitoring wells. Residential wells (3) that exhibited total metal concentrations above the Wisconsin ES's during the November 2000 sampling event were also analyzed for TDS, TSS, and dissolved iron and manganese.

Table 2.3 provides a summary of detected compounds in groundwater monitoring wells during February 2001. Appendix A contains the laboratory reports for the groundwater samples. Groundwater data validation memo is provided in Appendix B.

Table 2.4 presents a historical summary of the compounds that have exceeded the Wisconsin ES. For each chemical that has exceeded a standard, the number of exceedences and the date of the most recent exceedence are presented. As Table 2.4

shows, there have been exceedences for 31 chemicals throughout the history of the Site. The ES's were exceeded for seven chemicals during the July 2000 sampling event, eight during the November 2000 sampling event, and eleven during February 2001 sampling event.

2.3.1 CHLORIDE EXTENT

Chloride can be a good indicator of landfill impact to an aquifer. Because chloride acts as a non-reactive tracer, it can help determine the extent of impact down gradient of a landfill. Figure 2.4 presents the chloride data from the February 2001 sampling event. Concentrations above 100 mg/L reflect possible landfill impacts. The non-health based enforcement standard for chloride is 250 mg/L. There are no exceedences of that standard off-Site.

As the figure shows, the chloride plume above 100 mg/L extends approximately 1,400 feet in the upper (A) groundwater horizon downgradient from the landfill, towards Deer Creek, which is consistent with the groundwater flow direction reported in the RI. Overall, the chloride plume illustrates that the plume has moved further to the east-northeast, consistent with the groundwater flow direction and velocity. This confirms that the monitoring locations were placed in areas where contamination would be expected.

None of the residential wells samples exhibited elevated chloride concentrations. With the exception of the John Pleuss sample, chloride concentrations were typically 10 mg/L or less.

2.3.2 VOC EXTENT

Figure 2.5 and Figure 2.6 present the vinyl chloride and benzene data from the February 2001 sampling event, respectively. The benzene plume became wider than the limits of the vinyl chloride plume. The vinyl chloride extends approximately 1,300 feet from the landfill boundary. The high vinyl chloride concentration at MW-13A (120 µg/L) is unique when compared to the underlying MW-13B (0.9 µg/L) and other nearby monitoring wells, which show substantially lower concentrations. The same condition holds true for benzene. Vinyl chloride or benzene are not detected north of Deer Creek.

Based on the groundwater sampling data, the VOC plume is restrictive both horizontally and vertically and does not undergo much dispersion as it travels from the landfill.

2.3.3 METALS EXTENT

Table 2.5 shows the Summary of Exceedence for metal concentrations in groundwater. A total of 15 metals have exhibited exceedences of either MCLs or ESs over the history of monitoring. In 2001, only three metals, iron, manganese, and thallium, exhibited exceedences. Iron and manganese are considered naturally occurring metals and their standards are based on aesthetic concerns. Dissolved metal concentrations showed similar values as the total metal samples. Thallium was detected at one location at the laboratory limit. However, thallium is a difficult metal to analyze, because it is prone to false detections due to matrix interference and equipment calibration errors in the laboratory.

Arsenic, chromium, and cadmium are specifically discussed in the UAO, due to there past exceedences. However, these metals were not detected above the MCL or ES in samples collected during February 2001.

2.3.4 NATURAL ATTENUATION

Groundwater sampling results for February 2001 show preliminary evidence of natural attenuation at several monitoring well locations. Evidence for natural attenuation, particularly reductive dechlorination, includes low dissolved oxygen (<1 mg/L) levels, negative Eh values, and the presence of dehalogenated daughter by-products (e.g. chloroethane). Figure 2.8 identifies locations where there is evidence of potential natural attenuation.

As shown on Figure 2.8, 15 locations show some evidence of natural attenuation. The majority of these locations are near the landfill where anaerobic groundwater conditions exist. However, similar conditions are observed downgradient of the landfill as far as MW-13A. These indicators imply that the chlorinated VOCs emanating from the landfill may be intrinsically bioremediated.

3.0 GAS EXTRACTION SYSTEM MONITORING RESULTS

3.1 SUMMARY OF GAS EXTRACTION SYSTEM MONITORING PROGRAM

Figure 1.3 presents the network of gas extraction wells and gas probes identified for monitoring. The gas extraction well network consists of 20 extraction wells and the blower discharge, designed to ensure LFG collection across the whole Site. The gas probe network consists of 5 on-Site probes and 11 off-Site probes. The gas probe locations were selected to establish sentry points between the landfill and nearby homes with basements to the south. Additionally, gas probes have been placed along the north, west and east sides of the landfill to monitor potential off-Site gas migration.

Methane and oxygen monitoring at the Site is conducted using a direct-read instrument. The selected instrument for the Site is a Landtec GEM 500 gas monitor. The instrument is equipped with a quick-connect fitting that connects to the gas probe, gas extraction well, blower inlet, and blower discharge so that readings can be taken in a closed (e.g. not open to the air) system. A Landtec GEM 500 gas monitor is capable of measuring percent methane by volume, percent carbon monoxide by volume, percent oxygen by volume, flow rate, temperature, and pressure.

3.2 GAS PROBE MONITORING

Gas probes located on-site and on the adjacent properties are monitored on a weekly basis. Table 3.1 summarizes weekly readings, as recorded by the Landtec GEM 500. During the reporting period (February 2001 through April 2001), methane was not detected in any of the off-Site probes or at any probe adjacent to the landfill. Given the negative pressure readings at these wells and the absence of methane, the operation of the active gas extraction system is preventing migration of the landfill gases off-Site.

3.3 GAS EXTRACTION WELLS MONITORING

Gas extraction wells are located within the limits of the landfill are monitored on a weekly basis. The blower operation is monitored before and after the blower unit. Table 3.1 summarizes weekly readings, as recorded by the Landtec GEM 500. During the reporting period (February 2001 through April 2001), methane concentrations continue to show a gradual decline in methane concentrations, but at a less rapid rate than was seen after system start-up following installation of the synthetic liner system.

Declining methane concentrations in gas extraction wells since cap construction are depicted on graphs provided in Appendix C.

3.4 BLOWER DISCHARGE SAMPLING

The blower discharge sample was collected on February 21, 2001. Laboratory data results are provided in Appendix D. The blower discharge data validation memo is provided in Appendix E.

Vinyl chloride and benzene are the contaminants of concern in the blower discharge. Acceptable ambient concentrations for vinyl chloride and benzene are 300 pounds per year each (WDNR NR 445). Blower discharge thresholds and mass loading calculations are provided in Tables 3.2 and 3.3, respectively. Based on the blower discharge sample results, the estimated total discharge of benzene and vinyl chloride are below the ambient discharge concentrations. Hence, no off-gas treatment is necessary.

3.5 CONDENSATE TANK

Condensate generated is collected in sumps #1 and #2. The condensate is pumped to the on-Site underground storage tank (UST). The tank has a capacity of 5,000 gallons. When the tank is full, a sample of the contents will be analyzed for waste characterization to determine proper disposal. It was not necessary to empty the tank during the reporting period, therefore, no samples were collected.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

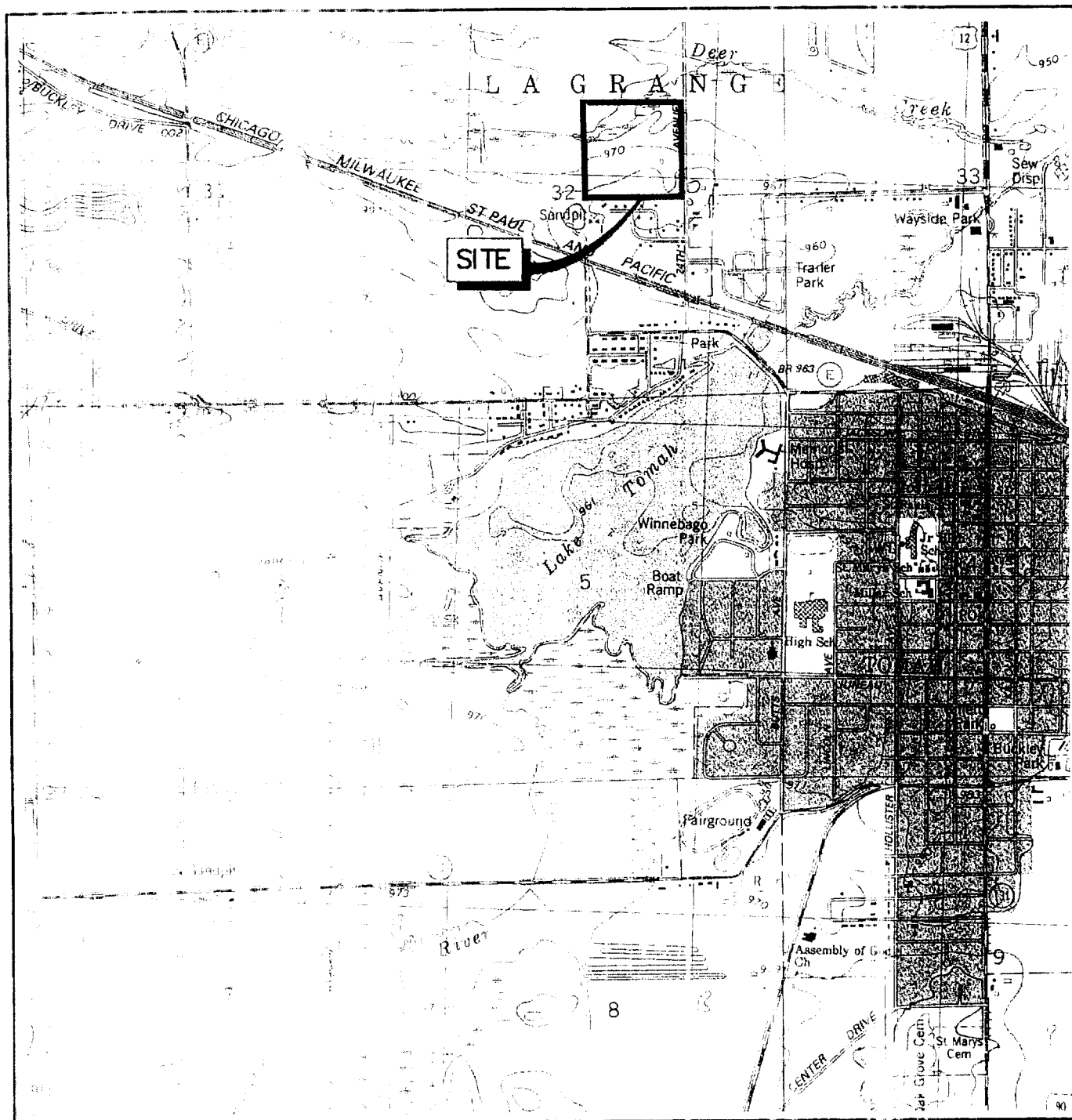
CRA presents the following conclusions, based on the review of historical data and data collected during the February 2001 sampling events:

1. The primary contaminants of concern in groundwater continue to be VOCs. The number of VOCs exceeding criteria remained unchanged in 2001 with vinyl chloride and benzene being detected most frequently.
2. The number of metals exceeding criteria remained unchanged in 2001 with only two metals exhibiting exceedences at more than one location, the metals being manganese and iron. The ES for these metals are public welfare standards and are guidelines for taste, odor, and appearance rather than on any detrimental health affect.
3. The 100 mg/L chloride contour from the landfill indicates that landfill associated groundwater has migrated approximately 1,400 feet east-northeast from the landfill boundary.
4. Vinyl chloride and benzene are the primary contaminants of concern that have migrated off-Site. However, there is no evidence of vinyl chloride or benzene north of Deer Creek.
5. Levels of compounds detected in residential wells are protective of human health-based on Wisconsin Ess with no reported exceedances.
6. Gas extraction system monitoring at the extraction wells indicate methane and VOCs are being removed from the landfill. The percentage of methane gas has decreased more since last quarter sampling.
7. Monitoring of the off-Site gas probes indicate the residential homes south of the landfill are not affected by off-Site migration of landfill gases.
8. Analysis of the blower discharge show benzene and vinyl chloride emissions remain below the maximum allowable by WDNR air quality standards.
9. There are a no significant air emissions from this site that could adversely impact the human health or the environment.

4.2 RECOMMENDATIONS

Groundwater and gas extraction system monitoring will continue as outlined in the GW-FSP and GES-FSP, following the same recommendation:

- The Wisconsin ES's require under the GW-QAPP that the groundwater from the monitoring well location to continue to be sampled for dissolved metals, total suspended solids, and total dissolved solids in addition to the aforementioned parameters during the next scheduled monitoring event due to elevated total metal concentrations.



SOURCE USGS TOPOGRAPHIC MAP
TOMAH WIS. QUADRANGLE



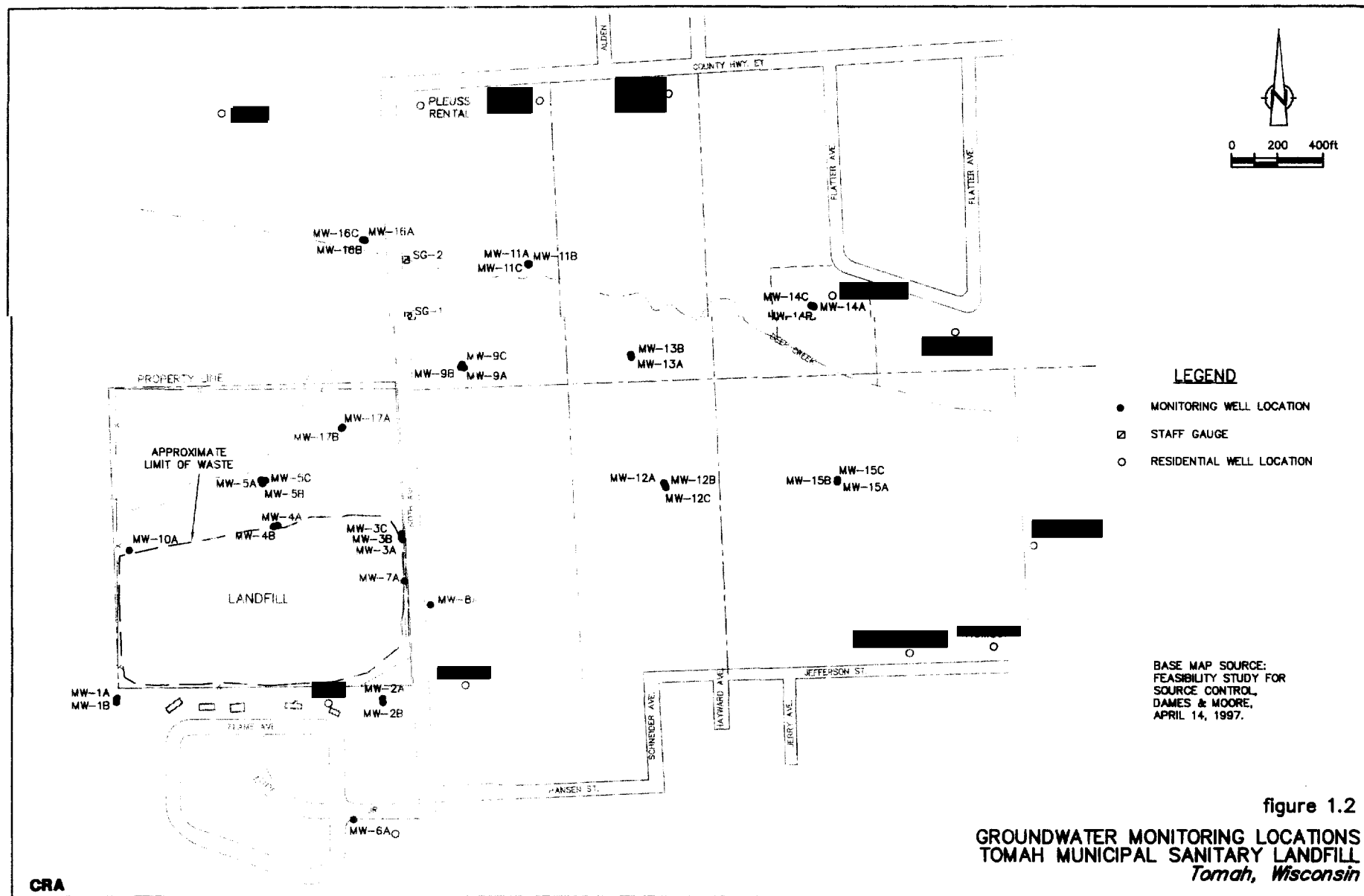
0 1000 2000ft



figure 1.1

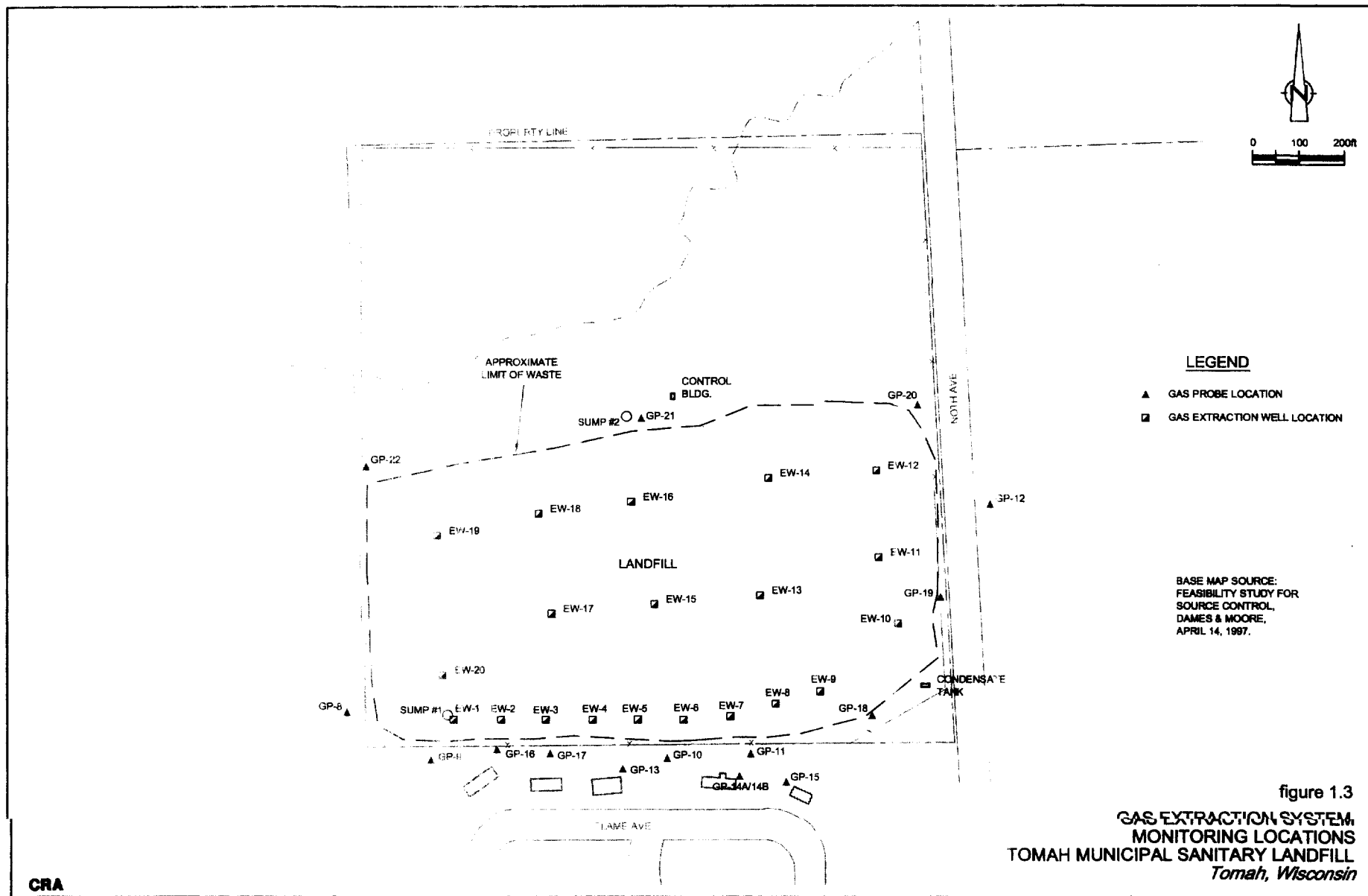
SITE LOCATION
TOMAH MUNICIPAL SANITARY LANDFILL
Tomah, Wisconsin

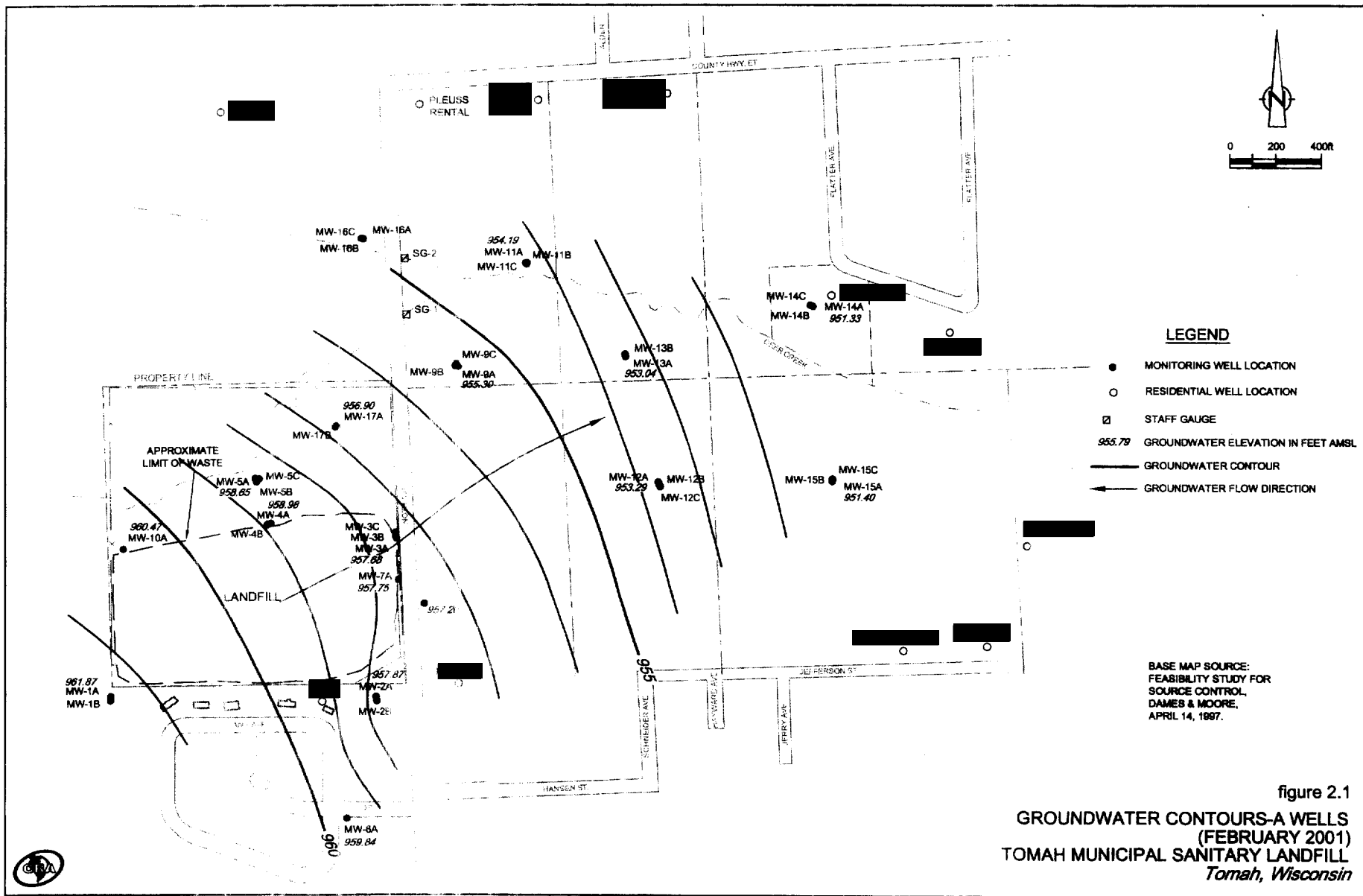


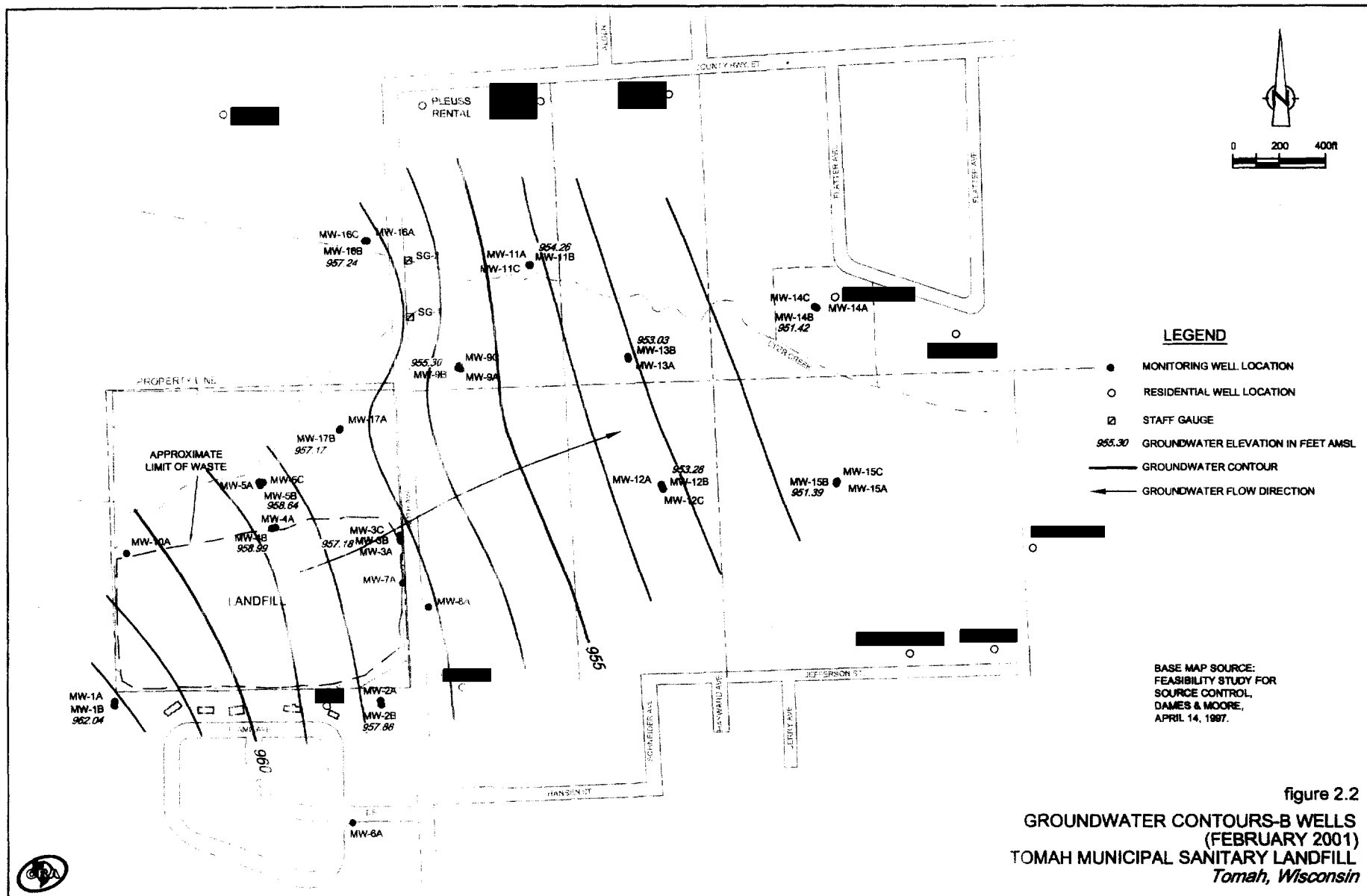


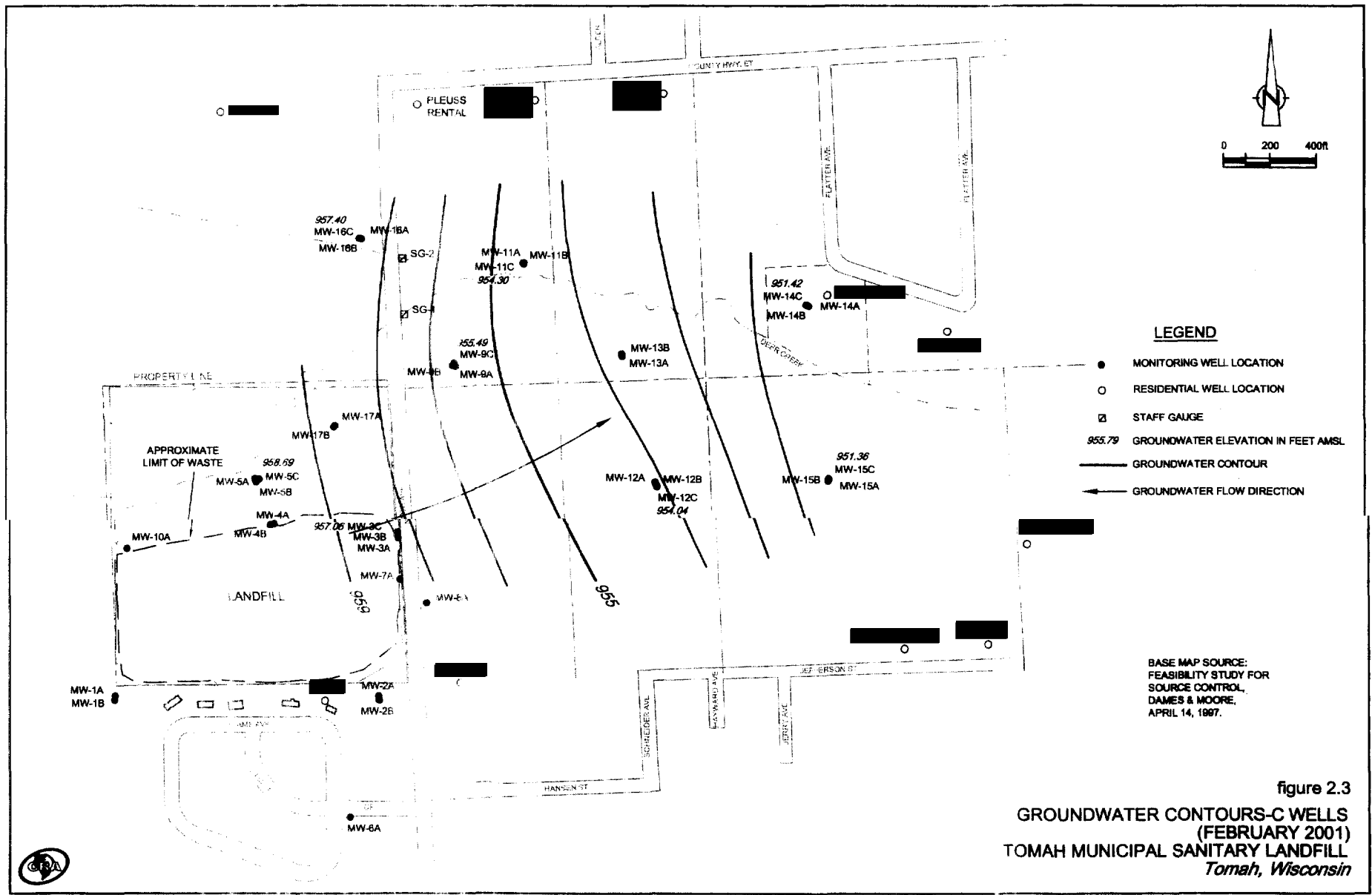
CRA

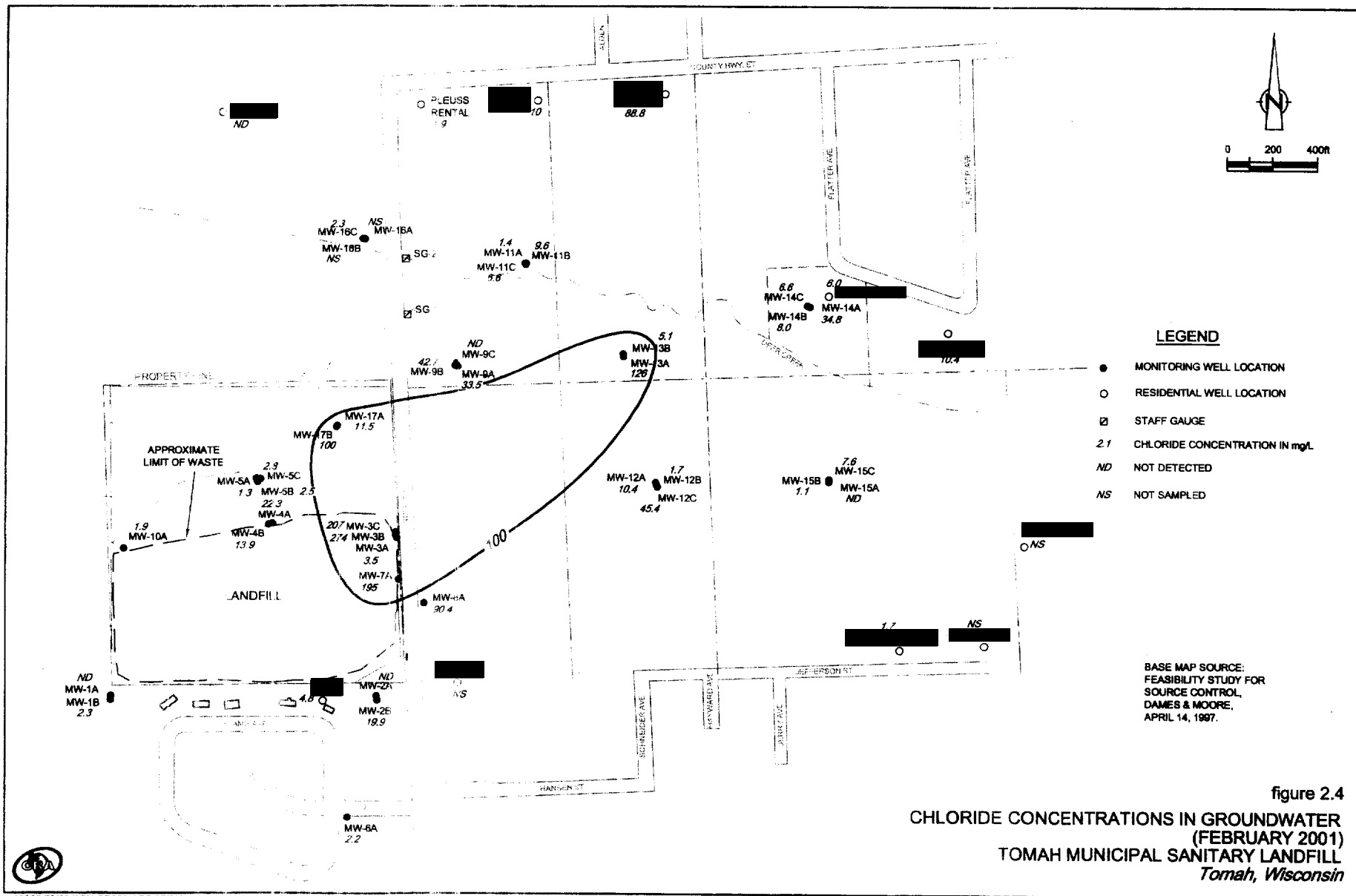
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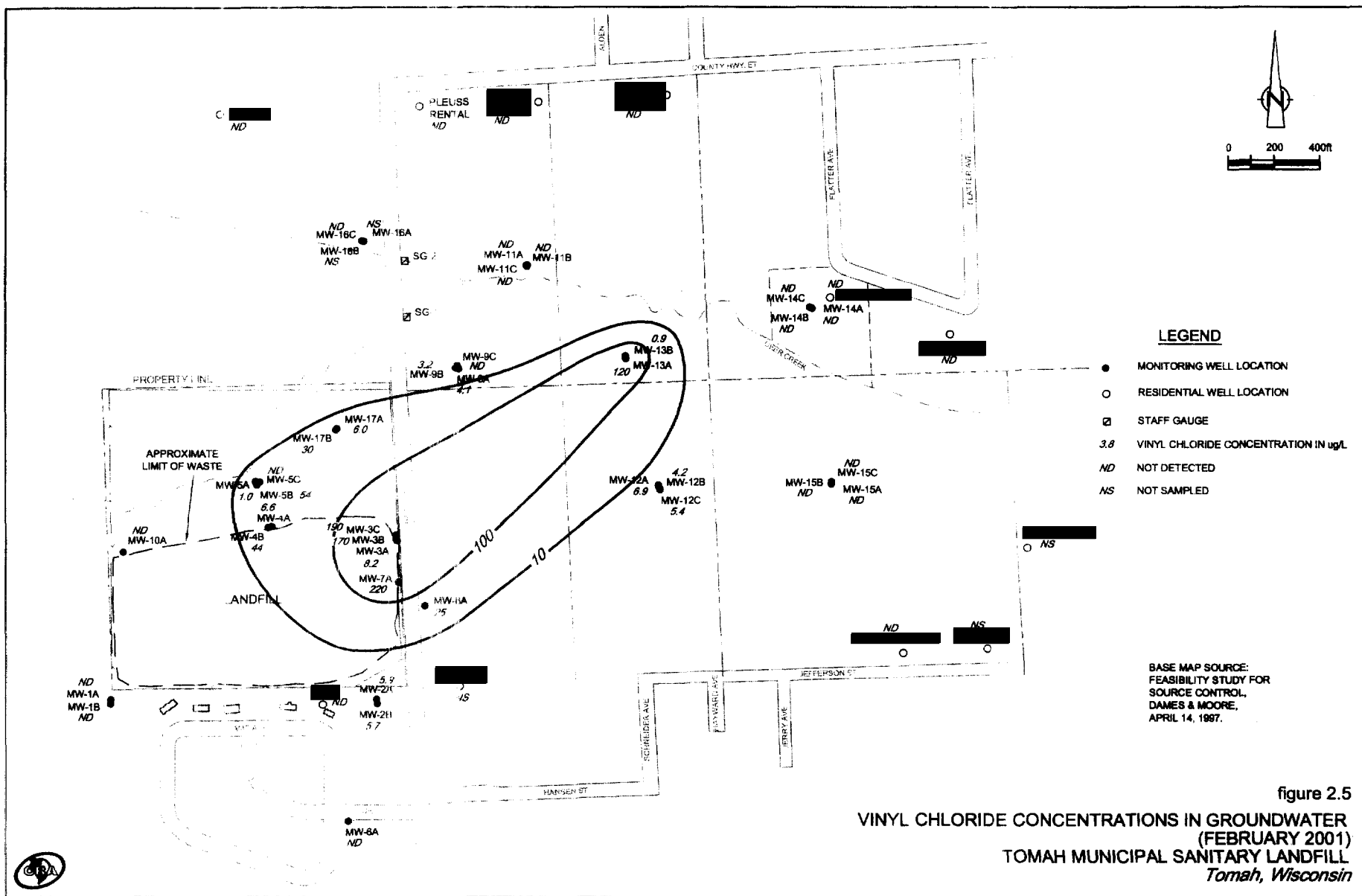


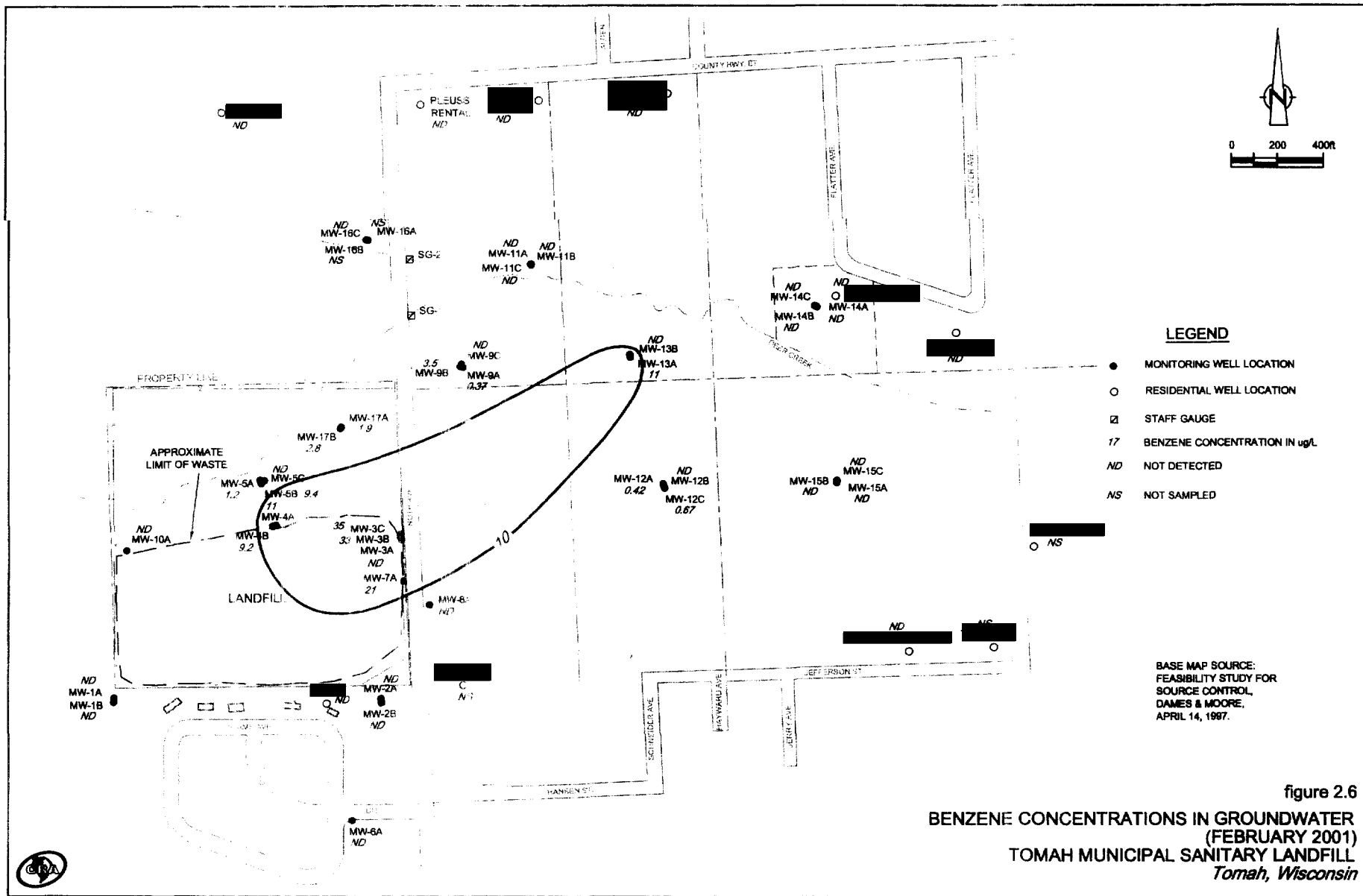


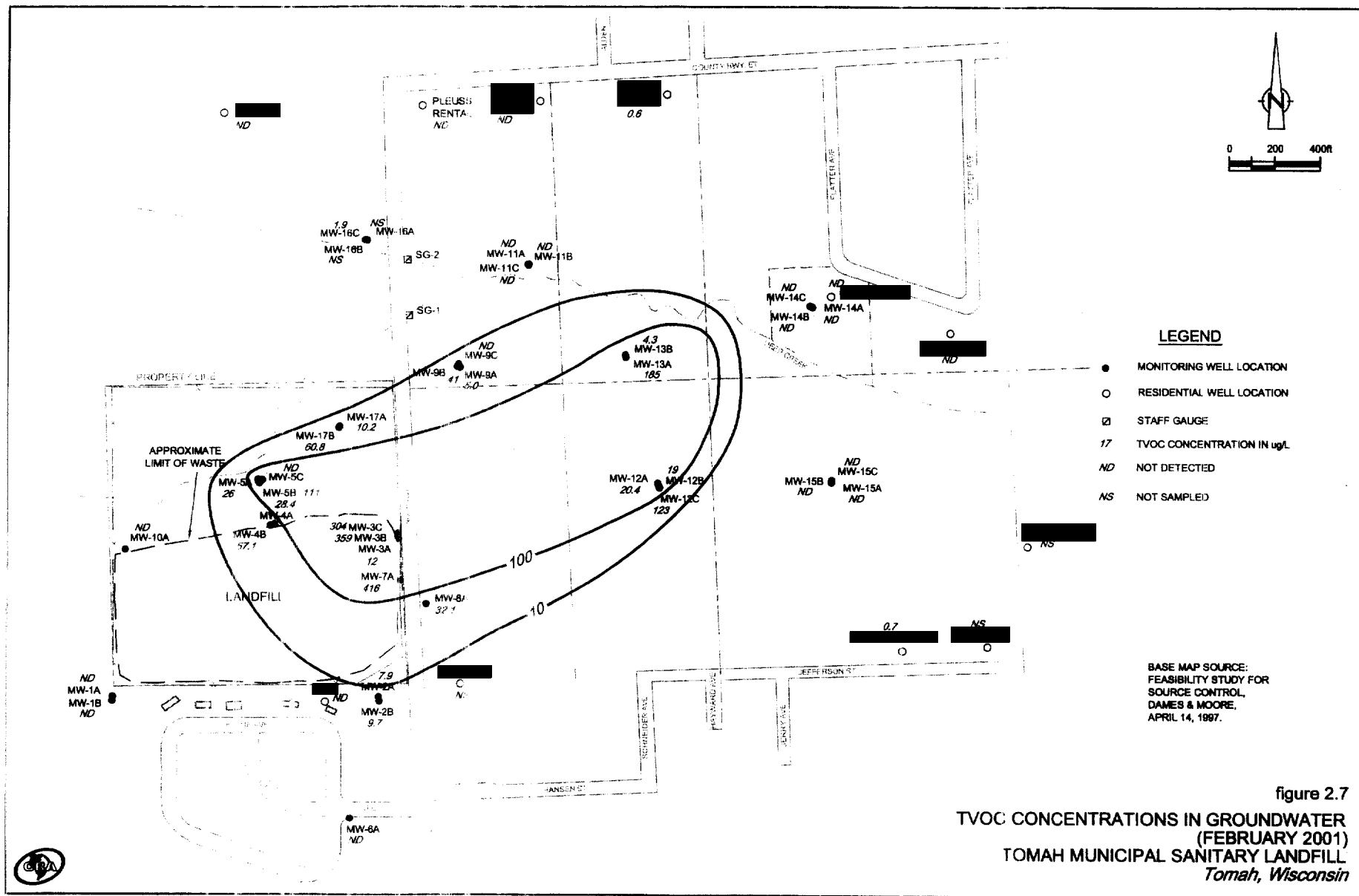


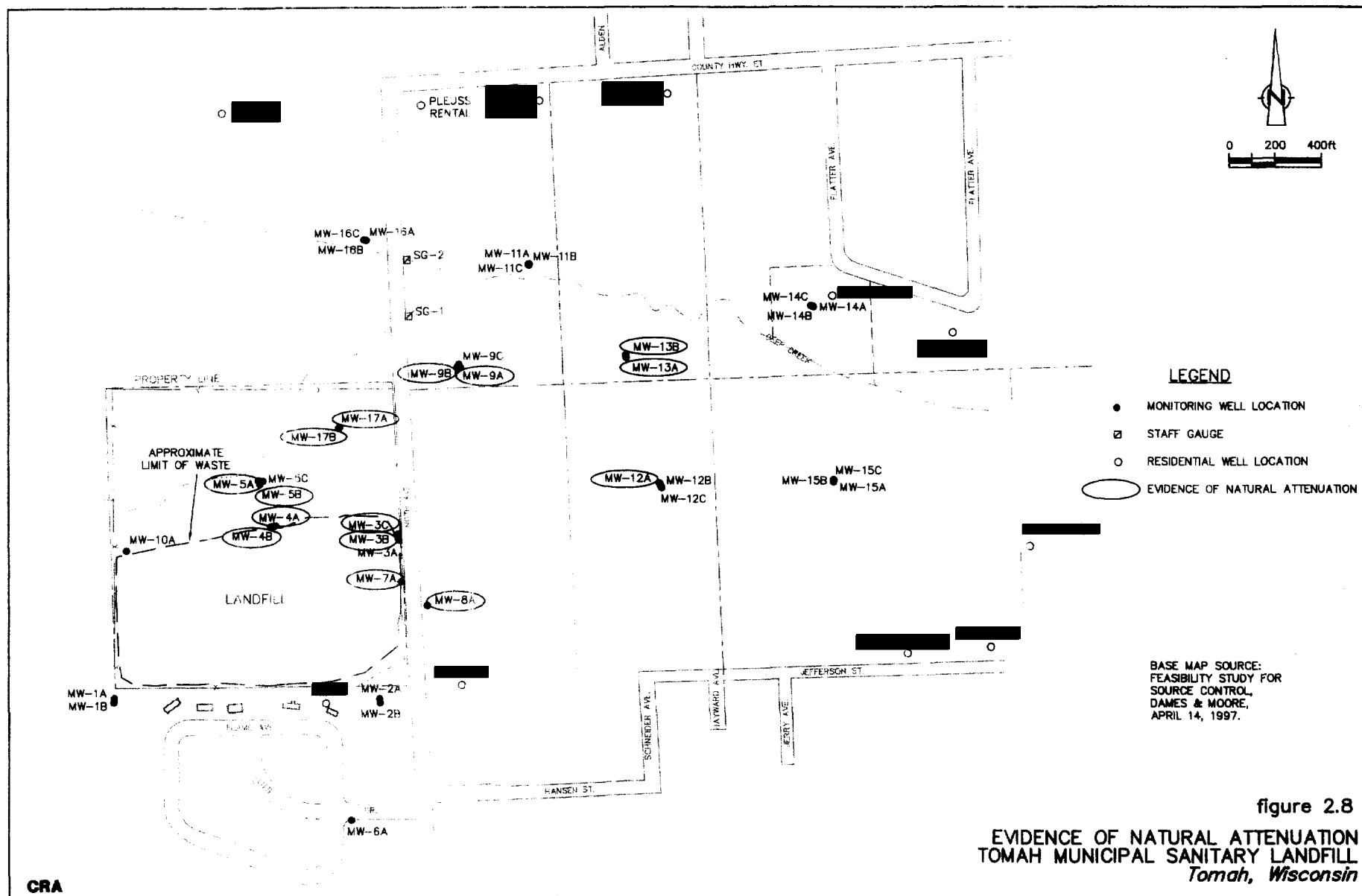












TABLES

TABLE 2.1

**GROUNDWATER ELEVATION SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL**

<i>Monitoring Well</i>	<i>Top of Casing Elevation (AMSL)</i>	<i>7/12/00</i>	<i>11/13/00</i>	<i>2/19/01</i>
MW-1A	990.64	964.15	962.63	961.87
MW-1B	990.60	964.22	962.71	962.04
MW-2A	997.39	959.88	958.51	957.81
MW-2B	997.38	959.88	958.52	957.83
MW-3A	969.17	960.16	958.03	957.68
MW-3B	969.70	958.71	957.54	957.18
MW-3C	968.73	958.43	957.43	957.06
MW-4A	971.02	960.14	959.30	958.98
MW-4B	970.79	960.12	959.32	958.99
MW-5A	962.67	959.21	958.91	958.65
MW-5B	962.14	959.23	958.90	958.64
MW-5C	962.58	959.36	958.97	958.69
MW-6A	973.21	963.98	961.14	959.84
MW-7A	976.84	959.80	958.34	957.75
MW-8A	977.38	958.77	957.70	957.20
MW-9A	961.25	955.79	955.55	955.30
MW-9B	961.24	955.78	955.55	955.30
MW-9C	961.30	956.07	955.75	955.49
MW-10A	967.33	961.30	960.77	960.47
MW-11A	958.02	954.62	954.44	954.19
MW-11B	957.97	954.60	954.50	954.26
MW-11C	957.84	954.73	954.56	954.30
MW-12A	958.14	954.28	953.61	953.29
MW-12B	958.03	954.29	953.53	953.28
MW-12C	958.17	954.39	953.67	954.04
MW-13A	959.81	953.44	953.23	953.04
MW-13B	959.78	953.41	953.22	953.03
MW-14A	956.23	951.99	951.66	951.33
MW-14B	956.22	951.99	951.65	951.42
MW-14C	955.70	952.07	951.67	951.42
MW-15A	955.21	952.27	951.59	951.40
MW-15B	955.08	952.27	951.58	951.39
MW-15C	955.04	952.21	951.52	951.36
MW-16A	960.25	957.94	957.65	Frozen
MW-16B	960.32	958.02	957.67	957.24
MW-16C	960.46	958.09	957.77	957.40
MW-17A	961.50	957.76	957.17	956.90
MW-17B	961.75	957.77	957.21	957.17
SG-#1	957.92	956.22	956.22	Frozen
SG-#2	958.89		956.28	Frozen

Note:

Staff Gauges #1 and #2 are located on east side of Noth Road.
SG #1 is the south culvert and SG#2 in the north culvert.

TABLE 2.2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-15C ¹	W-010220-DN-01	4.92	228	9.2	249	2.89	3.2	Clear	8
		4.83	228	9.0	263	2.88	3.2	Clear	16
		4.82	231	8.9	272	2.86	3.1	Clear	24
MW-15B	W-010220-DN-02	5.64	85	8.4	224	2.23	20	Sl. Cldy	5
		5.60	85	8.4	222	2.21	14	Clear	10
		5.60	85	8.3	222	2.20	11	Clear	15
MW-15A	W-010220-DN-03	5.39	81	3.8	151	0.73	8.6	Clear	1
	W-010220-DN-04 (R.B.)	5.44	81	4.0	155	0.67	8.6	Clear	2
		5.39	81	3.9	150	0.73	8.4	Clear	3
MW-12C ¹	W-010220-DN-05	4.89	207	7.0	278	0.33	2.3	Clear	9
		4.81	213	7.1	285	0.34	2.3	Clear	18
		4.82	210	7.4	296	0.36	2.3	Clear	27
MW-12B	W-010220-DN-06	5.33	72	8.1	245	0.10	1.0	Clear	5.5
		5.33	71	8.3	245	0.10	1.0	Clear	11
		5.35	72	8.1	242	0.11	1.0	Clear	16.5
MW-12A ¹	W-010220-DN-07	5.09	91	5.2	232	0.08	3.5	Clear	2
		5.10	94	5.2	233	0.07	3.5	Clear	4
		5.10	94	5.1	234	0.06	3.4	Clear	6
MW-14C	W-010220-DN-08	5.17	166	9.2	279	7.11	2.7	Clear	8
	W-010220-DN-09 (Dup.)	5.20	166	9.2	271	6.89	2.7	Clear	16
		5.21	166	9.2	275	6.96	2.8	Clear	24
MW-14B	W-010220-DN-10	5.26	197	8.8	274	2.72	2.2	Clear	4.5
		5.26	198	8.5	277	2.74	1.7	Clear	9
		5.27	198	8.4	278	2.78	1.5	Clear	13.5
MW-14A ¹	W-010220-DN-11	6.00	275	3.2	20	0.25	7.6	Lt Green	1
		6.00	275	3.2	19	0.22	6.6	Lt Green	2
		5.97	275	3.1	16	0.21	6.0	Lt Green	3
MW-11C	W-010220-DN-12	5.32	142	8.0	241	5.08	1.8	Clear	9
		5.13	142	8.2	250	5.10	1.7	Clear	18
		5.14	141	8.3	260	5.11	1.7	Clear	27

TABLE 2.2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

Well			Specific	Temperature		Dissolved			Volume
Location	Sample Number	pH	Conductivity (uS)	(°C)	Eh (mV)	Oxygen	Turbidity	Clarity	Removed
						(mg/l)	(NTU)		(gallons)
MW-11B	W-010220-DN-13	5.12	170	8.2	268	3.09	1.9	Clear	5.5
		5.13	168	8.2	278	3.05	1.4	Clear	11
		5.13	167	8.1	280	3.01	1.2	Clear	16.5
MW-11A	W-010220-DN-14	5.56	45	6.9	246	7.25	13.0	Clear	2.5
	W-010220-DN-15 (RB)	5.55	45	7.0	247	7.20	11.0	Clear	5
		5.55	46	7.0	247	7.18	11.0	Clear	7.5
MW-16C	W-010221-DN-16	5.00	50	7.3	134	3.26	9.8	Clear	24
		5.03	51	7.1	141	3.55	7.7	Clear	32
		5.01	51	7.1	147	3.73	7.3	Clear	40
MW-16B									
MW-10B									
MW-1A	W-010221-DN-17 (MS/MSD)	4.89	36	8.2	233	10.05	0.65	Clear	2
		4.91	36	8.4	232	10.17	0.45	Clear	4
		4.91	36	8.5	231	10.21	0.31	Clear	6
MW-1B ¹	W-010221-DN-18	4.32	122	9.5	282.0	10.05	0.0	Clear	5
		4.35	121	9.5	289.0	10.03	0.0	Clear	10
		4.36	121	9.4	291.0	10.00	0.0	Clear	15
MW-6A	W-010221-DN-19	5.63	56	7.7	170	8.69	95	Clear	1
		5.66	56	8.0	165	8.80	105	Clear	2
		5.62	53	8.3	153	9.09	120	Clear	3
MW-9C	W-010221-DN-20	5.50	26.0	8.0	138.0	11.17	6.0	Clear	18
		5.52	26.0	8.1	143.0	11.40	5.0	Clear	27
		5.53	26.0	8.2	153.0	11.42	4.0	Clear	36
MW-9B ¹	W-010221-DN-21	6.07	439	8.4	-69	0.20	2.6	Clear	5
	W-010221-DN-22 (Dup.)	6.10	445	8.5	-76	0.15	2.1	Clear	10
		6.12	438	8.5	-77	0.13	1.9	Clear	15
MW-9A ¹	W-010221-DN-23	6.02	227	5.2	1	0.35	3.6	Clear	6
		5.99	222	5.2	7	0.36	2.9	Clear	8
		5.99	210	5.2	9	0.31	2.1	Clear	10

TABLE 2.2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-13B	W-010221-DN-24	5.66	116	8.3	99	3.10	3.1	Clear	5
		5.65	117	8.5	106	3.06	2.9	Clear	10
		5.64	119	8.5	116	2.93	0.9	Clear	15
MW-13A ¹	W-010221-DN-25	5.29	500	5.1	129	0.28	12.0	Clear	2
		5.30	504	5.2	149	0.27	8.0	Clear	4
		5.30	506	5.2	150	0.28	4.7	Clear	6
MW-10A ¹	W-010222-DN-26	4.96	75	6.0	189	2.01	4.9	Clear	6
		5.01	75	6.1	181	1.96	4.1	Clear	8
		5.08	75	6.1	171	1.93	3.7	Clear	10
MW-5C ¹	W-010222-DN-27	5.15	117	7.8	184	3.99	0.45	Clear	9.5
		5.26	115	7.8	184	4.25	0.45	Clear	18
		5.28	115	7.8	187	4.33	0.40	Clear	28.5
MW-5B ¹	W-010222-DN-28	6.43	1305	7.9	-118	0.24	0.75	Clear	4
		6.50	1301	8.0	-119	0.22	0.70	Clear	8
		6.44	1290	8.0	-119	0.19	0.70	Clear	12
MW-5A ¹	W-010222-DN-29	6.28	689	4.9	-78	0.14	3.9	Clear	1.5
		6.28	681	4.9	-77	0.13	2.9	Clear	3
		6.28	676	4.8	-76	0.13	2.9	Clear	4.5
MW-17A ¹	W-010222-DN-30	6.29	313	3.0	-76	0.20	0.06	Clear	3
		6.29	315	3.0	-75	0.18	0.03	Clear	4
		6.29	315	3.0	-75	0.16	0.01	Clear	5
MW-17B ¹	W-010222-DN-31	6.06	488	6.4	-42	0.33	55	Clear	4.5
		6.06	490	6.4	-44	0.32	26	Clear	9
		6.10	491	6.5	-49	0.31	9.2	Clear	13.5
MW-2B ¹	W-010222-DN-32	4.45	146	9.1	219	0.20	0.0	Clear	5
	W-010222-DN-33 (Dup.)	4.44	145	9.4	224	0.22	0.0	Clear	10
		4.44	145	9.4	229	0.23	0.0	Clear	15
MW-2A ¹	W-010223-DN-34	4.99	53	8.9	37	0.43	3.5	Clear	1.5 P.D.
MW-8A ¹	W-010223-DN-35	4.14	292	8.4	197	0.95	0.75	Clear	1.5
	W-010223-DN-36 (RB)	4.26	310	8.7	209	0.93	0.61	Clear	3
		4.28	318	9.0	211	0.95	0.45	Clear	4.5

TABLE 2.2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-4B ¹	W-010223-DN-37	6.31	140	10.2	-091	0.09	5.9	Yellowish	3.5
	W-010223-DN-38 (RB)	6.35	142	10.3	-098	0.09	3.2	Yellowish	7
		6.36	142	10.3	-102	0.08	1.5	Yellowish	10.5
MW-4A ¹	W-010223-DN-39	6.22	484	9.1	-61	0.15	2.9	Yellowish	1
		6.23	492	9.2	-60	0.14	2.6	Yellowish	2
		6.23	493	9.2	-63	0.13	2.0	Yellowish	3
MW-3C ¹	W-010223-DN-40	6.33	2797	9.7	-71	0.06	0.68	Yellowish	9
	W-010223-DN-41 (Dup.)	6.33	2835	9.7	-77	0.06	0.60	Yellowish	18
		6.34	2834	9.7	-77	0.04	0.60	Yellowish	27
MW-3B ¹	W-010223-DN-42	6.32	3190	10.7	-84	0.10	5.5	Sl. Opaque	5
	(MS/MSD)	6.32	3177	10.7	-85	0.09	5.0	Sl. Opaque	10
		6.33	3170	10.7	-86	0.08	4.7	Sl. Opaque	15
MW-3A ¹	W-010223-DN-43	5.59	169	7.8	25	1.90	8.9	Clear	1.0
		5.58	169	7.9	26	2.10	7.7	Clear	2
		5.59	168	7.9	27	2.23	7.0	Clear	3.0
MW-7A ¹	W-010223-DN-44	6.32	2344	9.5	-81	4.07	5.0	Sl. Cldy	1 P.D.
Tom Pluess	W-010221-DN-100	5.05	181	8.0	112	10.70	0.95	Clear	5 Min.
		5.04	183	7.8	132	10.61	1.10	Clear	10 Min.
		5.03	183	7.9	145	10.47	0.85	Clear	15 Min.
Pluess Rental	W-010221-DN-101	5.08	55	9.9	165	10.98	2.30	Clear	5 Min.
	W-010221-DN-102 (Dup)	5.07	57	9.9	188	11.12	2.50	Clear	10 Min.
		5.05	59	10	192	11.18	3.00	Clear	15 Min.
John Pluess *	W-010221-DN-103	5.13	415	10.3	185	6.05	0.99	Clear	5 Min.
		5.18	416	10.2	189	6.04	0.97	Clear	10 Min.
		5.21	418	10.2	191	6.05	0.95	Clear	15 Min.
Zdrojowy	W-010221-DN-104	5.41	235	10.4	133	4.30	2.1	Clear	5 Min.
	W-010221-DN-105 (FB)	5.37	226	10.7	141	5.03	1.8	Clear	10 Min.
		5.37	228	10.7	155	4.99	1.6	Clear	15 Min.

TABLE 2.2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
Boehm	W-010222-DN-106	4.38	45	11.4	70	6.09	2.4	Clear	5 Min.
		4.38	45	11.4	71	6.10	2.2	Clear	10 Min.
		4.38	46	11.4	72	5.56	1.7	Clear	15 Min.
Ripp *	W-010222-DN-107 (MS/MSD)	4.54	198	10.0	196	9.15	3.5	Clear	229
		4.91	184	10.2	215	9.19	2.2	Clear	458
		4.76	180	10.3	218	9.26	2.0	Clear	687
Kenworthy	W-010222-DN-108	5.42	160	10.2	154	6.60	2.5	Clear	5 Min.
		5.44	161	10.2	153	6.58	2.3	Clear	10 Min.
		5.44	162	10.3	152	6.57	2.1	Clear	15 Min.
Thundercloud *	W-010222-DN-109	5.12	78	8.6	150	9.45	2.5	Clear	5 Min.
		5.10	76	8.9	164	9.29	2.0	Clear	10 Min.
		5.10	75	8.9	173	9.51	1.9	Clear	15 Min.
Schleicher	No Sample - Spigot outside was frozen. Homeowner did not want sampling conducted inside the homestead.								
Hanson	No Sample - Spigot outside was frozen. Homeowner did not want sampling conducted inside the homestead.								
Thompson	No Sample - Spigot outside was frozen. Homeowner did not want sampling conducted inside the homestead.								

Notes:

* These locations had extra parameters taken due to previous rounds analytical results. An additional metals (filtered), TDS and TSS were collected.

* These locations had additional parameters taken due to previous rounds analytical results. The additional samples were metals (filtered), TDS and TSS.

Field parameters were taken after the initial 5 minutes since purging began. Readings taken in 5 minute intervals.

Each sample location was taken at the outside spigot except Thundercloud and Ripp. Thundercloud sample was taken at the kitchen sink and the Ripp sample was collected at the well via 2" submersible pump after 5 standing well volumes had been purged from the well.

TABLE 2.3

SUMMARY OF DETECTED COMPOUNDS
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN

Page 1 of 6

Location	Date	mg/L Chloride	mg/L Solids, Total Dissolved	mg/L Solids, Total Suspended	mg/L Aluminum	mg/L Arsenic	mg/L Chromium	mg/L Iron, Dissolved	mg/L Iron	mg/L Lead	mg/L Manganese, Dissolved	mg/L Manganese	mg/L Thallium	ug/L 1,1,1-Trichloroethane	ug/L 1,1-Dichloroethane
Wisconsin Enforcement Standards		250				0.05	0.1	0.3	0.3	0.015	0.05	0.05	0.002	200	850
MW-10A	2/22/01	1.9	54	< 4	< 0.2	< 0.01	< 0.01	0.34 E	0.43 E	< 0.003	0.079 E	0.069 E	< 0.01	< 0.5	< 0.5
MW-11A	2/20/01	1.4			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		< 0.015	< 0.01	< 1	< 1
MW-11B	2/20/01	9.6			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		0.044	< 0.01	< 1	< 1
MW-11C	2/20/01	6.6			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		< 0.015	< 0.01	< 1	< 1
MW-12A	2/20/01	10.4	48	< 4	< 0.2	< 0.01	< 0.01	0.1	0.27	< 0.003		0.054 E	< 0.01	< 1	4.2
MW-12B	2/20/01	1.7			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		< 0.015	< 0.01	1.8	5.5
MW-12C	2/20/01	45.4	140	< 4	< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003	0.4 E	0.4 E	< 0.01	25	8.4
MW-13A	2/21/01	126	320	< 4 UJ	< 0.2	< 0.01	< 0.01		0.11	< 0.003	0.55 E	0.6 E	< 0.01	< 5	3.1 J
MW-13B	2/21/01	5.1			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		< 0.015	< 0.01	< 1	< 1
MW-14A	2/20/01	34.8	200	< 4	< 0.2	< 0.01	< 0.01	10.8 E	10.9 E	< 0.003	0.45 E	0.51 E	< 0.01	< 1	< 1
MW-14B	2/20/01	8			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		< 0.015	< 0.01	< 1	< 1
MW-14C	2/20/01	6.6			< 0.2	< 0.01	< 0.01	< 0.1	< 0.1	< 0.003		< 0.015	< 0.01	< 1	< 1
MW-14C	2/20/01	6.6			< 0.2	< 0.01	< 0.01			< 0.003			< 0.01	< 1	< 1
MW-15A	2/20/01	< 1			0.54	< 0.01	< 0.01		0.45 E	< 0.003		0.049	< 0.01	< 1	< 1
MW-15B	2/20/01	1.1			0.72	< 0.01	< 0.01		0.46 E	< 0.003		< 0.015	< 0.01	< 1	< 1
MW-15C	2/20/01	7.6	170	< 4	< 0.2	< 0.01	< 0.01		< 0.1	< 0.003	0.46 E	0.43 E	< 0.01	< 1	< 1
MW-16C	2/21/01	2.3			< 0.2	< 0.01	< 0.01		< 0.1	< 0.003		0.029	< 0.01	< 1	< 1
MW-17A	2/22/01	11.5	210	< 4 UJ	< 0.2	< 0.01	< 0.01	27.4 E	26.9 E	< 0.003	3.6 E	3.4 E	< 0.01	< 0.5	< 0.5
MW-17B	2/22/01	100	320	< 23 J	< 0.2	< 0.01	< 0.01	27.9 E	28.2 E	< 0.003	0.61 E	0.58 E	< 0.01	< 1	2
MW-1A	2/21/01	< 1			< 0.2	< 0.01	< 0.01		< 0.1	< 0.003		0.021	< 0.01	< 1	< 1
MW-1B	2/21/01	2.3	65	< 4	0.38	< 0.01	< 0.01		< 0.1	< 0.003	0.51 E	0.51 E	< 0.01	< 1	< 1
MW-2A	2/23/01	< 1	26	7	< 0.2	< 0.01	< 0.01	3 E	3.4 E	< 0.003	0.41 E	0.42 E	< 0.01	< 1	< 1
MW-2B	2/22/01	19.9	93	< 4 UJ	0.28	< 0.01	< 0.01		< 0.1	< 0.003	2.3 E	2.2 E	< 0.01	< 1	< 1
MW-2B	2/22/01	20	97	< 4 UJ	0.27	< 0.01	< 0.01		< 0.1	< 0.003	2.2 E	2.2 E	< 0.01	< 1	< 1
MW-3A	2/23/01	3.5	84	< 4	< 0.2	< 0.01	< 0.01	4 E	4.2 E	< 0.003	1.1 E	1.1 E	< 0.01	< 1	< 1
MW-3B	2/23/01	274 E	1400	80	< 0.2	0.02	< 0.01	42.6 E	41.5 E	< 0.003	0.057 E	0.054 E	< 0.01	< 6.7	< 6.7

Notes:

D - Duplicate

J - Estimated result. Result is less than reporting limit.

U - Analyte is non-detected with the associated value being the quantitation limit.

E - Result exceeds Enforcement Standard

TABLE 2.3

**SUMMARY OF DETECTED COMPOUNDS
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

Location	Date		Chloride mg/L	Solids, Total Dissolved mg/L	Solids, Total Suspended mg/L	Aluminum mg/L	Arsenic mg/L	Chromium mg/L	Iron, Dissolved mg/L	Iron mg/L	Lead mg/L	Manganese, Dissolved mg/L	Manganese mg/L	Thallium mg/L	1,1,1-Trichloroethane ug/L	1,1-Dichloroethane ug/L
Wisconsin Enforcement Standards			250				0.05	0.1	0.3	0.3	0.015	0.05	0.05	0.002	200	850
MW-3C	2/23/01		207	1200	56	< 0.2	0.023	< 0.01	29.6 E	28.4 E	< 0.003		0.03	< 0.01	< 6.7	< 6.7
MW-3C	2/23/01	D	214	1200	58	< 0.2	0.026	< 0.01	30.1 E	30.7 E	< 0.003		0.032	< 0.01	< 10	< 10
MW-4A	2/23/01		22.3	620	37	< 0.2	0.017	< 0.01	60.3 E	65.5 E	< 0.003	1.9 E	1.9 E	< 0.01	< 1	0.4 J
MW-4B	2/23/01		13.9	710	99	< 0.2	0.016	< 0.0016	110 E	103 E	< 0.0015	0.45 E	0.42 E	< 0.0071	< 2	< 2
MW-5A	2/22/01		1.3	360	28 J	< 0.2	< 0.01	< 0.01	65.2 E	63.6 E	< 0.003	22.1 E	23.7 E	0.01 E	< 0.5	< 0.5
MW-5B	2/22/01		21.5	620	58 J	< 0.2	< 0.01	< 0.01	113 E	108 E	< 0.003	4.9 E	4.6 E	< 0.01	< 1	< 1
MW-5B	2/22/01	R													< 2	< 2
MW-5C	2/22/01		2.8	94	< 4 U	< 0.2	< 0.01	< 0.01		< 0.1	< 0.003	1.8 E	1.8 E	< 0.01	< 0.5	< 0.5
MW-6A	2/21/01		2.2			7.5	< 0.01	0.011		5.8 E	0.0031		0.044	< 0.01	< 1	< 1
MW-7A	2/23/01		195	1200	95	< 0.2	0.027	< 0.01	58.8 E	57.5 E	< 0.003	0.2 E	0.2 E	< 0.01	< 10	< 10
MW-8A	2/23/01		90.4	190	< 4	< 0.2	< 0.01	< 0.01		< 0.1	< 0.003	0.64 E	0.67 E	< 0.01	4.1	2.8
MW-9A	2/21/01		33.5	140	25 J	0.25	< 0.01	< 0.01	1.3 E	2.2 E	< 0.003	0.51 E	0.52 E	< 0.01	< 1	< 1
MW-9B	2/21/01		42.7	250	25 J	< 0.2	< 0.01	< 0.01	22.1 E	22.7 E	< 0.003	1.5 E	1.7 E	< 0.01	< 1	0.86 J
MW-9B	2/21/01	D	43.3	280	< 4 U	< 0.2	< 0.01	< 0.01	20.9 E	23 E	< 0.003	1.4 E	1.7 E	< 0.01	< 1	0.86 J
MW-9C	2/21/01		< 1			0.25	< 0.01	< 0.01		0.12	< 0.003		< 0.015	< 0.01	< 1	< 1
BOEHM, JULIE	2/22/01		< 1			< 0.2	< 0.01	< 0.01		1.9 E	< 0.003		0.038	< 0.01	< 0.5	< 0.5
KENWORTHY	2/22/01		6			< 0.2	< 0.01	< 0.01		< 0.1	< 0.003		< 0.015	< 0.01	< 0.5	< 0.5
PLEUSS, JOHN	2/21/01		88.8	300	< 4 U	< 0.2	< 0.01	< 0.01		0.34 E	< 0.003	0.068 E	0.065 E	< 0.01	< 0.5	< 0.5
PLEUSS, TOM	2/21/01		10			< 0.2	< 0.01	< 0.01		0.17	< 0.003		0.038	< 0.01	< 0.5	< 0.5
PLEUSS, TOM RENTAL	2/21/01		19			< 0.2	< 0.01	< 0.01		< 0.1	0.003		< 0.015	< 0.01	< 0.5	< 0.5
PLEUSS, TOM RENTAL	2/21/01	D	19			< 0.2	< 0.01	< 0.01		0.1	< 0.003		< 0.015	< 0.01	< 0.5	< 0.5
RIPP WELL	2/22/01		4.8	130	< 4 U	< 0.2	< 0.01	< 0.01	< 0.1	0.18	< 0.003	0.3 E	0.31 E	< 0.01	< 0.5	< 0.5
THUNDERCLOUD	2/22/01		1.7	72	< 4 U	< 0.2	< 0.01	< 0.01		< 0.1	< 0.003	0.057 E	0.062 E	< 0.01	< 0.5	< 0.5
ZDROJOUY	2/21/01		10.4			< 0.2	< 0.01	< 0.01		0.15	< 0.003		0.024	< 0.01	< 0.5	< 0.5

Notes:

D - Duplicate.

J - Estimated result. Result is less than reporting limit.

U - Analyte is non-detect with the associated value being the quantitation limit

E - Result exceeds Enforcement Standard

TABLE 2.3

SUMMARY OF DETECTED COMPOUNDS
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN

Location	Date	1,1-Dichloroethene ug/L	1,2-Dichloroethane ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	2-Chlorotoluene ug/L	Acetone ug/L	Benzene ug/L	Carbon disulfide ug/L	Chlorobenzene ug/L	Chloroethane ug/L	Chloroform ug/L	cis-1,2-Dichloroethene ug/L	Dichlorodifluoromethane ug/L	Ethylbenzene ug/L
Wisconsin Enforcement Standards		7	5	5	75		1000	5	1000		400	6	70	1000	700
MW-10A	2/22/01	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-11A	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-11B	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-11C	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-12A	2/20/01	< 1	< 1	< 1			< 10	0.42 J	< 1	< 1	0.67 J	< 1	7.4	< 1	< 1
MW-12B	2/20/01	0.39 J	< 1	< 1			< 10	< 1	< 1	< 1	0.35 J	< 1	4.8	< 1	< 1
MW-12C	2/20/01	5.4	< 1	0.9 J			< 10	0.67 J	< 1	< 1	0.88 J	0.33 J	30	13	< 1
MW-13A	2/21/01	< 5	5.5 E	2 J			< 50	11 E	< 5	< 5	3 J	< 5	35	< 5	< 5
MW-13B	2/21/01	< 1	0.54 J	< 1			< 10	< 1	< 1	< 1	< 2	< 1	2.4	< 1	< 1
MW-14A	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-14B	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-14C	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-14C	2/20/01	D	< 1	< 1	< 1		< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-15A	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-15B	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-15C	2/20/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-16C	2/21/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-17A	2/22/01	< 0.5	< 0.5	< 0.5	2.3	< 0.5		1.9		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-17B	2/22/01	< 1	< 1	0.37 J			< 10	2.8	< 1	< 1	1.1 J	< 1	20	< 1	< 1
MW-1A	2/21/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-1B	2/21/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-2A	2/23/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	2	< 1
MW-2B	2/22/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	4	< 1
MW-2B	2/22/01	D	< 1	< 1	< 1		< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	4.2	< 1
MW-3A	2/23/01	< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	3.8	< 1
MW-3B	2/23/01	< 6.7	< 6.7	< 6.7			< 67	33 E	< 6.7	3.9 J	< 13	< 6.7	< 3.3	< 6.7	36

Notes:

D - Duplicate.

J - Estimated result. Result is less than reporting limit.

U - Analyte is non-detect with the associated value being the quantitation limit.

E - Result exceeds Enforcement Standard.

TABLE 2.3

**SUMMARY OF DETECTED COMPOUNDS
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

Location	Date		1,1-Dichloroethene ug/L	1,2-Dichloroethane ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	2-Chlorotoluene ug/L	Acetone ug/L	Benzene ug/L	Carbon disulfide ug/L	Chlorobenzene ug/L	Chloroethane ug/L	Chloroform ug/L	dis-1,2-Dichloroethene ug/L	Dichlorodifluoromethane ug/L	Ethylbenzene ug/L
Wisconsin Enforcement Standards			7	5	5	75		1000	5	1000		400	6	70	1000	700
MW-3C	2/23/01		< 6.7	< 6.7	3.3 J			< 67	35 E	< 6.7	2.6 J	2.8 J	< 6.7	< 3.3	< 6.7	18
MW-3C	2/23/01	D	< 10	< 10	3.6 J			< 100	34 E	< 10	< 10	< 20	< 10	< 5	< 10	17
MW-4A	2/23/01		< 1	< 1	< 1			< 10	11 E	< 1	3.4	0.72 J	< 1	0.19 J	< 1	2.7
MW-4B	2/23/01		< 2	< 2	0.8 J			< 20	9.2 E	< 2	0.92 J	1.3 J	< 2	< 1	< 2	< 2
MW-5A	2/22/01		< 0.5	< 0.5	< 0.5	18	< 0.5		1.2		6.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5B	2/22/01		< 1	< 1	< 1	28	6		9.4 E		5.7	4.5	< 1	< 1	< 1	1
MW-5B	2/22/01	R	< 2	< 2	< 2	29	5.6		10 E		5.7	4.9	< 2	< 2	< 2	< 2
MW-5C	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-6A	2/21/01		< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
MW-7A	2/23/01		< 10	< 10	4.8 J			< 100	21 E	< 10	< 10	4.6 J	< 10	< 5	< 10	37
MW-8A	2/23/01		< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	0.22 J	< 1	< 1
MW-9A	2/21/01		< 1	< 1	< 1			< 10	0.37 J	< 1	< 1	< 2	< 1	0.59	< 1	< 1
MW-9B	2/21/01		< 1	< 1	< 1			< 10	3.5	< 1	< 1	0.71 J	< 1	3.6	< 1	< 1
MW-9B	2/21/01	D	< 1	< 1	< 1			< 10	3.7	< 1	< 1	0.94 J	< 1	3.8	< 1	< 1
MW-9C	2/21/01		< 1	< 1	< 1			< 10	< 1	< 1	< 1	< 2	< 1	< 0.5	< 1	< 1
BOEHM, JULIE	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
KENWORTHY	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PLEUSS, JOHN	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PLEUSS, TOM	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PLEUSS, TOM RENTAL	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PLEUSS, TOM RENTAL	2/21/01	D	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RIPP WELL	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
THUNDERCLOUD	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ZDROJOUY	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:

D - Duplicate.

J - Estimated result. Result is less than reporting limit.

U - Analyte is non-detect with the associated value being the quantitation limit.

E - Result exceeds Enforcement Standard.

TABLE 2.3

**SUMMARY OF DETECTED COMPOUNDS
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

Location	Date		Methylene chloride ug/L	o-Xylene ug/L	Tetrachloroethene ug/L	Toluene ug/L	trans-1,2-Dichloroethene ug/L	Trichloroethene ug/L	Trichlorofluoromethane ug/L	Vinyl chloride ug/L	Xylenes, Total ug/L
Wisconsin Enforcement Standards			5	10000	5	343	100	5	3490	0.2	10000
MW-10A	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-11A	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-11B	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-11C	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-12A	2/20/01		0.41 J		0.42 J	< 1	< 0.5	< 1	< 1	6.9 E	< 1
MW-12B	2/20/01		0.47 J		1.1	< 1	< 0.5	0.34 J	< 1	4.2 E	< 1
MW-12C	2/20/01		5.5 E		17 E	< 1	0.32 J	3.6	5.3	5.4 E	0.88 J
MW-13A	2/21/01		5.6 E		< 5	< 5	< 2.5	< 5	< 5	120 E	< 5
MW-13B	2/21/01		0.55 J		< 1	< 1	< 0.5	< 1	< 1	0.9 E	< 1
MW-14A	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-14B	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-14C	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-14C	2/20/01	D	< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-15A	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-15B	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-15C	2/20/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-16C	2/21/01		< 1		< 1	1.9	< 0.5	< 1	< 1	< 0.5	< 1
MW-17A	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	6 E	
MW-17B	2/22/01		2.7		< 1	0.6 J	0.26 J	0.98 J	< 1	30 E	< 1
MW-1A	2/21/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-1B	2/21/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
MW-2A	2/23/01		< 1		< 1	< 1	< 0.5	< 1	< 1	5.9 E	< 1
MW-2B	2/22/01		< 1		< 1	< 1	< 0.5	< 1	< 1	5.7 E	< 1
MW-2B	2/22/01	D	< 1		< 1	< 1	< 0.5	< 1	< 1	6 E	< 1
MW-3A	2/23/01		< 1		< 1	< 1	< 0.5	< 1	< 1	8.2 E	< 1
MW-3B	2/23/01		6.7		< 6.7	18	< 3.3	< 6.7	< 6.7	170 E	98

Notes:

D - Duplicate

J - Estimated result. Result is less than reporting limit

U - Analyte is non-detect with the associated value being the quantitation limit

E - Result exceeds Enforcement Standard

TABLE 2.3

**SUMMARY OF DETECTED COMPOUNDS
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

Location	Date		Methylene chloride ug/L	o-Xylene ug/L	Tetrachloroethene ug/L	Toluene ug/L	trans-1,2-Dichloroethene ug/L	Trichloroethene ug/L	Trichlorofluoromethane ug/L	Vinyl chloride ug/L	Xylenes, Total ug/L
Wisconsin Enforcement Standards			5	10000	5	343	100	5	3490	0.2	10000
MW-3C	2/23/01		< 6.7		< 6.7	13	< 3.3	< 6.7	< 6.7	190 E	39
MW-3C	2/23/01	D	< 10		< 10	13	< 5	< 10	< 10	190 E	36
MW-4A	2/23/01		< 1		< 1	0.4 J	< 0.5	< 1	< 1	6.6 E	3
MW-4B	2/23/01		< 2		< 2	0.88 J	< 1	< 2	< 2	44 E	< 2
MW-5A	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1 E	
MW-5B	2/22/01		< 1	2.6	< 1	< 1	< 1	< 1	< 1	54 JE	
MW-5B	2/22/01	R	< 2	2.3	< 2	< 2	< 2	< 2	< 2	55 E	
MW-5C	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-6A	2/21/01		< 1		< 1	< 1	< 0.5	< 1	< 1	0.5	< 1
MW-7A	2/23/01		< 10		< 10	19	< 5	< 10	< 10	220 E	110
MW-8A	2/23/01		< 1		< 1	< 1	< 0.5	< 1	< 1	25 E	< 1
MW-9A	2/21/01		< 1		< 1	< 1	< 0.5	< 1	< 1	4.1 E	< 1
MW-9B	2/21/01		< 1		< 1	< 1	< 0.5	< 1	< 1	32 E	< 1
MW-9B	2/21/01	D	< 1		< 1	< 1	< 0.5	< 1	< 1	33 E	< 1
MW-9C	2/21/01		< 1		< 1	< 1	< 0.5	< 1	< 1	< 0.5	< 1
BOEHM, JULIE	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
KENWORTHY	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
PLEUSS, JOHN	2/21/01		0.58	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
PLEUSS, TOM	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
PLEUSS, TOM RENTAL	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
PLEUSS, TOM RENTAL	2/21/01	D	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
RIPP WELL	2/22/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
THUNDERCLOUD	2/22/01		0.67	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
ZDROJOUY	2/21/01		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	

Notes:

D - Duplicate.

J - Estimated result. Result is less than reporting limit.

U - Analyte is non-detect with the associated value being the quantitation limit.

E - Result exceeds Enforcement Standard.

TABLE 2.4

SUMMARY OF EXCEEDENCES
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN

Compound	ES	Units	Number of Exceedences				Date of Most Recent
			1994-2000	Jul-00	Nov-00	Feb-01	Recent
bis(2-ethylhexyl)phthalate	6	ug/L	19	0	0	0	10/30/98
Chloride	250	mg/L	18	1	0	1	2/19/01
Fluoride	4	mg/L	6	0	0	0	12/20/96
Nitrogen, Nitrate	10	mg/L	2	0	0	0	8/30/95
Sulfate	250	mg/L	1	0	0	0	9/22/94
Antimony	6	ug/L	3	0	0	0	10/27/98
Arsenic	50	ug/L	12	0	0	0	8/14/97
Barium	2	mg/L	5	0	0	0	10/29/98
Beryllium	4	ug/L	11	0	0	0	8/13/97
Boron	960	ug/L	7	0	0	0	10/29/98
Cadmium	0.005	mg/L	15	0	0	0	8/12/97
Chromium	0.1	mg/L	16	0	0	0	8/13/97
Cobalt	0.04	mg/L	26	0	0	0	10/27/98
Iron	0.3	mg/L	133	20	20	22	2/19/01
Iron, Dissolved	1.3	mg/L	NA	NA	NA	17	2/19/01
Lead	15	ug/L	33	0	0	0	10/30/98
Manganese	0.05	mg/L	134	30	30	27	2/19/01
Manganese, Dissolved	1.05	mg/L	NA	NA	NA	26	2/19/01
Mercury	2	ug/L	8	0	0	0	12/21/96
Nickel	0.1	mg/L	14	0	0	0	8/14/97
Thallium	2	ug/L	56	0	1	1	2/19/01
Vanadium	0.03	mg/L	29	0	0	0	10/30/98
1,2-Dichloroethane	5	ug/L	4	0	0	1	2/19/01
1,2-Dichloroethene, Total	70	ug/L	4	0	0	0	8/28/95
1,2-Dichloropropane	5	ug/L	14	0	1	0	11/15/00
Benzene	5	ug/L	64	7	8	9	2/19/01
Bromodichloromethane	0.6	ug/L	7	0	0	0	12/20/96
cis-1,2-Dichloroethene	70	ug/L	4	0	0	0	8/28/95
Methylene chloride	5	ug/L	9	1	0	2	2/19/01
Tetrachloroethene	5	ug/L	2	1	1	1	2/19/01
Tetrahydrofuran	50	ug/L	1	0	0	0	9/21/94
Toluene	343	ug/L	5	0	0	0	12/20/96
Vinyl chloride	0.2	ug/L	136	16	23	24	2/19/01
1,1-Dichloroethene	7	ug/L	0	1	1	0	11/13/00

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
Blower Inlet	9:55	2/7/01	2.9	9.8	10	77.3	-9.5	9.36	NA	--	--
Blower Inlet	15:27	2/14/01	2	8.7	13.1	76.2	-6.9	6.95	NA	--	--
Blower Inlet	11:19	2/21/01	1.6	8.1	12	78.3	-7.2	7.28	NA	--	--
Blower Inlet	12:53	3/1/01	2.6	9.5	9.7	78.2	-6.6	6.58	NA	--	--
Blower Inlet	14:04	3/6/01	1.9	7.3	11.9	78.9	-6.5	6.43	NA	--	--
Blower Inlet	12:37	3/15/01	1.7	8.1	12	78.2	-7.0	6.89	NA	--	--
Blower Inlet	11:55	3/22/01	2	8.3	11.1	78.6	-7.4	7.14	NA	--	--
Blower Inlet	10:05	3/29/01	1.5	6.8	12.4	79.3	-8.2	8.01	NA	--	--
Blower Inlet	13:32	4/4/01	2.2	10	11.2	76.6	-9.0	8.77	NA	--	--
Blower Inlet	11:37	4/11/01	2.5	8.8	11.4	77.3	-7.1	6.97	NA	--	--
Blower Inlet	12:33	4/18/01	2	8.4	11.6	78	-15.7	15.01	NA	--	--
Blower Inlet	11:35	4/25/01	1.7	8.1	11.6	78.6	-7.9	7.68	NA	--	--
Blower Outlet	10:01	2/7/01	3	9.9	9.8	77.3	-5.4	9.87	72	--	--
Blower Outlet	15:30	2/14/01	2	8.6	10.7	78.7	-5.8	10.15	64	--	--
Blower Outlet	11:25	2/21/01	1.5	8.2	11.7	78.6	-4.4	9.9	58	--	--
Blower Outlet	12:57	3/1/01	2.6	9.5	9.9	78	-5.4	9.4	62	--	--
Blower Outlet	14:07	3/6/01	1.9	7.3	11.5	79.3	-5.8	9.78	70	--	--
Blower Outlet	12:39	3/15/01	1.6	8.2	11.9	78.3	-5.8	9.32	70	--	--
Blower Outlet	11:58	3/22/01	2	8.2	11	78.8	-5.7	9.64	65	--	--
Blower Outlet	10:08	3/29/01	1.6	7.4	12	79	-5.8	9.42	61	--	--
Blower Outlet	13:34	4/4/01	2.3	10	10.9	76.8	-5.0	9.63	74	--	--
Blower Outlet	11:39	4/11/01	2.4	8.3	10.8	78	-5.7	9.08	76	--	--
Blower Outlet	14:45	4/18/01	2.1	8.4	11.4	78.1	-5.6	8.87	73	--	--
Blower Outlet	11:38	4/25/01	1.7	8.1	11.6	78.6	-5.4	9.56	82	--	--
EW01	13:34	2/7/01	0	0.1	19.7	80.2	-1.3	0	23	--	--
EW01	14:24	2/14/01	0	1.8	18.7	79.5	-5.4	0.17	38	15	--
EW01	14:36	2/21/01	0	1.4	19.7	78.9	-5.0	0.17	39	15	--
EW01	13:52	3/1/01	0	1.3	18.6	80.1	-4.3	3.72	39	--	--
EW01	13:15	3/6/01	0	0.9	19.9	79.2	-4.9	0.16	39	14	--
EW01	14:19	3/15/01	0	1	19.7	79.3	-5.4	0.19	38	16	--
EW01	13:32	3/22/01	0	1	19.5	79.5	-5.7	0.17	47	14	--
EW01	12:14	3/29/01	0	1.2	18.8	80	-6.3	0.2	39	16	--
EW01	16:12	4/4/01	0	1.2	19.2	79.6	-3.8	0.07	39	9	--
EW01	15:15	4/11/01	0	1.3	18.7	80	-5.2	0.12	40	13	--
EW01	13:14	4/18/01	0	0.9	19.8	79.3	-5.6	0.14	49	13	--
EW01	14:11	4/25/01	0	0.8	20.3	78.9	-5.9	0.16	45	14	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW02	13:37	2/7/01	0	2.3	18.1	79.6	-4.3	0.17	50	15	--
EW02	14:27	2/14/01	0	2	18.2	79.8	-5.2	0.19	49	15	--
EW02	14:41	2/21/01	0	1.8	19.1	79.1	-5.0	0.22	49	17	--
EW02	13:59	3/1/01	0	1.7	18.2	80.1	-4.3	4.43	49	--	--
EW02	13:13	3/6/01	0	1.3	19.6	79.1	-4.9	0.22	49	17	--
EW02	14:17	3/15/01	0	1.6	19.1	79.3	-5.3	0.24	48	17	--
EW02	13:34	3/22/01	0	1.6	18.8	79.6	-5.6	0.23	47	17	--
EW02	12:16	3/29/01	0	1.4	18.7	79.9	-6.3	0.29	47	20	--
EW02	16:09	4/4/01	0	1.1	19.7	79.2	-4.5	0.1	49	11	--
EW02	15:12	4/11/01	0	1.9	18.2	79.9	-5.2	0.04	48	6	--
EW02	13:17	4/18/01	0	1.5	19	79.5	-5.6	0.1	49	11	--
EW02	14:09	4/25/01	0	1.3	19.5	79.2	-5.8	0.22	53	16	--
EW03	13:39	2/7/01	0	2	18.2	79.8	-4.5	0.04	47	6	--
EW03	14:29	2/14/01	0	1.6	18.5	79.9	-5.5	0.08	47	10	--
EW03	14:44	2/21/01	0	1.3	19.3	79.4	-5.3	0.06	47	7	--
EW03	14:01	3/1/01	0	1.2	18.7	80.1	-4.5	4.18	49	--	--
EW03	13:11	3/6/01	0	0.9	20	79.1	-5.2	0.09	47	11	--
EW03	14:15	3/15/01	0	1.1	19.7	79.2	-5.6	0.09	47	11	--
EW03	13:36	3/22/01	0	1	19.5	79.5	-5.8	0.08	48	10	--
EW03	12:18	3/29/01	0	1.1	19.2	79.7	-6.6	0.1	45	11	--
EW03	16:07	4/4/01	0	0.9	19.8	79.3	-5.0	0.08	47	10	--
EW03	15:10	4/11/01	0	1.1	18.9	80	-5.4	0.08	46	10	--
EW03	13:21	4/18/01	0	0.9	19.7	79.4	-5.9	0.07	53	9	--
EW03	14:07	4/25/01	0	0.9	20.1	79	-6.1	0.07	52	9	--
EW04	13:41	2/7/01	0	2	18.2	79.8	-5.0	0.07	43	9	--
EW04	14:31	2/14/01	0	1.6	18.5	79.9	-5.7	0.05	42	6	--
EW04	14:46	2/21/01	0	1.2	19.4	79.4	-5.2	0.06	43	7	--
EW04	14:15	3/1/01	0	1.5	18.2	80.3	-4.7	4.67	44	--	--
EW04	13:08	3/6/01	0	0.8	20	79.2	-5.2	0.05	41	6	--
EW04	14:13	3/15/01	0	1.1	19.6	79.3	-5.5	0.05	42	7	--
EW04	13:38	3/22/01	0	0.9	19.5	79.6	-6.0	0.06	44	8	--
EW04	12:20	3/29/01	0	1.1	19.2	79.7	-6.6	0.07	41	9	--
EW04	16:04	4/4/01	0	0.9	19.8	79.3	-5.4	0.05	45	7	--
EW04	15:08	4/11/01	0	1.2	18.8	80	-5.6	0.05	43	6	--
EW04	13:24	4/18/01	0	0.9	19.6	79.5	-5.9	0.05	52	6	--
EW04	14:05	4/25/01	0	0.9	20	79.1	-6.2	0.05	50	6	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW05	13:43	2/7/01	0	3.6	16.7	79.7	-5.0	0.06	46	8	--
EW05	14:34	2/14/01	0	3.8	16	80.2	-5.8	0.02	45	2	--
EW05	14:48	2/21/01	0	3.6	16.9	79.5	-5.4	0.03	47	4	--
EW05	14:17	3/1/01	0	3.5	15.9	80.6	-4.4	4.74	49	--	--
EW05	13:06	3/6/01	0	2.8	17.2	80	-5.2	0.02	47	2	--
EW05	14:11	3/15/01	0	3.2	17	79.8	-5.7	0.01	47	1	--
EW05	13:40	3/22/01	0	3.3	16.6	80.1	-6.0	0.02	49	3	--
EW05	12:22	3/29/01	0	3.6	16.3	80.1	-6.8	0.02	47	2	--
EW05	16:01	4/4/01	0	3.1	17.2	79.7	-5.0	0.04	52	5	--
EW05	15:05	4/11/01	0	4.4	14.8	80.8	-5.8	0.03	48	4	--
EW05	13:27	4/18/01	0	3.8	16.2	80	-5.9	0	52	0	--
EW05	14:03	4/25/01	0	3.4	17.1	79.5	-6.3	0.01	56	1	--
EW06	13:45	2/7/01	0	4.6	15.8	79.6	-4.6	0.06	56	7	--
EW06	14:36	2/14/01	0	4.7	15.1	80.2	-5.4	0.04	55	4	--
EW06	14:51	2/21/01	0.2	5.4	15.1	79.3	-4.9	0.09	55	10	--
EW06	14:19	3/1/01	0.3	5.3	14.2	80.2	-4.4	4.5	55	--	--
EW06	13:03	3/6/01	0.1	3.5	16.2	80.2	-4.9	0.07	55	8	--
EW06	14:09	3/15/01	0.2	4.6	15.6	79.6	-5.3	0.06	55	7	--
EW06	13:42	3/22/01	0.3	4.7	15.3	79.7	-5.6	0.08	55	9	--
EW06	12:24	3/29/01	0.1	4.5	15.4	80	-6.3	0.08	53	10	--
EW06	15:58	4/4/01	0	3.4	16.7	79.9	-4.8	0.13	53	12	--
EW06	15:02	4/11/01	0.5	5.7	13.8	80	-5.2	0.07	56	9	--
EW06	13:29	4/18/01	0.3	4.6	15.3	79.8	-5.7	0.08	56	9	--
EW06	14:01	4/25/01	0.3	4.3	16.1	79.3	-5.9	0.07	59	9	--
EW07	13:48	2/7/01	1.1	9.9	10.6	78.4	-7.0	0.2	53	16	--
EW07	14:38	2/14/01	0.8	9.5	10.4	79.3	-5.8	0.03	53	4	--
EW07	14:53	2/21/01	0.8	9.5	11	78.7	-5.6	0.04	53	4	--
EW07	14:05	3/1/01	9.7	17.9	1.8	70.6	-6.2	6.38	43	--	--
EW07	14:22	3/1/01	1.4	9.9	9.8	78.9	-5.6	5.58	55	--	--
EW07	13:01	3/6/01	0.7	6.6	11.9	80.8	-5.6	0.04	53	6	--
EW07	13:33	3/6/01	3.4	14.3	1.4	80.9	-5.9	0	40	0	--
EW07	14:07	3/15/01	0.8	8.5	11.7	79	-6.0	0.03	55	4	--
EW07	13:44	3/22/01	0.8	8.5	11.1	79.6	-6.5	0.04	55	6	--
EW07	12:27	3/29/01	0.7	7.3	11.8	79.7	-7.1	0.04	53	5	--
EW07	15:56	4/4/01	0.6	8	12.3	79.1	-6.9	0.08	57	9	--
EW07	15:00	4/11/01	1.2	9.5	9.7	79.6	-6.0	0.02	56	2	--
EW07	13:32	4/18/01	0.7	8	12	79.3	-6.3	0.03	57	3	--
EW07	13:58	4/25/01	0.8	7.3	12.4	79	-6.6	0.04	61	4	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW08	13:52	2/7/01	0	1.7	18.1	80.2	-7.9	8.97	31	--	--
EW08	14:41	2/14/01	0	0.4	19.2	80.4	-6.0	3.46	--	--	--
EW08	14:41	2/14/01	0	0.4	19.2	80.4	-5.9	3.46	23	--	--
EW08	14:57	2/21/01	0	0.6	19.8	79.6	-5.7	3.55	51	--	--
EW08	14:24	3/1/01	0	0.3	19.7	80	-5.8	5.51	58	--	--
EW08	12:58	3/6/01	0.9	13.7	2.3	83.1	-5.8	0	41	0	--
EW08	14:04	3/15/01	0.7	13.8	2.7	82.8	-6.0	0	44	0	--
EW08	13:46	3/22/01	0.6	13	3.5	82.9	-6.6	0	44	0	--
EW08	12:30	3/29/01	0.4	12.5	4.4	82.7	-7.3	0	40	0	--
EW08	15:52	4/4/01	0.2	13.7	5.1	81	-7.2	0	50	--	--
EW08	14:58	4/11/01	0.4	13.7	3.8	82.1	-6.2	0	47	0	--
EW08	13:35	4/18/01	0.7	6.4	12.6	80.3	-6.4	0.02	51	2	--
EW08	13:56	4/25/01	0.3	11.8	5.5	82.4	-6.8	-0.01	59	0	--
EW09	13:55	2/7/01	0.5	9	11.1	79.4	-6.1	0.25	43	18	--
EW09	14:44	2/14/01	0.2	8.1	11.1	80.6	-4.8	0.09	42	10	--
EW09	15:01	2/21/01	0.2	12	11.3	76.5	-4.6	0.12	44	12	--
EW09	14:26	3/1/01	0.3	7.9	10.7	81.1	-4.7	4.75	46	--	--
EW09	12:56	3/6/01	0.1	6.1	11.6	82.2	-5.0	0.53	43	27	--
EW09	14:02	3/15/01	0.1	7.4	12	80.5	-5.0	0.1	46	11	--
EW09	13:48	3/22/01	0.2	7.7	10.4	81.7	-5.6	0.08	44	10	--
EW09	12:32	3/29/01	0.1	7.7	10.8	81.4	-6.4	0.09	41	10	--
EW09	15:46	4/4/01	0.1	7.8	11.9	80.2	-5.8	0.06	45	7	--
EW09	14:55	4/11/01	0.2	9.7	9.2	80.9	-5.5	0.01	44	1	--
EW09	13:38	4/18/01	0.2	8.2	11	80.6	-5.5	0.06	52	7	--
EW09	13:53	4/25/01	0.2	6	13.3	80.5	-5.9	0.08	53	10	--
EW10	12:24	2/7/01	0.6	13.5	6.8	79.1	-3.6	0.3	46	20	--
EW10	13:29	2/14/01	0.4	12.7	6.1	80.8	-2.7	0.26	30	--	19.29
EW10	14:00	2/21/01	0.5	13.5	6.8	79.2	-2.7	0.28	43	19	--
EW10	12:34	3/1/01	0.5	16.6	7	75.9	-2.7	0.2	52	16	--
EW10	12:52	3/6/01	0.4	10.5	7.4	81.7	-2.8	0.23	60	17	--
EW10	14:39	3/15/01	0.3	11.4	7.7	80.6	-2.9	0.05	50	6	--
EW10	13:57	3/22/01	0.4	12.1	6.2	81.3	-3.7	0.18	56	15	--
EW10	12:40	3/29/01	0.3	10.8	7.9	81	-4.3	0.18	44	15	--
EW10	15:34	4/4/01	0.4	12.6	8.2	78.8	-4.0	0.3	67	19	--
EW10	15:41	4/11/01	0.6	13.3	5.8	80.3	-3.2	0.17	63	14	--
EW10	13:58	4/18/01	0	0.4	20.3	79.3	-3.4	0.22	67	16	--
EW10	13:41	4/25/01	0.5	11.2	7.9	80.4	-3.8	0.27	74	18	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH₄</i>	<i>CO₂</i>	<i>O₂</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW11	12:27	2/7/01	6.9	16.2	4.2	72.7	-8.0	0.05	33	6	--
EW11	13:32	2/14/01	6.2	14.3	4.2	75.3	-5.8	0.01	27	--	3.63
EW11	14:02	2/21/01	6	14.5	4.9	74.6	-5.9	0.02	40	2	--
EW11	12:37	3/1/01	6.5	15.2	4	74.3	-5.9	0	41	0	--
EW11	13:43	3/6/01	5.2	12.2	5.1	77.5	-5.8	0.01	42	1	--
EW11	13:28	3/15/01	5.4	14.6	4.4	75.6	-6.2	0.02	51	2	--
EW11	14:07	3/22/01	6.3	16.4	1.5	75.8	-6.6	0.02	49	3	--
EW11	12:49	3/29/01	6.2	15.3	2.4	76.1	-7.3	0	40	0	--
EW11	14:24	4/4/01	5.9	18.1	2.8	73.2	-7.8	0.01	64	1	--
EW11	14:25	4/11/01	6.8	17.2	1.3	74.7	-6.1	0.01	48	1	--
EW11	14:02	4/18/01	4.6	12.5	6	76.9	-6.4	0	59	0	--
EW11	13:28	4/25/01	6	14.4	3.9	75.7	-7.0	0	73	0	--
EW12	12:30	2/7/01	3.3	10.8	8.4	77.5	-6.6	0.3	30	--	20.8
EW12	13:35	2/14/01	3.2	10.8	8	78	-5.1	0.18	33	15	--
EW12	15:46	2/21/01	2.8	11.2	8.4	77.6	-4.9	0.19	27	--	16.55
EW12	12:39	3/1/01	3.4	11	7.9	77.7	-4.8	0.16	41	15	--
EW12	13:46	3/6/01	2.8	9.4	8.4	79.4	-4.9	0.18	43	15	--
EW12	13:31	3/15/01	2.4	10.9	8.7	78	-5.4	0.16	53	14	--
EW12	14:09	3/22/01	3.1	10.7	8.3	77.9	-6.0	0.12	49	12	--
EW12	12:52	3/29/01	3.9	10.5	8	77.6	-6.8	0.12	44	12	--
EW12	14:28	4/4/01	3.5	12.5	8.7	75.2	-7.0	0.15	58	13	--
EW12	14:28	4/11/01	4.9	13	6.7	75.4	-5.4	0.13	49	12	--
EW12	14:06	4/18/01	4.3	11.9	7.9	75.9	-5.9	0.12	56	11	--
EW12	13:26	4/25/01	4	10.3	8.5	76.7	-6.4	0.12	70	10	--
EW13	12:37	2/7/01	32.4	31.5	0.9	35.2	-8.4	0	29	--	0
EW13	13:42	2/14/01	25.2	20	1.1	50.7	-6.2	0	29	--	0
EW13	14:06	2/21/01	22.5	24.8	1.6	51.1	-6.0	0.02	35	3	--
EW13	14:11	3/1/01	27.5	24.1	2.4	46	-6.4	6.34	41	--	--
EW13	13:40	3/6/01	22.3	22.7	1.4	53.6	-5.9	0.02	43	3	--
EW13	13:25	3/15/01	21.3	25.2	1.6	51.9	-6.4	0.02	50	3	--
EW13	14:21	3/22/01	22.6	24.3	0.2	52.9	-6.8	0.02	51	3	--
EW13	13:02	3/29/01	21.7	22.5	0.5	55.3	-7.4	0.02	40	3	--
EW13	14:21	4/4/01	23.3	31.4	3.8	41.5	-8.3	0	63	0	--
EW13	14:22	4/11/01	23.2	27.2	0	49.6	-6.2	0.02	47	2	--
EW13	14:13	4/18/01	20.8	24.5	1.2	53.5	-6.6	0	56	0	--
EW13	14:35	4/25/01	17.2	20	4	58.8	-7.0	0.03	74	4	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW14	12:34	2/7/01	7.4	18.5	1.2	72.9	-7.6	0.06	29	--	9.03
EW14	13:38	2/14/01	7.8	17.1	1	74.1	-5.6	0.02	30	--	5.18
EW14	15:50	2/21/01	5.9	18	1	75.1	-5.5	0.06	27	--	9.09
EW14	12:50	3/1/01	8.1	17.4	1.3	73.2	-5.4	0.06	39	7	--
EW14	13:50	3/6/01	5.4	14.9	2.3	77.4	-5.5	0.03	43	4	--
EW14	13:36	3/15/01	5.1	17	2	75.9	0.0	-5.72	50	0	--
EW14	14:17	3/22/01	6.6	17.3	0.8	75.3	-6.4	0.04	50	4	--
EW14	13:05	3/29/01	9.2	17.3	1	72.5	-7.0	-0.07	40	0	--
EW14	14:38	4/4/01	8.8	21.8	1.6	67.8	-7.5	0.04	62	4	--
EW14	14:31	4/11/01	10.5	19.5	0.7	69.3	-5.7	0.03	48	3	--
EW14	14:10	4/18/01	8.2	19.5	1.2	71.1	-6.2	0.03	59	4	--
EW14	13:23	4/25/01	6.7	16.1	3.3	73.9	-6.7	0.03	77	3	--
EW15	12:49	2/7/01	20.9	27.2	0.3	51.6	-8.5	8.38	26	--	--
EW15	13:45	2/14/01	16.9	22.9	0.8	59.4	-6.3	0.03	29	--	6.41
EW15	14:09	2/21/01	13.6	22.3	1.3	62.8	-6.0	0.02	35	2	--
EW15	14:08	3/1/01	17.7	23.9	0.2	58.2	-6.2	6.39	39	--	--
EW15	13:36	3/6/01	12.9	18.6	2.3	66.2	-5.8	0.02	41	2	--
EW15	13:22	3/15/01	11.2	20.2	2.7	65.9	-6.3	0.02	46	3	--
EW15	13:04	3/22/01	12.6	21	0.2	66.2	-6.7	0.02	57	2	--
EW15	11:43	3/29/01	9.9	17.7	1.3	71.1	-7.5	0.02	40	3	--
EW15	14:17	4/4/01	19.6	29.9	0.2	50.3	-8.0	0.02	61	3	--
EW15	14:19	4/11/01	15.4	23.4	0	61.2	-6.2	0.02	48	3	--
EW15	14:16	4/18/01	13	22.6	0.5	63.9	-6.5	0.02	57	3	--
EW15	14:32	4/25/01	10.5	18.4	2.6	68.5	-7.0	0.02	74	2	--
EW16	12:54	2/7/01	3.4	16.5	0	80.1	-8.6	0	29	--	0
EW16	13:51	2/14/01	2.6	14.2	1	82.2	-6.4	0	27	--	--
EW16	16:10	2/21/01	2.6	16.2	0.5	80.7	-6.1	0	30	--	0
EW16	13:17	3/1/01	2.5	14.1	1.6	81.8	-6.3	0	44	0	--
EW16	14:13	3/6/01	2.2	13.3	1.6	82.9	-6.0	0	44	0	--
EW16	12:58	3/15/01	1.8	14.5	2.7	81	-6.4	1.45	48	45	--
EW16	13:02	3/22/01	2.1	15	1.1	81.8	-6.8	-0.01	61	0	--
EW16	11:40	3/29/01	2.2	13.8	1.9	82.1	-7.7	-0.01	40	0	--
EW16	13:49	4/4/01	2.5	17.9	1	78.6	-8.2	0	58	0	--
EW16	13:52	4/11/01	2.7	16.6	0.9	79.8	-6.3	0	49	0	--
EW16	12:48	4/18/01	2.4	13.6	2.9	81.1	-6.7	0	60	0	--
EW16	14:39	4/25/01	2.2	15.2	2.8	79.8	-7.0	0	74	0	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW17	13:16	2/7/01	11.8	21.8	2.6	63.8	-8.5	0.08	26	--	10.45
EW17	13:48	2/14/01	4.1	16.7	0.6	78.6	-6.2	0	25	--	--
EW17	14:15	2/21/01	3.2	16.9	1.3	78.6	-6.0	0.03	36	4	--
EW17	13:19	3/15/01	2.8	13.3	5	78.9	-6.4	0	47	0	--
EW17	13:07	3/22/01	0.7	4.6	15	79.7	-6.6	0	59	0	--
EW17	11:46	3/29/01	0.7	5.9	12.8	80.6	-7.5	0	41	0	--
EW17	14:13	4/4/01	9.9	22.2	2	65.9	-8.4	0.06	60	7	--
EW17	14:16	4/11/01	3.2	17.8	0	79	-6.2	-0.01	48	0	--
EW17	14:19	4/18/01	3.1	17.9	0.3	78.7	-6.5	0.01	60	1	--
EW17	14:29	4/25/01	3.1	15.8	2.1	79	-7.0	0	77	0	--
EW18	12:57	2/7/01	5.4	18.5	0	76.1	-6.6	0.14	29	--	13.92
EW18	13:54	2/14/01	4.3	16.4	0.2	79.1	-5.3	0.05	27	--	8.29
EW18	16:13	2/21/01	4	17.8	0	78.2	-4.9	0.06	29	--	9.06
EW18	13:19	3/1/01	3.9	16.1	0.2	79.8	-4.8	0.08	43	10	--
EW18	14:16	3/6/01	3.2	13.7	1.5	81.6	-4.9	0.07	44	8	--
EW18	13:01	3/15/01	3.2	17	0.3	79.5	-5.6	0.05	50	6	--
EW18	13:09	3/22/01	3	15.2	1.2	80.6	-5.6	0.06	59	8	--
EW18	11:49	3/29/01	3.1	15.2	0.5	81.2	-6.6	0.06	41	7	--
EW18	13:53	4/4/01	2.8	18.3	1	77.9	-6.7	0.07	58	8	--
EW18	13:54	4/11/01	3.1	16	0	80.9	-5.0	0.06	47	8	--
EW18	12:53	4/18/01	2.5	14.4	3.6	79.5	-5.7	0.02	55	2	--
EW18	14:42	4/25/01	3	15.7	1.4	79.9	-6.0	0.05	74	6	--
EW19	13:01	2/7/01	0.1	2.8	17.1	80	-8.4	0	26	--	--
EW19	13:57	2/14/01	0	2.8	17.1	80.1	-6.1	0	27	--	--
EW19	16:16	2/21/01	0	3.1	17	79.9	-5.8	0	29	--	0
EW19	13:22	3/1/01	0	0.6	19.3	80.1	-6.0	0.01	44	1	--
EW19	14:19	3/6/01	0	1.8	17.3	80.9	-5.7	0	42	0	--
EW19	13:15	3/15/01	0	1.3	19.3	79.4	-6.2	0	50	0	--
EW19	13:11	3/22/01	0	0.8	19.6	79.6	-6.4	0	62	0	--
EW19	11:52	3/29/01	0	0.3	19.9	79.8	-7.3	0	40	0	--
EW19	13:56	4/4/01	0	0.3	20.6	79.1	-8.2	0	61	0	--
EW19	13:58	4/11/01	0	1.3	17.3	81.4	-5.9	-0.01	49	0	--
EW19	13:07	4/18/01	0	0.2	20.6	79.2	-6.4	0	61	0	--
EW19	14:45	4/25/01	0	0.7	20.1	79.2	-6.7	0	75	0	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
EW20	13:19	2/7/01	0	12.7	5.9	81.4	-7.1	0.54	26	--	27.78
EW20	14:11	2/14/01	0	11.8	6.2	82	-5.4	0.2	28	--	--
EW20	14:19	2/21/01	0	13.2	5.3	81.5	-5.0	0.16	44	14	--
EW20	13:37	3/1/01	0	12.4	5.6	82	-5.4	0.18	46	15	--
EW20	13:29	3/6/01	0	10.3	7.4	82.3	-4.9	0.14	42	13	--
EW20	14:32	3/15/01	0	12.6	6.5	80.9	-5.4	0.15	45	13	--
EW20	13:22	3/22/01	0	11.6	6.5	81.9	-5.7	0.21	57	16	--
EW20	12:02	3/29/01	0	11.1	6.9	82	-6.4	0.28	44	19	--
EW20	14:09	4/4/01	0	13.3	8.4	78.3	-7.3	0.35	58	21	--
EW20	14:13	4/11/01	0	12.3	6.3	81.4	-5.3	0.13	49	12	--
EW20	13:10	4/18/01	0	11	7.7	81.3	-5.7	0.16	56	14	--
EW20	14:26	4/25/01	0	11	7.4	81.6	-6.1	0.14	75	12	--
GP08	13:28	2/7/01	0	0.3	19.7	80	0.0	0	26	--	--
GP08	14:19	2/14/01	0	0.2	20.2	79.6	0.0	-0.01	21	--	--
GP08	14:28	2/21/01	0	0.2	20.8	79	0.0	0	40	--	--
GP08	13:44	3/1/01	0	0.1	20.3	79.6	0.0	-0.01	49	--	--
GP08	13:22	3/6/01	0	0	21.4	78.6	0.0	0	39	--	--
GP08	14:27	3/15/01	0	0	21	79	0.0	0	40	--	--
GP08	13:28	3/22/01	0	0	20.7	79.3	0.0	0	55	--	--
GP08	12:09	3/29/01	0	0.2	20.2	79.6	0.0	0.01	37	--	--
GP08		4/4/01	DATA WAS NOT SAVED IN GEM					0.0	0	65	--
GP08	15:22	4/11/01	0	0.2	20.2	79.6	0.0	-0.02	51	--	--
GP08	12:16	4/18/01	0	0.1	20.9	79	0.0	-0.02	58	--	--
GP08	14:18	4/25/01	0	0	21.3	78.7	0.0	0.03	74	--	--
GP09	11:16	2/7/01	0	0.4	20	79.6	0.0	0	--	--	--
GP09	12:13	2/14/01	0	0.3	20.3	79.4	0.0	0.01	--	--	--
GP09	11:51	2/21/01	0	0.3	20.1	79.6	0.0	0.01	--	--	--
GP09	11:45	3/1/01	0	0.3	20.3	79.4	0.0	0	--	--	--
GP09	11:58	3/6/01	0	0.1	20.7	79.2	0.0	0.01	--	--	--
GP09	11:03	3/15/01	0	0.3	20.8	78.9	0.0	0.02	--	--	--
GP09	12:38	3/22/01	0	0.2	20.4	79.4	0.0	0.05	--	--	--
GP09	10:44	3/29/01	0	0.2	20.4	79.4	0.0	0.05	--	--	--
GP09	13:21	4/4/01	0	0.1	21.1	78.8	0.0	0.02	--	--	--
GP09	12:48	4/11/01	0	0.2	20.5	79.3	0.0	0.02	--	--	--
GP09	12:07	4/18/01	0	0.1	20.7	79.2	0.0	0	--	--	--
GP09	12:48	4/25/01	0	0.3	20.5	79.2	0.0	0.01	--	--	--

TABLE 3.1

GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN

Location	Time	Date	CH4	CO2	O2	Balance	Static Pressure	Diff Pressure	Temperature	Adjusted Flow	Calculated Flow (SCFM)
GP15	10:25	2/7/01	0	0.6	19.9	79.5	-0.3	0.33	--	--	--
GP15	11:27	2/14/01	0	0.4	19.6	80	-0.3	0.34	--	--	--
GP15	12:59	2/21/01	0	0.6	20	79.4	0.0	0.01	--	--	--
GP15		3/1/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP15		3/6/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP15	10:13	3/15/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP15		3/22/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP15		3/29/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP15	12:43	4/4/01	0	0.4	20.5	79.1	-0.1	0.14	--	--	--
GP15	11:53	4/11/01	0	1.1	19.1	79.8	0.0	-0.03	--	--	--
GP15	11:15	4/18/01	0	0.7	20.3	79	0.0	0	--	--	--
GP15	11:52	4/25/01	0	0.6	20	79.4	-0.3	0.29	--	--	--
GP16	11:09	2/7/01	0	0.1	20.3	79.6	-0.1	0.17	--	--	--
GP16	12:04	2/14/01	0	0	20.6	79.4	-0.2	0.25	--	--	--
GP16	12:03	2/21/01	0	0	20.8	79.2	-0.2	0.21	--	--	--
GP16	11:37	3/1/01	0	0	20.6	79.4	-0.1	0.12	--	--	--
GP16	11:43	3/6/01	0	0	21.2	78.8	-0.2	0.23	29	--	--
GP16	10:55	3/15/01	0	0.1	21.1	78.8	-0.2	0.27	--	--	--
GP16		3/22/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP16		3/29/01	INNER CASING FILLED WITH ICE/WATER...PROBE NOT ACCESSIBLE							--	--
GP16	13:13	4/4/01	0	0.1	21.2	78.7	-0.2	0.29	--	--	--
GP16	12:42	4/11/01	0	0.1	20.5	79.4	-0.3	0.31	50	--	--
GP16	12:02	4/18/01	0	0.1	20.7	79.2	-0.2	0.35	--	--	--
GP16	12:41	4/25/01	0	0.1	20.8	79.1	-0.3	0.37	--	--	--
GP17	11:03	2/7/01	0	0.1	20.3	79.6	0.0	0.07	24	--	--
GP17	11:56	2/14/01	0	0.1	20.5	79.4	-0.1	0.1	23	--	--
GP17	12:12	2/21/01	0	0	21	79	0.0	0.08	14	--	--
GP17	11:27	3/1/01	0	0.1	20.3	79.6	0.0	0.06	35	--	--
GP17	11:36	3/6/01	0	0	21.2	78.8	0.0	0.07	38	--	--
GP17	10:45	3/15/01	0	0	21.3	78.7	0.0	0.12	39	--	--
GP17	12:30	3/22/01	0	0.1	20.6	79.3	-0.1	0.11	66	--	--
GP17	10:39	3/29/01	0	0	20.6	79.4	-0.1	0.16	40	--	--
GP17	13:07	4/4/01	0	0	21.3	78.7	0.0	0.09	61	--	--
GP17	12:33	4/11/01	0	0.2	20.5	79.3	-0.1	0.08	53	--	--
GP17	11:55	4/18/01	0	0	20.9	79.1	0.0	0.1	61	--	--
GP17	12:32	4/25/01	0	0.1	20.8	79.1	0.0	0.12	73	--	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH4</i>	<i>CO2</i>	<i>O2</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
GP18	14:02	2/7/01	0	0.3	19.5	80.2	-0.4	0.44	31	--	--
GP18	14:50	2/14/01	0	0.2	19.8	80	-0.2	0.33	22	--	--
GP18	15:10	2/21/01	0	0.2	20.1	79.7	-0.1	0.12	14	--	--
GP18	14:34	3/1/01	0	0.2	19.5	80.3	-0.1	0.08	47	--	--
GP18	14:38	3/6/01	0	0	21	79	0.0	0	43	--	--
GP18	13:59	3/15/01	0	0.1	20.7	79.2	-0.4	0.44	52	--	--
GP18	13:54	3/22/01	0	0.1	20.5	79.4	-0.7	0.7	54	--	--
GP18	12:38	3/29/01	0	0.1	20.2	79.7	-1.2	1.2	40	--	--
GP18	15:41	4/4/01	0	0.1	20.4	79.5	-0.6	0.63	65	--	--
GP18	15:37	4/11/01	0	0.5	18.4	81.1	0.0	0.13	54	--	--
GP18	13:45	4/18/01	0	0.4	20.1	79.5	-0.4	0.47	64	--	--
GP18	13:49	4/25/01	0	0.3	20.6	79.1	-0.8	0.82	83	--	--
GP19	14:11	2/7/01	0	0.6	19.4	80	-0.5	0.49	31	--	--
GP19	14:58	2/14/01	0	0.3	19.8	79.9	-0.3	0.38	25	--	--
GP19	15:21	2/21/01	0	0.3	20.2	79.5	-0.2	0.34	23	--	--
GP19	14:42	3/1/01	0	0.2	20	79.8	0.0	-0.18	44	--	--
GP19	14:46	3/6/01	0	0.1	21.2	78.7	-0.3	0.36	33	--	--
GP19	14:46	3/15/01	0	0.2	20.7	79.1	-0.4	0.4	38	--	--
GP19	14:03	3/22/01	0	0.3	20.4	79.3	-1.2	1.26	48	--	--
GP19	12:46	3/29/01	0	0.6	19.7	79.7	-1.7	1.74	39	--	--
GP19	15:31	4/4/01	0	0.6	20	79.4	-1.3	1.4	69	--	--
GP19	15:47	4/11/01	0	0.6	15.8	80.6	-0.9	0.9	51	--	--
GP19	13:53	4/18/01	0	0.4	20.4	79.2	-1.1	1.1	60	--	--
GP19	13:36	4/25/01	0	0.4	20.3	79.3	-1.3	1.21	77	--	--
GP20	14:32	2/7/01	0	2.4	18.4	79.2	-0.5	0.62	31	--	--
GP20	15:19	2/14/01	0	1.9	18.9	79.2	-0.5	0.56	23	--	--
GP20	15:42	2/21/01	0	1.7	19.4	78.9	-0.3	0.38	36	--	--
GP20	12:45	3/1/01	0	1.5	19.1	79.4	-0.3	0.39	39	--	--
GP20	15:06	3/6/01	0	1.1	19.8	79.1	-0.2	0.36	40	--	--
GP20	13:47	3/15/01	0	1.3	19.4	79.3	-0.4	0.46	53	--	--
GP20	14:13	3/22/01	0	0.4	20.2	79.4	-1.0	0.98	49	--	--
GP20	12:57	3/29/01	0	0.6	19.8	79.6	-1.3	1.29	41	--	--
GP20	14:33	4/4/01	0	1	20.1	78.9	-1.2	1.24	62	--	--
GP20	14:47	4/11/01	0	1.5	18.5	80	-1.2	1.23	49	--	--
GP20	14:38	4/18/01	0	1	19.3	79.7	-1.0	1.04	58	--	--
GP20	15:07	4/25/01	0	1.7	18.4	79.9	-1.1	1.15	72	--	--

TABLE 3.1

**GAS EXTRACTION SYSTEM SUMMARY
FEBRUARY 1 THROUGH APRIL 30, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN**

<i>Location</i>	<i>Time</i>	<i>Date</i>	<i>CH₄</i>	<i>CO₂</i>	<i>O₂</i>	<i>Balance</i>	<i>Static Pressure</i>	<i>Diff Pressure</i>	<i>Temperature</i>	<i>Adjusted Flow</i>	<i>Calculated Flow (SCFM)</i>
GP21	14:39	2/7/01	0	0.1	19.6	80.3	0.1	-0.11	27	--	--
GP21	15:24	2/14/01	0	0	20.1	79.9	-0.3	0.38	23	--	--
GP21	16:30	2/21/01	0	0	20.4	79.6	-0.2	0.27	24	--	--
GP21	13:04	3/1/01	0	0	20.5	79.5	-0.2	0.26	43	--	--
GP21	13:57	3/6/01	0	0	21	79	-0.3	0.35	47	--	--
GP21	12:51	3/15/01	0	0	20.9	79.1	-0.4	0.45	57	--	--
GP21	12:56	3/22/01	0	0	20.9	79.1	-1.6	1.57	55	--	--
GP21	11:32	3/29/01	0	0	20.4	79.6	-2.0	1.93	38	--	--
GP21	13:44	4/4/01	0	0	21.2	78.8	-1.1	1.13	62	--	--
GP21	13:47	4/11/01	0	0	20.5	79.5	-0.4	0.5	53	--	--
GP21	12:43	4/18/01	0	0	20.8	79.2	-10.4	10.93	58	--	--
GP21	15:00	4/25/01	0	0	21	79	-0.6	0.66	71	--	--
GP22	13:09	2/7/01	0	0.1	20	79.9	0.0	0.01	27	--	--
GP22	14:04	2/14/01	0	0	20.4	79.6	0.0	0.01	22	--	--
GP22	16:22	2/21/01	0	0.1	20.7	79.2	0.0	0	20	--	--
GP22	13:31	3/1/01	0	0	20.4	79.6	0.0	0.03	42	--	--
GP22	14:26	3/6/01	0	0	21.1	78.9	0.0	0.01	41	--	--
GP22	13:09	3/15/01	0	0	21	79	0.0	0.02	49	--	--
GP22	11:58	3/29/01	0	0	20.4	79.6	0.0	0.02	38	--	--
GP22	14:04	4/4/01	0	0	21.3	78.7	0.0	0.02	61	--	--
GP22	14:06	4/11/01	0	0	20.5	79.5	0.0	0	49	--	--
GP22	13:01	4/18/01	0	0	21	79	0.0	0.06	56	--	--
GP22	14:52	4/25/01	0	0	21.2	78.8	0.0	0.06	76	--	--

TABLE 3.2
BLOWER DISCHARGE THRESHOLD
FEBRUARY 21, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN

<i>ANALAND</i>	<i>2/21/01 (ppbv)</i>	<i>Molecular Weight</i>	<i>Conversion Factor</i>	<i>Effluent (mg/m3)</i>	<i>Limit (lbs/hr)</i>	<i>Threshold CFM</i>
1,1-Dichloroethane	7.9	98.97	4.12	0.03	67.4568	553,885,939
1,1 Dichloroethene	4.6	96.95	4.03	0.02	1.6656	23,976,751
1,1,1-Trichloroethane	8.4	133.42	5.55	0.05	--	NA
1,2,4-Trimethylbenzene	92	120.19	5.00	0.46	10.4112	6,044,632
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	60	170.93	7.11	0.43	--	NA
1,3,5-Trimethylbenzene	44	120.19	5.00	0.22	10.4112	12,638,777
1,4-Dichlorobenzene	44	147.01	6.11	0.27	--	NA
4-Ethyltoluene	84	120.2	5.00	0.42	--	NA
Acetone	14	58.08	2.42	0.03	--	NA
Benzene	59	48.11	2.00	0.12	--	NA
Chlorobenzene	7.2	112.56	4.68	0.03	29.1480	230,896,551
Chloroethane	31	64.52	2.68	0.08	--	NA
cis-1,2-Dichloroethene	120	96.95	4.03	0.48	65.7912	36,304,797
Dichlorodifluoromethane (Freon 12)	370	120.92	5.03	1.86	--	NA
Ethylbenzene	170	106.16	4.42	0.75	--	NA
Methylene chloride	8.7	84.94	3.53	0.03	29.1480	253,222,632
Tetrachloroethene	51	165.85	6.90	0.35	27.9000	21,175,995
Toluene	340	92.13	3.83	1.30	31.2312	6,400,795
Trichloroethene	30	131.40	5.47	0.16	22.4856	36,619,560
Trichlorofluoromethane (Freon 11)	92	137.38	5.71	0.53	--	NA
Vinyl chloride	1600	62.5	2.60	4.16	--	NA
Xylenes	490	106.16	4.42	2.16	36.2280	4,471,082

TABLE 3.3

MASS LOADING CALCULATIONS
FEBRUARY 21, 2001
TOMAH MUNICIPAL SANITARY LANDFILL
TOMAH, WISCONSIN

ANALAND	2/21/01 (ppbv)	Molecular Weight	Conversion Factor	Effluent (mg/m3)	Blower Discharge (cfm)	Effluent Max		WDNR Limit	
						(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
1,1-Dichloroethane	7.9	98.97	4.12	0.03	181.22	0.0000	0.2	67.4568	--
1,1 Dichloroethene	4.6	96.95	4.03	0.02	181.22	0.0000	0.1	1.6656	--
1,1,1-Trichloroethane	8.4	133.42	5.55	0.05	181.22	0.0000	0.3	--	--
1,2,4-Trimethylbenzene	92	120.19	5.00	0.46	181.22	0.0003	2.7	10.4112	--
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	60	170.93	7.11	0.43	181.22	0.0003	2.5	--	--
1,3,5-Trimethylbenzene	44	120.19	5.00	0.22	181.22	0.0001	1.3	10.4112	--
1,4-Dichlorobenzene	44	147.01	6.11	0.27	181.22	0.0002	1.6	--	--
4-Ethyltoluene	84	120.2	5.00	0.42	181.22	0.0003	2.5	--	--
Acetone	14	58.08	2.42	0.03	181.22	0.0000	0.2	--	--
Benzene	59	48.11	2.00	0.12	181.22	0.0001	0.7	--	300
Chlorobenzene	7.2	112.56	4.68	0.03	181.22	0.0000	0.2	29.148	--
Chloroethane	31	64.52	2.68	0.08	181.22	0.0001	0.5	--	2,103,914
cis-1,2-Dichloroethene	120	96.95	4.03	0.48	181.22	0.0003	2.9	65.7912	--
Dichlorodifluoromethane (Freon 12)	370	120.92	5.03	1.86	181.22	0.0013	11.1	--	--
Ethylbenzene	170	106.16	4.42	0.75	181.22	0.0005	4.5	--	210,391
Methylene chloride	8.7	84.94	3.53	0.03	181.22	0.0000	0.2	29.148	--
Tetrachloroethene	51	165.85	6.90	0.35	181.22	0.0002	2.1	27.9	--
Toluene	340	92.13	3.83	1.30	181.22	0.0009	7.7	31.2312	84,157
Trichloroethene	30	131.40	5.47	0.16	181.22	0.0001	1.0	22.4856	--
Trichlorofluoromethane (Freon 11)	92	137.38	5.71	0.53	181.22	0.0004	3.1	--	--
Vinyl chloride	1600	62.5	2.60	4.16	181.22	0.0028	24.7	--	300
Xylenes	490	106.16	4.42	2.16	181.22	0.0015	12.9	36.228	--

APPENDICES

APPENDIX A
GROUNDWATER LABORATORY DATA
FEBRUARY 2001

12865-70

ANALYTICAL REPORT

MN FILE COPY

Grant Anderson
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 12865-70
TOMAH LANDFILL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

SAMPLE SUMMARY

RECEIVED
MAR 16 2001
CRA, INC.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
DWGTR	A1B220179-001	W-010220-DN-01-15C
DWGT4	A1B220179-002	W-010220-DN-02-15B
DWGVH	A1B220179-003	W-010220-DN-03-15A
DWGVL	A1B220179-004	W-010220-DN-04-12E RB
DWGVN	A1B220179-005	W-010220-DN-05-12B 12C
DWGVW	A1B220179-006	W-010220-DN-06-12A 12B
DWGV1	A1B220179-007	W-010220-DN-07-12A
DWGV5	A1B220179-008	W-010220-DN-08-14C
DWGWQ	A1B220179-009	W-010220-DN-09-14C dup.
DWGWV	A1B220179-010	W-010220-DN-10-14B
DWGW0	A1B220179-011	W-010220-DN-11-14A
DWGW2	A1B220179-012	W-010220-DN-12-11C
DWGW4	A1B220179-013	W-010220-DN-13-11B
DWGW5	A1B220179-014	W-010220-DN-14-11A
DWGW7	A1B220179-015	W-010220-DN-15-12B
DWGW8	A1B220179-016	W-010221-DN-16-16C
DWGW9	A1B220179-017	W-010221-DN-17-1A
DWGXC	A1B220179-018	W-010221-DN-18-1B
DWGXD	A1B220179-019	W-010221-DN-19-6A
DWGXF	A1B220179-020	TRIP BLANKS

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Amy L. McCormick
Project Manager

March 15, 2001

CASE NARRATIVE

A1B220179

The following report contains the analytical results for nineteen water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Tomah Landfill Site, project number 12865-70. The samples were received February 22, 2001, according to documented sample acceptance procedures.

Sample DN-07 was submitted for Dissolved Iron and Manganese but was analyzed for Dissolved Iron only as instructed by Grant Anderson on February 26, 2001.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided to Grant Anderson on March 8, 2001. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES

Reporting limits for 4-Methyl-2-pentanone and Vinyl chloride are lower than our standard reporting limits (SRLs) but are supported by the laboratory's MDLs and/or IDLs; however, there are no standards in the calibration curve low enough to support these values. The continuing calibration blank and method blank may not support the lower RLs.

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

ANALYTICAL METHODS SUMMARY

A1B220179

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Non-Filterable Residue (TSS)	MCAWW 160.2
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1B220179

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DWGTR	001	W-010220-DN-01	02/20/01	
DWGT4	002	W-010220-DN-02	02/20/01	
DWGVH	003	W-010220-DN-03	02/20/01	
DWGVL	004	W-010220-DN-04	02/20/01	
DWGVN	005	W-010220-DN-05	02/20/01	
DWGVW	006	W-010220-DN-06	02/20/01	
DWGV1	007	W-010220-DN-07	02/20/01	
DWGV5	008	W-010220-DN-08	02/20/01	
DWGWQ	009	W-010220-DN-09	02/20/01	
DWGWV	010	W-010220-DN-10	02/20/01	
DWGW0	011	W-010220-DN-11	02/20/01	
DWGW2	012	W-010220-DN-12	02/20/01	
DWGW4	013	W-010220-DN-13	02/20/01	
DWGW5	014	W-010220-DN-14	02/20/01	
DWGW7	015	W-010220-DN-15	02/20/01	
DWGW8	016	W-010221-DN-16	02/21/01	
DWGW9	017	W-010221-DN-17	02/21/01	
DWGXC	018	W-010221-DN-18	02/21/01	
DWGXD	019	W-010221-DN-19	02/21/01	
DWGXF	020	TRIP BLANKS	02/21/01	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-01

15C

GC/MS Volatiles

Lot-Sample #....: A1B220179-001 Work Order #....: DWGTR1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-01

GC/MS Volatiles

Lot-Sample #....: A1B220179-001 Work Order #....: DWGTR1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	102	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DE-01

TOTAL Metals

Lot-Sample #...: A1B220179-001

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1057107						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AC
		Dilution Factor: 1				
Manganese	0.43	0.015	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-01

DISSOLVED Metals

Lot-Sample #...: A1B220179-001

Date Sampled...: 02/20/01

Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 1057107						
Manganese	0.46	0.015	mg/L	SW846 6010B	02/26-02/27/01	DWGTR1AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-01

General Chemistry

Lot-Sample #...: A1B220179-001
Date Sampled...: 02/20/01

Work Order #...: DWGTR
Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	7.6	1.0	mg/L	MCAWW 300.0A	02/23/01	1057211
		Dilution Factor: 1				
Total Dissolved Solids	170	10	mg/L	MCAWW 160.1	02/23-02/26/01	1054146
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/23/01	1054140
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-02

GC/MS Volatiles

15B

Matrix.....: WG

Lot-Sample #....: A1B220179-002 Work Order #....: DWGT41AA
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-02

GC/MS Volatiles

Lot-Sample #....: A1B220179-002 Work Order #....: DWGT41AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	101	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-02

TOTAL Metals

Lot-Sample #....: A1B220179-002

Date Sampled....: 02/20/01

Date Received...: 02/22/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1057107						
Aluminum	0.72	0.20	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AB
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AF
		Dilution Factor: 1				
Iron	0.46	0.10	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGT41AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/26-02/27/01	DWGT41
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-02

General Chemistry

Lot-Sample #....: A1B220179-002 Work Order #....: DWGT4 Matrix.....: WG
Date Sampled....: 02/20/01 Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1.1	1.0	mg/L	MCANN 300.0A	02/23/01	1057211
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-03

GC/MS Volatiles

15A

Lot-Sample #....: A1B220179-003 Work Order #....: DWGVH1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-03

GC/MS Volatiles

Lot-Sample #....: A1B220179-003 Work Order #....: DWGVH1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-03

TOTAL Metals

Lot-Sample #...: A1B220179-003

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1057107						
Aluminum	0.54	0.20	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AF
		Dilution Factor: 1				
Iron	0.45	0.10	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AC
		Dilution Factor: 1				
Manganese	0.049	0.015	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/26-02/27/01	DWGVH1F
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-03

General Chemistry

Lot-Sample #....: A1B220179-003 Work Order #....: DWGVH Matrix.....: WG
Date Sampled....: 02/20/01 Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	02/23/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-04

GC/MS Volatiles

12.3 (15A)

Lot-Sample #....: A1B220179-004 Work Order #....: DWGVL1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-04

GC/MS Volatiles

Lot-Sample #....: A1B220179-004 Work Order #....: DWGV11AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-04

TOTAL Metals

Lot-Sample #...: A1B220179-004

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGVLI1AM
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-04

General Chemistry

Lot-Sample #....: A1B220179-004 Work Order #....: DWGVL Matrix.....: WG
Date Sampled....: 02/20/01 Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	02/23/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-05

GC/MS Volatiles

12C

Lot-Sample #....: A1B220179-005 Work Order #....: DWGVM1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	0.67 J	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	0.88 J	2.0	ug/L
Chloroform	0.33 J	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	8.4	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	5.4	1.0	ug/L
cis-1,2-Dichloroethene	30	0.50	ug/L
trans-1,2-Dichloroethene	0.32 J	0.50	ug/L
1,2-Dichloropropane	0.90 J	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	5.5	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	17	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	25	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	3.6	1.0	ug/L
Vinyl chloride	5.4	0.50	ug/L
Xylenes (total)	0.88 J	1.0	ug/L
Dichlorodifluoromethane	13	1.0	ug/L
Trichlorofluoromethane	5.3	1.0	ug/L

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-05

GC/MS Volatiles

Lot-Sample #...: A1B220179-005 Work Order #...: DWGVM1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

NOTE(S):

* Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-05

TOTAL Metals

Lot-Sample #....: A1B220179-005

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAC
		Dilution Factor: 1				
Manganese	0.40	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAI
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGVML
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-05

DISSOLVED Metals

Lot-Sample #...: A1B220179-005

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Manganese	0.40	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGVMLAQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-05

General Chemistry

Lot-Sample #...: A1B220179-005

Work Order #...: DWGVM

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	45.4	1.0	mg/L	MCAWW 300.0A	02/23/01	1057211
Dilution Factor: 1						
Total Dissolved Solids	140	10	mg/L	MCAWW 160.1	02/23-02/26/01	1054146
Dilution Factor: 1						
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/23/01	1054140
Dilution Factor: 1						

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-06

GC/MS Volatiles

12B

Lot-Sample #....: A1B220179-006 Work Order #....: DWGVW1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	0.35 J	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	5.5	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	0.39 J	1.0	ug/L
cis-1,2-Dichloroethene	4.8	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	0.47 J	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	1.1	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	1.8	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.34 J	1.0	ug/L
Vinyl chloride	4.2	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-06

GC/MS Volatiles

Lot-Sample #....: A1B220179-006 Work Order #....: DWGVW1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

NOTE(S) :

1 Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-06

TOTAL Metals

Lot-Sample #....: A1B220179-006

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGVW1AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-06

General Chemistry

Lot-Sample #...: A1B220179-006

Work Order #...: DWGVW

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1.7	1.0	mg/L	MCAWW 300.0A	02/23/01	1057211
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-07

GC/MS Volatiles

12A

Lot-Sample #....: A1B220179-007 Work Order #....: DWGV11AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	0.42 J	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	0.67 J	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	4.2	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	7.4	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	0.41 J	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	0.42 J	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	6.9	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-07

GC/MS Volatiles

Lot-Sample #....: A1B220179-007 Work Order #....: DWGV11AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	98	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-07

TOTAL Metals

Lot-Sample #....: A1B220179-007

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AJ
		Dilution Factor: 1				
cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AF
		Dilution Factor: 1				
Iron	0.27	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AC
		Dilution Factor: 1				
Manganese	0.054	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-07

DISSOLVED Metals

Lot-Sample #...: A1B220179-007

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Iron	0.10	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGV11AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-07

General Chemistry

Lot-Sample #....: A1B220179-007
Date Sampled....: 02/20/01

Work Order #....: DWGV1
Date Received...: 02/22/01

Matrix.....: WG

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	10.4	1.0	mg/L	MCAWW 300.0A	02/23/01	1057211
Dilution Factor: 1						
Total Dissolved Solids	48	10	mg/L	MCAWW 160.1	02/23-02/26/01	1054146
Dilution Factor: 1						
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/23/01	1054140
Dilution Factor: 1						

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-08

GC/MS Volatiles

14C

Lot-Sample #....: A1B220179-008 Work Order #....: DWGV51AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-08

GC/MS Volatiles

Lot-Sample #....: A1E220179-008 Work Order #....: DWGV51AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	102	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-08

TOTAL Metals

Lot-Sample #...: A1B220179-008

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AB
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGV51AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGV51I
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-08

General Chemistry

Lot-Sample #....: A1B220179-008
Date Sampled....: 02/20/01

Work Order #....: DWGV5
Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	6.6	1.0	mg/L	MCAW 300.0A	02/23/01	1057211
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-09

GC/MS Volatiles

14C (dup)

Lot-Sample #....: A1B220179-009 Work Order #....: DWGNQ1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-09

GC/MS Volatiles

Lot-Sample #....: A1B220179-009 Work Order #....: DWGWQ1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-09

TOTAL Metals

Lot-Sample #...: A1B220179-009

Date Sampled...: 02/20/01

Date Received...: 02/22/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGWQ1
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-09

General Chemistry

Lot-Sample #....: A1B220179-009
Date Sampled....: 02/20/01

Work Order #....: DWGWQ
Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	6.6	1.0	mg/L	MCANW 300.0A	02/23/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-10

GC/MS Volatiles

14B

Lot-Sample #....: A1E220179-010 Work Order #....: DWGWV1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-10

GC/MS Volatiles

Lot-Sample #....: A1B220179-010 Work Order #....: DWGNV1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-10

TOTAL Metals

Lot-Sample #....: A1B220179-010

Date Sampled....: 02/20/01

Date Received...: 02/22/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAIJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAIJ
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGWLAIH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DE-10

General Chemistry

Lot-Sample #....: A1B220179-010
Date Sampled....: 02/20/01

Work Order #....: DWGWV
Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	8.0	1.0	mg/L	MCANW 300.0A	02/23/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-11

GC/MS Volatiles

14A

Lot-Sample #....: A1B220179-011 Work Order #....: DWGW01AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-11

GC/MS Volatiles

Lot-Sample #....: A1B220179-011 Work Order #....: DWGW01AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	101	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-11

TOTAL Metals

Lot-Sample #....: A1B220179-011

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	0.20	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AF
		Dilution Factor: 1				
Iron	10.9	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AC
		Dilution Factor: 1				
Manganese	0.51	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-11

DISSOLVED Metals

Lot-Sample #....: A1B220179-011

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Iron	10.8	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AQ
		Dilution Factor: 1				
Manganese	0.45	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW01AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DH-11

General Chemistry

Lot-Sample #....: A1B220179-011

Work Order #....: DNGW0

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	34.8	1.0	mg/L	MCANW 300.0A	02/23/01	1057211
		Dilution Factor: 1				
Total Dissolved Solids	200	10	mg/L	MCANW 160.1	02/23-02/26/01	1054146
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCANW 160.2	02/23/01	1054140
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DS-12

GC/MS Volatiles

11C

Lot-Sample #....: A1B220179-012 Work Order #....: DWGW21AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-12

GC/MS Volatiles

Lot-Sample #....: A1B220179-012 Work Order #....: DWGW21AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-12

TOTAL Metals

Lot-Sample #....: A1B220179-012

Matrix.....: NG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGW21AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-12

General Chemistry

Lot-Sample #....: A1B220179-012

Work Order #....: DWGW2

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	6.6	1.0	mg/L	MCANW 300.0A	02/24/01	1057211
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DK-13

GC/MS Volatiles

11B

Lot-Sample #: A1B220179-013 Work Order #: DWGW41AA Matrix: WG
 Date Sampled: 02/20/01 Date Received: 02/22/01
 Prep Date: 02/26/01 Analysis Date: 02/26/01
 Prep Batch #: 1058125
 Dilution Factor: 1 Method: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethane	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-13

GC/MS Volatiles

Lot-Sample #....: A1B220179-013

Work Order #....: DWGW41AA

Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	101	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DE-13

TOTAL Metals

Lot-Sample #....: A1E220179-013

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AC
		Dilution Factor: 1				
Manganese	0.044	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGW41AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-13

General Chemistry

Lot-Sample #....: A1B220179-013

Work Order #....: DWGW4

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	9.6	1.0	mg/L	NCANW 300.0A	02/24/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DH-14

GC/MS Volatiles

11A

Lot-Sample #....: A1B220179-014 Work Order #....: DWGWS1AA Matrix.....: WG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethane	ND	0.50	ug/L
trans-1,2-Dichloroethane	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropane	ND	1.0	ug/L
trans-1,3-Dichloropropane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethane	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-IR-14

GC/MS Volatiles

Lot-Sample #....: A1B220179-014 Work Order #....: DMGM51A Matrix.....: WG

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DX-14

TOTAL Metals

Lot-Sample #...: A1B220179-014

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGWS1AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-14

General Chemistry

Lot-Sample #....: A1B220179-014

Work Order #....: DWGWS

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1.4	1.0	mg/L	MCANW 300.0A	02/24/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DM-15

GC/MS Volatiles

2B(11A)

Lot-Sample #....: A1B220179-015 Work Order #....: DWGW71AA Matrix.....: NG
 Date Sampled....: 02/20/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DN-15

GC/MS Volatiles

Lot-Sample #...: A1B220179-015 Work Order #...: DWGW71AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	101	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DW-15

TOTAL Metals

Lot-Sample #....: A1B220179-015

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGW71AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010220-DE-15

General Chemistry

Lot-Sample #...: A1B220179-015

Work Order #...: DWGW7

Matrix.....: WG

Date Sampled...: 02/20/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	02/24/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-16

GC/MS Volatiles

16C

Lot-Sample #....: A1B220179-016 Work Order #....: DWGWS1AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/22/01
 Prep Date.....: 02/27/01 Analysis Date...: 02/27/01
 Prep Batch #....: 1059132
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	1.9	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethane	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-16

GC/MS Volatiles

Lot-Sample #...: A1B220179-016 Work Order #...: DWGWS1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-16

TOTAL Metals

Lot-Sample #....: A1B220179-016

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AC
		Dilution Factor: 1				
Manganese	0.029	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGW81AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-16

General Chemistry

Lot-Sample #....: A1B220179-016

Work Order #....: DWGWS

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	2.3	1.0	mg/L	MCANN 300.0A	02/24/01	1057211

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-17

GC/MS Volatiles

1A

Lot-Sample #....: A18220179-017 Work Order #....: DWGW91AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-17

GC/MS Volatiles

Lot-Sample #...: A1B220179-017 Work Order #...: DWGW91AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	98	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	91	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-17

TOTAL Metals

Lot-Sample #...: A1B220179-017

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGW91AL
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW91A1
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGW91AE
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW91AP
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGW91AE
		Dilution Factor: 1				
Manganese	0.021	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGW91AT
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGW91A4
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGW91A7
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGW91AW
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DE-17

General Chemistry

Lot-Sample #....: A1B220179-017

Work Order #....: DWGW9

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/22/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAW 300.0A	03/06/01	1066265
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-18

GC/MS Volatiles

1 B

Lot-Sample #....: A1B220179-018 Work Order #....: DWGXC1AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/22/01
 Prep Date.....: 02/27/01 Analysis Date...: 02/27/01
 Prep Batch #....: 1059132
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DM-18

GC/MS Volatiles

Lot-Sample #....: A1B220179-018 Work Order #....: DWGXC1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-18

TOTAL Metals

Lot-Sample #....: A1B220179-018

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/22/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058101						
Aluminum	0.38	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AC
		Dilution Factor: 1				
Manganese	0.51	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGXC1AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-18

DISSOLVED Metals

Lot-Sample #...: A1B220179-018
Date Sampled...: 02/21/01

Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 1058101						
Manganese	0.51	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGXCLAQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-18

General Chemistry

Lot-Sample #....: A1B220179-018
Date Sampled....: 02/21/01

Work Order #....: DWGXC
Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	2.3	1.0	mg/L	MCAW 300.0A	02/24/01	1057211
			Dilution Factor: 1			
Total Dissolved Solids	65	10	mg/L	MCAW 160.1	02/26-02/27/01	1057224
			Dilution Factor: 1			
Total Suspended Solids	ND	4.0	mg/L	MCAW 160.2	02/23/01	1054140
			Dilution Factor: 1			

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-19

GC/MS Volatiles

6A

Lot-Sample #....: A1B220179-019 Work Order #....: DWGXD1AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/22/01
 Prep Date.....: 02/27/01 Analysis Date...: 02/27/01
 Prep Batch #....: 1059132
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-19

GC/MS Volatiles

Lot-Sample #....: A1B220179-019 Work Order #....: DWGXD1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	102	(73 - 122)
4-Bromofluorobenzene	88	(74 - 116)

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-19

TOTAL Metals

Lot-Sample #...: A1B220179-019
Date Sampled...: 02/21/01

Date Received...: 02/22/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058101						
Aluminum	7.5	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AD
		Dilution Factor: 1				
Chromium	0.011	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AF
		Dilution Factor: 1				
Iron	5.8	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AC
		Dilution Factor: 1				
Manganese	0.044	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AG
		Dilution Factor: 1				
Lead	0.0031	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWGXD1AM
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-19

General Chemistry

Lot-Sample #....: A1B220179-019
Date Sampled....: 02/21/01

Work Order #....: DWGXD
Date Received...: 02/22/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	2.2	1.0	mg/L	NCANN 300.0A	02/24/01	1057211
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #....: A1B220179-020 Work Order #....: DMGXF1AA Matrix.....: WQ
 Date Sampled....: 02/21/01 Date Received...: 02/22/01
 Prep Date.....: 02/27/01 Analysis Date...: 02/27/01
 Prep Batch #....: 1059132
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #....: A1B220179-020 Work Order #....: DWGXF1AA Matrix.....: WQ

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	100	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)
Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)
Phthalate Esters

Metals
Copper
Iron
Zinc
Lead*

* for analyses run on TJA Trace ICP or GFAA only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B220179 Work Order #....: DWM2VLAC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A1B270000-125 DWM2VLAD-LCSD
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	93	(63 - 130)			SW846 8260B
	85	(63 - 130)	8.0	(0-20)	SW846 8260B
Trichloroethene	98	(75 - 122)			SW846 8260B
	94	(75 - 122)	4.1	(0-20)	SW846 8260B
Benzene	96	(80 - 116)			SW846 8260B
	92	(80 - 116)	4.1	(0-20)	SW846 8260B
Toluene	103	(74 - 119)			SW846 8260B
	99	(74 - 119)	3.6	(0-20)	SW846 8260B
Chlorobenzene	104	(76 - 117)			SW846 8260B
	100	(76 - 117)	3.6	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	92	(61 - 128)
	91	(61 - 128)
Toluene-d8	103	(76 - 110)
	101	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
	95	(73 - 122)
4-Bromofluorobenzene	102	(74 - 116)
	99	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B220179 Work Order #....: DWPMLAC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A1B280000-132 DWPMLAD-LCSD
 Prep Date.....: 02/27/01 Analysis Date...: 02/27/01
 Prep Batch #....: 1059132
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethane	89	(63 - 130)			SW846 8260B
	91	(63 - 130)	2.1	(0-20)	SW846 8260B
Trichloroethane	97	(75 - 122)			SW846 8260B
	95	(75 - 122)	2.9	(0-20)	SW846 8260B
Benzene	92	(80 - 116)			SW846 8260B
	93	(80 - 116)	0.25	(0-20)	SW846 8260B
Toluene	99	(74 - 119)			SW846 8260B
	99	(74 - 119)	0.040	(0-20)	SW846 8260B
Chlorobenzene	101	(76 - 117)			SW846 8260B
	100	(76 - 117)	1.9	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	89	(61 - 128)
	88	(61 - 128)
Toluene-d8	102	(76 - 110)
	104	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
	99	(73 - 122)
4-Bromofluorobenzene	100	(74 - 116)
	99	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: A1B220179

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1B260000-107 Prep Batch #....: 1057107					
Chromium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLAN
Iron	106	(77 - 127)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLAO
Arsenic	102	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLAG
Lead	103	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLAG
Cadmium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLC2
Aluminum	106	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLC3
Manganese	106	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLC4
Vanadium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLC5
Thallium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	02/26-02/27/01	DWLTCLC6
LCS Lot-Sample#: A1B270000-101 Prep Batch #....: 1058101					
Iron	108	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM111AL
Cadmium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM111AM
Aluminum	102	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM111AN
Chromium	98	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM111AP

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1B220179

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Manganese	99	(80 - 120) Dilution Factor: 1	SW846 6010B	02/27-03/01/01	DWM111AQ
Vanadium	97	(80 - 120) Dilution Factor: 1	SW846 6010B	02/27-03/01/01	DWM111AR
Arsenic	98	(80 - 120) Dilution Factor: 1	SW846 6010B	02/27-03/01/01	DWM111AT
Lead	100	(80 - 120) Dilution Factor: 1	SW846 6010B	02/27-03/01/01	DWM111AU
Thallium	98	(80 - 120) Dilution Factor: 1	SW846 6010B	02/27-03/01/01	DWM111AV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A1B220179

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A1B260000-107 Prep Batch #....: 1057107					
Manganese	106	(80 - 120)	SW846 6010B	02/26-02/27/01	DWLTK1C7
		Dilution Factor: 1			
LCS Lot-Sample#: A1B270000-101 Prep Batch #....: 1058101					
Manganese	99	(80 - 120)	SW846 6010B	02/27-03/01/01	DWM111A0
		Dilution Factor: 1			
Iron	108	(77 - 127)	SW846 6010B	02/27-03/01/01	DWM111A1
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: A1B220179

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride				WO#:DWMKCIAC-LCS/DWMKCIAD-LCSD	LCS Lot-Sample#:	A1B260000-211
	94	(90 - 110)		MCAWW 300.0A	02/23/01	1057211
	93	(90 - 110)	0.32 (0-20)	MCAWW 300.0A	02/23/01	1057211

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	95	Work Order #: DW3CKIAC (90 - 110)	LCS Lot-Sample#: A1C070000-265 MCAWW 300.0A	03/06/01	1066265
		Dilution Factor: 1			
Total Dissolved Solids	99	Work Order #: DWH5H1AC (72 - 131)	LCS Lot-Sample#: A1B230000-146 MCAWW 160.1	02/23-02/26/01	1054146
		Dilution Factor: 1			
Total Dissolved Solids	98	Work Order #: DWL471AC (72 - 131)	LCS Lot-Sample#: A1B260000-224 MCAWW 160.1	02/26-02/27/01	1057224
		Dilution Factor: 1			
Total Suspended Solids	97	Work Order #: DWH5D1AC (59 - 128)	LCS Lot-Sample#: A1B230000-140 MCAWW 160.2	02/23/01	1054140
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B220179
 MB Lot-Sample #: A1B270000-125

Work Order #....: DWM2V1AA

Matrix.....: WATER

Analysis Date...: 02/26/01
 Dilution Factor: 1

Prep Date.....: 02/26/01

Prep Batch #....: 1058125

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	101	(76 - 110)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B220179

Work Order #....: DWM2V1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Dibromofluoromethane	96	(73 - 122)		
4-Bromofluorobenzene	94	(74 - 116)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1B220179
 MB Lot-Sample #: A1B280000-132

Work Order #...: DWPMLAA

Matrix.....: WATER

Analysis Date...: 02/27/01
 Dilution Factor: 1

Prep Date.....: 02/27/01
 Prep Batch #...: 1059132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	102	(76 - 110)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1B220179

Work Order #...: DWPML1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Dibromofluoromethane	104	(73 - 122)		
4-Bromofluorobenzene	94	(74 - 116)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1B220179

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
NB Lot-Sample #: A1B260000-107 Prep Batch #...: 1057107						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1CC
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1AN
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1CA
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1AP
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1AP
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1CD
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1CF
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1CE
		Dilution Factor: 1				

NB Lot-Sample #: A1B270000-101 Prep Batch #...: 1058101						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWM111AC
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM111AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWM111AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM111AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM111AA
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: A1B220179

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWM111AJ
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM111AF
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM111AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWM111AG
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A1B220179

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
NB Lot-Sample #: A1B260000-107 Prep Batch #...: 1057107						
Manganese	ND	0.015	mg/L	SW846 6010B	02/26-02/27/01	DWLTK1CG
Dilution Factor: 1						

NB Lot-Sample #: A1B270000-101 Prep Batch #...: 1058101						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM111AX
Dilution Factor: 1						
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM111AW
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A1B220179

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	ND	Work Order #: DWMKC1AA 1.0	mg/L	MB Lot-Sample #: A1B260000-211 MCAWW 300.0A	02/23/01	1057211
		Dilution Factor: 1				
Chloride	ND	Work Order #: DW3CK1AA 1.0	mg/L	MB Lot-Sample #: A1C070000-265 MCAWW 300.0A	03/06/01	1066265
		Dilution Factor: 1				
Total Dissolved Solids	ND	Work Order #: DWH5H1AA 10	mg/L	MB Lot-Sample #: A1B230000-146 MCAWW 160.1	02/23-02/26/01	1054146
		Dilution Factor: 1				
Total Dissolved Solids	ND	Work Order #: DML471AA 10	mg/L	MB Lot-Sample #: A1B260000-224 MCAWW 160.1	02/26-02/27/01	1057224
		Dilution Factor: 1				
Total Suspended Solids	ND	Work Order #: DWH5D1AA 4.0	mg/L	MB Lot-Sample #: A1B230000-140 MCAWW 160.2	02/23/01	1054140
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B220179 Work Order #....: DMGW91AC-MS Matrix.....: WG
 MS Lot-Sample #: A1B220179-017 DMGW91AD-MSD
 Date Sampled....: 02/21/01 Date Received...: 02/22/01
 Prep Date.....: 02/26/01 Analysis Date...: 02/26/01
 Prep Batch #....: 1058125
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	87	(62 - 130)			SW846 8260B
	89	(62 - 130)	2.6	(0-20)	SW846 8260B
Trichloroethene	96	(62 - 130)			SW846 8260B
	92	(62 - 130)	4.1	(0-20)	SW846 8260B
Benzene	97	(76 - 118)			SW846 8260B
	92	(76 - 118)	5.2	(0-20)	SW846 8260B
Toluene	104	(70 - 119)			SW846 8260B
	99	(70 - 119)	4.4	(0-20)	SW846 8260B
Chlorobenzene	105	(76 - 117)			SW846 8260B
	102	(76 - 117)	2.9	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 128)
	90	(61 - 128)
Toluene-d8	104	(76 - 110)
	103	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
	97	(73 - 122)
4-Bromofluorobenzene	99	(74 - 116)
	98	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B220179 Work Order #....: DWJP31AF-MS Matrix.....: WATER
 MS Lot-Sample #: I1B230170-001 DWJP31AG-MSD
 Date Sampled....: 02/21/01 08:30 Date Received...: 02/23/01
 Prep Date.....: 02/27/01 Analysis Date...: 02/27/01
 Prep Batch #....: 1059132
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethane	97	(62 - 130)			SW846 8260B
	95	(62 - 130)	1.1	(0-20)	SW846 8260B
1,2-Dichloroethane	97	(62 - 130)			SW846 8260B
	95	(62 - 130)	2.4	(0-20)	SW846 8260B
Benzene	98	(76 - 118)			SW846 8260B
	96	(76 - 118)	2.5	(0-20)	SW846 8260B
Toluene	106	(70 - 119)			SW846 8260B
	102	(70 - 119)	3.3	(0-20)	SW846 8260B
Chlorobenzene	106	(76 - 117)			SW846 8260B
	104	(76 - 117)	1.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 128)
	94	(61 - 128)
Toluene-d8	102	(76 - 110)
	101	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
	98	(73 - 122)
1-Bromofluorobenzene	100	(74 - 116)
	97	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1B220179

Matrix.....: WATER

Date Sampled...: 02/21/01 09:26 Date Received...: 02/22/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B220131-001 Prep Batch #...: 1057107						
Aluminum	104	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1DT
	105	(75 - 125)	0.82 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1DU
Dilution Factor: 1						
Arsenic	100	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1DE
	102	(75 - 125)	1.7 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1DF
Dilution Factor: 1						
Cadmium	101	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1DP
	102	(75 - 125)	1.8 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1DQ
Dilution Factor: 1						
Chromium	99	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1CV
	100	(75 - 125)	1.2 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1CW
Dilution Factor: 1						
Iron	106	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1C1
	111	(75 - 125)	2.4 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1C2
Dilution Factor: 1						
Lead	101	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1DG
	102	(75 - 125)	1.2 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1DH
Dilution Factor: 1						
Manganese	104	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1DW
	108	(75 - 125)	2.4 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1DX
Dilution Factor: 1						
Thallium	100	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1D4
	102	(75 - 125)	1.8 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1D5
Dilution Factor: 1						
Vanadium	98	(75 - 125)		SW846 6010B	02/26-02/27/01	DWGDN1D1
	100	(75 - 125)	1.3 (0-20)	SW846 6010B	02/26-02/27/01	DWGDN1D2
Dilution Factor: 1						

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: A1B220179

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/22/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B220179-017 Prep Batch #....: 1058101							
Aluminum	102	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91AM
	103	(75 - 125)	0.15	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91AN
		Dilution Factor: 1					
Arsenic	101	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91A2
	101	(75 - 125)	0.29	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91A3
		Dilution Factor: 1					
Cadmium	104	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91AJ
	104	(75 - 125)	0.36	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91AK
		Dilution Factor: 1					
Chromium	100	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91AQ
	100	(75 - 125)	0.30	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91AR
		Dilution Factor: 1					
Iron	111	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91AF
	110	(75 - 125)	0.42	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91AG
		Dilution Factor: 1					
Lead	101	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91A5
	102	(75 - 125)	0.73	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91A6
		Dilution Factor: 1					
Manganese	101	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91AU
	101	(75 - 125)	0.10	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91AV
		Dilution Factor: 1					
Thallium	100	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91A8
	101	(75 - 125)	0.19	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91A9
		Dilution Factor: 1					
Vanadium	99	(75 - 125)			SW846 6010B	02/27-03/01/01	DWGW91AX
	99	(75 - 125)	0.11	(0-20)	SW846 6010B	02/27-03/01/01	DWGW91A0
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A1B220179

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/22/01

PARAMETER	PERCENT RECOVERY	RPD LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride					MS Lot-Sample #: A1B220179-017	
	93	(59 - 132)		MCANW 300.0A	03/06/01	1066265
	94	(59 - 132)	0.63 (0-20)	MCANW 300.0A	03/06/01	1066265
			Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Matrix.....: WATER

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-	PREP
	RECOVERY LIMITS	RPD LIMITS	ANALYSIS DATE	BATCH #
Chloride		NO#: DWLM41CN-MS/DWLM41CN-MSD	MS Lot-Sample #: A1B240151-033	
	61 (59 - 132)	MCANW 300.0A	03/06/01	1066265
	67 (59 - 132) 0.87 (0-20)	MCANW 300.0A	03/06/01	1066265

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Work Order #....: DWGTR-SMP
DWGTR-DUP

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved						SD Lot-Sample #: A1B220179-001		
Solids	170	160	mg/L	3.7	(0-20)	MCANW 160.1	02/23-02/26/01	1054146
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Work Order #....: DWGWO-SMP
DWGWO-DUP

Matrix.....: WG

Date Sampled....: 02/20/01

Date Received...: 02/22/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	200	190	mg/L	3.5	(0-20)	MCAWW 160.1	02/23-02/26/01	1054146
Dilution Factor: 1								
SD Lot-Sample #: A1B220179-011								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Work Order #....: DWLMA-SMP
DWLMA-DUP

Matrix.....: WATER

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Total Dissolved Solids	300	280	mg/L	7.2	(0-20)	MCANW 160.1	02/26-02/27/01	1057224
Dilution Factor: 1								
SD Lot-Sample #: A1B240151-010								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Work Order #....: DNGDN-SMP
DNGDN-DUP

Matrix.....: WATER

Date Sampled....: 02/21/01 09:26 Date Received...: 02/22/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	160	160	mg/L	0.62	(0-20)	MCAW 160.1	02/26-02/27/01	1057224
Dilution Factor: 1								

SD Lot-Sample #: A1B220131-001

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1B220179

Work Order #...: DWG55-SMP
DWG55-DUP

Matrix.....: WATER

Date Sampled...: 02/22/01 10:30

Date Received...: 02/22/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	33	32	mg/L	3.1	(0-20)	MCAW 160.2	02/23/01	1054140
Dilution Factor: 1								
SD Lot-Sample #: A1B220198-002								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Work Order #....: DWG6C-SMP
DWG6C-DUP

Matrix.....: WATER

Date Sampled....: 02/18/01 15:45

Date Received...: 02/22/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	53	58	mg/L	9.0	(0-20)	MCAWW 160.2	02/23/01	1054140
Dilution Factor: 1								
SD Lot-Sample #: A1B220197-001								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B220179

Work Order #....: DWG6C-SMP
DWG6C-DUP

Matrix.....: WATER

Date Sampled....: 02/18/01 15:45 Date Received...: 02/22/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Total Suspended Solids	53	58	mg/L	9.0	(0-20)	MCAWW 160.2	02/23/01	1054140
Dilution Factor: 1								
SD Lot-Sample #: A1B220197-001								

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SERVICES

ANALYTICAL REPORT

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Grant Anderson
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 12865-70
TOMAH LANDFILL

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www.sth-inc.com

MN FILE COPY

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
DWLL1	A1B240151-001	W-010221-DN-20 9C
DWLL2	A1B240151-002	W-010221-DN-21 9B
DWLL3	A1B240151-003	W-010221-DN-22 9B dup
DWLL4	A1B240151-004	W-010221-DN-23 9A
DWLL5	A1B240151-005	W-010221-DN-24 17A
DWLL6	A1B240151-006	W-010221-DN-25 13B
DWLL7	A1B240151-007	W-010221-DN-100 Tom Pivars
DWLL8	A1B240151-008	W-010221-DN-101 Pivars lateral
DWLL9	A1B240151-009	W-010221-DN-102 Rental (dup)
DWLMA	A1B240151-010	W-010221-DN-103 John Pivars
DWLMC	A1B240151-011	W-010221-DN-104 Zorjony
DWLMD	A1B240151-012	W-010221-DN-105 FB
DWLME	A1B240151-013	W-010222-DN-26 10A
DWLME	A1B240151-013	W-010222-DN-27 5C
DWLME	A1B240151-013	W-010222-DN-28 5B
DWLME	A1B240151-013	W-010222-DN-29 5A
DWLME	A1B240151-013	W-010222-DN-30 17A
DWLME	A1B240151-013	W-010222-DN-31 17B
DWLME	A1B240151-013	W-010222-DN-32 2B
DWLME	A1B240151-013	W-010222-DN-33 2B (dup)
DWLME	A1B240151-013	W-010222-DN-106 Brehm
DWLME	A1B240151-013	W-010222-DN-107 Ripp
DWLME	A1B240151-013	W-010222-DN-108 Ken work by
DWLME	A1B240151-013	W-010222-DN-109 Thunder down
DWLMT	A1B240151-025	W-010223-DN-34 2A
DWLMV	A1B240151-026	W-010223-DN-35 8A
DWLMW	A1B240151-027	W-010223-DN-36 RB
DWLMX	A1B240151-028	W-010223-DN-37 4B
DWLMY	A1B240151-029	W-010223-DN-38 RB
DWLMZ	A1B240151-030	W-010223-DN-39 4A
DWLM1	A1B240151-031	W-010223-DN-40 3C
DWLM2	A1B240151-032	W-010223-DN-41 3C dup.
DWLM3	A1B240151-033	W-010223-DN-42 3B
DWLM4	A1B240151-034	W-010223-DN-43 3A
DWLM5	A1B240151-035	W-010223-DN-44 7A
DWLM6	A1B240151-036	TRIP BLANKS

RECEIVED
MAR 16 2001
CRA, INC.

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

March 15, 2001

CASE NARRATIVE

A1B240151

The following report contains the analytical results for thirty-five water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Tomah Landfill Site, project number 12865-70. The samples were received February 24, 2001, according to documented sample acceptance procedures.

Samples DN-25 and DN-103 were submitted for Dissolved Iron and Manganese but were analyzed for Dissolved Manganese only as instructed by Grant Anderson on February 26, 2001.

Samples DN-40 and DN-41 were submitted for Dissolved Iron and Manganese but were analyzed for Dissolved Iron only as instructed by Grant Anderson on February 26, 2001.

Sample DN-36 was submitted for Dissolved Manganese and sample DN-38 was submitted for Dissolved Iron and Manganese. Samples were not filtered in the field but were preserved. Analyses were cancelled as instructed by Grant Anderson on February 26, 2001.

Trip Blanks, listed on chain-of-custody 03500, were analyzed for Volatile Organics by 524.2 and 8260B as instructed by Grant Anderson on March 1, 2001.

Volatile Organics by 524.2 were analyzed at STL's Pittsburgh, Pennsylvania facility.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided to Grant Anderson on March 14, 2001. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

GC/MS VOLATILES - 8260B

Reporting limits for 4-Methyl-2-pentanone and Vinyl chloride are lower than our standard reporting limits (SRLs) but are supported by the laboratory's MDLs and/or IDLs; however, there are no standards in the calibration curve low enough to support these values. The continuing calibration blank and method blank may not support the lower RLs.

CASE NARRATIVE (continued)

GC/MS VOLATILES - 8260B (continued)

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

GC/MS VOLATILES - 524.2

Two analyses were used to report sample DN-28 due to high analyte concentrations.

The laboratory control sample/laboratory control sample duplicate associated with batch 1060345 exhibited RPDs outside acceptance limits. Since the spike recoveries met acceptance criteria, corrective action was not initiated and the results were accepted.

The matrix spike/matrix spike duplicate associated with batch 1059237, sample DN-107, failed RPD criteria. The laboratory control sample and method blank associated with this batch were in control; therefore, no corrective action was necessary.

GENERAL CHEMISTRY

Sample duplicate relative percent difference was outside acceptance limits for Total Suspended Solids in batch 1057228. The acceptable laboratory control sample analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

Sample duplicate relative percent difference was outside acceptance limits for Total Suspended Solids in batch 1059354. Results were less than five times the reporting limit; therefore, no corrective action was required.

ANALYTICAL METHODS SUMMARY

A1B240151

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Measurement of Purgeable Organic Compounds	EPA-DW 524.2
Non-Filterable Residue (TSS)	MCAWW 160.2
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- EPA-DW "Methods for the Determination of Organic Compounds in Drinking Water", EPA/600/4-88/039, December 1988 and its Supplements.
- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1B240151

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DWLL1	001	W-010221-DN-20	02/21/01	
DWLL2	002	W-010221-DN-21	02/21/01	
DWLL3	003	W-010221-DN-22	02/21/01	
DWLL4	004	W-010221-DN-23	02/21/01	
DWLL5	005	W-010221-DN-24	02/21/01	
DWLL6	006	W-010221-DN-25	02/21/01	
DWLL7	007	W-010221-DN-100	02/21/01	
DWLL8	008	W-010221-DN-101	02/21/01	
DWLL9	009	W-010221-DN-102	02/21/01	
DWLMA	010	W-010221-DN-103	02/21/01	
DWLMC	011	W-010221-DN-104	02/21/01	
DWLMD	012	W-010221-DN-105	02/21/01	
DWLME	013	W-010222-DN-26	02/22/01	
DWLME	014	W-010222-DN-27	02/22/01	
DWLME	015	W-010222-DN-28	02/22/01	
DWLME	016	W-010222-DN-29	02/22/01	
DWLME	017	W-010222-DN-30	02/22/01	
DWLME	018	W-010222-DN-31	02/22/01	
DWLME	019	W-010222-DN-32	02/22/01	
DWLME	020	W-010222-DN-33	02/22/01	
DWLME	021	W-010222-DN-106	02/22/01	
DWLMP	022	W-010222-DN-107	02/22/01	
DWLMP	023	W-010222-DN-108	02/22/01	
DWLMP	024	W-010222-DN-109	02/22/01	
DWLMT	025	W-010223-DN-34	02/23/01	
DWLMT	026	W-010223-DN-35	02/23/01	
DWLMT	027	W-010223-DN-36	02/23/01	
DWLMT	028	W-010223-DN-37	02/23/01	
DWLMT	029	W-010223-DN-38	02/23/01	
DWLMT	030	W-010223-DN-39	02/23/01	
DWLMT	031	W-010223-DN-40	02/23/01	
DWLMT	032	W-010223-DN-41	02/23/01	
DWLMT	033	W-010223-DN-42	02/23/01	
DWLMT	034	W-010223-DN-43	02/23/01	
DWLMT	035	W-010223-DN-44	02/23/01	
DWLMT	036	TRIP BLANKS	02/23/01	

(Continued on next page)

SAMPLE SUMMARY

A1B240151

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIM

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-20

GC/MS Volatiles

9C

Lot-Sample #....: A1B240151-001 Work Order #....: DWLL11AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-20

GC/MS Volatiles

Lot-Sample #....: A1B240151-001 Work Order #....: DWLL11AA Matrix.....: NG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-20

TOTAL Metals

Lot-Sample #....: A1B240151-001

Date Sampled....: 02/21/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	0.25	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AF
		Dilution Factor: 1				
Iron	0.12	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL11AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-20

General Chemistry

Lot-Sample #...: A1B240151-001
Date Sampled...: 02/21/01

Work Order #...: DWLL1
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-21

GC/MS Volatiles

9B

Lot-Sample #....: A1B240151-002 Work Order #....: DWLL21AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloroethane	0.71 J	2.0	ug/L
Chloroform	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Benzene	3.5	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	0.86 J	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	3.6	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	32	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-21

GC/MS Volatiles

Lot-Sample #....: A1B240151-002 Work Order #....: DWLL21AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	102	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-21

TOTAL Metals

Lot-Sample #....: A1B240151-002

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AF
		Dilution Factor: 1				
Iron	22.7	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AC
		Dilution Factor: 1				
Manganese	1.7	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-21

DISSOLVED Metals

Lot-Sample #...: A1B240151-002

Date Sampled...: 02/21/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058099						
Iron	22.1	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL21A
		Dilution Factor: 1				
Manganese	1.5	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL21AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-21

General Chemistry

Lot-Sample #....: A1B240151-002
Date Sampled....: 02/21/01

Work Order #....: DWLL2
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	42.7	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	250	10	mg/L	MCANW 160.1	02/26-02/27/01	1057224
		Dilution Factor: 1				
Total Suspended Solids	25	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057228
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-22

GC/MS Volatiles

9 B (dup)

Lot-Sample #....: A1B240151-003 Work Order #....: DWLL31AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	3.7	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
cis-1,2-Dichloroethene	3.8	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	0.94 J	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	0.86 J	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	33	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONRSTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-22

GC/MS Volatiles

Lot-Sample #....: A1B240151-003 Work Order #....: DWLL31AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	104	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-22

TOTAL Metals

Lot-Sample #...: A1B240151-003

Date Sampled...: 02/21/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AF
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AF
		Dilution Factor: 1				
Iron	23.0	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AC
		Dilution Factor: 1				
Manganese	1.7	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL31
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-22

DISSOLVED Metals

Lot-Sample #....: A1B240151-003

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 1058099						
Iron	20.9	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AQ
		Dilution Factor: 1				
Manganese	1.4	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL31AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-22

General Chemistry

Lot-Sample #....: A1B240151-003

Work Order #....: DWLL3

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	43.3	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	280	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057224
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	105722
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-23

GC/MS Volatiles

9A

Lot-Sample #....: A1B240151-004 Work Order #....: DWLL41AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	0.37 J	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	0.59	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	4.1	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-23

GC/MS Volatiles

Lot-Sample #....: A1B240151-004 Work Order #....: DWLL41AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-23

TOTAL Metals

Lot-Sample #....: A1B240151-004

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	0.25	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AF
		Dilution Factor: 1				
Iron	2.2	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AC
		Dilution Factor: 1				
Manganese	0.52	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-23

DISSOLVED Metals

Lot-Sample #....: A1E240151-004

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Iron	1.3	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AQ
		Dilution Factor: 1				
Manganese	0.51	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL41AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-23

General Chemistry

Lot-Sample #....: A1B240151-004
Date Sampled....: 02/21/01

Work Order #....: DWLL4
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	33.5	1.0	mg/L	MCAWW 300.0A	03/12/01	1072311
			Dilution Factor: 1			
Total Dissolved Solids	140	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057224
			Dilution Factor: 1			
Total Suspended Solids	25	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	1057228
			Dilution Factor: 1			

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-24

GC/MS Volatiles

13B

Lot-Sample #....: A1B240151-005 Work Order #....: DWLL51AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chloroethane	ND	2.0	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	0.54 J	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	2.4	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	0.55 J	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	0.90	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-24

GC/MS Volatiles

Lot-Sample #....: A1B240151-005 Work Order #....: DWLL51AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	105	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-24

TOTAL Metals

Lot-Sample #...: A1B240151-005

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AF
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AL
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AJ
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AJ
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL51AJ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-24

General Chemistry

Lot-Sample #....: A1B240151-005 Work Order #....: DWLL5 Matrix.....: WG
Date Sampled....: 02/21/01 Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	5.1	1.0	mg/L	MCANW 300.0A	03/12/01	1072311
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-25

GC/MS Volatiles

13A

Lot-Sample #....: A1B240151-006 Work Order #....: DWLL61AA Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	50	ug/L
Benzene	11	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	10	ug/L
2-Butanone	ND	50	ug/L
Carbon disulfide	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Chloroethane	3.0 J	10	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	10	ug/L
1,1-Dichloroethane	3.1 J	5.0	ug/L
1,2-Dichloroethane	5.5	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
cis-1,2-Dichloroethene	35	2.5	ug/L
trans-1,2-Dichloroethene	ND	2.5	ug/L
1,2-Dichloropropane	2.0 J	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
2-Hexanone	ND	50	ug/L
Methylene chloride	5.6	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
Styrene	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Tetrachloroethene	ND	5.0	ug/L
Toluene	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Vinyl chloride	120	2.5	ug/L
Xylenes (total)	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-25

GC/MS Volatiles

Lot-Sample #....: A1B240151-006 Work Order #....: DWLL61AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	104	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-25

TOTAL Metals

Lot-Sample #...: A1B240151-006

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Iron	0.11	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Manganese	0.60	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL61A
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL6
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-25

DISSOLVED Metals

Lot-Sample #....: A1B240151-006

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 1058099						
Manganese	0.55	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL61AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-25

General Chemistry

Lot-Sample #...: A1B240151-006

Work Order #...: DWLL6

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	126	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	320	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057224
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	105722
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-100

GC/MS Volatiles

Tom Plueis

Lot-Sample #....: A1B240151-007 Work Order #....: DWLL71AM Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-100

GC/MS Volatiles

Lot-Sample #....: A1B240151-007 Work Order #....: DWLL71AM Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	81	(75 - 125)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	79	(76 - 110)
Dibromofluoromethane	105	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-100

TOTAL Metals

Lot-Sample #....: A1B240151-007

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AE
		Dilution Factor: 1				
Iron	0.17	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AA
		Dilution Factor: 1				
Manganese	0.038	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL71AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-100

General Chemistry

Lot-Sample #....: A1B240151-007

Work Order #....: DWLL7

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	10.0	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-101

GC/MS Volatiles

Plus, Rental

Lot-Sample #....: A1B240151-008 Work Order #....: DWLL81AM Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-101

GC/MS Volatiles

Lot-Sample #....: A1B240151-008 Work Order #....: DWLL81AM Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	93	(75 - 125)
1,2-Dichloroethane-d4	121	(61 - 128)
Toluene-d8	84	(76 - 110)
Dibromofluoromethane	108	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-101

TOTAL Metals

Lot-Sample #....: A1B240151-008

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AA
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AF
		Dilution Factor: 1				
Lead	0.0030	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL81AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-101

General Chemistry

Lot-Sample #....: A1B240151-008

Work Order #....: DWLL8

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1.9	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-102

GC/MS Volatiles

Phases Rental (chip)

Lot-Sample #....: A1B240151-009 Work Order #....: DWLL91AM Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-102

GC/MS Volatiles

Lot-Sample #....: A1B240151-009 Work Order #....: DWLL91AM Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	85	(75 - 125)
1,2-Dichloroethane-d4	120	(61 - 128)
Toluene-d8	81	(76 - 110)
Dibromofluoromethane	113	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-102

TOTAL Metals

Lot-Sample #....: A1B240151-009

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AE
		Dilution Factor: 1				
Iron	0.10	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AA
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLL91AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-102

General Chemistry

Lot-Sample #....: A1B240151-009

Work Order #....: DWLL9

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1.9	1.0	mg/L	MCANW 300.0A	03/01/01	1061209

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-103

GC/MS Volatiles

John Plues

Lot-Sample #....: A1B240151-010 Work Order #....: DWLMA1AP Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-103

GC/MS Volatiles

Lot-Sample #....: A1B240151-010 Work Order #....: DWLMA1AP Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	0.58	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	82	(75 - 125)
1,2-Dichloroethane-d4	110	(61 - 128)
Toluene-d8	76	(76 - 110)
Dibromofluoromethane	102	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-103

TOTAL Metals

Lot-Sample #....: A1B240151-010

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AE
		Dilution Factor: 1				
Iron	0.34	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AA
		Dilution Factor: 1				
Manganese	0.065	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-103

DISSOLVED Metals

Lot-Sample #...: A1B240151-010

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058099						
Manganese	0.068	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMA1A
Dilution Factor: 1						

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-103

General Chemistry

Lot-Sample #....: ALB240151-010
Date Sampled....: 02/21/01

Work Order #....: DWLMA
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	88.8	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	300	10	mg/L	MCANW 160.1	02/26-02/27/01	1057224
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057228
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-104

GC/MS Volatiles

Zdrojowicz

Lot-Sample #....: A1B240151-011 Work Order #....: DWLMC1AM Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-104

GC/MS Volatiles

Lot-Sample #....: A1B240151-011 Work Order #....: DWLMCLAM Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(75 - 125)
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	82	(76 - 110)
Dibromofluoromethane	105	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-104

TOTAL Metals

Lot-Sample #....: A1B240151-011

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Iron	0.15	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Manganese	0.024	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMCIAA
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMC
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-104

General Chemistry

Lot-Sample #....: A1B240151-011
Date Sampled....: 02/21/01

Work Order #....: DWLMC
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	10.4	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-105

GC/MS Volatiles

FB (Zdrogony)

Lot-Sample #....: A1B240151-012 Work Order #....: DWLMD1AM Matrix.....: WG
 Date Sampled....: 02/21/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-105

GC/MS Volatiles

Lot-Sample #: A1B240151-012 Work Order #: DWLMD1AM Matrix: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(75 - 125)
1,2-Dichloroethane-d4	113	(61 - 128)
Toluene-d8	77	(76 - 110)
Dibromofluoromethane	103	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DW-105

TOTAL Metals

Lot-Sample #....: A1B240151-012

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMD1A
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMD
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010221-DN-105

General Chemistry

Lot-Sample #....: A1B240151-012

Work Order #....: DWLMD

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAW 300.0A	03/01/01	1061209

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-26

GC/MS Volatiles

10A

Lot-Sample #....: A1B240151-013 Work Order #....: DWLME1AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-26

GC/MS Volatiles

Lot-Sample #....: A1E240151-013 Work Order #....: DWLME1AP Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethane	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	84	(75 - 125)
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	78	(76 - 110)
Dibromofluoromethane	103	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-26

TOTAL Metals

Lot-Sample #...: A1B240151-013

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Iron	0.43	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Manganese	0.069	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLME1A
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLME
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-26

DISSOLVED Metals

Lot-Sample #....: A1B240151-013

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058099						
Iron	0.34	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLME1AQ
		Dilution Factor: 1				
Manganese	0.079	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLME1AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-26

General Chemistry

Lot-Sample #....: A1B240151-013
Date Sampled....: 02/22/01

Work Order #....: DWLME
Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	1.9	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	54	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	1059354
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-27

GC/MS Volatiles

5C

Lot-Sample #....: A1B240151-014 Work Order #....: DWLMF1AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-27

GC/MS Volatiles

Lot-Sample #...: A1B240151-014 Work Order #...: DWLMF1AP Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	86	(75 - 125)
1,2-Dichloroethane-d4	115	(61 - 128)
Toluene-d8	78	(76 - 110)
Dibromofluoromethane	102	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-27

TOTAL Metals

Lot-Sample #....: A1B240151-014

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AA
		Dilution Factor: 1				
Manganese	1.8	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMF1AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-27

DISSOLVED Metals

Lot-Sample #....: A1B240151-014

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058098						
Manganese	1.8	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMFLAQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-27

General Chemistry

Lot-Sample #....: A1B240151-014
Date Sampled....: 02/22/01

Work Order #....: DWLMP
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	2.8	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
			Dilution Factor: 1			
Total Dissolved Solids	94	10	mg/L	MCANW 160.1	02/26-02/27/01	1057227
			Dilution Factor: 1			
Total Suspended Solids	ND	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057228
			Dilution Factor: 1			

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-28

GC/MS Volatiles

5B

Lot-Sample #....: A1B240151-015 Work Order #....: DWLMG1AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 03/01/01 Analysis Date...: 03/01/01
 Prep Batch #....: 1060345
 Dilution Factor: 2 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	9.4	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	5.7	1.0	ug/L
Chlorodibromomethane	ND	1.0	ug/L
Chloroethane	4.5	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	6.0	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro- propane	ND	1.2	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	28	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	1.0	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-28

GC/MS Volatiles

Lot-Sample #: A1B240151-015 Work Order #: DWLMG1AP Matrix: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro- benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	54 E	1.0	ug/L
o-Xylene	2.6	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	108	(75 - 125)
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	77	(76 - 110)
Dibromofluoromethane	102	(73 - 122)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-28

GC/MS Volatiles

Lot-Sample #....: A1B240151-015 Work Order #....: DWLMG2AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 03/01/01 Analysis Date...: 03/01/01
 Prep Batch #....: 1060345
 Dilution Factor: 4 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	10	2.0	ug/L
Bromobenzene	ND	2.0	ug/L
Bromochloromethane	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
n-Butylbenzene	ND	2.0	ug/L
sec-Butylbenzene	ND	2.0	ug/L
tert-Butylbenzene	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Chlorobenzene	5.7	2.0	ug/L
Chlorodibromomethane	ND	2.0	ug/L
Chloroethane	4.9	2.0	ug/L
Chloroform	ND	2.0	ug/L
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	5.6	2.0	ug/L
4-Chlorotoluene	ND	2.0	ug/L
1,2-Dibromo-3-chloro- propane	ND	2.4	ug/L
1,2-Dibromoethane	ND	2.0	ug/L
Dibromomethane	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	2.0	ug/L
1,3-Dichlorobenzene	ND	2.0	ug/L
1,4-Dichlorobenzene	29	2.0	ug/L
Dichlorodifluoromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
cis-1,2-Dichloroethene	ND	2.0	ug/L
trans-1,2-Dichloroethene	ND	2.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
1,3-Dichloropropane	ND	2.0	ug/L
2,2-Dichloropropane	ND	2.0	ug/L
1,1-Dichloropropene	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Hexachlorobutadiene	ND	2.0	ug/L
Isopropylbenzene	ND	2.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-IN-28

GC/MS Volatiles

Lot-Sample #....: A1B240151-015 Work Order #....: DWLMG2AP Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	2.0	ug/L
Methylene chloride	ND	2.0	ug/L
Naphthalene	ND	2.0	ug/L
n-Propylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Tetrachloroethane	ND	2.0	ug/L
Toluene	ND	2.0	ug/L
1,2,3-Trichlorobenzene	ND	2.0	ug/L
1,2,4-Trichloro- benzene	ND	2.0	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Trichloroethene	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	2.0	ug/L
1,2,4-Trimethylbenzene	ND	2.0	ug/L
1,3,5-Trimethylbenzene	ND	2.0	ug/L
Vinyl chloride	55	2.0	ug/L
o-Xylene	2.3	2.0	ug/L
m-Xylene & p-Xylene	ND	4.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	96	(75 - 125)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	79	(76 - 110)
Dibromofluoromethane	101	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-28

TOTAL Metals

Lot-Sample #....: A1B240151-015

Date Sampled....: 02/22/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1AE
		Dilution Factor: 1				
Iron	108	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1AA
		Dilution Factor: 1				
Manganese	4.6	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1A
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1A
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMG1A
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-28

DISSOLVED Metals

Lot-Sample #....: A1B240151-015
Date Sampled....: 02/22/01

Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058098						
Iron	113	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMGLAQ
		Dilution Factor: 1				
Manganese	4.9	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMGLAR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-28

General Chemistry

Lot-Sample #....: ALB240151-015

Work Order #....: DWLMG

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	21.5	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	620	10	mg/L	MCANW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	58	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057227
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-29

GC/MS Volatiles

5A

Lot-Sample #....: A1B240151-016 Work Order #....: DWLMH1AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 03/01/01 Analysis Date...: 03/01/01
 Prep Batch #....: 1060345
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	1.2	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	6.2	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	18	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-29

GC/MS Volatiles

Lot-Sample #....: A1B240151-016 Work Order #....: DWLMH1AP Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	1.0	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(75 - 125)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	79	(76 - 110)
Dibromofluoromethane	96	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-29

TOTAL Metals

Lot-Sample #....: A1B240151-016
Date Sampled....: 02/22/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AE
		Dilution Factor: 1				
Iron	63.6	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AA
		Dilution Factor: 1				
Manganese	23.7	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AJ
		Dilution Factor: 1				
Thallium	0.010	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-29

DISSOLVED Metals

Lot-Sample #...: A1B240151-016

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058098						
Iron	65.2	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AQ
		Dilution Factor: 1				
Manganese	22.1	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMH1AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-29

General Chemistry

Lot-Sample #....: A1B240151-016
Date Sampled....: 02/22/01

Work Order #....: DWLMH
Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	1.3	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
			Dilution Factor: 1			
Total Dissolved Solids	360	10	mg/L	MCANW 160.1	02/26-02/27/01	1057227
			Dilution Factor: 1			
Total Suspended Solids	28	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057228
			Dilution Factor: 1			

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-30

GC/MS Volatiles

17A

Lot-Sample #....: A1B240151-017 Work Order #....: DWLMJ1AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 03/01/01 Analysis Date...: 03/01/01
 Prep Batch #....: 1060345
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	1.9	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	2.3	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-30

GC/MS Volatiles

Lot-Sample #....: A1B240151-017 Work Order #....: DWLMJ1AP Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethane	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	6.0	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	88	(75 - 125)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	76	(76 - 110)
Dibromofluoromethane	99	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-30

TOTAL Metals

Lot-Sample #....: A1B240151-017

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AE
		Dilution Factor: 1				
Iron	26.9	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AA
		Dilution Factor: 1				
Manganese	3.4	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AH
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMJ1
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-30

DISSOLVED Metals

Lot-Sample #....: A1B240151-017

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058098						
Iron	27.4	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMJLAQ
		Dilution Factor: 1				
Manganese	3.6	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMJLAR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-30

General Chemistry

Lot-Sample #....: A1B240151-017

Work Order #....: DWLMJ

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	11.5	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	210	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	1057227
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-31

GC/MS Volatiles

17B

Lot-Sample #....: A1B240151-018 Work Order #....: DWLKM1AA Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Hexanone	ND	10	ug/L
Acetone	ND	10	ug/L
Benzene	2.8	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	1.1 J	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	2.0	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	20	0.50	ug/L
trans-1,2-Dichloroethene	0.26 J	0.50	ug/L
1,2-Dichloropropane	0.37 J	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methylene chloride	2.7	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.60 J	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	0.98 J	1.0	ug/L
Vinyl chloride	30	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-31

GC/MS Volatiles

Lot-Sample #...: A1B240151-018 Work Order #...: DWLMK1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-31

TOTAL Metals

Lot-Sample #...: A1B240151-018

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AF
		Dilution Factor: 1				
Iron	28.2	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AC
		Dilution Factor: 1				
Manganese	0.58	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMK1AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-31

DISSOLVED Metals

Lot-Sample #....: A1B240151-018

Date Sampled....: 02/22/01

Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058098						
Iron	27.9	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWL2MKLAB
		Dilution Factor: 1				
Manganese	0.61	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWL2MKLAB
		Dilution Factor: 1				

CORRISTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DH-31

General Chemistry

Lot-Sample #....: ALB240151-018 Work Order #....: DWLMK Matrix.....: WG
Date Sampled....: 02/22/01 Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	100	1.0	mg/L	MCANW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	320	10	mg/L	MCANW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	23	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057228
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-32

GC/MS Volatiles

2B

Lot-Sample #....: A1B240151-019 Work Order #....: DWLML1AA Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	5.7	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	4.0	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-32

GC/MS Volatiles

Lot-Sample #....: A1B240151-019 Work Order #....: DWLML1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	101	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	90	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-32

TOTAL Metals

Lot-Sample #....: A1B240151-019

Date Sampled....: 02/22/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058098						
Aluminum	0.28	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AN
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AC
		Dilution Factor: 1				
Manganese	2.2	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLML
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-32

DISSOLVED Metals

Lot-Sample #....: A1B240151-019

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058098						
Manganese	2.3	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLML1AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-32

General Chemistry

Lot-Sample #....: A1B240151-019

Work Order #....: DWLML

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	19.9	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	93	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	10572
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-33

GC/MS Volatiles

2B (dup)

Lot-Sample #....: A1B240151-020 Work Order #....: DWLMM1AA Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	6.0	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	4.2	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-33

GC/MS Volatiles

Lot-Sample #....: A1B240151-020 Work Order #....: DWLMM1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-33

TOTAL Metals

Lot-Sample #...: A1B240151-020

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058098						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AC
		Dilution Factor: 1				
Manganese	2.2	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AK
		Dilution Factor: 1				
Aluminum	0.27	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AF
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMM1AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-33

DISSOLVED Metals

Lot-Sample #...: A1B240151-020

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 1058098						
Manganese	2.2	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWL#11AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-33

General Chemistry

Lot-Sample #....: A1B240151-020
Date Sampled....: 02/22/01

Work Order #....: DWLMM
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	20.0	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	97	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	1057228
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-106

GC/MS Volatiles

Boehm

Lot-Sample #....: A1B240151-021 Work Order #....: DWLMN1AM Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-106

GC/MS Volatiles

Lot-Sample #....: A1B240151-021 Work Order #....: DWLMN1AM Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	86	(75 - 125)
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	83	(76 - 110)
Dibromofluoromethane	108	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-106

TOTAL Metals

Lot-Sample #...: A1B240151-021

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AE
		Dilution Factor: 1				
Iron	1.9	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AA
		Dilution Factor: 1				
Manganese	0.038	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMN1
		Dilution Factor: 1				

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-106

General Chemistry

Lot-Sample #....: A1B240151-021 Work Order #....: DWLMN Matrix.....: WG
Date Sampled....: 02/22/01 Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
Dilution Factor: 1						

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-107

GC/MS Volatiles

Rapp

Lot-Sample #....: A1B240151-022 Work Order #....: DWLMP1CH Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-107

GC/MS Volatiles

Lot-Sample #....: A1B240151-022 Work Order #....: DWLMP1CH Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(75 - 125)
1,2-Dichloroethane-d4	118	(61 - 128)
Toluene-d8	76	(76 - 110)
Dibromofluoromethane	112	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-107

TOTAL Metals

Lot-Sample #....: A1B240151-022

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Iron	0.18	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Manganese	0.31	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1A
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-107

DISSOLVED Metals

Lot-Sample #....: A1B240151-022

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 1058098						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1CL
		Dilution Factor: 1				
Manganese	0.30	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMP1CP
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-107

General Chemistry

Lot-Sample #....: A1B240151-022

Work Order #....: DWLMP

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	4.8	1.0	mg/L	MCAWW 300.0A	03/01/01	1061209
		Dilution Factor: 1				
Total Dissolved Solids	130	10	mg/L	MCAWW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/26-02/27/01	1057228
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-108

GC/MS Volatiles

Kenworthy

Lot-Sample #....: A1B240151-023 Work Order #....: DWLMQ1AM Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-108

GC/MS Volatiles

Lot-Sample #....: A1B240151-023 Work Order #....: DWLMQ1AM Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	87	(75 - 125)
1,2-Dichloroethane-d4	113	(61 - 128)
Toluene-d8	80	(76 - 110)
Dibromofluoromethane	108	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-108

TOTAL Metals

Lot-Sample #....: A1B240151-023

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AA
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMQ1AG
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-108

General Chemistry

Lot-Sample #....: A1B240151-023

Work Order #....: DWLMO

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	6.0	1.0	mg/L	MCAWN 300.0A	03/02/01	1061212
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-109

GC/MS Volatiles

Thimble cloud

Lot-Sample #....: A1B240151-024 Work Order #....: DWLMR1AP Matrix.....: WG
 Date Sampled....: 02/22/01 Date Received...: 02/24/01
 Prep Date.....: 03/01/01 Analysis Date...: 03/01/01
 Prep Batch #....: 1060345
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-109

GC/MS Volatiles

Lot-Sample #....: A1B240151-024 Work Order #....: DWLMRIAP Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	0.67	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethane	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	82	(75 - 125)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	76	(76 - 110)
Dibromofluoromethane	100	(73 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-109

TOTAL Metals

Lot-Sample #....: A1B240151-024

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 1058098						
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AA
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AG
		Dilution Factor: 1				
Manganese	0.062	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AF
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AJ
		Dilution Factor: 1				
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMR1AC
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DW-109

DISSOLVED Metals

Lot-Sample #....: A1B240151-024

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058098						
Manganese	0.057	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMRLAQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010222-DN-109

General Chemistry

Lot-Sample #....: A1B240151-024

Work Order #....: DWLMR

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1.7	1.0	mg/L	MCANW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	72	10	mg/L	MCANW 160.1	02/26-02/27/01	1057227
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCANW 160.2	02/26-02/27/01	1057228
		Dilution Factor: 1				

CONRSTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-34

GC/MS Volatiles

2A

Lot-Sample #....: A1B240151-025 Work Order #....: DWLMT1AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	5.9	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	2.0	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-34

GC/MS Volatiles

Lot-Sample #....: A1B240151-025 Work Order #....: DWLMT1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-34

TOTAL Metals

Lot-Sample #...: A1B240151-025

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AF
		Dilution Factor: 1				
Iron	3.4	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AC
		Dilution Factor: 1				
Manganese	0.42	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-34

DISSOLVED Metals

Lot-Sample #...: A1B240151-025

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 1058096						
Iron	3.0	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AQ
		Dilution Factor: 1				
Manganese	0.41	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMT1AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-34

General Chemistry

Lot-Sample #....: A1B240151-025

Work Order #....: DWLMT

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	26	10	mg/L	MCAWW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	7.0	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	10593
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-35

GC/MS Volatiles

8A

Lot-Sample #....: A1B240151-026 Work Order #....: DWLMV1AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	2.8	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	0.22 J	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	4.1	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	25	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-35

GC/MS Volatiles

Lot-Sample #....: A1B240151-026 Work Order #....: DWLMV1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	104	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-35

TOTAL Metals

Lot-Sample #....: A1B240151-026

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAC
		Dilution Factor: 1				
Manganese	0.67	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMVLAG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMVIAH
		Dilution Factor: 1				

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-35

DISSOLVED Metals

Lot-Sample #....: A1B240151-026

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058096						
Manganese	0.64	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMV1AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-35

General Chemistry

Lot-Sample #....: A1B240151-026
Date Sampled....: 02/23/01

Work Order #....: DWLMV
Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	90.4	1.0	mg/L	MCAWW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	190	10	mg/L	MCAWW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	1059354
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-36

GC/MS Volatiles

RB (BA)

Lot-Sample #....: A1B240151-027 Work Order #....: DWLMMW1AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1-Dichloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-36

GC/MS Volatiles

Lot-Sample #....: A1B240151-027 Work Order #....: DWLMW1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	105	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
4-Bromofluorobenzene	94	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-36

TOTAL Metals

Lot-Sample #....: A1B240151-027

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMW1AM
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-36

General Chemistry

Lot-Sample #....: A1B240151-027
Date Sampled....: 02/23/01

Work Order #....: DWLMW
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	1.0	mg/L	MCAWW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	ND	10	mg/L	MCAWW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	1059354
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-37

GC/MS Volatiles

4B

Lot-Sample #....: A1B240151-028 Work Order #....: DWLWX1AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/L
Benzene	9.2	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
Bromomethane	ND	4.0	ug/L
2-Butanone	ND	20	ug/L
Carbon disulfide	ND	2.0	ug/L
Carbon tetrachloride	ND	2.0	ug/L
Chlorobenzene	0.92 J	2.0	ug/L
Dibromochloromethane	ND	2.0	ug/L
Chloroethane	1.3 J	4.0	ug/L
Chloroform	ND	2.0	ug/L
Chloromethane	ND	4.0	ug/L
1,1-Dichloroethane	ND	2.0	ug/L
1,2-Dichloroethane	ND	2.0	ug/L
1,1-Dichloroethene	ND	2.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	0.80 J	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
trans-1,3-Dichloropropene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
2-Hexanone	ND	20	ug/L
Methylene chloride	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
Styrene	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L
Tetrachloroethene	ND	2.0	ug/L
Toluene	0.83 J	2.0	ug/L
1,1,1-Trichloroethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Trichloroethene	ND	2.0	ug/L
Vinyl chloride	44	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
Dichlorodifluoromethane	ND	2.0	ug/L
Trichlorofluoromethane	ND	2.0	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-37

GC/MS Volatiles

Lot-Sample #....: A1B240151-028 Work Order #....: DWLMX1AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	103	(76 - 110)
Dibromofluoromethane	95	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S):

/ Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-37

TOTAL Metals

Lot-Sample #....: A1B240151-028

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AE
		Dilution Factor: 1				
Arsenic	0.016	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AF
		Dilution Factor: 1				
Iron	103	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AC
		Dilution Factor: 1				
Manganese	0.42	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AH
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AI
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLMX1AJ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-37

DISSOLVED Metals

Lot-Sample #....: A1B240151-028

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1064360						
Iron	110	0.10	mg/L	SW846 6010B	03/06/01	DWLMX2AQ
		Dilution Factor: 1				
Manganese	0.45	0.015	mg/L	SW846 6010B	03/06/01	DWLMX2AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-37

General Chemistry

Lot-Sample #...: A1B240151-028

Work Order #...: DWLMX

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	13.9	1.0	mg/L	MCAWW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	710	10	mg/L	MCAWW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	99	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	105935
		Dilution Factor: 1				

CONESTOGA-BOVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-38

GC/MS Volatiles

RB (4B)

Lot-Sample #....: A1B240151-029 Work Order #....: DWLM01AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Acetone	ND	10	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-38

GC/MS Volatiles

Lot-Sample #...: A1B240151-029 Work Order #...: DWLM01AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	105	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
4-Bromofluorobenzene	97	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-38

TOTAL Metals

Lot-Sample #....: A1B240151-029

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AH
		Dilution Factor: 1				
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM01AF
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-38

General Chemistry

Lot-Sample #....: A1B240151-029

Work Order #....: DWLMO

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	ND	1.0	mg/L	MCAWW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	ND	10	mg/L	MCAWW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	10593
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-39

GC/MS Volatiles

LIA

Lot-Sample #....: A1B240151-030 Work Order #....: DWLM11AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	11	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	3.4	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	0.72 J	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	0.40 J	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	0.19 J	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	2.7	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	0.40 J	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	6.6	0.50	ug/L
Xylenes (total)	3.0	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-39

GC/MS Volatiles

Lot-Sample #....: A1B240151-030 Work Order #....: DWLM11AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	97	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-39

TOTAL Metals

Lot-Sample #....: A1B240151-030

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AE
		Dilution Factor: 1				
Arsenic	0.017	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AF
		Dilution Factor: 1				
Iron	65.5	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AC
		Dilution Factor: 1				
Manganese	1.9	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLM11AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-39

DISSOLVED Metals

Lot-Sample #....: A1B240151-030

Date Sampled....: 02/23/01

Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058096						
Iron	60.3	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM112
		Dilution Factor: 1				
Manganese	1.9	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLM112
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-39

General Chemistry

Lot-Sample #....: A1B240151-030

Work Order #....: DWLM1

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	22.3	1.0	mg/L	MCANW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Total Dissolved Solids	620	10	mg/L	MCANW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	37	4.0	mg/L	MCANW 160.2	02/28-03/01/01	1059356
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-40

GC/MS Volatiles

3C

Lot-Sample #....: A1B240151-031 Work Order #....: DWLM21AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 6.67 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1-Dichloroethene	ND	6.7	ug/L
Acetone	ND	67	ug/L
Benzene	35	6.7	ug/L
Bromodichloromethane	ND	6.7	ug/L
Bromoform	ND	6.7	ug/L
Bromomethane	ND	13	ug/L
2-Butanone	ND	67	ug/L
Carbon disulfide	ND	6.7	ug/L
Carbon tetrachloride	ND	6.7	ug/L
Chlorobenzene	2.6 J	6.7	ug/L
Dibromochloromethane	ND	6.7	ug/L
Chloroethane	2.8 J	13	ug/L
Chloroform	ND	6.7	ug/L
Chloromethane	ND	13	ug/L
1,1-Dichloroethane	ND	6.7	ug/L
1,2-Dichloroethane	ND	6.7	ug/L
cis-1,2-Dichloroethene	ND	3.3	ug/L
trans-1,2-Dichloroethene	ND	3.3	ug/L
1,2-Dichloropropane	3.3 J	6.7	ug/L
cis-1,3-Dichloropropene	ND	6.7	ug/L
trans-1,3-Dichloropropene	ND	6.7	ug/L
Ethylbenzene	18	6.7	ug/L
2-Hexanone	ND	67	ug/L
Methylene chloride	ND	6.7	ug/L
4-Methyl-2-pentanone	ND	33	ug/L
Styrene	ND	6.7	ug/L
1,1,2,2-Tetrachloroethane	ND	6.7	ug/L
Tetrachloroethene	ND	6.7	ug/L
Toluene	13	6.7	ug/L
1,1,1-Trichloroethane	ND	6.7	ug/L
1,1,2-Trichloroethane	ND	6.7	ug/L
Trichloroethene	ND	6.7	ug/L
Vinyl chloride	190	3.3	ug/L
Xylenes (total)	39	6.7	ug/L
Dichlorodifluoromethane	ND	6.7	ug/L
Trichlorofluoromethane	ND	6.7	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-40

GC/MS Volatiles

Lot-Sample #....: A1B240151-031 Work Order #....: DWLM21AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	96	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

] Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-40

TOTAL Metals

Lot-Sample #....: A1B240151-031

Date Sampled....: 02/23/01

Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Arsenic	0.023	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Iron	28.4	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Manganese	0.030	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLM21A
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLM2
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-40

DISSOLVED Metals

Lot-Sample #...: A1B240151-031

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1058096						
Iron	29.6	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM21AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-40

General Chemistry

Lot-Sample #....: A1B240151-031
Date Sampled....: 02/23/01

Work Order #....: DWLM2
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	207	5.0	mg/L	MCANW 300.0A	03/06/01	1066265
		Dilution Factor: 5				
Total Dissolved Solids	1200	10	mg/L	MCANW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	56	4.0	mg/L	MCANW 160.2	02/28-03/01/01	105935
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-41

GC/MS Volatiles

3C (dup)

Lot-Sample #....: A1B240151-032 Work Order #....: DWLM31AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 10 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	100	ug/L
Benzene	34	10	ug/L
Bromodichloromethane	ND	10	ug/L
Bromoform	ND	10	ug/L
Bromomethane	ND	20	ug/L
2-Butanone	ND	100	ug/L
Carbon disulfide	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
Chloroethane	ND	20	ug/L
Chloroform	ND	10	ug/L
Chloromethane	ND	20	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
1,2-Dichloropropane	3.6 J	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
trans-1,3-Dichloropropene	ND	10	ug/L
Ethylbenzene	17	10	ug/L
2-Hexanone	ND	100	ug/L
Methylene chloride	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
Styrene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Tetrachloroethene	ND	10	ug/L
Toluene	13	10	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Vinyl chloride	190	5.0	ug/L
Xylenes (total)	36	10	ug/L
Dichlorodifluoromethane	ND	10	ug/L
Trichlorofluoromethane	ND	10	ug/L

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-41

GC/MS Volatiles

Lot-Sample #....: A1B240151-032 Work Order #....: DWLM31AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

I Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-41

TOTAL Metals

Lot-Sample #....: A1B240151-032

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER.	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AE
		Dilution Factor: 1				
Arsenic	0.026	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AF
		Dilution Factor: 1				
Iron	30.7	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AC
		Dilution Factor: 1				
Manganese	0.032	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLM31AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-41

DISSOLVED Metals

Lot-Sample #....: A1B240151-032

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 1058096						
Iron	30.1	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM31A
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-41

General Chemistry

Lot-Sample #...: A1B240151-032

Work Order #...: DWLM3

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	214	5.0	mg/L	MCANW 300.0A	03/06/01	1066265
		Dilution Factor: 5				
Total Dissolved Solids	1200	10	mg/L	MCANW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	58	4.0	mg/L	MCANW 160.2	02/28-03/01/01	1059356
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-42

GC/MS Volatiles

3B

Lot-Sample #....: A1B240151-033 Work Order #....: DWLM41AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 6.67 Method.....: SN846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	67	ug/L
1,1-Dichloroethane	ND	6.7	ug/L
1,2-Dichloroethane	ND	6.7	ug/L
1,1-Dichloroethene	ND	6.7	ug/L
cis-1,2-Dichloroethene	ND	3.3	ug/L
Benzene	33	6.7	ug/L
Bromodichloromethane	ND	6.7	ug/L
Bromoform	ND	6.7	ug/L
Bromomethane	ND	13	ug/L
2-Butanone	ND	67	ug/L
Dibromochloromethane	ND	6.7	ug/L
Chloroethane	ND	13	ug/L
Chloroform	ND	6.7	ug/L
Carbon disulfide	ND	6.7	ug/L
Carbon tetrachloride	ND	6.7	ug/L
Chlorobenzene	3.9 J	6.7	ug/L
Chloromethane	ND	13	ug/L
trans-1,2-Dichloroethene	ND	3.3	ug/L
1,2-Dichloropropane	ND	6.7	ug/L
cis-1,3-Dichloropropene	ND	6.7	ug/L
trans-1,3-Dichloropropene	ND	6.7	ug/L
Ethylbenzene	36	6.7	ug/L
2-Hexanone	ND	67	ug/L
Methylene chloride	ND	6.7	ug/L
4-Methyl-2-pentanone	ND	33	ug/L
Styrene	ND	6.7	ug/L
1,1,2,2-Tetrachloroethane	ND	6.7	ug/L
Tetrachloroethane	ND	6.7	ug/L
Toluene	18	6.7	ug/L
1,1,1-Trichloroethane	ND	6.7	ug/L
1,1,2-Trichloroethane	ND	6.7	ug/L
Trichloroethene	ND	6.7	ug/L
Vinyl chloride	170	3.3	ug/L
Xylenes (total)	98	6.7	ug/L
Dichlorodifluoromethane	ND	6.7	ug/L
Trichlorofluoromethane	ND	6.7	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-42

GC/MS Volatiles

Lot-Sample #....: A1B240151-033 Work Order #....: DWLM41AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	98	(76 - 110)
Dibromofluoromethane	99	(73 - 122)
4-Bromofluorobenzene	98	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-42

TOTAL Metals

Lot-Sample #...: A1B240151-033

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AE
		Dilution Factor: 1				
Arsenic	0.020	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AF
		Dilution Factor: 1				
Iron	41.5	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AC
		Dilution Factor: 1				
Manganese	0.054	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AE
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AJ
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWLM41AJ
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWLM
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-42

DISSOLVED Metals

Lot-Sample #....: A1B240151-033

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Iron	42.6	0.10	mg/L	SW846 6010B	02/27-03/02/01	DWLM41AQ
		Dilution Factor: 1				
Manganese	0.057	0.015	mg/L	SW846 6010B	02/27-03/02/01	DWLM41AR
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/07/01	DWLM41AT
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-42

General Chemistry

Lot-Sample #....: A1B240151-033
Date Sampled....: 02/23/01

Work Order #....: DWLM4
Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	274	5.0	mg/L	MCANW 300.0A	03/06/01	1066265
		Dilution Factor: 5				
Total Dissolved Solids	1400	10	mg/L	MCANW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	80	4.0	mg/L	MCANW 160.2	02/28-03/01/01	105935
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-43

GC/MS Volatiles

3A

Lot-Sample #....: A1B240151-034 Work Order #....: DWLM51AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	8.2	0.50	ug/L
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Dichlorodifluoromethane	3.8	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-43

GC/MS Volatiles

Lot-Sample #...: A1B240151-034 Work Order #...: DWLM51AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	99	(76 - 110)
Dibromofluoromethane	101	(73 - 122)
4-Bromofluorobenzene	93	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-43

TOTAL Metals

Lot-Sample #...: A1B240151-034

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AE
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AD
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AF
		Dilution Factor: 1				
Iron	4.2	0.10	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AC
		Dilution Factor: 1				
Manganese	1.1	0.015	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AG
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AK
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AL
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AH
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-43

DISSOLVED Metals

Lot-Sample #...: A1B240151-034

Matrix.....: NG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058096						
Iron	4.0	0.10	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AQ
		Dilution Factor: 1				
Manganese	1.1	0.015	mg/L	SW846 6010B	02/27-03/02/01	DWLM51AQ
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DW-43

General Chemistry

Lot-Sample #....: A1B240151-034
Date Sampled....: 02/23/01

Work Order #....: DWLMS
Date Received...: 02/24/01

Matrix.....: WG

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.5	1.0	mg/L	MCAWW 300.0A	03/02/01	1061212
			Dilution Factor: 1			
Total Dissolved Solids	84	10	mg/L	MCAWW 160.1	02/28-03/01/01	1060140
			Dilution Factor: 1			
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/28-03/01/01	1059356
			Dilution Factor: 1			

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-44

GC/MS Volatiles

7A

Lot-Sample #....: A1B240151-035 Work Order #....: DWLM61AA Matrix.....: WG
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 10 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	100	ug/L
Benzene	21	10	ug/L
Bromodichloromethane	ND	10	ug/L
Bromoform	ND	10	ug/L
Bromomethane	ND	20	ug/L
2-Butanone	ND	100	ug/L
Carbon disulfide	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
Dibromochloromethane	ND	10	ug/L
Chloroethane	4.6 J	20	ug/L
Chloroform	ND	10	ug/L
Chloromethane	ND	20	ug/L
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethane	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
1,2-Dichloropropane	4.8 J	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
trans-1,3-Dichloropropene	ND	10	ug/L
Ethylbenzene	37	10	ug/L
2-Hexanone	ND	100	ug/L
Methylene chloride	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
Styrene	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L
Tetrachloroethene	ND	10	ug/L
Toluene	19	10	ug/L
1,1,1-Trichloroethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Trichloroethene	ND	10	ug/L
Vinyl chloride	220	5.0	ug/L
Xylenes (total)	110	10	ug/L
Trichlorofluoromethane	ND	10	ug/L
Dichlorodifluoromethane	ND	10	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-44

GC/MS Volatiles

Lot-Sample #....: A1B240151-035 Work Order #....: DWLM61AA Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	94	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

1 Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-44

TOTAL Metals

Lot-Sample #....: A1B240151-035

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 1058096						
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Iron	57.5	0.10	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Manganese	0.20	0.015	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AG
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Arsenic	0.027	0.010	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AE
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-44

DISSOLVED Metals

Lot-Sample #...: A1B240151-035

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1058096						
Iron	58.8	0.10	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AQ
		Dilution Factor: 1				
Manganese	0.20	0.015	mg/L	SW846 6010B	02/27-03/02/01	DWLM61AR
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: W-010223-DN-44

General Chemistry

Lot-Sample #....: A1B240151-035
Date Sampled....: 02/23/01

Work Order #....: DWLM6
Date Received...: 02/24/01

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	195	5.0	mg/L	MCANW 300.0A	03/02/01	1061212
		Dilution Factor: 5				
Total Dissolved Solids	1200	10	mg/L	MCANW 160.1	02/28-03/01/01	1060140
		Dilution Factor: 1				
Total Suspended Solids	95	4.0	mg/L	MCANW 160.2	02/28-03/01/01	105931
		Dilution Factor: 1				

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #....: A1B240151-036 Work Order #....: DWLM71AA Matrix.....: WQ
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
2-Butanone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	10	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
Xylenes (total)	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #: A1B240151-036 Work Order #: DWLM71AA Matrix: WQ

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	98	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
4-Bromofluorobenzene	92	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #....: A1B240151-036 Work Order #....: DWLM71AC Matrix.....: WQ
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 03/02/01 Analysis Date...: 03/02/01
 Prep Batch #....: 1061128
 Dilution Factor: 1 Method.....: EPA-DW 524.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ug/L
Bromobenzene	ND	0.50	ug/L
Bromochloromethane	ND	0.50	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
n-Butylbenzene	ND	0.50	ug/L
sec-Butylbenzene	ND	0.50	ug/L
tert-Butylbenzene	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chlorodibromomethane	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
2-Chlorotoluene	ND	0.50	ug/L
4-Chlorotoluene	ND	0.50	ug/L
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L
1,2-Dibromoethane	ND	0.50	ug/L
Dibromomethane	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
Dichlorodifluoromethane	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
1,3-Dichloropropane	ND	0.50	ug/L
2,2-Dichloropropane	ND	0.50	ug/L
1,1-Dichloropropene	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Hexachlorobutadiene	ND	0.50	ug/L
Isopropylbenzene	ND	0.50	ug/L

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: TRIP BLANKS

GC/MS Volatiles

Lot-Sample #....: A1B240151-036 Work Order #....: DWLM71AC Matrix.....: WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	0.50	ug/L
Methylene chloride	ND	0.50	ug/L
Naphthalene	ND	0.50	ug/L
n-Propylbenzene	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
1,2,3-Trichlorobenzene	ND	0.50	ug/L
1,2,4-Trichloro- benzene	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L
1,1,2-Trichloroethane	ND	0.50	ug/L
Trichloroethene	ND	0.50	ug/L
Trichlorofluoromethane	ND	0.50	ug/L
1,2,3-Trichloropropane	ND	0.50	ug/L
1,2,4-Trimethylbenzene	ND	0.50	ug/L
1,3,5-Trimethylbenzene	ND	0.50	ug/L
Vinyl chloride	ND	0.50	ug/L
o-Xylene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	86	(75 - 125)
1,2-Dichloroethane-d4	120	(61 - 128)
Toluene-d8	76	(76 - 110)
Dibromofluoromethane	114	(73 - 122)

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1B240151 Work Order #...: DWPXVIAC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A1B280000-238 DWPXVIAD-LCSD
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #...: 1059238
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Trichloroethene	87	(75 - 122)			SW846 8260B
	86	(75 - 122)	1.9	(0-20)	SW846 8260B
Benzene	90	(80 - 116)			SW846 8260B
	88	(80 - 116)	2.3	(0-20)	SW846 8260B
Toluene	95	(74 - 119)			SW846 8260B
	91	(74 - 119)	4.6	(0-20)	SW846 8260B
Chlorobenzene	93	(76 - 117)			SW846 8260B
	89	(76 - 117)	4.0	(0-20)	SW846 8260B
1,1-Dichloroethene	85	(63 - 130)			SW846 8260B
	81	(63 - 130)	5.2	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	95	(61 - 128)
	96	(61 - 128)
Toluene-d8	107	(76 - 110)
	104	(76 - 110)
Dibromofluoromethane	96	(73 - 122)
	95	(73 - 122)
4-Bromofluorobenzene	100	(74 - 116)
	100	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWPWVIAC Matrix.....: WATER
 ICS Lot-Sample#: C1B280000-237
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059237
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	101	(69 - 123)	EPA-DW 524.2
Bromobenzene	97	(59 - 132)	EPA-DW 524.2
Bromochloromethane	107	(69 - 132)	EPA-DW 524.2
Bromodichloromethane	104	(63 - 134)	EPA-DW 524.2
Bromoform	87	(52 - 134)	EPA-DW 524.2
Bromomethane	99	(58 - 136)	EPA-DW 524.2
n-Butylbenzene	86	(52 - 128)	EPA-DW 524.2
sec-Butylbenzene	94	(54 - 126)	EPA-DW 524.2
tert-Butylbenzene	89	(53 - 127)	EPA-DW 524.2
Carbon tetrachloride	104	(72 - 128)	EPA-DW 524.2
Chlorobenzene	106	(57 - 124)	EPA-DW 524.2
Chlorodibromomethane	102	(58 - 130)	EPA-DW 524.2
Chloroethane	95	(54 - 129)	EPA-DW 524.2
Chloroform	117	(73 - 130)	EPA-DW 524.2
Chloromethane	101	(54 - 129)	EPA-DW 524.2
2-Chlorotoluene	98	(55 - 129)	EPA-DW 524.2
4-Chlorotoluene	102	(55 - 135)	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	80	(10 - 156)	EPA-DW 524.2
1,2-Dibromoethane	102	(51 - 132)	EPA-DW 524.2
Dibromomethane	103	(61 - 137)	EPA-DW 524.2
1,2-Dichlorobenzene	91	(40 - 140)	EPA-DW 524.2
1,3-Dichlorobenzene	102	(40 - 140)	EPA-DW 524.2
1,4-Dichlorobenzene	104	(40 - 140)	EPA-DW 524.2
Dichlorodifluoromethane	102	(59 - 150)	EPA-DW 524.2
1,1-Dichloroethane	113	(69 - 127)	EPA-DW 524.2
1,2-Dichloroethane	114	(51 - 132)	EPA-DW 524.2
1,1-Dichloroethene	85	(66 - 131)	EPA-DW 524.2
cis-1,2-Dichloroethene	95	(69 - 134)	EPA-DW 524.2
trans-1,2-Dichloroethene	110	(67 - 132)	EPA-DW 524.2
1,2-Dichloropropane	110	(61 - 136)	EPA-DW 524.2
1,3-Dichloropropane	104	(65 - 125)	EPA-DW 524.2
2,2-Dichloropropane	95	(71 - 123)	EPA-DW 524.2
1,1-Dichloropropene	90	(67 - 126)	EPA-DW 524.2
cis-1,3-Dichloropropene	89	(57 - 127)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151
LCS Lot-Sample#: C1B280000-237

Work Order #....: DWPWVIAC

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
trans-1,3-Dichloropropene	99	(58 - 121)	EPA-DW 524.2
Ethylbenzene	95	(56 - 121)	EPA-DW 524.2
Hexachlorobutadiene	103	(60 - 134)	EPA-DW 524.2
Isopropylbenzene	93	(57 - 121)	EPA-DW 524.2
p-Isopropyltoluene	93	(55 - 127)	EPA-DW 524.2
Methylene chloride	112	(75 - 132)	EPA-DW 524.2
Naphthalene	73	(57 - 136)	EPA-DW 524.2
n-Propylbenzene	96	(55 - 126)	EPA-DW 524.2
Styrene	96	(57 - 125)	EPA-DW 524.2
1,1,1,2-Tetrachloroethane	96	(56 - 133)	EPA-DW 524.2
1,1,2,2-Tetrachloroethane	109	(50 - 140)	EPA-DW 524.2
Tetrachloroethene	101	(66 - 128)	EPA-DW 524.2
Toluene	99	(57 - 139)	EPA-DW 524.2
1,2,3-Trichlorobenzene	73	(63 - 132)	EPA-DW 524.2
1,2,4-Trichloro- benzene	80	(63 - 125)	EPA-DW 524.2
1,1,1-Trichloroethane	102	(70 - 128)	EPA-DW 524.2
1,1,2-Trichloroethane	109	(64 - 128)	EPA-DW 524.2
Trichloroethene	99	(68 - 129)	EPA-DW 524.2
Trichlorofluoromethane	88	(55 - 144)	EPA-DW 524.2
1,2,3-Trichloropropane	102	(32 - 142)	EPA-DW 524.2
1,2,4-Trimethylbenzene	92	(59 - 127)	EPA-DW 524.2
1,3,5-Trimethylbenzene	98	(57 - 126)	EPA-DW 524.2
Vinyl chloride	87	(45 - 139)	EPA-DW 524.2
o-Xylene	95	(61 - 120)	EPA-DW 524.2
m-Xylene & p-Xylene	101	(59 - 124)	EPA-DW 524.2
Xylenes (total)	99	(59 - 124)	EPA-DW 524.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(75 - 125)
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	104	(76 - 110)
Dibromofluoromethane	100	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWTDC1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C1C010000-345 DWTDC1AD-LCSD
 Prep Date.....: 03/01/01 Analysis Date...: 03/01/01
 Prep Batch #....: 1060345
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	108	(69 - 123)			EPA-DW 524.2
	103	(69 - 123)	4.6	(0-20)	EPA-DW 524.2
Bromobenzene	103	(59 - 132)			EPA-DW 524.2
	100	(59 - 132)	2.6	(0-20)	EPA-DW 524.2
Bromochloromethane	102	(69 - 132)			EPA-DW 524.2
	101	(69 - 132)	1.0	(0-20)	EPA-DW 524.2
Bromodichloromethane	110	(63 - 134)			EPA-DW 524.2
	101	(63 - 134)	9.0	(0-20)	EPA-DW 524.2
Bromoform	96	(52 - 134)			EPA-DW 524.2
	78	(52 - 134)	20	(0-20)	EPA-DW 524.2
Bromomethane	92	(58 - 136)			EPA-DW 524.2
	94	(58 - 136)	2.7	(0-20)	EPA-DW 524.2
n-Butylbenzene	98	(52 - 128)			EPA-DW 524.2
	90	(52 - 128)	9.1	(0-20)	EPA-DW 524.2
sec-Butylbenzene	99	(54 - 126)			EPA-DW 524.2
	93	(54 - 126)	6.4	(0-20)	EPA-DW 524.2
tert-Butylbenzene	93	(53 - 127)			EPA-DW 524.2
	85	(53 - 127)	9.6	(0-20)	EPA-DW 524.2
Carbon tetrachloride	102	(72 - 128)			EPA-DW 524.2
	100	(72 - 128)	1.4	(0-20)	EPA-DW 524.2
Chlorobenzene	106	(57 - 124)			EPA-DW 524.2
	99	(57 - 124)	6.0	(0-20)	EPA-DW 524.2
Chlorodibromomethane	99	(58 - 130)			EPA-DW 524.2
	94	(58 - 130)	5.8	(0-20)	EPA-DW 524.2
Chloroethane	92	(54 - 129)			EPA-DW 524.2
	91	(54 - 129)	1.2	(0-20)	EPA-DW 524.2
Chloroform	108	(73 - 130)			EPA-DW 524.2
	111	(73 - 130)	2.1	(0-20)	EPA-DW 524.2
Chloromethane	95	(54 - 129)			EPA-DW 524.2
	97	(54 - 129)	1.8	(0-20)	EPA-DW 524.2
2-Chlorotoluene	109	(55 - 129)			EPA-DW 524.2
	99	(55 - 129)	9.5	(0-20)	EPA-DW 524.2
4-Chlorotoluene	108	(55 - 135)			EPA-DW 524.2
	101	(55 - 135)	6.7	(0-20)	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	119	(10 - 156)			EPA-DW 524.2
	77 p	(10 - 156)	43	(0-20)	EPA-DW 524.2
1,2-Dibromoethane	98	(51 - 132)			EPA-DW 524.2
	96	(51 - 132)	1.2	(0-20)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWTDC1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C1C010000-345 DWTDC1AD-LCSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Dibromomethane	114	(61 - 137)			EPA-DW 524.2
	105	(61 - 137)	8.2	(0-20)	EPA-DW 524.2
1,2-Dichlorobenzene	104	(40 - 140)			EPA-DW 524.2
	96	(40 - 140)	7.3	(0-20)	EPA-DW 524.2
1,3-Dichlorobenzene	108	(40 - 140)			EPA-DW 524.2
	101	(40 - 140)	7.3	(0-20)	EPA-DW 524.2
1,4-Dichlorobenzene	110	(40 - 140)			EPA-DW 524.2
	109	(40 - 140)	1.3	(0-20)	EPA-DW 524.2
Dichlorodifluoromethane	89	(59 - 150)			EPA-DW 524.2
	91	(59 - 150)	3.2	(0-20)	EPA-DW 524.2
1,1-Dichloroethane	112	(69 - 127)			EPA-DW 524.2
	114	(69 - 127)	1.6	(0-20)	EPA-DW 524.2
1,2-Dichloroethane	118	(51 - 132)			EPA-DW 524.2
	108	(51 - 132)	9.2	(0-20)	EPA-DW 524.2
1,1-Dichloroethene	80	(66 - 131)			EPA-DW 524.2
	84	(66 - 131)	5.3	(0-20)	EPA-DW 524.2
cis-1,2-Dichloroethene	102	(69 - 134)			EPA-DW 524.2
	101	(69 - 134)	0.78	(0-20)	EPA-DW 524.2
trans-1,2-Dichloroethene	106	(67 - 132)			EPA-DW 524.2
	108	(67 - 132)	1.8	(0-20)	EPA-DW 524.2
1,2-Dichloropropane	108	(61 - 136)			EPA-DW 524.2
	109	(61 - 136)	1.6	(0-20)	EPA-DW 524.2
1,3-Dichloropropane	106	(65 - 125)			EPA-DW 524.2
	107	(65 - 125)	1.1	(0-20)	EPA-DW 524.2
2,2-Dichloropropane	98	(71 - 123)			EPA-DW 524.2
	96	(71 - 123)	2.2	(0-20)	EPA-DW 524.2
1,1-Dichloropropene	91	(67 - 126)			EPA-DW 524.2
	92	(67 - 126)	0.87	(0-20)	EPA-DW 524.2
cis-1,3-Dichloropropene	96	(57 - 127)			EPA-DW 524.2
	93	(57 - 127)	3.4	(0-20)	EPA-DW 524.2
trans-1,3-Dichloropropene	93	(58 - 121)			EPA-DW 524.2
	93	(58 - 121)	0.21	(0-20)	EPA-DW 524.2
Ethylbenzene	93	(56 - 121)			EPA-DW 524.2
	95	(56 - 121)	1.6	(0-20)	EPA-DW 524.2
Hexachlorobutadiene	97	(60 - 134)			EPA-DW 524.2
	89	(60 - 134)	8.0	(0-20)	EPA-DW 524.2
Isopropylbenzene	88	(57 - 121)			EPA-DW 524.2
	88	(57 - 121)	0.45	(0-20)	EPA-DW 524.2
p-Isopropyltoluene	98	(55 - 127)			EPA-DW 524.2
	94	(55 - 127)	3.6	(0-20)	EPA-DW 524.2
Methylene chloride	115	(75 - 132)			EPA-DW 524.2
	114	(75 - 132)	0.43	(0-20)	EPA-DW 524.2
Naphthalene	92	(57 - 136)			EPA-DW 524.2
	65 p	(57 - 136)	34	(0-20)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWTDC1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: C1C010000-345 DWTDC1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Propylbenzene	101	(55 - 126)			EPA-DW 524.2
	90	(55 - 126)	11	(0-20)	EPA-DW 524.2
Styrene	95	(57 - 125)			EPA-DW 524.2
	93	(57 - 125)	1.8	(0-20)	EPA-DW 524.2
1,1,1,2-Tetrachloroethane	98	(56 - 133)			EPA-DW 524.2
	96	(56 - 133)	2.0	(0-20)	EPA-DW 524.2
1,1,2,2-Tetrachloroethane	123	(50 - 140)			EPA-DW 524.2
	108	(50 - 140)	13	(0-20)	EPA-DW 524.2
Tetrachloroethene	97	(66 - 128)			EPA-DW 524.2
	92	(66 - 128)	5.4	(0-20)	EPA-DW 524.2
Toluene	108	(57 - 139)			EPA-DW 524.2
	104	(57 - 139)	3.2	(0-20)	EPA-DW 524.2
1,2,3-Trichlorobenzene	93	(63 - 132)			EPA-DW 524.2
	68 p	(63 - 132)	30	(0-20)	EPA-DW 524.2
1,2,4-Trichloro- benzene	89	(63 - 125)			EPA-DW 524.2
	73	(63 - 125)	19	(0-20)	EPA-DW 524.2
1,1,1-Trichloroethane	105	(70 - 128)			EPA-DW 524.2
	99	(70 - 128)	5.8	(0-20)	EPA-DW 524.2
1,1,2-Trichloroethane	114	(64 - 128)			EPA-DW 524.2
	104	(64 - 128)	8.7	(0-20)	EPA-DW 524.2
Trichloroethene	99	(68 - 129)			EPA-DW 524.2
	98	(68 - 129)	1.0	(0-20)	EPA-DW 524.2
Trichlorofluoromethane	89	(55 - 144)			EPA-DW 524.2
	89	(55 - 144)	0.61	(0-20)	EPA-DW 524.2
1,2,3-Trichloropropane	109	(32 - 142)			EPA-DW 524.2
	98	(32 - 142)	11	(0-20)	EPA-DW 524.2
1,2,4-Trimethylbenzene	99	(59 - 127)			EPA-DW 524.2
	94	(59 - 127)	5.8	(0-20)	EPA-DW 524.2
1,3,5-Trimethylbenzene	103	(57 - 126)			EPA-DW 524.2
	97	(57 - 126)	6.1	(0-20)	EPA-DW 524.2
Vinyl chloride	85	(45 - 139)			EPA-DW 524.2
	89	(45 - 139)	4.6	(0-20)	EPA-DW 524.2
o-Xylene	94	(61 - 120)			EPA-DW 524.2
	91	(61 - 120)	3.6	(0-20)	EPA-DW 524.2
m-Xylene & p-Xylene	95	(59 - 124)			EPA-DW 524.2
	92	(59 - 124)	3.6	(0-20)	EPA-DW 524.2
Xylenes (total)	95	(59 - 124)			EPA-DW 524.2
	92	(59 - 124)	3.6	(0-20)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWTDCLAC-LCS Matrix.....: WATER
LCS Lot-Sample#: C1C010000-345 DWTDCLAD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	95	(75 - 125)
	96	(75 - 125)
1,2-Dichloroethane-d4	97	(61 - 128)
	101	(61 - 128)
Toluene-d8	99	(76 - 110)
	94	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
	98	(73 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWRK41AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A1C010000-147 DWRK41AD-LCSD
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	92	(63 - 130)			SW846 8260B
	95	(63 - 130)	3.8	(0-20)	SW846 8260B
Trichloroethene	98	(75 - 122)			SW846 8260B
	96	(75 - 122)	2.6	(0-20)	SW846 8260B
Benzene	96	(80 - 116)			SW846 8260B
	94	(80 - 116)	2.1	(0-20)	SW846 8260B
Toluene	101	(74 - 119)			SW846 8260B
	99	(74 - 119)	2.7	(0-20)	SW846 8260B
Chlorobenzene	104	(76 - 117)			SW846 8260B
	100	(76 - 117)	4.5	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	94	(61 - 128)
	93	(61 - 128)
Toluene-d8	103	(76 - 110)
	103	(76 - 110)
Dibromofluoromethane	98	(73 - 122)
	98	(73 - 122)
4-Bromofluorobenzene	100	(74 - 116)
	100	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWT971AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C1C020000-128 DWT971AD-LCSD
 Prep Date.....: 03/02/01 Analysis Date...: 03/02/01
 Prep Batch #....: 1061128
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	104	(69 - 123)			EPA-DW 524.2
	104	(69 - 123)	0.040	(0-20)	EPA-DW 524.2
Bromobenzene	103	(59 - 132)			EPA-DW 524.2
	99	(59 - 132)	3.4	(0-20)	EPA-DW 524.2
Bromochloromethane	107	(69 - 132)			EPA-DW 524.2
	110	(69 - 132)	2.5	(0-20)	EPA-DW 524.2
Bromodichloromethane	105	(63 - 134)			EPA-DW 524.2
	106	(63 - 134)	1.5	(0-20)	EPA-DW 524.2
Bromoform	89	(52 - 134)			EPA-DW 524.2
	88	(52 - 134)	0.28	(0-20)	EPA-DW 524.2
Bromomethane	87	(58 - 136)			EPA-DW 524.2
	97	(58 - 136)	11	(0-20)	EPA-DW 524.2
n-Butylbenzene	86	(52 - 128)			EPA-DW 524.2
	89	(52 - 128)	2.6	(0-20)	EPA-DW 524.2
sec-Butylbenzene	96	(54 - 126)			EPA-DW 524.2
	102	(54 - 126)	6.3	(0-20)	EPA-DW 524.2
tert-Butylbenzene	91	(53 - 127)			EPA-DW 524.2
	94	(53 - 127)	3.2	(0-20)	EPA-DW 524.2
Carbon tetrachloride	102	(72 - 128)			EPA-DW 524.2
	99	(72 - 128)	3.1	(0-20)	EPA-DW 524.2
Chlorobenzene	103	(57 - 124)			EPA-DW 524.2
	106	(57 - 124)	2.8	(0-20)	EPA-DW 524.2
Chlorodibromomethane	100	(58 - 130)			EPA-DW 524.2
	92	(58 - 130)	8.1	(0-20)	EPA-DW 524.2
Chloroethane	94	(54 - 129)			EPA-DW 524.2
	94	(54 - 129)	0.10	(0-20)	EPA-DW 524.2
Chloroform	110	(73 - 130)			EPA-DW 524.2
	106	(73 - 130)	3.6	(0-20)	EPA-DW 524.2
Chloromethane	88	(54 - 129)			EPA-DW 524.2
	96	(54 - 129)	9.2	(0-20)	EPA-DW 524.2
2-Chlorotoluene	105	(55 - 129)			EPA-DW 524.2
	103	(55 - 129)	1.2	(0-20)	EPA-DW 524.2
4-Chlorotoluene	102	(55 - 135)			EPA-DW 524.2
	106	(55 - 135)	3.6	(0-20)	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	121	(10 - 156)			EPA-DW 524.2
	103	(10 - 156)	16	(0-20)	EPA-DW 524.2
1,2-Dibromocethane	106	(51 - 132)			EPA-DW 524.2
	102	(51 - 132)	4.1	(0-20)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWT971AC-LCS Matrix.....: WATER
LCS Lot-Sample#: C1C020000-128 DWT971AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromomethane	113	(61 - 137)			EPA-DW 524.2
	108	(61 - 137)	4.1	(0-20)	EPA-DW 524.2
1,2-Dichlorobenzene	98	(40 - 140)			EPA-DW 524.2
	99	(40 - 140)	1.1	(0-20)	EPA-DW 524.2
1,3-Dichlorobenzene	102	(40 - 140)			EPA-DW 524.2
	108	(40 - 140)	6.6	(0-20)	EPA-DW 524.2
1,4-Dichlorobenzene	106	(40 - 140)			EPA-DW 524.2
	112	(40 - 140)	5.4	(0-20)	EPA-DW 524.2
Dichlorodifluoromethane	80	(59 - 150)			EPA-DW 524.2
	83	(59 - 150)	4.4	(0-20)	EPA-DW 524.2
1,1-Dichloroethane	114	(69 - 127)			EPA-DW 524.2
	106	(69 - 127)	6.9	(0-20)	EPA-DW 524.2
1,2-Dichloroethane	109	(51 - 132)			EPA-DW 524.2
	112	(51 - 132)	3.5	(0-20)	EPA-DW 524.2
1,1-Dichloroethene	85	(66 - 131)			EPA-DW 524.2
	88	(66 - 131)	3.7	(0-20)	EPA-DW 524.2
cis-1,2-Dichloroethene	98	(69 - 134)			EPA-DW 524.2
	97	(69 - 134)	1.1	(0-20)	EPA-DW 524.2
trans-1,2-Dichloroethene	108	(67 - 132)			EPA-DW 524.2
	113	(67 - 132)	4.5	(0-20)	EPA-DW 524.2
1,2-Dichloropropane	109	(61 - 136)			EPA-DW 524.2
	112	(61 - 136)	3.4	(0-20)	EPA-DW 524.2
1,3-Dichloropropane	105	(65 - 125)			EPA-DW 524.2
	102	(65 - 125)	2.9	(0-20)	EPA-DW 524.2
2,2-Dichloropropane	99	(71 - 123)			EPA-DW 524.2
	103	(71 - 123)	4.3	(0-20)	EPA-DW 524.2
1,1-Dichloropropene	94	(67 - 126)			EPA-DW 524.2
	94	(67 - 126)	0.48	(0-20)	EPA-DW 524.2
cis-1,3-Dichloropropene	98	(57 - 127)			EPA-DW 524.2
	98	(57 - 127)	0.050	(0-20)	EPA-DW 524.2
trans-1,3-Dichloropropene	98	(58 - 121)			EPA-DW 524.2
	96	(58 - 121)	1.7	(0-20)	EPA-DW 524.2
Ethylbenzene	94	(56 - 121)			EPA-DW 524.2
	100	(56 - 121)	5.5	(0-20)	EPA-DW 524.2
Hexachlorobutadiene	103	(60 - 134)			EPA-DW 524.2
	109	(60 - 134)	5.6	(0-20)	EPA-DW 524.2
Isopropylbenzene	89	(57 - 121)			EPA-DW 524.2
	91	(57 - 121)	2.7	(0-20)	EPA-DW 524.2
p-Isopropyltoluene	96	(55 - 127)			EPA-DW 524.2
	97	(55 - 127)	1.4	(0-20)	EPA-DW 524.2
Methylene chloride	104	(75 - 132)			EPA-DW 524.2
	108	(75 - 132)	4.0	(0-20)	EPA-DW 524.2
Naphthalene	96	(57 - 136)			EPA-DW 524.2
	91	(57 - 136)	5.2	(0-20)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWT971AC-LCS Matrix.....: WATER
LCS Lot-Sample#: C1C020000-128 DWT971AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Propylbenzene	101	(55 - 126)			EPA-DW 524.2
	107	(55 - 126)	6.1	(0-20)	EPA-DW 524.2
Styrene	96	(57 - 125)			EPA-DW 524.2
	93	(57 - 125)	3.4	(0-20)	EPA-DW 524.2
1,1,1,2-Tetrachloroethane	94	(56 - 133)			EPA-DW 524.2
	94	(56 - 133)	0.58	(0-20)	EPA-DW 524.2
1,1,2,2-Tetrachloroethane	122	(50 - 140)			EPA-DW 524.2
	119	(50 - 140)	2.6	(0-20)	EPA-DW 524.2
Tetrachloroethene	93	(66 - 128)			EPA-DW 524.2
	98	(66 - 128)	5.8	(0-20)	EPA-DW 524.2
Toluene	103	(57 - 139)			EPA-DW 524.2
	110	(57 - 139)	7.3	(0-20)	EPA-DW 524.2
1,2,3-Trichlorobenzene	86	(63 - 132)			EPA-DW 524.2
	82	(63 - 132)	4.7	(0-20)	EPA-DW 524.2
1,2,4-Trichloro- benzene	86	(63 - 125)			EPA-DW 524.2
	78	(63 - 125)	10	(0-20)	EPA-DW 524.2
1,1,1-Trichloroethane	106	(70 - 128)			EPA-DW 524.2
	104	(70 - 128)	2.4	(0-20)	EPA-DW 524.2
1,1,2-Trichloroethane	113	(64 - 128)			EPA-DW 524.2
	110	(64 - 128)	2.9	(0-20)	EPA-DW 524.2
Trichloroethene	98	(68 - 129)			EPA-DW 524.2
	97	(68 - 129)	0.51	(0-20)	EPA-DW 524.2
Trichlorofluoromethane	85	(55 - 144)			EPA-DW 524.2
	85	(55 - 144)	0.64	(0-20)	EPA-DW 524.2
1,2,3-Trichloropropane	118	(32 - 142)			EPA-DW 524.2
	104	(32 - 142)	12	(0-20)	EPA-DW 524.2
1,2,4-Trimethylbenzene	94	(59 - 127)			EPA-DW 524.2
	102	(59 - 127)	8.0	(0-20)	EPA-DW 524.2
1,3,5-Trimethylbenzene	101	(57 - 126)			EPA-DW 524.2
	104	(57 - 126)	3.5	(0-20)	EPA-DW 524.2
Vinyl chloride	79	(45 - 139)			EPA-DW 524.2
	84	(45 - 139)	5.4	(0-20)	EPA-DW 524.2
o-Xylene	98	(61 - 120)			EPA-DW 524.2
	99	(61 - 120)	1.5	(0-20)	EPA-DW 524.2
m-Xylene & p-Xylene	97	(59 - 124)			EPA-DW 524.2
	97	(59 - 124)	0.43	(0-20)	EPA-DW 524.2
Xylenes (total)	97	(59 - 124)			EPA-DW 524.2
	98	(59 - 124)	0.78	(0-20)	EPA-DW 524.2

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWT971AC-LCS Matrix.....: WATER
LCS Lot-Sample#: C1C020000-128 DWT971AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	90	(75 - 125)
	96	(75 - 125)
1,2-Dichloroethane-d4	100	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	100	(76 - 110)
Dibromofluoromethane	92	(73 - 122)
	94	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: A1B240151

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A1B270000-096 Prep Batch #....: 1058096					
Iron	101	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AP
Cadmium	95	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AQ
Aluminum	99	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AR
Chromium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AT
Manganese	92	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AU
Vanadium	91	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AV
Arsenic	90	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AW
Lead	92	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AX
Thallium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1AO
LCS Lot-Sample#: A1B270000-098 Prep Batch #....: 1058098					
Iron	104	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AN
Cadmium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AP
Aluminum	96	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AQ
Chromium	93	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AR

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: A1B240151

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Manganese	94	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AT
Vanadium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AU
Arsenic	95	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AV
Lead	96	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AW
Thallium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1AX
LCS Lot-Sample#: A1B270000-099 Prep Batch #....: 1058099					
Iron	112	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AL
Cadmium	105	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AM
Aluminum	105	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AN
Chromium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AP
Manganese	104	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AQ
Vanadium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AR
Arsenic	102	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AT
Lead	103	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AU
Thallium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1AV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A1B240151

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1B270000-096 Prep Batch #....: 1058096					
Iron	101	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1A1
Manganese	92	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1A2
Thallium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1P1A3
LCS Lot-Sample#: A1B270000-098 Prep Batch #....: 1058098					
Iron	104	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1A0
Manganese	94	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1T1A1
LCS Lot-Sample#: A1B270000-099 Prep Batch #....: 1058099					
Iron	112	(77 - 127)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1A0
Manganese	104	(80 - 120)	SW846 6010B Dilution Factor: 1	02/27-03/01/01	DWM1W1A1
LCS Lot-Sample#: A1C050000-360 Prep Batch #....: 1064360					
Iron	111	(77 - 127)	SW846 6010B Dilution Factor: 1	03/06/01	DWX7T1AD
Manganese	101	(80 - 120)	SW846 6010B Dilution Factor: 1	03/06/01	DWX7T1AE

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: A1B240151

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride		WO#:DWVJ51AC-LCS/DWVJ51AD-LCSD LCS Lot-Sample#: A1C020000-212				
	95	(90 - 110)		MCAWW 300.0A	03/02/01	1061212
	95	(90 - 110)	0.16 (0-20)	MCAWW 300.0A	03/02/01	1061212
		Dilution Factor: 1				
Chloride		WO#:DXAHV1AC-LCS/DXAHV1AD-LCSD LCS Lot-Sample#: A1C130000-311				
	94	(90 - 110)		MCAWW 300.0A	03/12/01	1072311
	93	(90 - 110)	0.57 (0-20)	MCAWW 300.0A	03/12/01	1072311
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A1B240151

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	95	Work Order #: DWVJQ1AC (90 - 110)	LCS Lot-Sample#: A1C020000-209 MCAWW 300.0A Dilution Factor: 1	03/01/01	1061209
Chloride	95	Work Order #: DW3CK1AC (90 - 110)	LCS Lot-Sample#: A1C070000-265 MCAWW 300.0A Dilution Factor: 1	03/06/01	1066265
Total Dissolved Solids	98	Work Order #: DWL471AC (72 - 131)	LCS Lot-Sample#: A1B260000-224 MCAWW 160.1 Dilution Factor: 1	02/26-02/27/01	1057224
Total Dissolved Solids	94	Work Order #: DWL421AC (72 - 131)	LCS Lot-Sample#: A1B260000-227 MCAWW 160.1 Dilution Factor: 1	02/26-02/27/01	1057227
Total Dissolved Solids	90	Work Order #: DWRJ11AC (72 - 131)	LCS Lot-Sample#: A1C010000-140 MCAWW 160.1 Dilution Factor: 1	02/28-03/01/01	1060140
Total Suspended Solids	92	Work Order #: DWL4T1AC (59 - 128)	LCS Lot-Sample#: A1B260000-228 MCAWW 160.2 Dilution Factor: 1	02/26-02/27/01	1057228
Total Suspended Solids	94	Work Order #: DWRJ31AC (59 - 128)	LCS Lot-Sample#: A1B280000-354 MCAWW 160.2 Dilution Factor: 1	02/28-03/01/01	1059354
Total Suspended Solids	94	Work Order #: DWRJ51AC (59 - 128)	LCS Lot-Sample#: A1B280000-356 MCAWW 160.2 Dilution Factor: 1	02/28-03/01/01	1059356

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1B240151
 MB Lot-Sample #: A1B280000-238

Work Order #...: DWPXV1AA

Matrix.....: WATER

Analysis Date...: 02/28/01
 Dilution Factor: 1

Prep Date.....: 02/28/01
 Prep Batch #...: 1059238

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	104	(76 - 110)
Dibromofluoromethane	96	(73 - 122)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B240151

Work Order #....: DWPXV1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
4-Bromofluorobenzene	94	(74 - 116)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B240151
 MB Lot-Sample #: C1B280000-237

Work Order #....: DWPWV1AA

Matrix.....: WATER

Analysis Date...: 02/28/01
 Dilution Factor: 1

Prep Date.....: 02/28/01

Prep Batch #....: 1059237

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.50	ug/L	EPA-DW 524.2
Bromobenzene	ND	0.50	ug/L	EPA-DW 524.2
Bromochloromethane	ND	0.50	ug/L	EPA-DW 524.2
Bromodichloromethane	ND	0.50	ug/L	EPA-DW 524.2
Bromoform	ND	0.50	ug/L	EPA-DW 524.2
Bromomethane	ND	0.50	ug/L	EPA-DW 524.2
n-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
sec-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
tert-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Carbon tetrachloride	ND	0.50	ug/L	EPA-DW 524.2
Chlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
Chlorodibromomethane	ND	0.50	ug/L	EPA-DW 524.2
Chloroethane	ND	0.50	ug/L	EPA-DW 524.2
Chloroform	ND	0.50	ug/L	EPA-DW 524.2
Chloromethane	ND	0.50	ug/L	EPA-DW 524.2
2-Chlorotoluene	ND	0.50	ug/L	EPA-DW 524.2
4-Chlorotoluene	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L	EPA-DW 524.2
1,2-Dibromoethane	ND	0.50	ug/L	EPA-DW 524.2
Dibromomethane	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
Dichlorodifluoromethane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
cis-1,2-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,3-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
2,2-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
Ethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Hexachlorobutadiene	ND	0.50	ug/L	EPA-DW 524.2
Isopropylbenzene	ND	0.50	ug/L	EPA-DW 524.2
p-Isopropyltoluene	ND	0.50	ug/L	EPA-DW 524.2
Methylene chloride	ND	0.50	ug/L	EPA-DW 524.2

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1B240151

Work Order #...: DWPWV1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Naphthalene	ND	0.50	ug/L		EPA-DW 524.2
n-Propylbenzene	ND	0.50	ug/L		EPA-DW 524.2
Styrene	ND	0.50	ug/L		EPA-DW 524.2
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L		EPA-DW 524.2
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L		EPA-DW 524.2
Tetrachloroethene	ND	0.50	ug/L		EPA-DW 524.2
Toluene	ND	0.50	ug/L		EPA-DW 524.2
1,2,3-Trichlorobenzene	ND	0.50	ug/L		EPA-DW 524.2
1,2,4-Trichloro- benzene	ND	0.50	ug/L		EPA-DW 524.2
1,1,1-Trichloroethane	ND	0.50	ug/L		EPA-DW 524.2
1,1,2-Trichloroethane	ND	0.50	ug/L		EPA-DW 524.2
Trichloroethene	ND	0.50	ug/L		EPA-DW 524.2
Trichlorofluoromethane	ND	0.50	ug/L		EPA-DW 524.2
1,2,3-Trichloropropane	ND	0.50	ug/L		EPA-DW 524.2
1,2,4-Trimethylbenzene	ND	0.50	ug/L		EPA-DW 524.2
1,3,5-Trimethylbenzene	ND	0.50	ug/L		EPA-DW 524.2
Vinyl chloride	ND	0.50	ug/L		EPA-DW 524.2
o-Xylene	ND	0.50	ug/L		EPA-DW 524.2
m-Xylene & p-Xylene	ND	1.0	ug/L		EPA-DW 524.2
SURROGATE	PERCENT		RECOVERY		
	RECOVERY		LIMITS		
4-Bromofluorobenzene	85		(75 - 125)		
1,2-Dichloroethane-d4	111		(61 - 128)		
Toluene-d8	78		(76 - 110)		
Dibromofluoromethane	106		(73 - 122)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A18240151
MB Lot-Sample #: C1C010000-345

Work Order #...: DWTDC1AA

Matrix.....: WATER

Analysis Date...: 03/01/01
Dilution Factor: 1

Prep Date.....: 03/01/01

Prep Batch #...: 1060345

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.50	ug/L	EPA-DW 524.2
Bromobenzene	ND	0.50	ug/L	EPA-DW 524.2
Bromochloromethane	ND	0.50	ug/L	EPA-DW 524.2
Bromodichloromethane	ND	0.50	ug/L	EPA-DW 524.2
Bromoform	ND	0.50	ug/L	EPA-DW 524.2
Bromomethane	ND	0.50	ug/L	EPA-DW 524.2
n-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
sec-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
tert-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Carbon tetrachloride	ND	0.50	ug/L	EPA-DW 524.2
Chlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
Chlorodibromomethane	ND	0.50	ug/L	EPA-DW 524.2
Chloroethane	ND	0.50	ug/L	EPA-DW 524.2
Chloroform	ND	0.50	ug/L	EPA-DW 524.2
Chloromethane	ND	0.50	ug/L	EPA-DW 524.2
2-Chlorotoluene	ND	0.50	ug/L	EPA-DW 524.2
4-Chlorotoluene	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L	EPA-DW 524.2
1,2-Dibromoethane	ND	0.50	ug/L	EPA-DW 524.2
Dibromomethane	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
Dichlorodifluoromethane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
cis-1,2-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,3-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
2,2-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
Ethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Hexachlorobutadiene	ND	0.50	ug/L	EPA-DW 524.2
Isopropylbenzene	ND	0.50	ug/L	EPA-DW 524.2
p-Isopropyltoluene	ND	0.50	ug/L	EPA-DW 524.2
Methylene chloride	ND	0.50	ug/L	EPA-DW 524.2

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B240151

Work Order #....: DWTDC1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Naphthalene	ND	0.50	ug/L	EPA-DW 524.2
n-Propylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Styrene	ND	0.50	ug/L	EPA-DW 524.2
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA-DW 524.2
Tetrachloroethene	ND	0.50	ug/L	EPA-DW 524.2
Toluene	ND	0.50	ug/L	EPA-DW 524.2
1,2,3-Trichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,2,4-Trichloro- benzene	ND	0.50	ug/L	EPA-DW 524.2
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA-DW 524.2
Trichloroethene	ND	0.50	ug/L	EPA-DW 524.2
Trichlorofluoromethane	ND	0.50	ug/L	EPA-DW 524.2
1,2,3-Trichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,2,4-Trimethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
1,3,5-Trimethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Vinyl chloride	ND	0.50	ug/L	EPA-DW 524.2
o-Xylene	ND	0.50	ug/L	EPA-DW 524.2
m-Xylene & p-Xylene	ND	1.0	ug/L	EPA-DW 524.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	89	(75 - 125)
1,2-Dichloroethane-d4	115	(61 - 128)
Toluene-d8	77	(76 - 110)
Dibromofluoromethane	102	(73 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B240151
 MB Lot-Sample #: A1C010000-147

Work Order #....: DWRK41AA

Matrix.....: WATER

Analysis Date...: 02/28/01
 Dilution Factor: 1

Prep Date.....: 02/28/01
 Prep Batch #....: 1060147

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	99	(76 - 110)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1B240151

Work Order #...: DWRK41AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Dibromofluoromethane	103	(73 - 122)		
4-Bromofluorobenzene	92	(74 - 116)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B240151
MB Lot-Sample #: C1C020000-128

Work Order #....: DWT971AA

Matrix.....: WATER

Analysis Date...: 03/02/01
Dilution Factor: 1

Prep Date.....: 03/02/01

Prep Batch #....: 1061128

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.50	ug/L	EPA-DW 524.2
Bromobenzene	ND	0.50	ug/L	EPA-DW 524.2
Bromochloromethane	ND	0.50	ug/L	EPA-DW 524.2
Bromodichloromethane	ND	0.50	ug/L	EPA-DW 524.2
Bromoform	ND	0.50	ug/L	EPA-DW 524.2
Bromomethane	ND	0.50	ug/L	EPA-DW 524.2
n-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
sec-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
tert-Butylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Carbon tetrachloride	ND	0.50	ug/L	EPA-DW 524.2
Chlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
Chlorodibromomethane	ND	0.50	ug/L	EPA-DW 524.2
Chloroethane	ND	0.50	ug/L	EPA-DW 524.2
Chloroform	ND	0.50	ug/L	EPA-DW 524.2
Chloromethane	ND	0.50	ug/L	EPA-DW 524.2
2-Chlorotoluene	ND	0.50	ug/L	EPA-DW 524.2
4-Chlorotoluene	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	ND	0.60	ug/L	EPA-DW 524.2
1,2-Dibromoethane	ND	0.50	ug/L	EPA-DW 524.2
Dibromomethane	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,3-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,4-Dichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
Dichlorodifluoromethane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
cis-1,2-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
trans-1,2-Dichloroethene	ND	0.50	ug/L	EPA-DW 524.2
1,2-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,3-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
2,2-Dichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,1-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
cis-1,3-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
trans-1,3-Dichloropropene	ND	0.50	ug/L	EPA-DW 524.2
Ethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Hexachlorobutadiene	ND	0.50	ug/L	EPA-DW 524.2
Isopropylbenzene	ND	0.50	ug/L	EPA-DW 524.2
p-Isopropyltoluene	ND	0.50	ug/L	EPA-DW 524.2
Methylene chloride	ND	0.50	ug/L	EPA-DW 524.2

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A1B240151

Work Order #....: DWT971AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Naphthalene	ND	0.50	ug/L	EPA-DW 524.2
n-Propylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Styrene	ND	0.50	ug/L	EPA-DW 524.2
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	EPA-DW 524.2
Tetrachloroethene	ND	0.50	ug/L	EPA-DW 524.2
Toluene	ND	0.50	ug/L	EPA-DW 524.2
1,2,3-Trichlorobenzene	ND	0.50	ug/L	EPA-DW 524.2
1,2,4-Trichloro- benzene	ND	0.50	ug/L	EPA-DW 524.2
1,1,1-Trichloroethane	ND	0.50	ug/L	EPA-DW 524.2
1,1,2-Trichloroethane	ND	0.50	ug/L	EPA-DW 524.2
Trichloroethene	ND	0.50	ug/L	EPA-DW 524.2
Trichlorofluoromethane	ND	0.50	ug/L	EPA-DW 524.2
1,2,3-Trichloropropane	ND	0.50	ug/L	EPA-DW 524.2
1,2,4-Trimethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
1,3,5-Trimethylbenzene	ND	0.50	ug/L	EPA-DW 524.2
Vinyl chloride	ND	0.50	ug/L	EPA-DW 524.2
o-Xylene	ND	0.50	ug/L	EPA-DW 524.2
m-Xylene & p-Xylene	ND	1.0	ug/L	EPA-DW 524.2

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
4-Bromofluorobenzene	87	(75 - 125)
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	78	(76 - 110)
Dibromofluoromethane	101	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: A1B240151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1B270000-096 Prep Batch #....: 1058096						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AA
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AJ
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AF
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AG
		Dilution Factor: 1				

MB Lot-Sample #: A1B270000-098 Prep Batch #....: 1058098						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AD
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AH
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AC
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AE
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AA
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1B240151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AJ
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AF
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AK
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AG
		Dilution Factor: 1				
MB Lot-Sample #: A1B270000-099 Prep Batch #....: 1058099						
Aluminum	ND	0.20	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AJ
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AF
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AG
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AF
		Dilution Factor: 1				
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AA
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AJ
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AF
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AJ
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AJ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A1B240151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1B270000-096 Prep Batch #....: 1058096						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AL
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AM
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	02/27-03/01/01	DWM1P1AN
		Dilution Factor: 1				
MB Lot-Sample #: A1B270000-098 Prep Batch #....: 1058098						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AL
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM1T1AM
		Dilution Factor: 1				
MB Lot-Sample #: A1B270000-099 Prep Batch #....: 1058099						
Iron	ND	0.10	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AW
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	02/27-03/01/01	DWM1W1AX
		Dilution Factor: 1				
MB Lot-Sample #: A1C050000-360 Prep Batch #....: 1064360						
Iron	ND	0.10	mg/L	SW846 6010B	03/06/01	DWX7T1AA
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	03/06/01	DWX7T1AC
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1B240151

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	ND	Work Order #: DWVJQ1AA 1.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1C020000-209 MCAWW 300.0A	03/01/01	1061209
Chloride	ND	Work Order #: DWVJ51AA 1.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1C020000-212 MCAWW 300.0A	03/01/01	1061212
Chloride	ND	Work Order #: DW3CK1AA 1.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1C070000-265 MCAWW 300.0A	03/06/01	1066265
Chloride	ND	Work Order #: DXAHV1AA 1.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1C130000-311 MCAWW 300.0A	03/12/01	1072311
Total Dissolved Solids	ND	Work Order #: DWL471AA 10 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1B260000-224 MCAWW 160.1	02/26-02/27/01	1057224
Total Dissolved Solids	ND	Work Order #: DWL421AA 10 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1B260000-227 MCAWW 160.1	02/26-02/27/01	1057227
Total Dissolved Solids	ND	Work Order #: DWRJ11AA 10 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1C010000-140 MCAWW 160.1	02/28-03/01/01	10601
Total Suspended Solids	ND	Work Order #: DWL4T1AA 4.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1B260000-228 MCAWW 160.2	02/26-02/27/01	1057228
Total Suspended Solids	ND	Work Order #: DWRJ31AA 4.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1B280000-354 MCAWW 160.2	02/28-03/01/01	1059354
Total Suspended Solids	ND	Work Order #: DWRJ51AA 4.0 Dilution Factor: 1	mg/L	MB Lot-Sample #: A1B280000-356 MCAWW 160.2	02/28-03/01/01	1059356

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWKF31AQ-MS Matrix.....: WATER
 MS Lot-Sample #: A1B230248-004 DWKF31AR-MSD
 Date Sampled....: 02/22/01 10:38 Date Received...: 02/23/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1059238
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichloroethene	89	(62 - 130)			SW846 8260B
	93	(62 - 130)	4.7	(0-20)	SW846 8260B
Benzene	91	(76 - 118)			SW846 8260B
	96	(76 - 118)	4.9	(0-20)	SW846 8260B
Toluene	95	(70 - 119)			SW846 8260B
	99	(70 - 119)	4.5	(0-20)	SW846 8260B
Chlorobenzene	92	(76 - 117)			SW846 8260B
	98	(76 - 117)	6.6	(0-20)	SW846 8260B
1,1-Dichloroethene	84	(62 - 130)			SW846 8260B
	90	(62 - 130)	6.3	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 128)
	92	(61 - 128)
Toluene-d8	104	(76 - 110)
	103	(76 - 110)
Dibromofluoromethane	93	(73 - 122)
	93	(73 - 122)
4-Bromofluorobenzene	97	(74 - 116)
	99	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #: A1B240151 Work Order #: DWLMP1CJ-MS Matrix: WG
 MS Lot-Sample #: A1B240151-022 DWLMP1CK-MSD
 Date Sampled: 02/22/01 Date Received: 02/24/01
 Prep Date: 02/28/01 Analysis Date: 02/28/01
 Prep Batch #: 1059237
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(69 - 123)			EPA-DW 524.2
	98	(69 - 123)	0.05	(0-20)	EPA-DW 524.2
Bromobenzene	94	(59 - 132)			EPA-DW 524.2
	97	(59 - 132)	2.7	(0-20)	EPA-DW 524.2
Bromochloromethane	97	(69 - 132)			EPA-DW 524.2
	100	(69 - 132)	3.2	(0-20)	EPA-DW 524.2
Bromodichloromethane	98	(63 - 134)			EPA-DW 524.2
	97	(63 - 134)	1.3	(0-20)	EPA-DW 524.2
Bromoform	75	(52 - 134)			EPA-DW 524.2
	72	(52 - 134)	4.5	(0-20)	EPA-DW 524.2
Bromomethane	95	(58 - 136)			EPA-DW 524.2
	84	(58 - 136)	12	(0-20)	EPA-DW 524.2
n-Butylbenzene	89	(52 - 128)			EPA-DW 524.2
	83	(52 - 128)	7.0	(0-20)	EPA-DW 524.2
sec-Butylbenzene	97	(54 - 126)			EPA-DW 524.2
	91	(54 - 126)	6.7	(0-20)	EPA-DW 524.2
tert-Butylbenzene	86	(53 - 127)			EPA-DW 524.2
	83	(53 - 127)	3.9	(0-20)	EPA-DW 524.2
Carbon tetrachloride	106	(72 - 128)			EPA-DW 524.2
	97	(72 - 128)	9.4	(0-20)	EPA-DW 524.2
Chlorobenzene	101	(57 - 124)			EPA-DW 524.2
	102	(57 - 124)	1.2	(0-20)	EPA-DW 524.2
Chlorodibromomethane	90	(58 - 130)			EPA-DW 524.2
	85	(58 - 130)	6.2	(0-20)	EPA-DW 524.2
Chloroethane	88	(54 - 129)			EPA-DW 524.2
	81	(54 - 129)	7.5	(0-20)	EPA-DW 524.2
Chloroform	103	(73 - 130)			EPA-DW 524.2
	103	(73 - 130)	0.0	(0-20)	EPA-DW 524.2
Chloromethane	93	(54 - 129)			EPA-DW 524.2
	91	(54 - 129)	2.1	(0-20)	EPA-DW 524.2
2-Chlorotoluene	94	(55 - 129)			EPA-DW 524.2
	96	(55 - 129)	1.6	(0-20)	EPA-DW 524.2
4-Chlorotoluene	95	(55 - 135)			EPA-DW 524.2
	97	(55 - 135)	1.9	(0-20)	EPA-DW 524.2
1,2-Dibromo-3-chloro- propane	78	(10 - 156)			EPA-DW 524.2
	84	(10 - 156)	6.8	(0-20)	EPA-DW 524.2
1,2-Dibromoethane	94	(51 - 132)			EPA-DW 524.2
	94	(51 - 132)	0.05	(0-20)	EPA-DW 524.2

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWLMP1CJ-MS Matrix.....: WG
MS Lot-Sample #: A1B240151-022 DWLMP1CK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromomethane	104	(61 - 137)			EPA-DW 524.2
	98	(61 - 137)	6.2	(0-20)	EPA-DW 524.2
1,2-Dichlorobenzene	92	(40 - 140)			EPA-DW 524.2
	94	(40 - 140)	1.4	(0-20)	EPA-DW 524.2
1,3-Dichlorobenzene	96	(40 - 140)			EPA-DW 524.2
	97	(40 - 140)	1.4	(0-20)	EPA-DW 524.2
1,4-Dichlorobenzene	100	(40 - 140)			EPA-DW 524.2
	99	(40 - 140)	0.30	(0-20)	EPA-DW 524.2
Dichlorodifluoromethane	108	(59 - 150)			EPA-DW 524.2
	91	(59 - 150)	17	(0-20)	EPA-DW 524.2
1,1-Dichloroethane	109	(69 - 127)			EPA-DW 524.2
	106	(69 - 127)	2.6	(0-20)	EPA-DW 524.2
1,2-Dichloroethane	105	(51 - 132)			EPA-DW 524.2
	106	(51 - 132)	1.3	(0-20)	EPA-DW 524.2
1,1-Dichloroethene	85	(66 - 131)			EPA-DW 524.2
	79	(66 - 131)	7.4	(0-20)	EPA-DW 524.2
cis-1,2-Dichloroethene	94	(69 - 134)			EPA-DW 524.2
	94	(69 - 134)	0.53	(0-20)	EPA-DW 524.2
trans-1,2-Dichloroethene	106	(67 - 132)			EPA-DW 524.2
	99	(67 - 132)	7.5	(0-20)	EPA-DW 524.2
1,2-Dichloropropane	101	(61 - 136)			EPA-DW 524.2
	106	(61 - 136)	5.0	(0-20)	EPA-DW 524.2
1,3-Dichloropropane	95	(65 - 125)			EPA-DW 524.2
	98	(65 - 125)	3.8	(0-20)	EPA-DW 524.2
2,2-Dichloropropane	97	(71 - 123)			EPA-DW 524.2
	92	(71 - 123)	5.7	(0-20)	EPA-DW 524.2
1,1-Dichloropropene	88	(67 - 126)			EPA-DW 524.2
	87	(67 - 126)	1.7	(0-20)	EPA-DW 524.2
cis-1,3-Dichloropropene	86	(57 - 127)			EPA-DW 524.2
	87	(57 - 127)	1.4	(0-20)	EPA-DW 524.2
trans-1,3-Dichloropropene	88	(58 - 121)			EPA-DW 524.2
	84	(58 - 121)	4.8	(0-20)	EPA-DW 524.2
Ethylbenzene	89	(56 - 121)			EPA-DW 524.2
	92	(56 - 121)	3.1	(0-20)	EPA-DW 524.2
Hexachlorobutadiene	99	(60 - 134)			EPA-DW 524.2
	89	(60 - 134)	11	(0-20)	EPA-DW 524.2
Isopropylbenzene	86	(57 - 121)			EPA-DW 524.2
	85	(57 - 121)	1.4	(0-20)	EPA-DW 524.2
p-Isopropyltoluene	92	(55 - 127)			EPA-DW 524.2
	87	(55 - 127)	5.8	(0-20)	EPA-DW 524.2
Methylene chloride	80	(75 - 132)			EPA-DW 524.2
	80	(75 - 132)	0.14	(0-20)	EPA-DW 524.2
Naphthalene	62	(57 - 136)			EPA-DW 524.2
	75	(57 - 136)	18	(0-20)	EPA-DW 524.2

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: ALB240151
MS Lot-Sample #: ALB240151-022

Work Order #....: DWLMP1CJ-MS
DWLMP1CK-MSD

Matrix.....: WG

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Propylbenzene	92	(55 - 126)			EPA-DW 524.2
	85	(55 - 126)	7.2	(0-20)	EPA-DW 524.2
Styrene	86	(57 - 125)			EPA-DW 524.2
	93	(57 - 125)	8.2	(0-20)	EPA-DW 524.2
1,1,1,2-Tetrachloroethane	90	(56 - 133)			EPA-DW 524.2
	87	(56 - 133)	2.9	(0-20)	EPA-DW 524.2
1,1,2,2-Tetrachloroethane	100	(50 - 140)			EPA-DW 524.2
	104	(50 - 140)	4.4	(0-20)	EPA-DW 524.2
Tetrachloroethene	95	(66 - 128)			EPA-DW 524.2
	90	(66 - 128)	6.1	(0-20)	EPA-DW 524.2
Toluene	101	(57 - 139)			EPA-DW 524.2
	105	(57 - 139)	3.3	(0-20)	EPA-DW 524.2
1,2,3-Trichlorobenzene	67	(63 - 132)			EPA-DW 524.2
	84 p	(63 - 132)	23	(0-20)	EPA-DW 524.2
1,2,4-Trichloro- benzene	74	(63 - 125)			EPA-DW 524.2
	82	(63 - 125)	9.5	(0-20)	EPA-DW 524.2
1,1,1-Trichloroethane	101	(70 - 128)			EPA-DW 524.2
	93	(70 - 128)	8.2	(0-20)	EPA-DW 524.2
1,1,2-Trichloroethane	107	(64 - 128)			EPA-DW 524.2
	101	(64 - 128)	6.4	(0-20)	EPA-DW 524.2
Trichloroethene	103	(68 - 129)			EPA-DW 524.2
	91	(68 - 129)	12	(0-20)	EPA-DW 524.2
Trichlorofluoromethane	95	(55 - 144)			EPA-DW 524.2
	85	(55 - 144)	11	(0-20)	EPA-DW 524.2
1,2,3-Trichloropropane	91	(32 - 142)			EPA-DW 524.2
	106	(32 - 142)	16	(0-20)	EPA-DW 524.2
1,2,4-Trimethylbenzene	93	(59 - 127)			EPA-DW 524.2
	91	(59 - 127)	3.0	(0-20)	EPA-DW 524.2
1,3,5-Trimethylbenzene	94	(57 - 126)			EPA-DW 524.2
	92	(57 - 126)	1.8	(0-20)	EPA-DW 524.2
Vinyl chloride	84	(45 - 139)			EPA-DW 524.2
	82	(45 - 139)	1.9	(0-20)	EPA-DW 524.2
o-Xylene	91	(61 - 120)			EPA-DW 524.2
	90	(61 - 120)	0.99	(0-20)	EPA-DW 524.2
m-Xylene & p-Xylene	94	(59 - 124)			EPA-DW 524.2
	89	(59 - 124)	4.6	(0-20)	EPA-DW 524.2
Xylenes (total)	93	(59 - 124)			EPA-DW 524.2
	90	(59 - 124)	3.4	(0-20)	EPA-DW 524.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	96	(75 - 125)
	95	(75 - 125)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWLMP1CJ-MS Matrix.....: WG
MS Lot-Sample #: A1B240151-022 DWLMP1CK-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	97	(61 - 128)
	100	(61 - 128)
Toluene-d8	99	(76 - 110)
	102	(76 - 110)
Dibromofluoromethane	93	(73 - 122)
	94	(73 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWLM41AU-MS Matrix.....: WG
 MS Lot-Sample #: A1B240151-033 DWLM41AV-MSD
 Date Sampled....: 02/23/01 Date Received...: 02/24/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 6.67

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Toluene	104	(70 - 119)			SW846 8260B
	98	(70 - 119)	5.3	(0-20)	SW846 8260B
Chlorobenzene	105	(76 - 117)			SW846 8260B
	101	(76 - 117)	3.6	(0-20)	SW846 8260B
1,1-Dichloroethene	90	(62 - 130)			SW846 8260B
	92	(62 - 130)	2.6	(0-20)	SW846 8260B
Trichloroethene	98	(62 - 130)			SW846 8260B
	94	(62 - 130)	4.2	(0-20)	SW846 8260B
Benzene	97	(76 - 118)			SW846 8260B
	93	(76 - 118)	3.5	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(61 - 128)
	91	(61 - 128)
Toluene-d8	102	(76 - 110)
	100	(76 - 110)
Dibromofluoromethane	100	(73 - 122)
	96	(73 - 122)
4-Bromofluorobenzene	101	(74 - 116)
	99	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A1B240151 Work Order #....: DWLNA1EC-MS Matrix.....: WATER
 MS Lot-Sample #: A1B240152-003 DWLNA1ED-MSD
 Date Sampled....: 02/23/01 11:00 Date Received...: 02/23/01
 Prep Date.....: 02/28/01 Analysis Date...: 02/28/01
 Prep Batch #....: 1060147
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichloroethene	95	(62 - 130)			SW846 8260B
	98	(62 - 130)	2.6	(0-20)	SW846 8260B
Benzene	95	(76 - 118)			SW846 8260B
	98	(76 - 118)	2.8	(0-20)	SW846 8260B
Toluene	102	(70 - 119)			SW846 8260B
	104	(70 - 119)	2.0	(0-20)	SW846 8260B
Chlorobenzene	101	(76 - 117)			SW846 8260B
	105	(76 - 117)	3.3	(0-20)	SW846 8260B
1,1-Dichloroethene	90	(62 - 130)			SW846 8260B
	93	(62 - 130)	3.1	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 128)
	92	(61 - 128)
Toluene-d8	100	(76 - 110)
	102	(76 - 110)
Dibromofluoromethane	97	(73 - 122)
	99	(73 - 122)
4-Bromofluorobenzene	100	(74 - 116)
	97	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1B240151

Matrix.....: WG

Date Sampled...: 02/21/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B240151-001 Prep Batch #...: 1058099						
Aluminum	108	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11AT
	108	(75 - 125) 0.63	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11AU
		Dilution Factor: 1				
Arsenic	102	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11A3
	102	(75 - 125) 0.25	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11A4
		Dilution Factor: 1				
Cadmium	105	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11AQ
	105	(75 - 125) 0.42	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11AR
		Dilution Factor: 1				
Chromium	102	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11AV
	101	(75 - 125) 0.90	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11AW
		Dilution Factor: 1				
Iron	110	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11AN
	109	(75 - 125) 0.35	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11AP
		Dilution Factor: 1				
Lead	103	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11AS
	103	(75 - 125) 0.13	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11AG
		Dilution Factor: 1				
Manganese	104	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11AX
	103	(75 - 125) 0.67	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11AO
		Dilution Factor: 1				
Thallium	101	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11A7
	101	(75 - 125) 0.50	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11A8
		Dilution Factor: 1				
Vanadium	101	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLL11A1
	100	(75 - 125) 0.57	(0-20)	SW846 6010B	02/27-03/01/01	DWLL11A2
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: A1B240151

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B240151-022 Prep Batch #....: 1058098						
Aluminum	101	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AJ
	100	(75 - 125)	0.84 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AK
		Dilution Factor: 1				
Arsenic	99	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AX
	98	(75 - 125)	0.84 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AO
		Dilution Factor: 1				
Cadmium	99	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AF
	98	(75 - 125)	0.64 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AG
		Dilution Factor: 1				
Chromium	97	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AM
	96	(75 - 125)	0.87 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AN
		Dilution Factor: 1				
Iron	105	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AC
	104	(75 - 125)	0.62 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AD
		Dilution Factor: 1				
Lead	99	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1A2
	98	(75 - 125)	0.88 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1A3
		Dilution Factor: 1				
Manganese	99	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AQ
	98	(75 - 125)	0.48 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AR
		Dilution Factor: 1				
Thallium	94	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1A5
	94	(75 - 125)	0.96 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1A6
		Dilution Factor: 1				
Vanadium	96	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1AU
	95	(75 - 125)	1.0 (0-20)	SW846 6010B	02/27-03/01/01	DWLMP1AV
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1B240151

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B240151-033 Prep Batch #...: 1058096							
Aluminum	102	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41A2
	101	(75 - 125)	1.3	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41A3
			Dilution Factor: 1				
Arsenic	93	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41CA
	92	(75 - 125)	1.4	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41CC
			Dilution Factor: 1				
Cadmium	93	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41A0
	92	(75 - 125)	1.5	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41A1
			Dilution Factor: 1				
Chromium	94	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41A4
	93	(75 - 125)	1.3	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41A5
			Dilution Factor: 1				
Iron	NC,MSB	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41AW
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	02/27-03/02/01	DWLM41AX
			Dilution Factor: 1				
Lead	93	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41CD
	92	(75 - 125)	1.5	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41CE
			Dilution Factor: 1				
Manganese	94	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41A6
	92	(75 - 125)	1.7	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41A7
			Dilution Factor: 1				
Thallium	94	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41CF
	92	(75 - 125)	1.5	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41CG
			Dilution Factor: 1				
Vanadium	95	(75 - 125)			SW846 6010B	02/27-03/01/01	DWLM41A8
	94	(75 - 125)	1.4	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41A9
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A1B240151

Matrix.....: WG

Date Sampled...: 02/22/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B240151-022 Prep Batch #...: 1058098						
Iron	106	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1CM
	106	(75 - 125) 0.0	(0-20)	SW846 6010B	02/27-03/01/01	DWLMP1CN
Dilution Factor: 1						
Manganese	96	(75 - 125)		SW846 6010B	02/27-03/01/01	DWLMP1CQ
	95	(75 - 125) 0.42	(0-20)	SW846 6010B	02/27-03/01/01	DWLMP1CR
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A1B240151

Matrix.....: WG

Date Sampled...: 02/23/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1B240151-033 Prep Batch #...: 1058096						
Iron	NC,MSB	(75 - 125)		SW846 6010B	02/27-03/02/01	DWLM41CP
	NC,MSB	(75 - 125)	(0-20)	SW846 6010B	02/27-03/02/01	DWLM41CQ
Dilution Factor: 1						
Manganese	92	(75 - 125)		SW846 6010B	02/27-03/02/01	DWLM41CR
	94	(75 - 125)	1.7 (0-20)	SW846 6010B	02/27-03/02/01	DWLM41CT
Dilution Factor: 1						
Thallium	92	(75 - 125)		SW846 6010B	02/27-03/02/01	DWLM41CU
	94	(75 - 125)	3.0 (0-20)	SW846 6010B	02/27-03/02/01	DWLM41CV
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#:	DWLMF1CF-MS/DWLMF1CG-MSD	MS Lot-Sample #:	A1B240151-022	
	95	(59 - 132)			MCAWW 300.0A	03/01/01	1061209
	96	(59 - 132)	1.5	(0-20)	MCAWW 300.0A	03/01/01	1061209
			Dilution Factor: 1				
Chloride			WO#:	DWLM41CM-MS/DWLM41CN-MSD	MS Lot-Sample #:	A1B240151-033	
	61	(59 - 132)			MCAWW 300.0A	03/06/01	1066265
	67	(59 - 132)	0.87	(0-20)	MCAWW 300.0A	03/06/01	1066265
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Matrix.....: WATER

Date Sampled....: 02/21/01

Date Received...: 02/22/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#:	DWGW91CC-MS/DWGW91CD-MSD	MS Lot-Sample #:	A1B220179-017
	93	(59 - 132)		MCAW 300.0A	03/06/01	1066265
	94	(59 - 132)	0.63 (0-20)	MCAW 300.0A	03/06/01	1066265

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLMA-SMP

Matrix.....: WG

DWLMA-DUP

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	300	280	mg/L	7.2	(0-20)	MCANW 160.1	02/26-02/27/01	1057224
SD Lot-Sample #: A1B240151-010								
Dilution Factor: 1								

General Chemistry

Matrix.....: WATER

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREF BATCH
Total Dissolved Solids	160	160	mg/L	0.62	(0-20)	MCAWW 160.1	02/26-02/27/01	105722
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLME-SMP

Matrix.....: WG

DWLME-DUP

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	54	57	mg/L	5.4	(0-20)	MCAWW 160.1	02/26-02/27/01	1057227
Dilution Factor: 1								
SD Lot-Sample #: A1B240151-013								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLMP-SMP
DWLMP-DUP

Matrix.....: WG

Date Sampled....: 02/22/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	130	130	mg/L	2.3	(0-20)	MCAWW 160.1	02/26-02/27/01	105722
Dilution Factor: 1								
Total Suspended Solids	ND	ND	mg/L	0	(0-20)	MCAWW 160.2	02/26-02/27/01	1057228
Dilution Factor: 1								

SD Lot-Sample #: A1B240151-022

SD Lot-Sample #: A1B240151-022

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLL2-SMP
DWLL2-DUP

Matrix.....: WG

Date Sampled....: 02/21/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	25	8.0	mg/L	103	(0-20)	MCAWW 160.2	02/26-02/27/01	1057229
SD Lot-Sample #: A1B240151-002								
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLM4-SMP
DWLM4-DUP

Matrix.....: WG

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Total Dissolved Solids	1400	1300	mg/L	1.2	(0-20)	MCAWW 160.1	02/28-03/01/01	106014
Dilution Factor: 1								
Total Suspended Solids	80	83	mg/L	3.7	(0-20)	MCAWW 160.2	02/28-03/01/01	1059356
Dilution Factor: 1								

SD Lot-Sample #: A1B240151-033

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLM6-SMP

Matrix.....: WG

DWLM6-DUP

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: A1B240151-035		
	1200	1200	mg/L	4.8	(0-20)	MCAWW 160.1	02/28-03/01/01	1060140
			Dilution Factor: 1					
Total Suspended Solids						SD Lot-Sample #: A1B240151-035		
	95	110	mg/L	14	(0-20)	MCAWW 160.2	02/28-03/01/01	1059356
			Dilution Factor: 1					

General Chemistry

Matrix.....: WATER

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	5.0	ND	mg/L	86	(0-20)	MCAWW 160.2	02/28-03/01/01	1059354
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A1B240151

Work Order #....: DWLMO-SMP

Matrix.....: WG

DWLM0-DUP

Date Sampled....: 02/23/01

Date Received...: 02/24/01

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	ND	ND	mg/L	0	(0-20)	MCAWW 160.2	02/28-03/01/01	1059354
SD Lot-Sample #: A1B240151-029								
Dilution Factor: 1								

CHAIN OF CUSTODY RECORD

Pg. 1 of 3

234

CRA
 (651)
 CONESTOGA-ROVERS & ASSOCIATES
 1801 OLD HWY. 8, SUITE 114
 ST. PAUL, MN 55112 639-0913

SHIPPED TO (Laboratory Name):

STL - N. Canton

REFERENCE NUMBER:

#12865-70

SAMPLER'S
SIGNATURE:PRINTED
NAME:

DAN NELSON

SEQ.
No.

DATE

TIME

SAMPLE No.

SAMPLE
TYPENo. OF
CONTAINERS

PARAMETERS

REMARKS

	2/21/01		W-010221-DN-20	WATER	5	8	240/6's	Total Metals	Chloride	24.4/6's	TD5+TD3	(Metals)	Iron	Manganese	Thallium	
	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
			-21													
			-22													
			-23													
			-24													
			-25													
	2/21/01		W-010221-DN-100	WATER	5											
	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
			-101													
			-102													
			-103													
			-104													
			-105													
	2/22/01		W-010222-DN-26	WATER	7											
	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
			-27													
			-28													
			-29													
			-30													

Note: Additional
Metals taken at
Selected locations
and Analysis. These
Metals were Field
Filtered.

Any Questions,
Please Contact
Grant Anderson @
(651) 639-0913

TOTAL NUMBER OF CONTAINERS

105

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

① Dan Nelson

DATE: 2/23/01

TIME: 12:00

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex P.O.N.

WAY BILL No.

White

-Fully Executed Copy

Yellow

-Receiving Laboratory Copy

Pink

-Shipper Copy

Goldenrod

-Sampler Copy

SAMPLE TEAM:

NELSON, D.

Stalio, P.

RECEIVED FOR LABORATORY BY:

Denny Burns

DATE: 2/24/01

TIME: 9:30/A

No 02982

1001 JULY 19/93 REV.0 (F-42)

STL North Canton

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. B, SUITE 114
ST. PAUL, MN 55112 (651) 2639-0913

STL - N. Canton #12865-70

SHIPPED TO (Laboratory Name):

INSTRUMENT NUMBER:

SAMPLER'S SIGNATURE: *[Signature]*

PRINTED NAME: *John Nelson*

NO. OF CONTAINERS

PARAMETERS: *[Handwritten list of parameters]*

REMARKS

SEQ. NO.

DATE

TIME

SAMPLE No.

SAMPLE TYPE

NO. OF CONTAINERS

PARAMETERS: *[Handwritten list of parameters]*

REMARKS

1

2/2/01

14-010823-DN-31

-32

7

7

[Handwritten notes]

[Handwritten notes]

2

2/2/01

14-010823-DN-31

-33

7

7

[Handwritten notes]

[Handwritten notes]

3

2/2/01

14-010823-DN-31

-106

7

7

[Handwritten notes]

[Handwritten notes]

4

2/2/01

14-010823-DN-31

-107

7

7

[Handwritten notes]

[Handwritten notes]

5

2/2/01

14-010823-DN-31

-108

7

7

[Handwritten notes]

[Handwritten notes]

6

2/2/01

14-010823-DN-31

-109

7

7

[Handwritten notes]

[Handwritten notes]

7

2/2/01

14-010823-DN-31

-35

7

7

[Handwritten notes]

[Handwritten notes]

8

2/2/01

14-010823-DN-31

-36

7

7

[Handwritten notes]

[Handwritten notes]

9

2/2/01

14-010823-DN-31

-37

7

7

[Handwritten notes]

[Handwritten notes]

10

2/2/01

14-010823-DN-31

-38

7

7

[Handwritten notes]

[Handwritten notes]

11

2/2/01

14-010823-DN-31

-39

7

7

[Handwritten notes]

[Handwritten notes]

12

2/2/01

14-010823-DN-31

-40

7

7

[Handwritten notes]

[Handwritten notes]

13

2/2/01

14-010823-DN-31

-41

7

7

[Handwritten notes]

[Handwritten notes]

14

2/2/01

14-010823-DN-31

-42

7

7

[Handwritten notes]

[Handwritten notes]

15

2/2/01

14-010823-DN-31

-43

7

7

[Handwritten notes]

[Handwritten notes]

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RECEIVED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RELINQUISHED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RECEIVED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RELINQUISHED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RECEIVED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RELINQUISHED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

RECEIVED BY: *[Signature]*

DATE: 2/2/01

TIME: 12:00

METHOD OF SHIPMENT: *Feb-Ex P.O.N.*

WAY BILL No.

White

-Fully Executed Copy

SAMPLE TEAM

RECEIVED FOR LABORATORY BY: *[Signature]*

Yellow

-Receiving Laboratory Copy

SAMPLE TEAM

RECEIVED FOR LABORATORY BY: *[Signature]*

Pink

-Shipper Copy

SAMPLE TEAM

RECEIVED FOR LABORATORY BY: *[Signature]*

Goldenrod

-Sampler Copy

SAMPLE TEAM

RECEIVED FOR LABORATORY BY: *[Signature]*

No. 02983

1001 JULY 19/93 REV.0 (F-42)

STL North Canton

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612) 639-0913(451)

SHIPPED TO (Laboratory Name):

STL - N. Canton

REFERENCE NUMBER:

12865-70

SAMPLER'S
SIGNATURE:

[Signature]

PRINTED
NAME:

DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	8/23/01		W-010223-DN-44	Water	7	~~Ascorbic Acid~~ ~~Cadmium~~ ~~Chloride~~ ~~Copper~~ ~~Iron~~ ~~Lead~~ ~~Manganese~~ ~~Nickel~~ ~~Selenium~~ ~~Silver~~ ~~Sulfate~~ ~~Titanium~~ ~~Zinc~~	
			trip blanks		2		
			Temp blanks (1 per cooler)				
End of Samples !!							

Note: Additional metals taken at selected locations and analyzed. These metals were first filtered.

TOTAL NUMBER OF CONTAINERS

14

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

① *[Signature]*

DATE: 8/23/01

TIME: 12:00

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

WAY BILL No.

White
Yellow
Pink
Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

Nelson, D.
Stalio, P.

RECEIVED FOR LABORATORY BY:

[Signature]
DATE: 8/24/01 TIME: 9:30/n

No 03500

CHAIN OF CUSTODY RECORD

CRA

(651) ←
 CONESTOGA-ROVERS & ASSOCIATES
 1801 OLD HWY. 8, SUITE 114
 ST. PAUL, MN 55112 639-0913

SHIPPED TO (Laboratory Name):

STL - N. Canton

REFERENCE NUMBER:

#12865-70

SAMPLER'S
SIGNATURE:PRINTED
NAME:

JAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS										REMARKS
	2/21/01		W-010221-DN-20	WATER	5	8 Chloride 5444 Kcs TDS & TSS Metals Iron Manganese Thallium										Note: Additional Metals taken at Selected locations and Analysis. These Metals were Field Filtered.
	↓	↓	↓	↓	7											
	↓	↓	↓	↓	7											
	↓	↓	↓	↓	5											
	↓	↓	↓	↓	7											
	2/21/01		W-010221-DN-100	WATER	5											Any Questions, please contact Grant Anderson @ (651) 639-0913
	↓	↓	↓	↓	5											
	↓	↓	↓	↓	5											
	↓	↓	↓	↓	7											
	↓	↓	↓	↓	5											
	2/22/01		W-010222-DN-26	WATER	7											
	↓	↓	↓	↓	7											
	↓	↓	↓	↓	7											
	↓	↓	↓	↓	7											
	↓	↓	↓	↓	7											
TOTAL NUMBER OF CONTAINERS					105	HEALTH/CHEMICAL HAZARDS										

RELINQUISHED BY:

①

DATE: 2/23/01

TIME: 12:00

RECEIVED BY:

②

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex P.O.N.

WAY BILL No.

White
 Yellow
 Pink
 Goldenrod

-Fully Executed Copy
 -Receiving Laboratory Copy
 -Shipper Copy
 -Sampler Copy

SAMPLE TEAM:

NELSON, D.
 Strick, P.

RECEIVED FOR LABORATORY BY:

Perry Burns
 DATE: 2/24/01 TIME: 9:30/A

No 02982

CHAIN OF CUSTODY RECORD

P 2 of 3

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (651) 639-0913

SHIPPED TO (Laboratory Name):

STL - N. Carlson

REFERENCE NUMBER:

#12865-70

SAMPLER'S
SIGNATURE:

PRINTED
NAME:

DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	7/21/01		W-010222-DN-31	WATER	7	Asbestos Bacteria Chloride Sulfate TDS (Metals) Iron Manganese Thallium	
			-32		7		
			-33		7		
			-106		5		
			-107	(ns/mg)	21		
			-108		7		
			-109		7		
	7/23/01		W-010223-DN-34	WATER	7		
			-35		7		
			-36		7		
			-37		7		
			-38		7		
			-39		7		
			-40		7		
			-41		7		
			-42 (ns/mg)		21		
			-43		7		
TOTAL NUMBER OF CONTAINERS					143	HEALTH/CHEMICAL HAZARDS	

Note: Additional metals - heavy metal selected for testing and analysis. These metals were field filtered.

Sample # 36 + #38 metals for Iron, Manganese & Thallium were not filtered.

RELINQUISHED BY:

① [Signature]

DATE: 7/23/01

TIME: 12:00

RECEIVED BY:

② [Signature]

DATE:

TIME:

RELINQUISHED BY:

② [Signature]

DATE:

TIME:

RECEIVED BY:

③ [Signature]

DATE:

TIME:

RELINQUISHED BY:

③ [Signature]

DATE:

TIME:

RECEIVED BY:

④ [Signature]

DATE:

TIME:

METHOD OF SHIPMENT:

Fed-Ex P.O.N.

WAY BILL No.

White
Yellow
Pink
Goldenrod

-Fully Executed Copy
-Receiving Laboratory Copy
-Shipper Copy
-Sampler Copy

SAMPLE TEAM:

Nelson, D.
Stall, P.

RECEIVED FOR LABORATORY BY:

[Signature]
DATE: 7/24/01 TIME: 9:30/A

No 02983

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES

1801 OLD HWY. 8, SUITE 114

ST. PAUL, MN 55112 (612) 639-0913(451)

SHIPPED TO (Laboratory Name):

STL - N. Canton

REFERENCE NUMBER:

12865-70

SAMPLER'S
SIGNATURE:PRINTED
NAME:

DAN NELSON

No. OF
CONTAINERS

PARAMETERS

REMARKS

SEQ.
No.

DATE

TIME

SAMPLE No.

SAMPLE
TYPE

7

PARAMETERS

Cadmium

Chromium

Copper

Iron

Lead

Manganese

Mercury

Nickel

Silver

Vanadium

Zinc

Zinc

Zinc

Zinc

Zinc

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Zinc

Cadmium

Chromium

Copper

Iron

Lead

Manganese

Mercury

Nickel

Silver

Vanadium

Zinc

Zinc

Zinc

Zinc

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Zinc

Note: Additional
metals taken at
selected locations
and analyzed. These
metals were first
filtered.

End of Samples !!

TOTAL NUMBER OF CONTAINERS

14

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

①

DATE: 2/23/01

TIME: 12:00

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

WAY BILL No.

White

-Fully Executed Copy

Yellow

-Receiving Laboratory Copy

Pink

-Shipper Copy

Goldenrod

-Sampler Copy

SAMPLE TEAM:

Nelson, D.

Stalio, P.

RECEIVED FOR LABORATORY BY:

Terry Burns

DATE: 2/24/01

TIME: 9:30 AM

No 03500

CHAIN OF CUSTODY RECORD

pg. 1 of 3

CRA CONESTOGA-ROVERS & ASSOCIATES 1801 OLD HWY. 8, SUITE 114 ST. PAUL, MN 55112 (651) 639-0913	SHIPPED TO (Laboratory Name): STL - N. Canton	REFERENCE NUMBER: # 12865-70

SAMPLER'S SIGNATURE: <i>Jim Nelson</i>			PRINTED NAME: <i>DAN NELSON</i>		No. OF CONTAINERS	PARAMETERS										REMARKS
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE		B	Barium	Cadmium	Chloride	Cyanide	Iron	Manganese	Thallium			
	2/21/01		W-010221-DN-20 MW-9C	Water	5	X	X	X	X	X	X	X	X	Note: Additional Metals taken at selected locations and Analysis. These Metals were field Filtered.		
	↓	↓	-21 MW-9B	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-22 MW-9B (Dup.)	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-23 MW-9A	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-24 MW-13B	↓	5	X	X	X	X	X	X	X	X			
	↓	↓	-25 MW-13A	↓	7	X	X	X	X	X	X	X	X	Any Questions, please contact Grant Anderson @ (651) 639-0913		
	2/21/01		W-010221-DN-100 Tom Ploss	Water	5	X	X	X	X	X	X	X	X			
	↓	↓	-101 Ploss Rental	↓	5	X	X	X	X	X	X	X	X			
	↓	↓	-102 Ploss Rental (Dup.)	↓	5	X	X	X	X	X	X	X	X			
	↓	↓	-103 John Ploss	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-104 Zdrojowy	↓	5	X	X	X	X	X	X	X	X			
	↓	↓	-105 Zdrojowy (R.B.)	↓	5	X	X	X	X	X	X	X	X			
	2/22/01		W-010222-DN-26 MW-10A	Water	7	X	X	X	X	X	X	X	X			
	↓	↓	-27 MW-5C	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-28 MW-5B	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-29 MW-5A	↓	7	X	X	X	X	X	X	X	X			
	↓	↓	-30 MW-17A	↓	7	X	X	X	X	X	X	X	X			
TOTAL NUMBER OF CONTAINERS					105	HEALTH/CHEMICAL HAZARDS										

RELINQUISHED BY: ① <i>Jim Nelson</i>	DATE: 2/23/01	RECEIVED BY: ②	DATE:
	TIME: 12:00		TIME:
RELINQUISHED BY: ②	DATE:	RECEIVED BY: ③	DATE:
	TIME:		TIME:
RELINQUISHED BY: ③	DATE:	RECEIVED BY: ④	DATE:
	TIME:		TIME:

METHOD OF SHIPMENT: <i>Fed-Ex P.O.N.</i>		WAY BILL No.	
White - Fully Executed Copy	SAMPLE TEAM: <i>NEILSON, D.</i>	RECEIVED FOR LABORATORY BY:	
Yellow - Receiving Laboratory Copy	<i>Stallie, P.</i>	No 02982	
Pink - Shipper Copy		DATE:	TIME:
Goldenrod - Sampler Copy			

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 OLD HWY. 8, SUITE 114
ST. PAUL, MN 55112 (612) 639-0913

SHIP TO (Laboratory Name):

STL - N. Canton

REFERENCE NUMBER:

#12865-70

SAMPLER'S
SIGNATURE:

[Signature]

PRINTED
NAME:

DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
	2/23/01		WL-010222-DN-31 MW-17B	WALA	7	X	
			- 32 MW-2B		7	X	
			- 33 MW-2B (Dup)		7	X	
			- 106 Boehm		5	X	
			- 107 Ripp (ns/mdb)		21	X	
			- 108 Kenworthy		5	X	
			- 109 Thunderbuck		7	X	
	2/23/01		WL-010223-DN-34 MW-2A	WALA	7	X	
			- 35 MW-8A		7	X	
			- 36 MW-4B (RB)		7	X	
			- 37 MW-4B (RB)		7	X	
			- 38 MW-4B (RB)		7	X	
			- 39 MW-4A		7	X	
			- 40 MW-3C		7	X	
			- 41 MW-3C (Dup)		7	X	
			- 42 (ns/mdb) MW-3B		21	X	
			- 43 MW-3A		7	X	
TOTAL NUMBER OF CONTAINERS					143	HEALTH/CHEMICAL HAZARDS	

RELINQUISHED BY:

① *[Signature]*

DATE: 2/23/01

TIME: 12:00

RECEIVED BY:

② _____

DATE:

TIME:

RELINQUISHED BY:

② _____

DATE:

TIME:

RECEIVED BY:

③ _____

DATE:

TIME:

RELINQUISHED BY:

③ _____

DATE:

TIME:

RECEIVED BY:

④ _____

DATE:

TIME:

METHOD OF SHIPMENT: Fed-Ex P.O.N.

WAY BILL No.

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldenrod - Sampler Copy

SAMPLE TEAM:

Nelson, D.
Stalio, P.

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

NO 02983

APPENDIX B
GROUNDWATER DATA VALIDATION MEMO



**CONESTOGA-ROVERS
& ASSOCIATES**

1801 Old Highway 8 NW, Suite #114
St. Paul, Minnesota . 55112
Telephone: (651) 639-0913 Fax: (651) 639-0923
www.CRAworld.com

MEMORANDUM

TO: Katie Kamm REF. NO.: 12865-70
FROM: Grant Anderson *GDA* DATE: March 28, 2001
C.C.: Analytical Data File
Brian Sandberg
RE: Data Quality Assessment and Validation
February 2001 Sampling Events
Tomah Landfill Site - Tomah, Wisconsin (COC 2981-2984, 3500)

The following details a data quality assessment and validation for water samples collected February 20-23, 2001, at the Tomah Landfill Site in Tomah, Wisconsin. The samples identified in Table 1 were analyzed for three or more of the parameters listed in Table 2. With the exception of VOC (524.2), the analyses were performed by Severn Trent Laboratories (STL) in North Canton, Ohio. The VOC (524.2) analyses were performed by STL in Pittsburgh, Pennsylvania. The quality assurance criteria were defined by the quality assurance project plan (QAPP)¹.

Holding Time Periods

The holding time periods for the analyses are presented in Table 2. On the basis of sample collection dates and analysis dates on the chain-of-custody forms and the analytical report provided by STL, the analyses were completed within the specified holding time periods.

Method Blank Samples

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The method blank samples were reported to be free from detectable concentrations of target analytes, indicating that laboratory contamination was unlikely.

¹ Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999 and "National Functional Guidelines for Inorganic Data Review", February 1994.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for VOC analyses was monitored using surrogate recoveries. The surrogate recoveries for the analyses were within acceptance criteria, indicating that individual sample performance was adequate.

Laboratory Control Sample (LCS) Recoveries

Overall performance of the analyses was monitored by means of LCS. The LCS percent recoveries were within acceptance criteria, indicating that overall performance was adequate.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results

To assess the long-term accuracy and precision of the analytical method on various matrices, MS/MSD - percent recoveries and relative percent difference (RPD) of the recoveries were determined for the analyses. The MS/MSD results for project-related samples were within acceptance criteria, indicating that long-term accuracy and precision were adequate.

Laboratory Duplicate (DUP) Results

To assess the precision of the analytical method on various matrices, RPDs were determined for DUP analyses. With the exception of TSS in sample W-010221-DN-21, the DUP results for project-related samples were within acceptance criteria. Table 3 presents the outlying DUP data. The associated sample data should be qualified as noted in the table.

Calibration Range Exceedance

The vinyl chloride results for sample W-010222-DN-28 (dilution factor 2) was reported to exceed the calibration range of the instrument. As a result, the vinyl chloride result for sample W-010222-DN-28 (dilution factor 2) should be qualified as estimated (J). The sample was reanalyzed at a higher dilution with vinyl chloride within the calibration range.

Field Quality Assurance/Quality Control (QA/QC) Samples

The field QA/QC samples associated with the February sampling event consisted of three trip blank samples, five rinsate/field blank samples, and five field duplicate sample sets.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, three trip blank samples were submitted to the laboratory for VOC analysis. The trip blank samples were reported to be free from detectable concentrations of VOC target analytes, indicating that cross-contamination was unlikely.

As a check for cleanliness of sampling equipment, four rinsate blank samples were collected as authentic samples for labeling and submission to the laboratory. One field blank was submitted in an effort to evaluate the ambient conditions at the Site. The rinsate blank and field blank samples are identified in Table 4. The rinsate/field blank samples were reported to be free from detectable concentrations of target analytes, indicating that cross-contamination from the sampling environment and/or sampling equipment was unlikely.

Overall, precision for the sampling event was monitored using field duplicate sample sets. The field duplicate sample sets are listed in Table 5. RPD values were calculated for positive results from the field duplicate samples. With the exception of TSS, RPD data from the field duplicate sets was found to be acceptable. The TSS results for sample set W-010221-DN-21/W-010221-DN-22 were non-comparable. As a result, the TSS result for samples W-010221-DN-21 and W-010221-DN-22 should be qualified as estimated (J and UJ, respectively).

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above.

GDA/ma/8
Enc.

TABLE 1

**SAMPLE IDENTIFICATION NUMBERS
TOMAH LANDFILL SITE
FEBRUARY 2001 SAMPLING EVENT**

W-010220-DN-01	W-010221-DN-100
W-010220-DN-02	W-010221-DN-101
W-010220-DN-03	W-010221-DN-102
W-010220-DN-04	W-010221-DN-103
W-010220-DN-05	W-010221-DN-104
W-010220-DN-06	W-010221-DN-105
W-010220-DN-07	W-010222-DN-26
W-010220-DN-08	W-010222-DN-27
W-010220-DN-09	W-010222-DN-28
W-010220-DN-10	W-010222-DN-29
W-010220-DN-11	W-010222-DN-30
W-010220-DN-12	W-010222-DN-31
W-010220-DN-13	W-010222-DN-32
W-010220-DN-14	W-010222-DN-33
W-010220-DN-15	W-010222-DN-106
W-010221-DN-16	W-010222-DN-107
W-010221-DN-17	W-010222-DN-108
W-010221-DN-18	W-010222-DN-109
W-010221-DN-19	W-010223-DN-34
W-010221-DN-20	W-010223-DN-35
W-010221-DN-21	W-010223-DN-36
W-010221-DN-22	W-010223-DN-37
W-010221-DN-23	W-010223-DN-38
W-010221-DN-24	W-010223-DN-39
W-010221-DN-25	W-010223-DN-40
	W-010223-DN-41
	W-010223-DN-42
	W-010223-DN-43
	W-010223-DN-44

TABLE 2

SUMMARY OF ANALYTICAL PARAMETERS
AND HOLDING TIME PERIODS
TOMAH LANDFILL SITE
FEBRUARY 2001 SAMPLING EVENT

<i>Analysis-Method</i> ¹	<i>Holding Time</i> ²
Volatile Organic Compounds (VOC) - SW 8260B or EPA 524.2	14 days
Total or Dissolved Select Metals - SW 6010B	6 months
Chloride - MCAWW 300.0A	28 days
Total Dissolved Solids - MCAWW 160.1	7 days
Total Susspended Solids - MCAWW 160.2	7 days

Notes:

¹ Methods were derived from:

SW - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods",
3rd Edition, November 1986 with its updates and revisions.

MCAWW - "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020,
March 1983 and revisions.

EPA - "Methods for the Determination of Organic Compounds in Drinking Water",
EPA-600/4-88/039, December 1988 and supplements.

² Holding time periods are based from sample collection date to sample analysis date.

TABLE 3

OUTLYING LABORATORY DUPLICATE DATA
FEBRUARY 2001 SAMPLING EVENT
TOMAH LANDFILL SITE

<i>Sample ID</i>	<i>Batch</i>	<i>Analyte</i>	<i>Result</i>	<i>Dup Result</i>	<i>RPD</i>	<i>RPD Limits</i>	<i>Qualifier¹</i>	<i>Associated Sample(s)</i>
W-010221-DN-21	1057228	TSS	25	8	103	20	J/UJ	W-010221-DN-21; W-010221-DN-22; W-010221-DN-23; W-010221-DN-25; W-010221-DN-103; W-010222-DN-27; W-010222-DN-28; W-010222-DN-29; W-010222-DN-30; W-010222-DN-31; W-010222-DN-32; W-010222-DN-33; W-010222-DN-107; W-010222-DN-109

Notes:

¹ Sample results should be qualified as:

J - The associated value is an estimated quantity for detected analytes.

UJ - The analyte was checked for, but not detected. The associated value is an estimated quantitation limit.

TABLE 4

**RINSATE/FIELD BLANK SAMPLE
IDENTIFICATION NUMBERS
TOMAH LANDFILL SITE
FEBRUARY 2001 SAMPLING EVENT**

W-010220-DN-04

W-010220-DN-15

W-010221-DN-105

W-010223-DN-36

W-010223-DN-38

TABLE 5

**FIELD DUPLICATE SAMPLE SET
IDENTIFICATION NUMBERS
TOMAH LANDFILL SITE
FEBRUARY 2001 SAMPLING EVENT**

W-010220-DN-08/W010220-DN-09

W-010221-DN-21/W010221-DN-22

W-010221-DN-101/W010221-DN-102

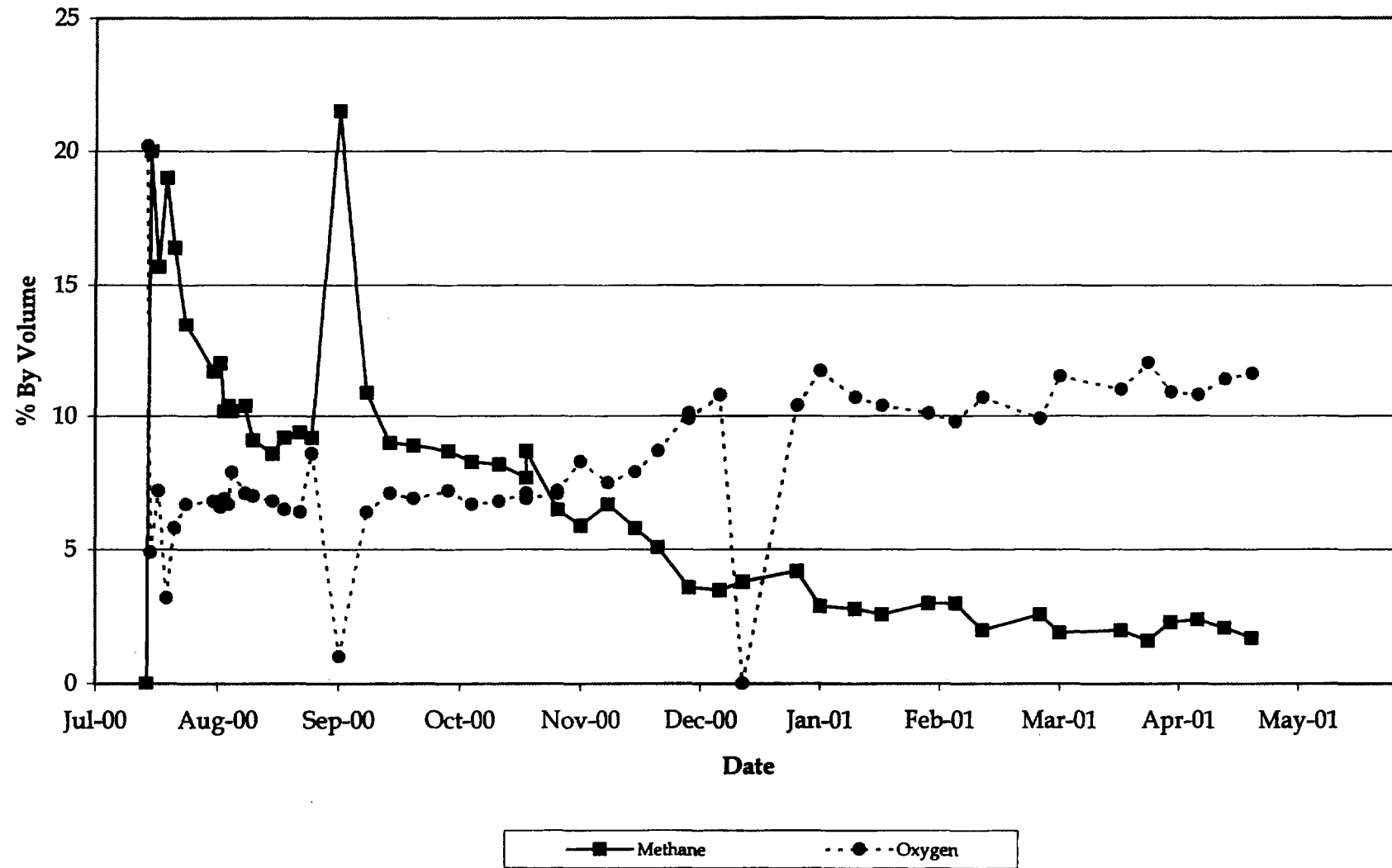
W-010222-DN-32/W010222-DN-33

W-010223-DN-40/W010223-DN-41

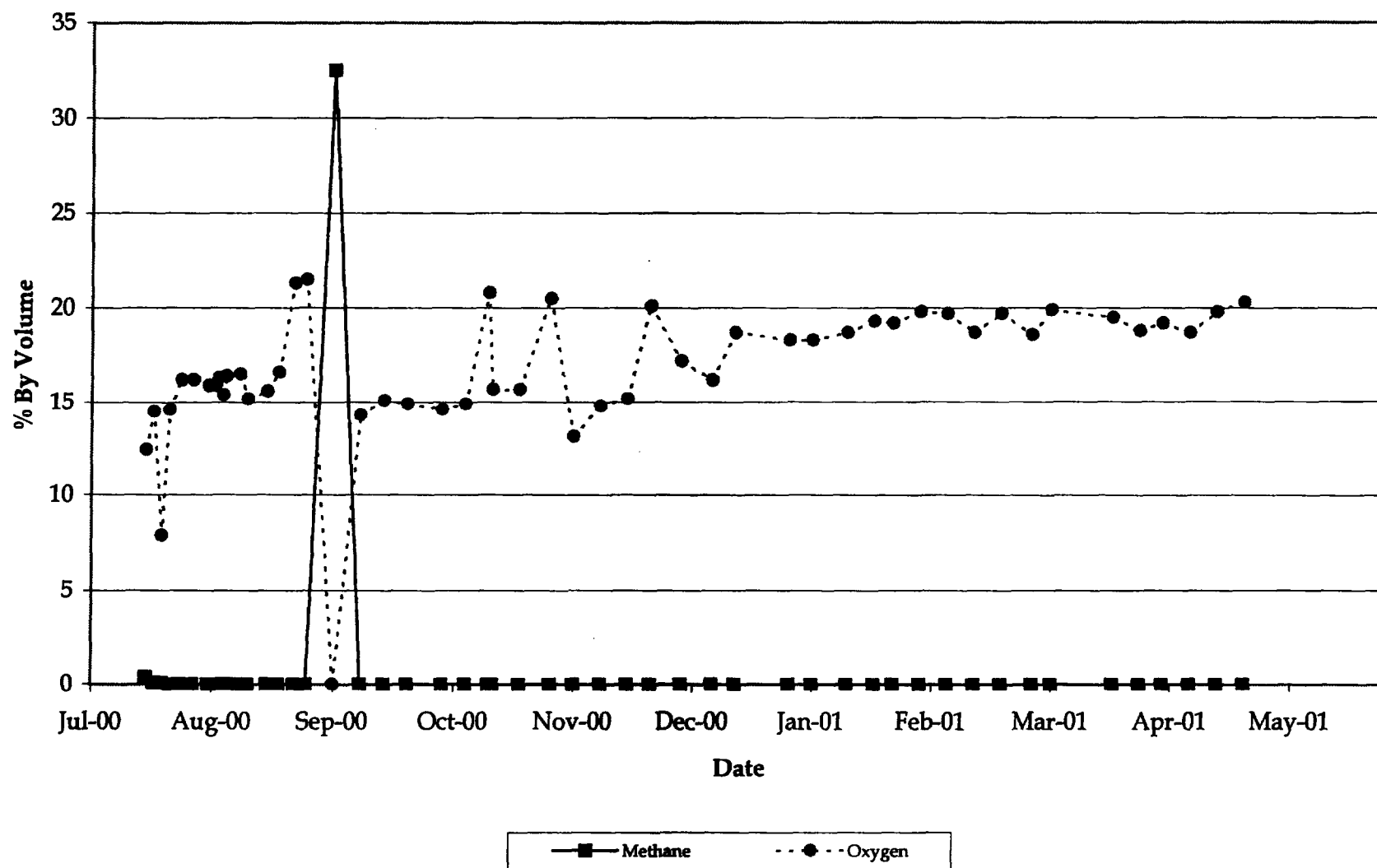
APPENDIX C

**METHANE CONCENTRATIONS
IN GAS EXTRACTION WELLS**

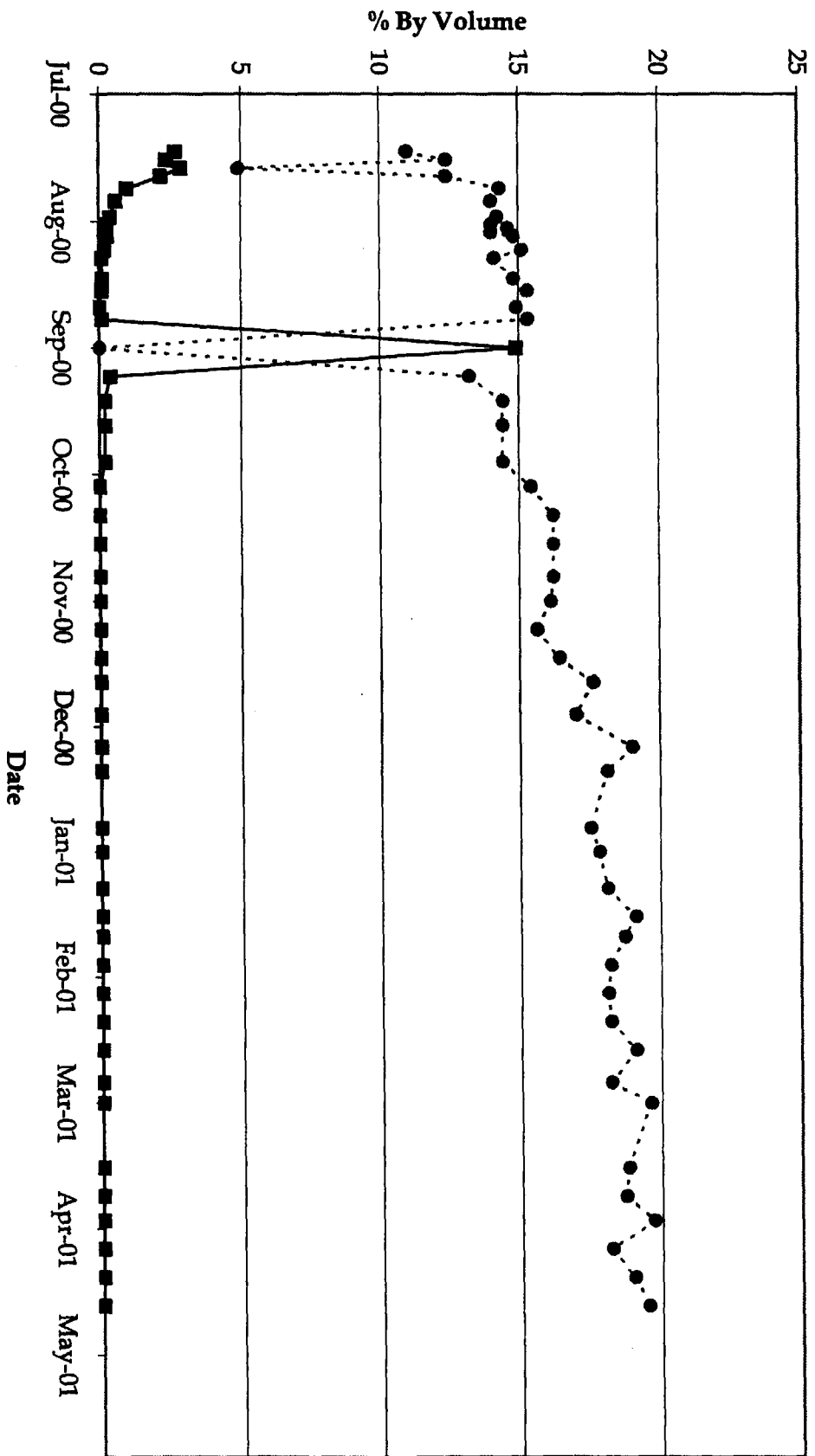
BLOWER OUTLET



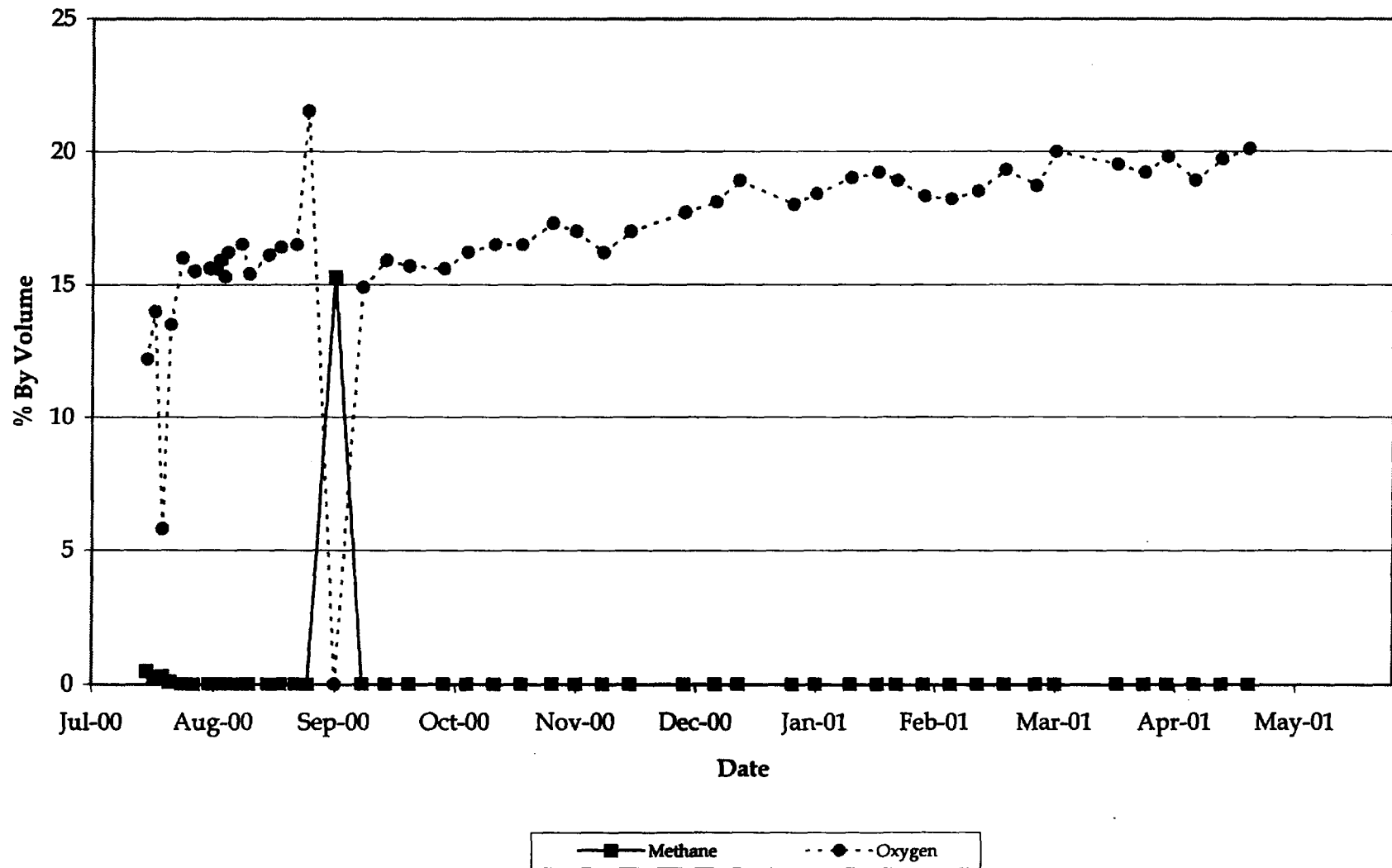
EW-01



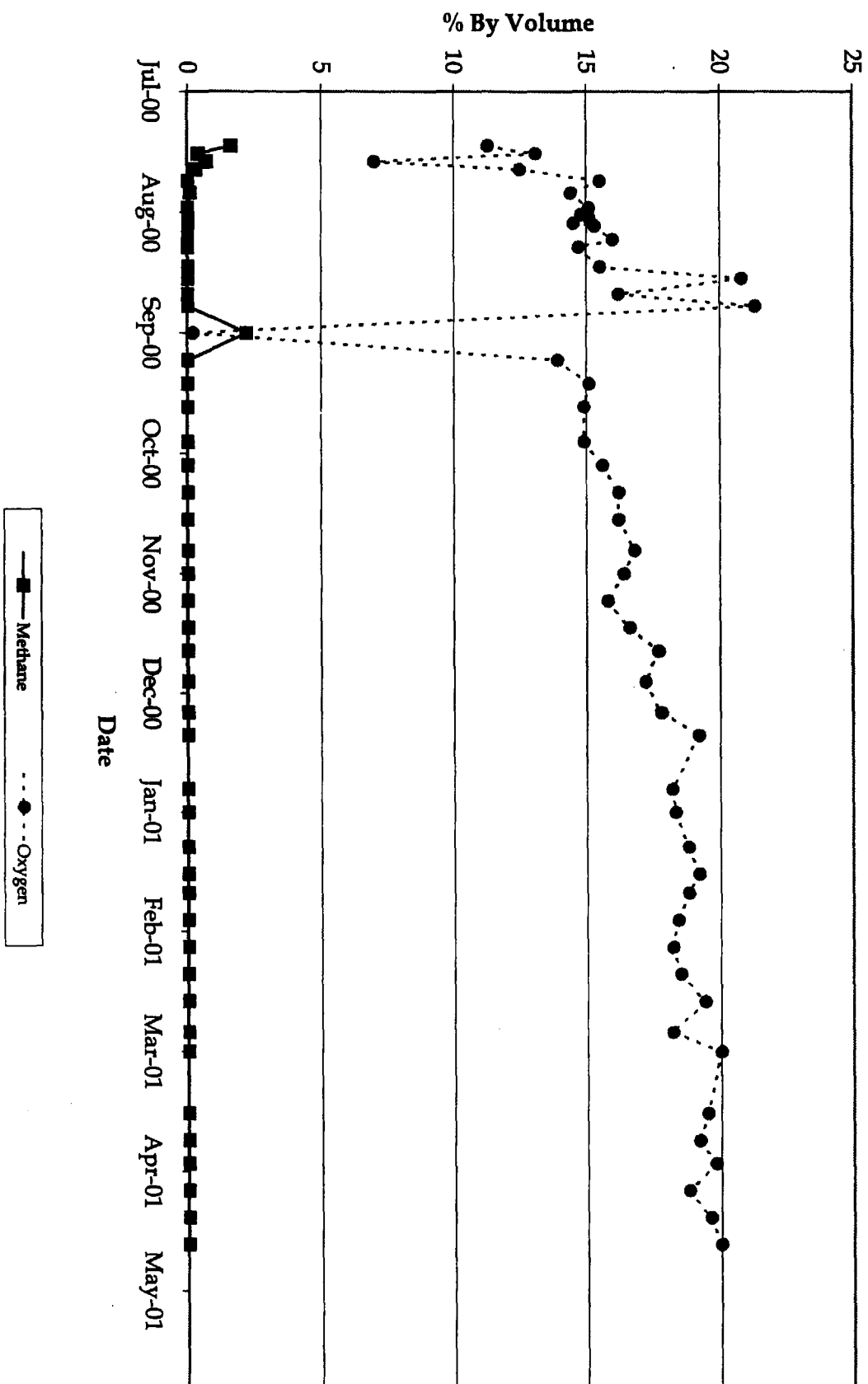
EW-02



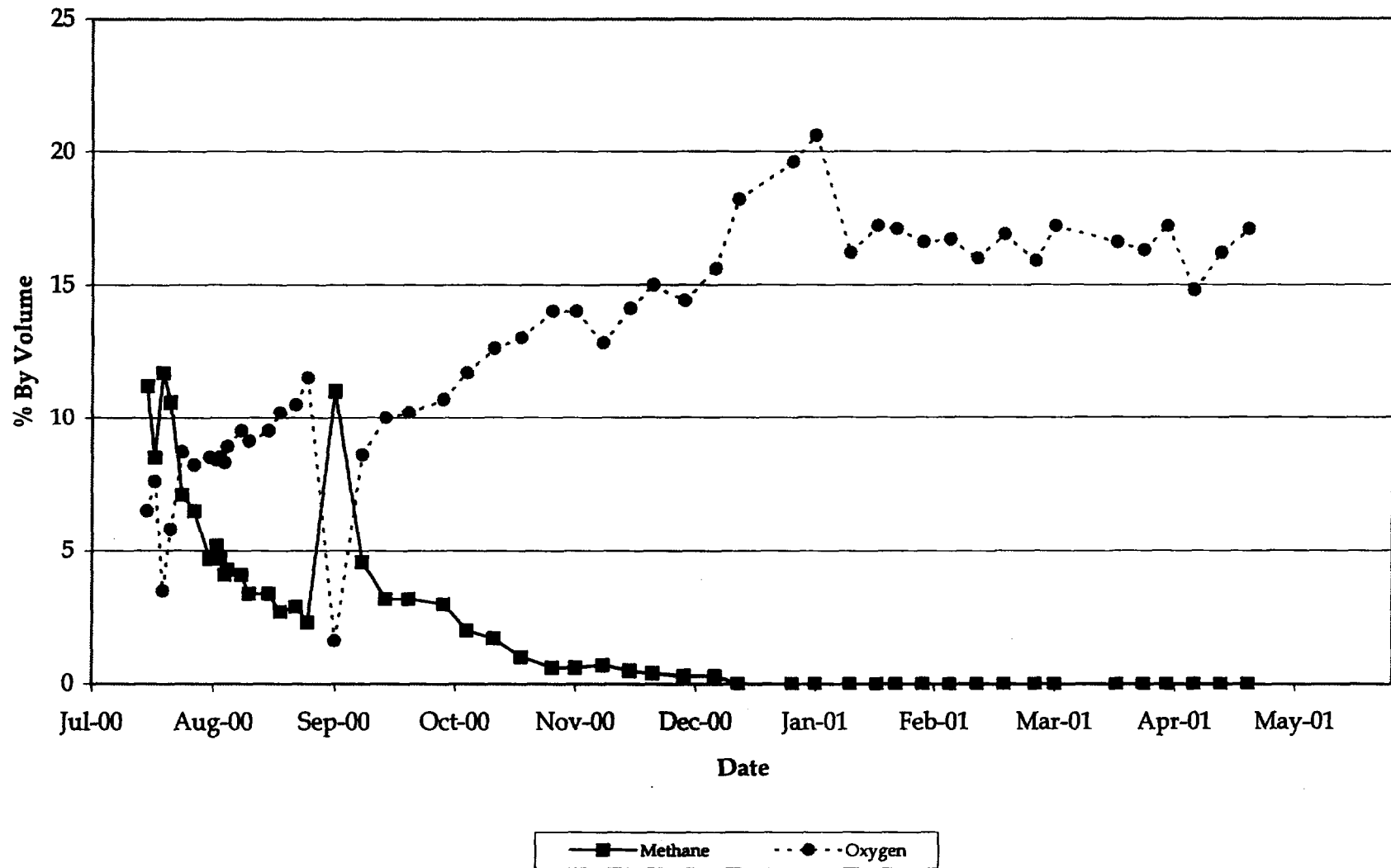
EW-03



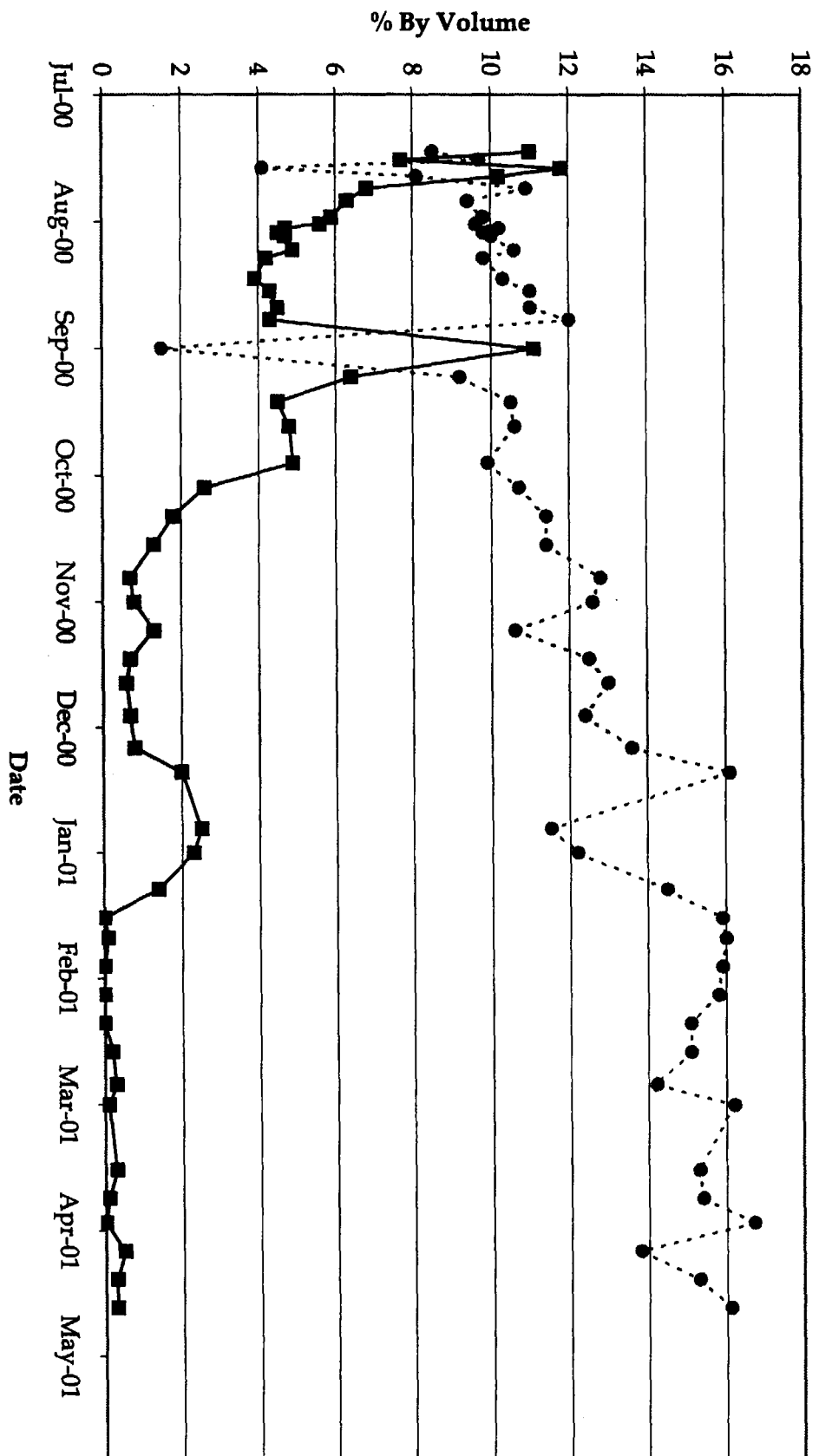
EW-04



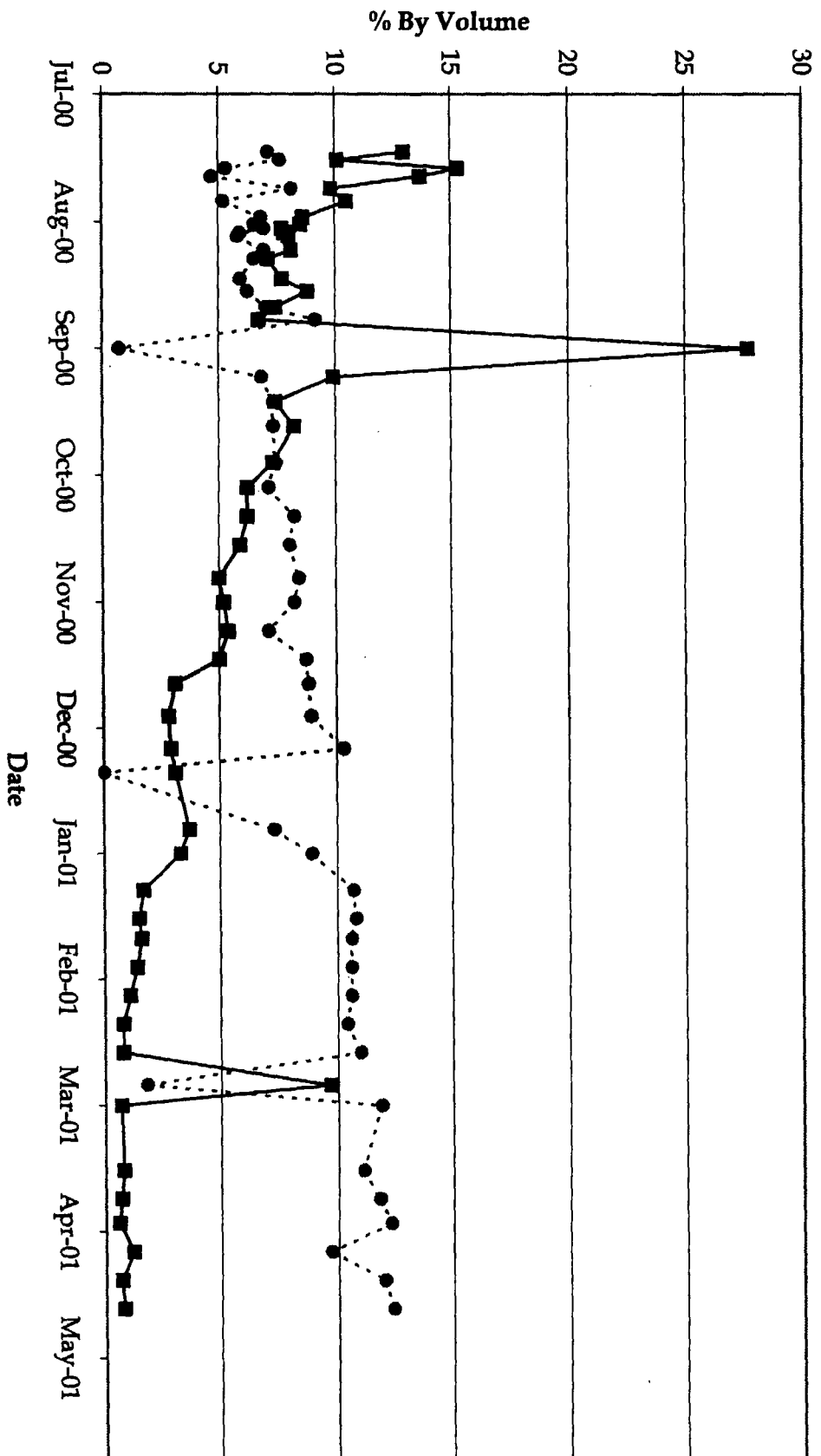
EW-05



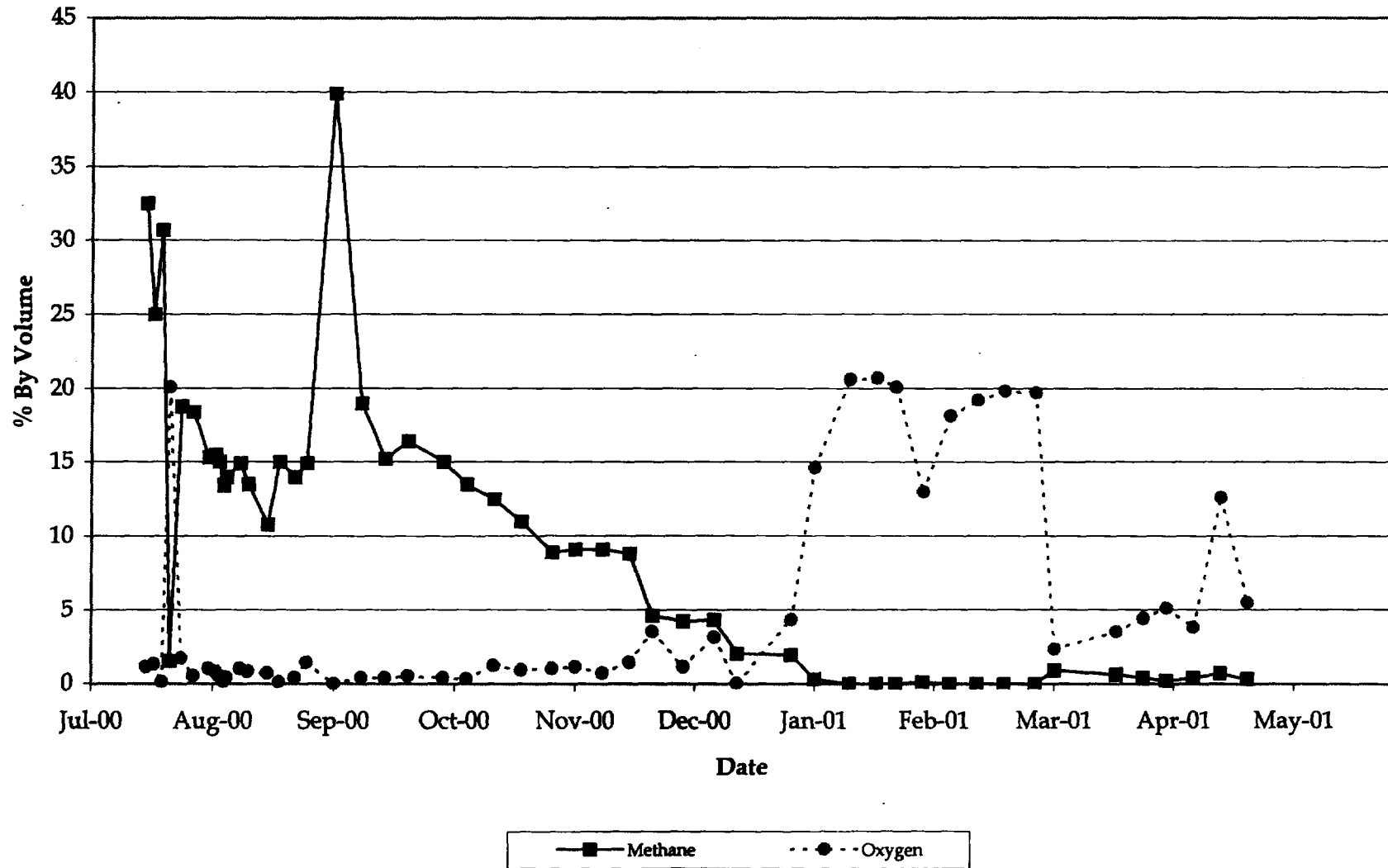
EW-06



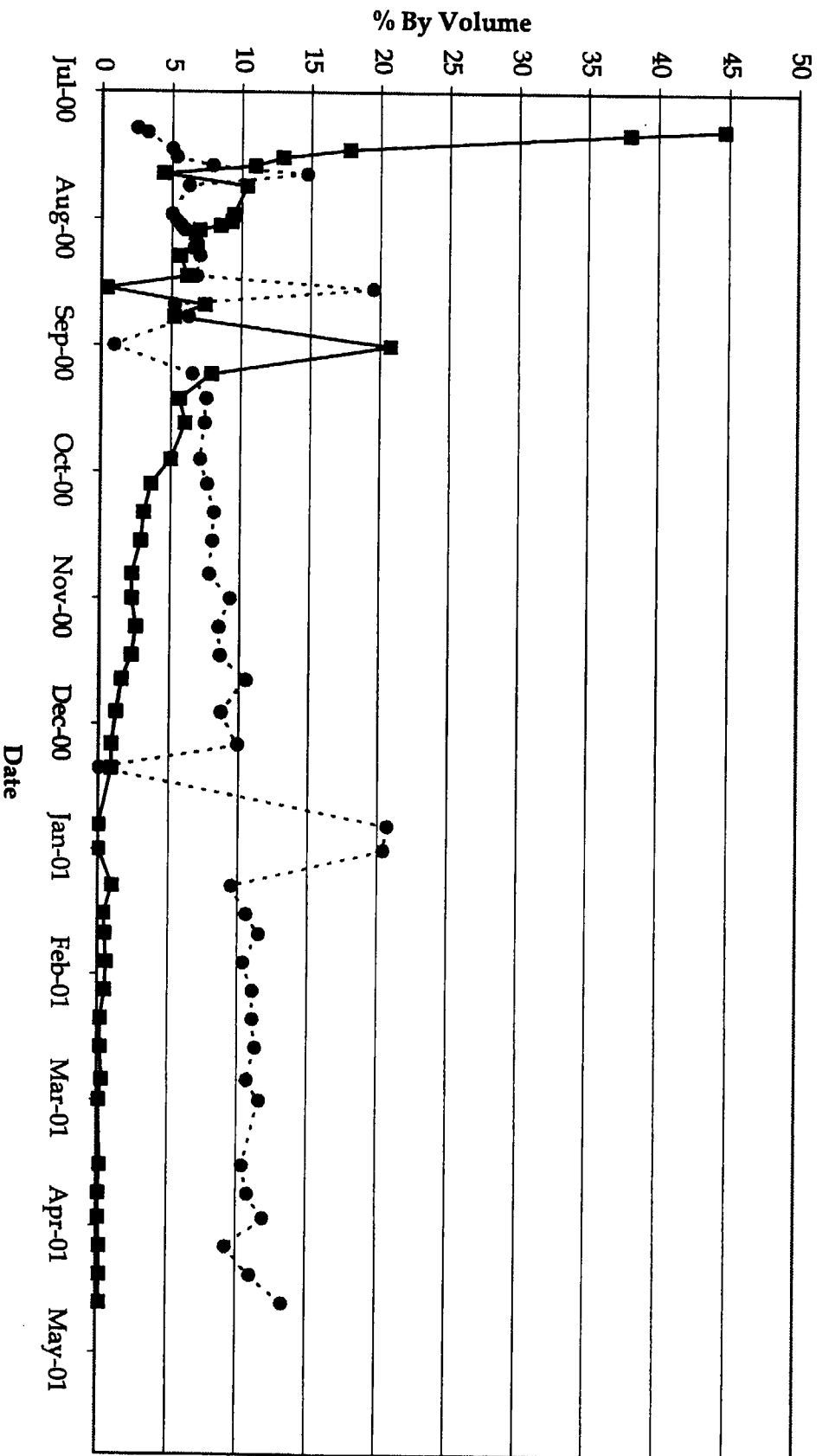
EW-07



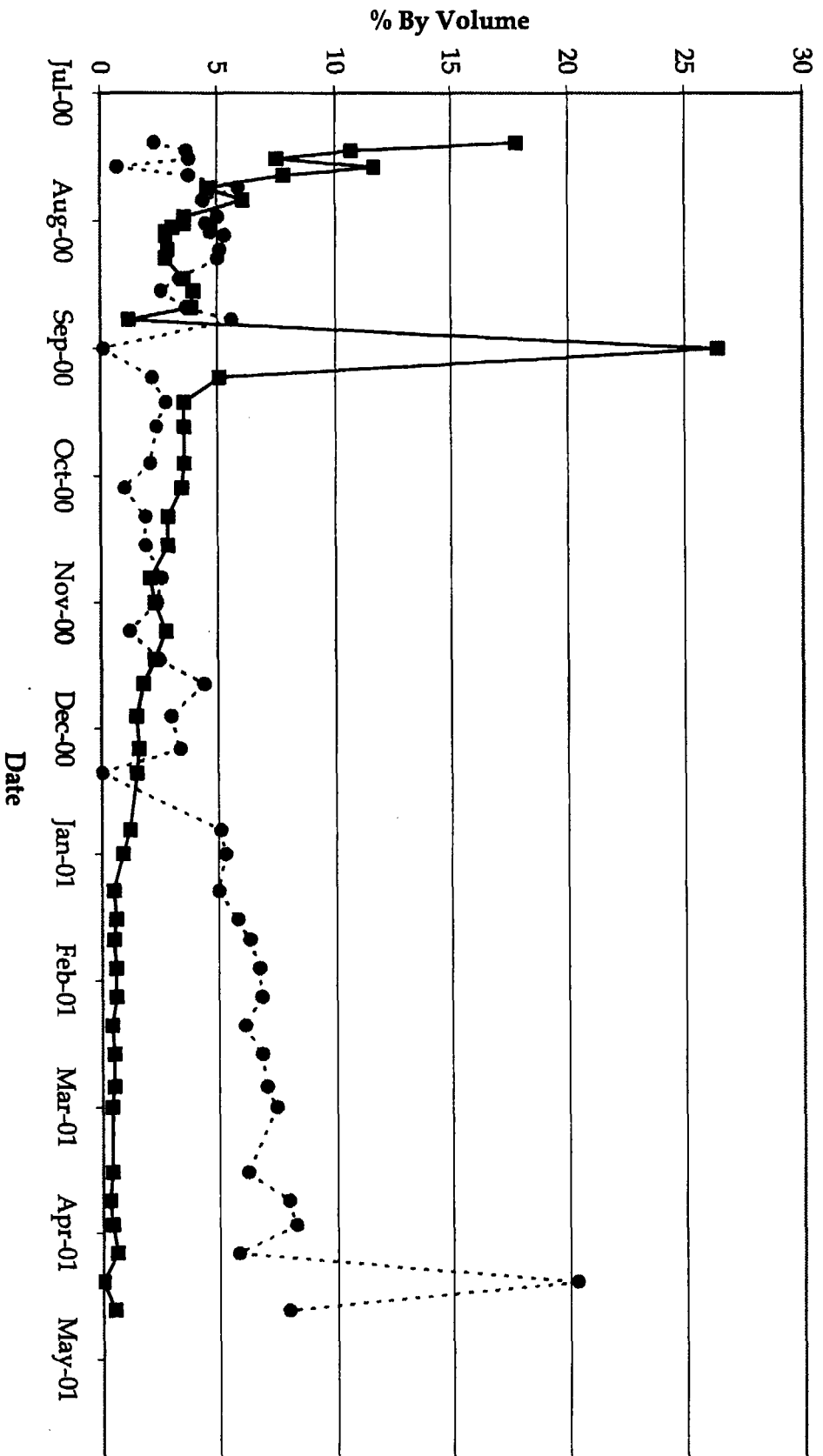
EW-08



EW-09

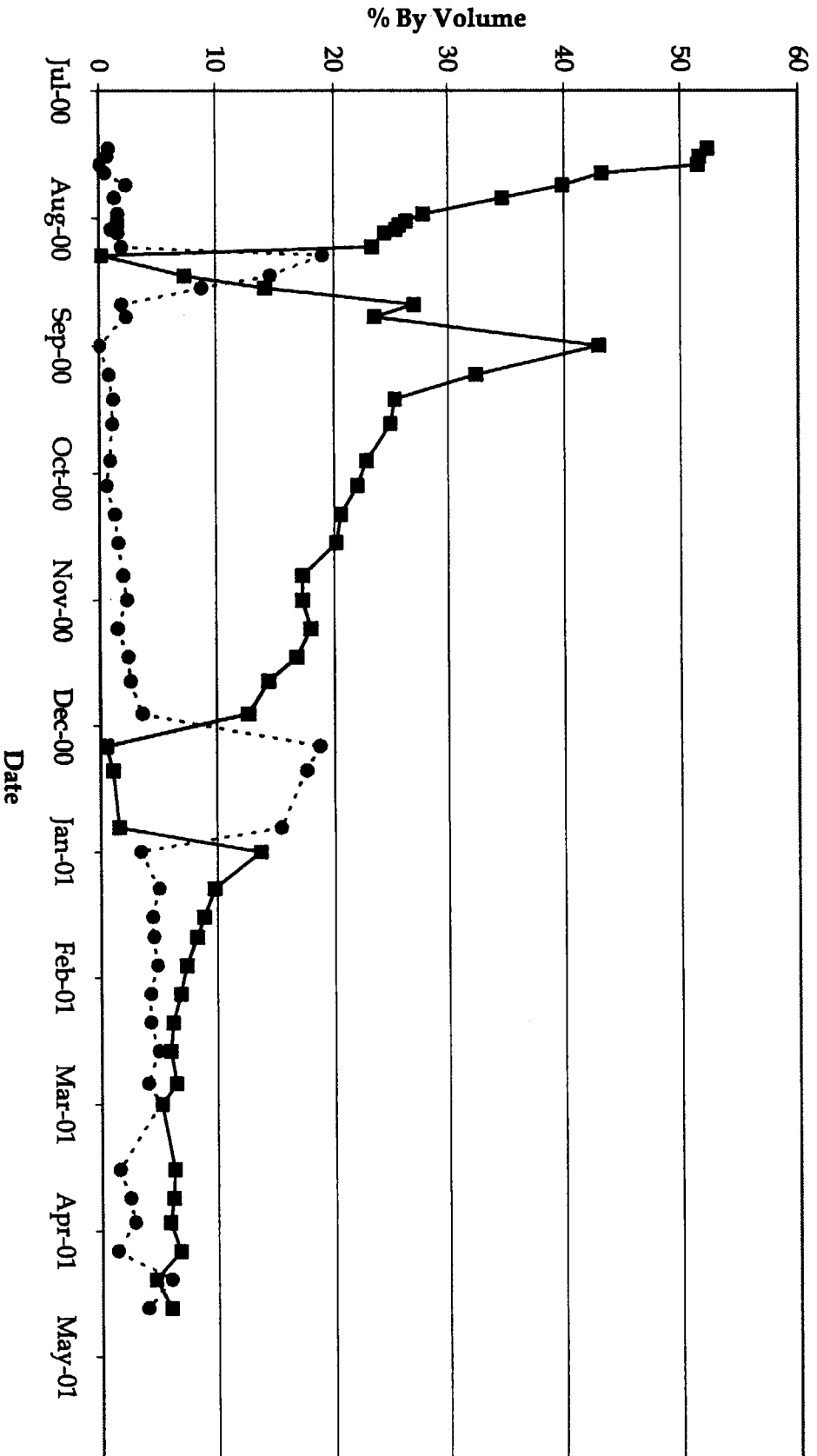


EW-10

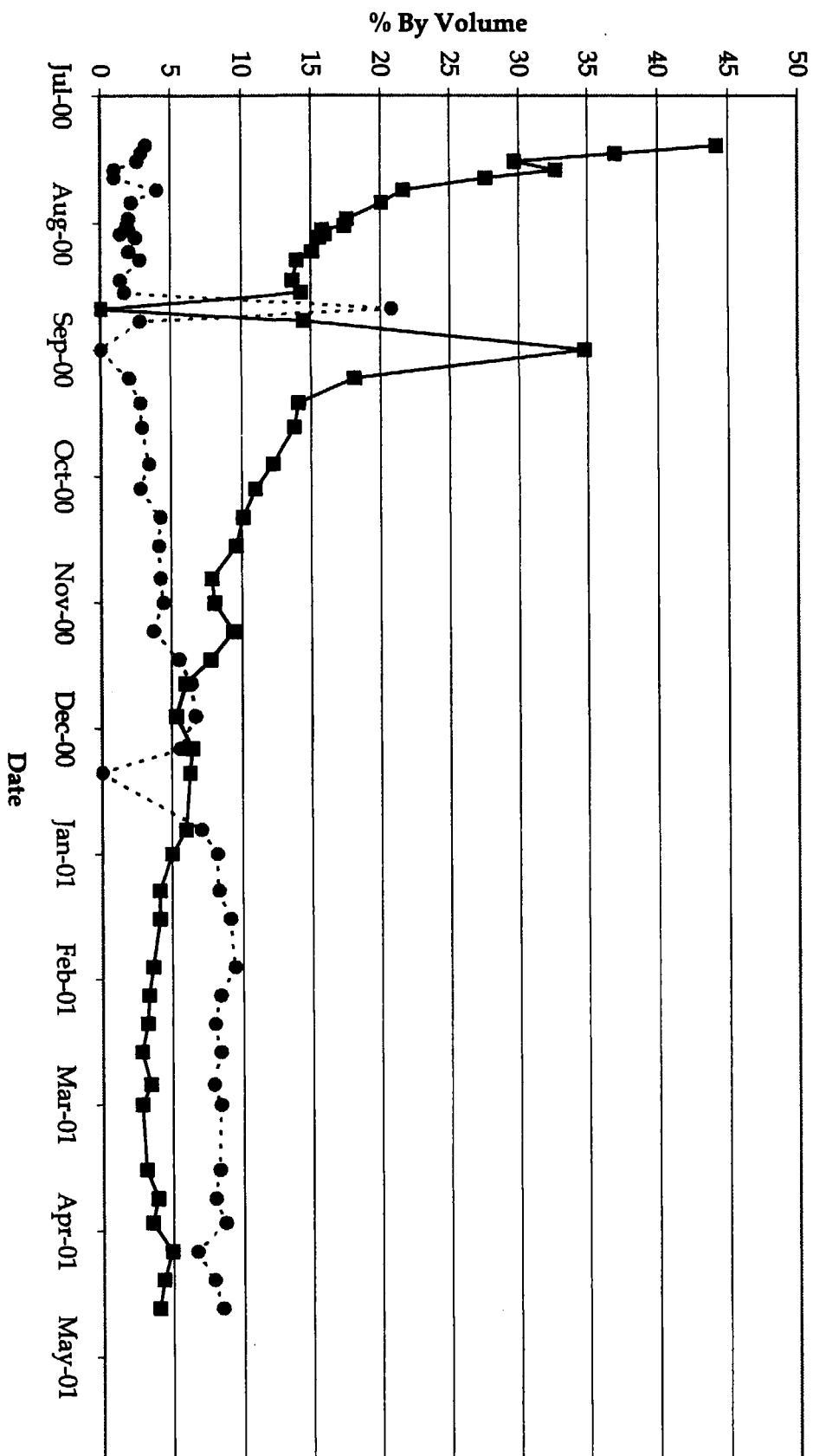


—■— Methane
 - - ● - - Oxygen

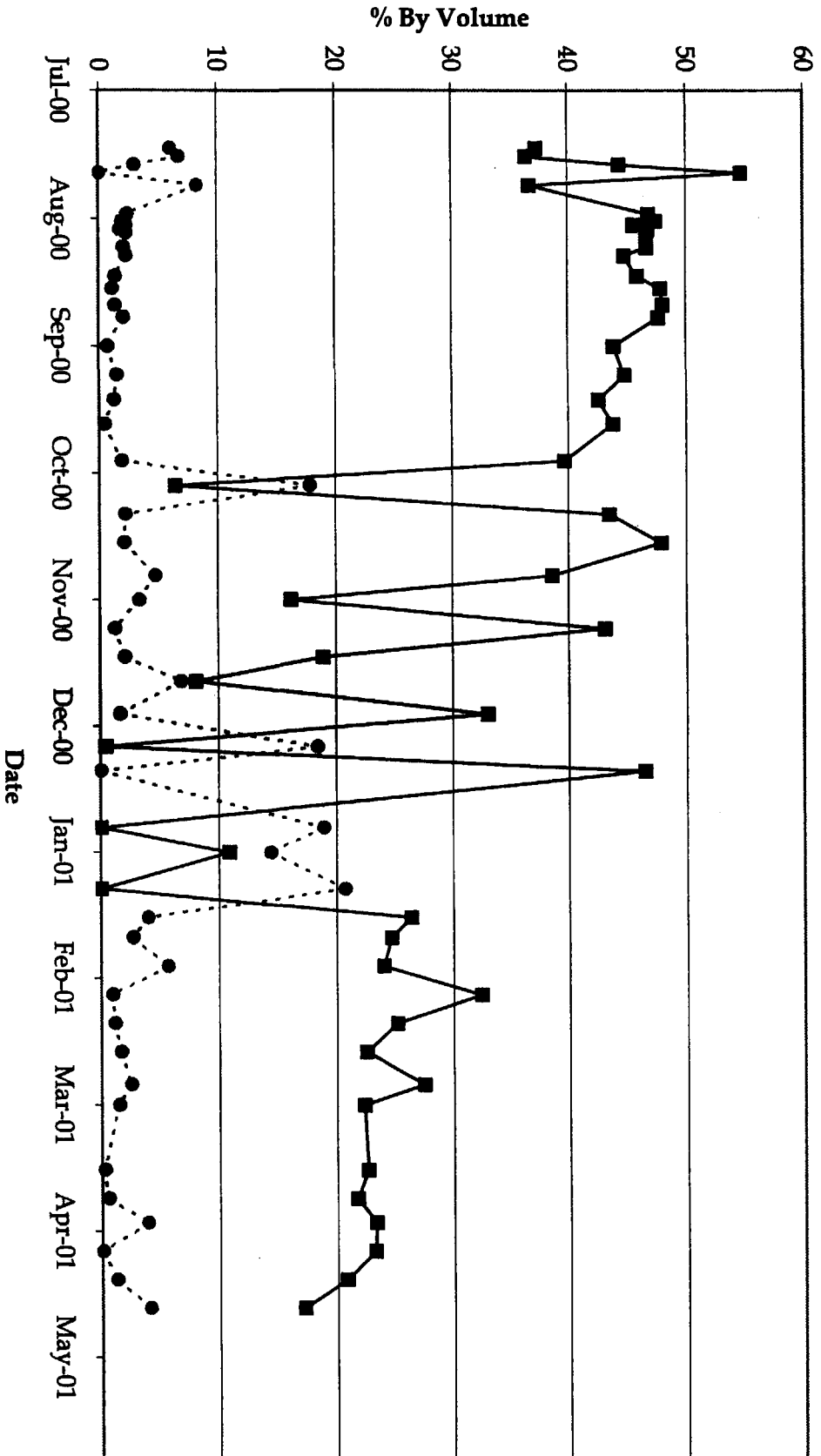
EW-11



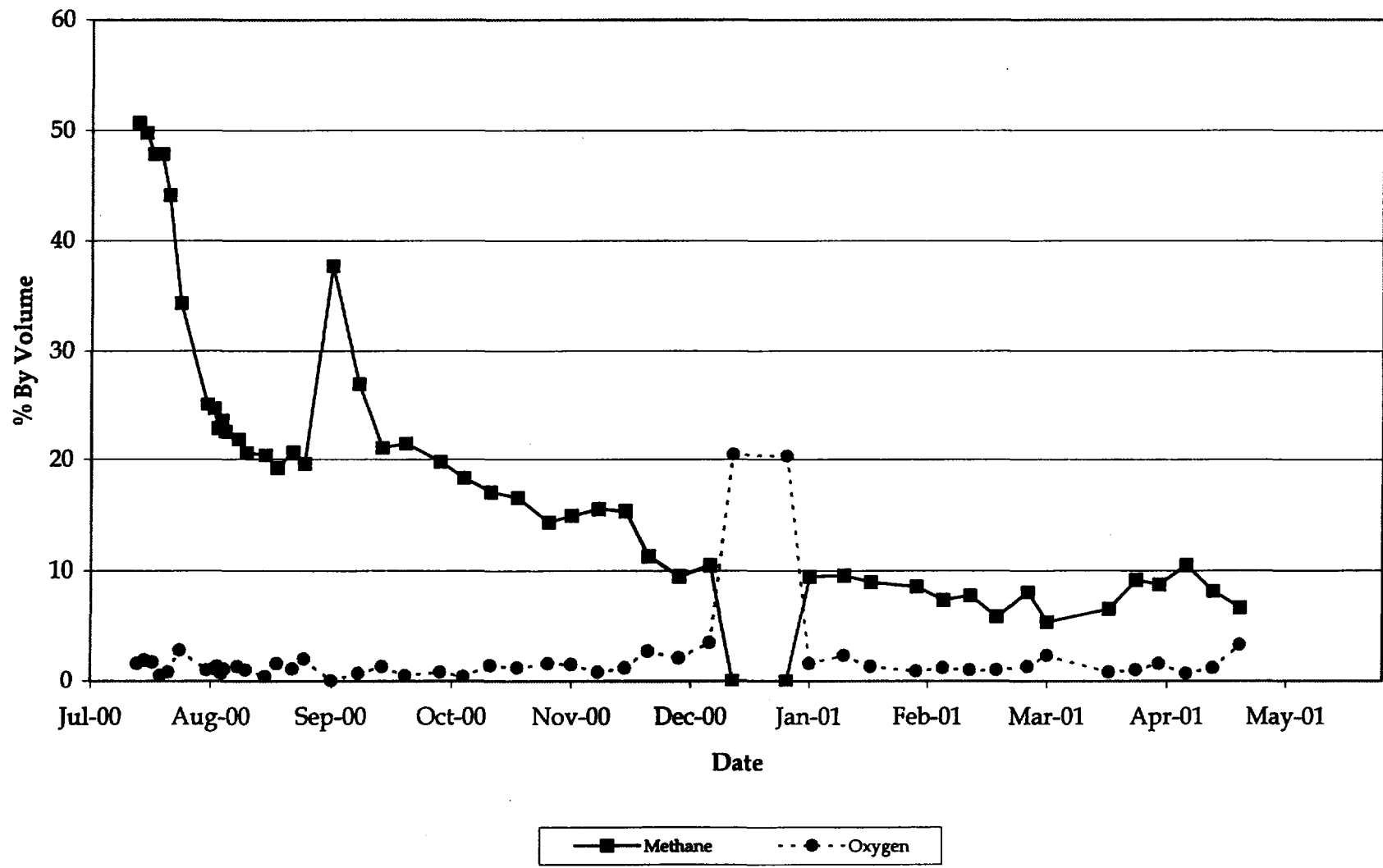
EW-12



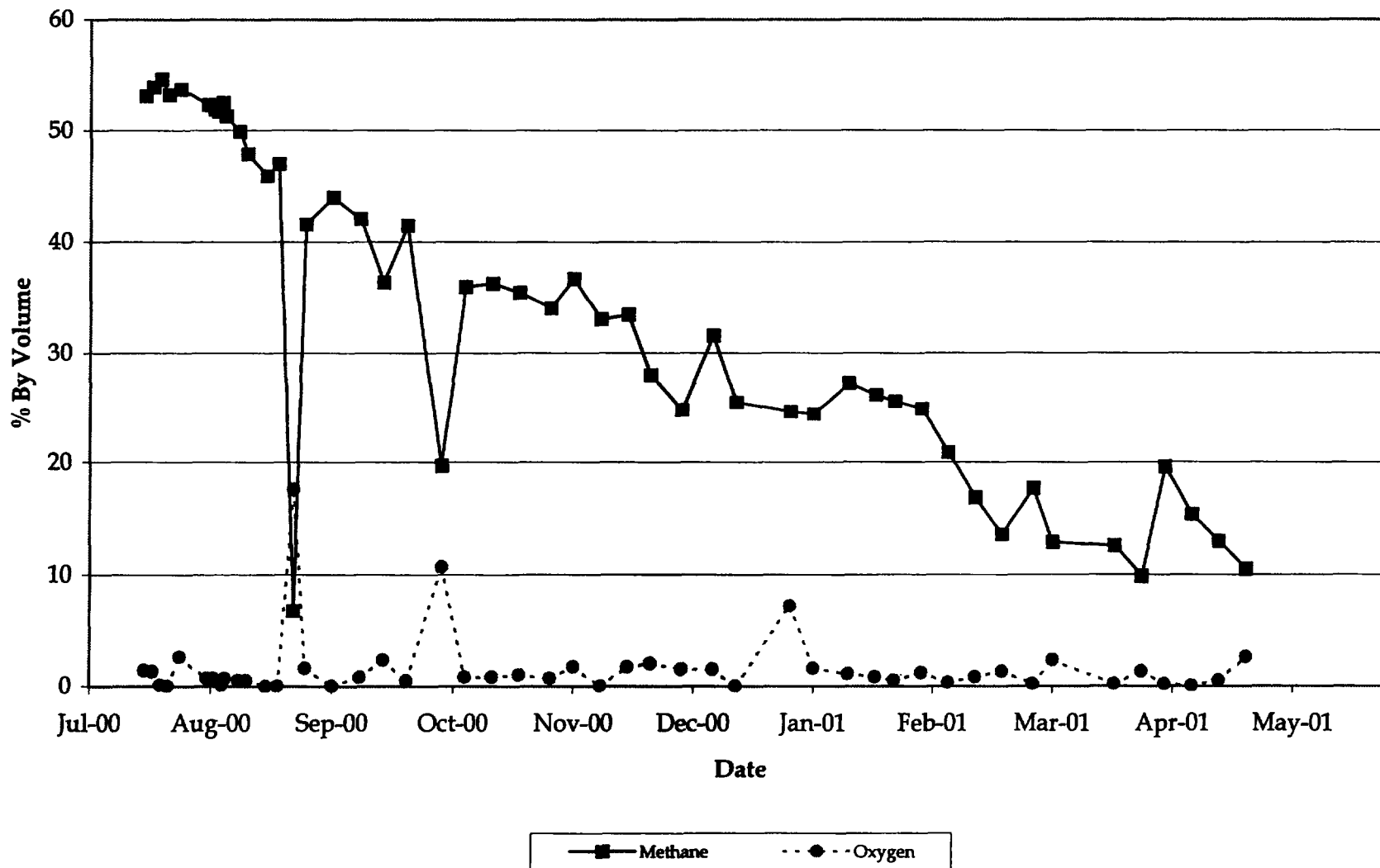
EW-13



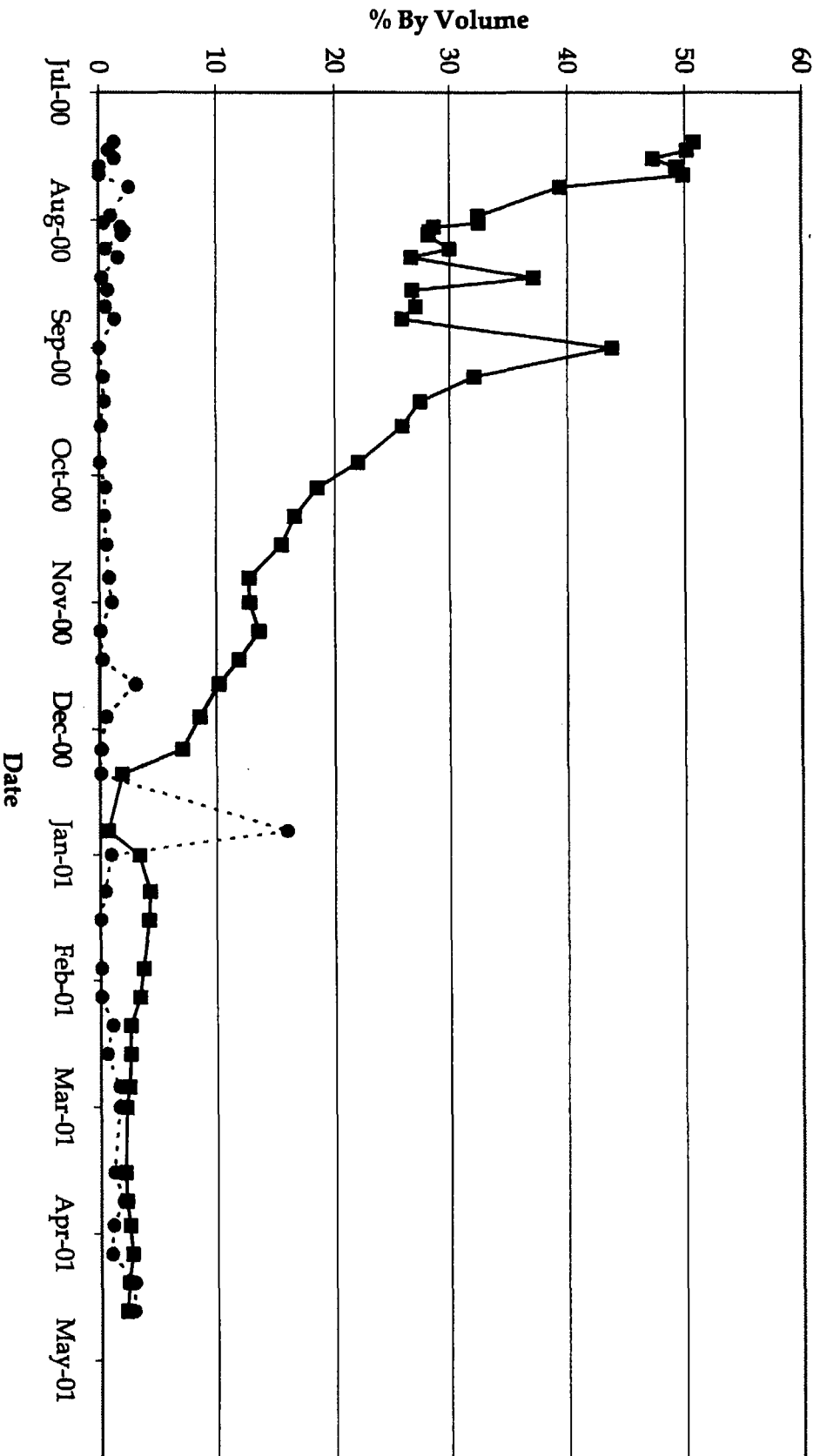
EW-14



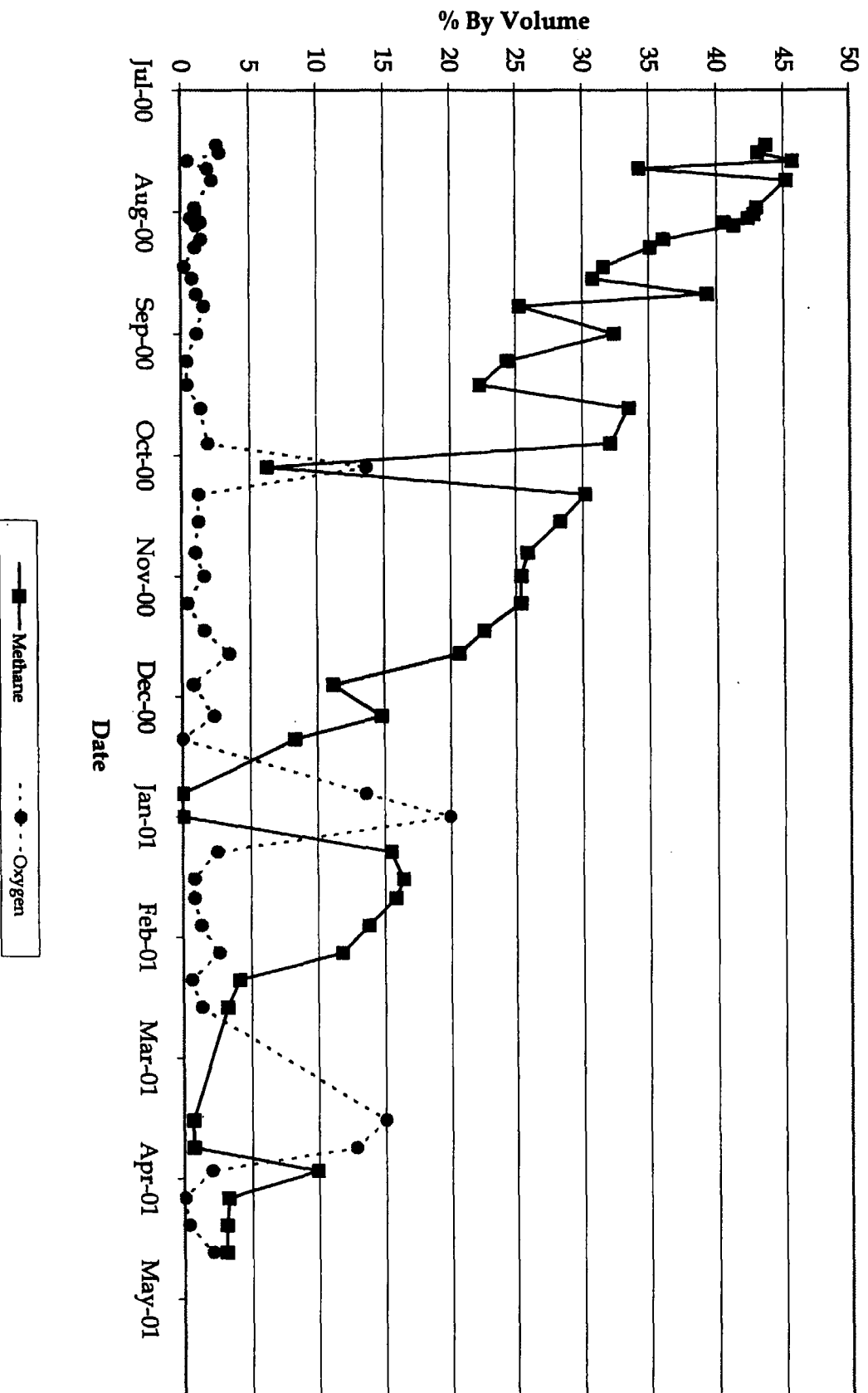
EW-15



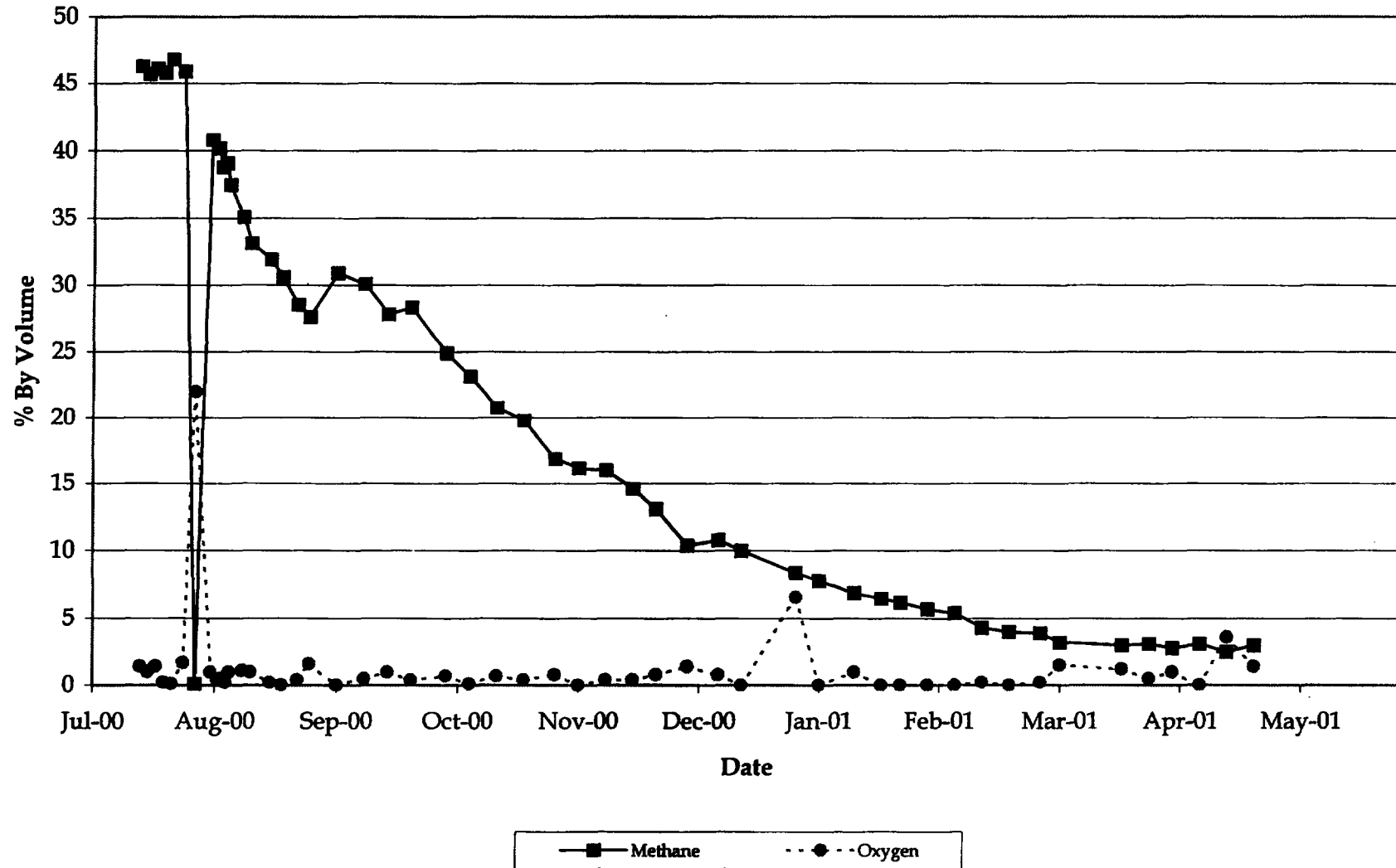
EW-16



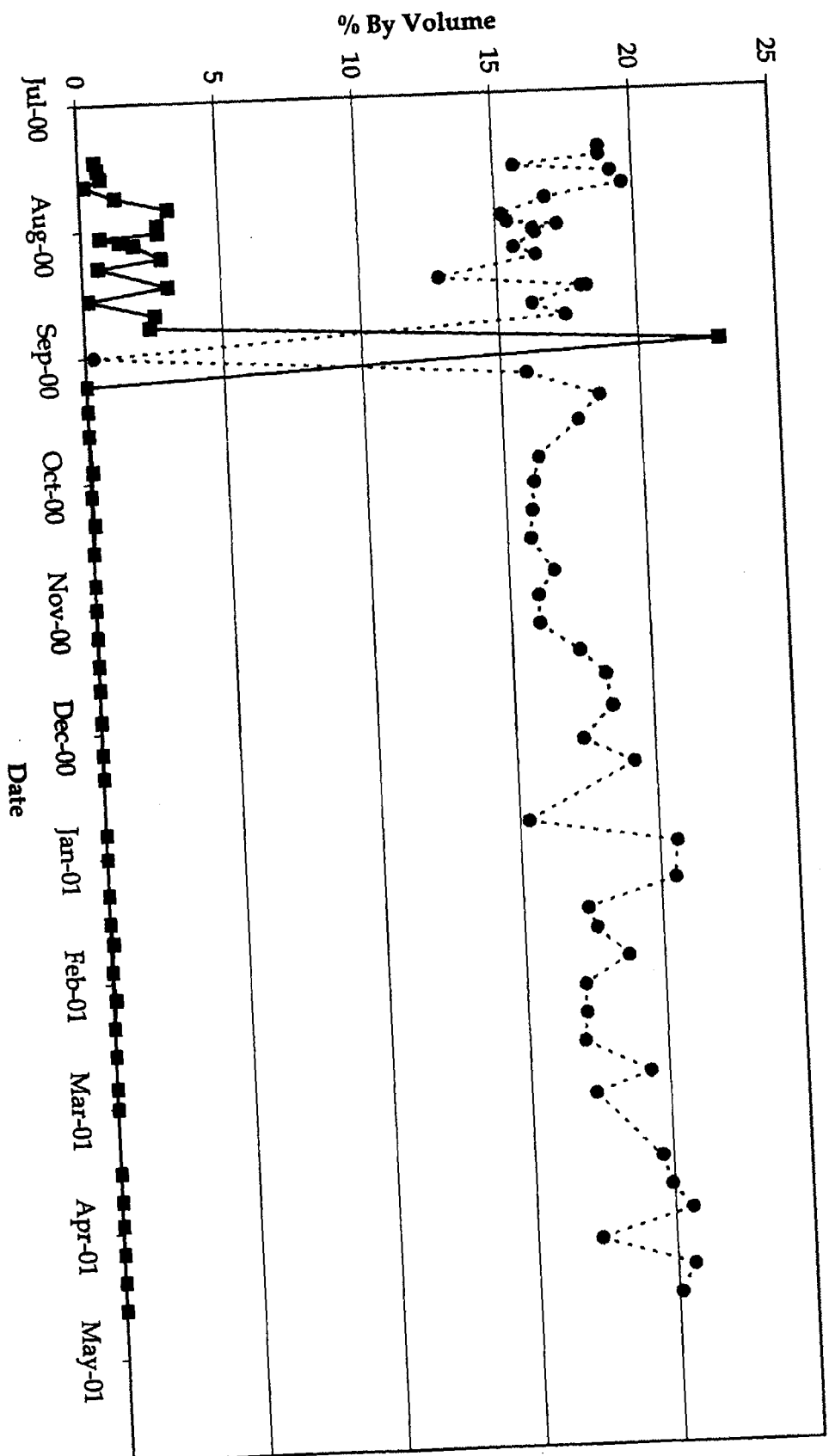
EW-17



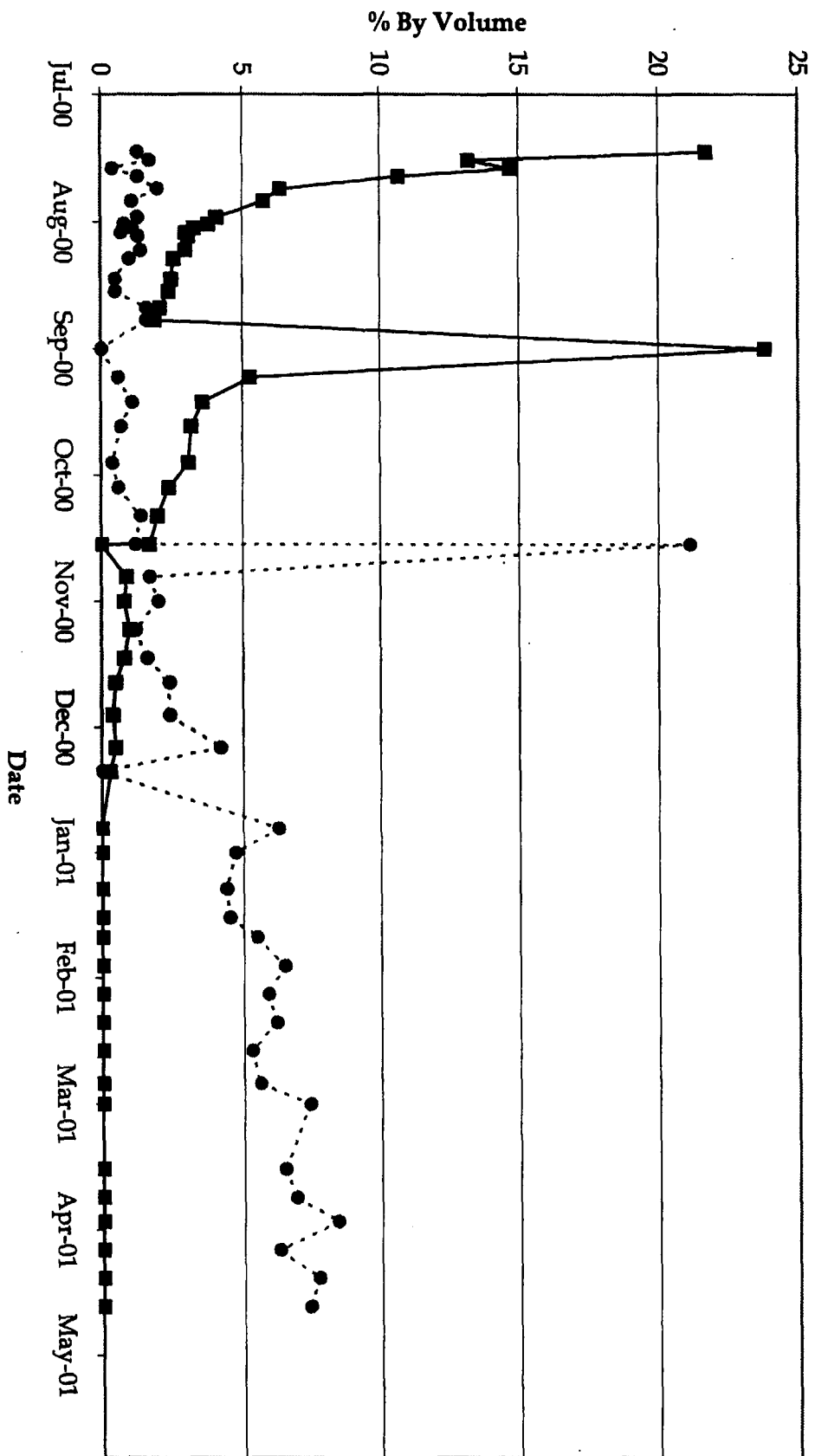
EW-18



EW-19



EW-20



—■— Methane - - - ♦ - - - Oxygen

APPENDIX D
BLOWER DISCHARGE LABORATORY DATA
FEBRUARY 2001

ANALYTICAL REPORT

PROJECT NO. 12865-70

TOMAH

Lot #: MIB260177

Grant Anderson

Conestoga-Rovers & Assoc., Inc.

SEVERN TRENT LABORATORIES, INC.

**Jesse Bacwaden
Project Manager**

March 7, 2001

000003

17865-70

MN FILE COPY

March 7, 2001

STL LOT NUMBER: **M1B260177**

Grant Anderson
Conestoga-Rovers & Assoc., Inc.
1801 Old Highway 8
Suite 114
St. Paul, MN 55112

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

RECEIVED
MAR 13 2001
CRA, INC.

Dear Mr. Anderson,

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on February 23, 2001. This sample is associated with your TOMAH project.

Preliminary results were sent via facsimile on March 7, 2001.

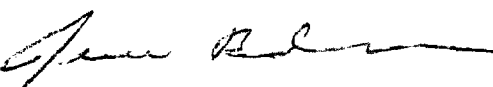
STL Los Angeles certifies that the test results provided in this report meet all the requirements of NELAC. Our certificate number is 01118CA. All applicable quality control procedures met method-specified acceptance criteria. Any matrix-related anomalies are indicated using footnotes within the report.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000015 pages.

If you have any questions, please feel free to call me at 714-258-8610.

Sincerely,


Jesse Bacwaden
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

M1B260177

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
G-010221-LL-01 02/21/01 10:50 001				
Dichlorodifluoromethane	370	2.0	ppb (v/v)	EPA-21 TO-14A
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	60	2.0	ppb (v/v)	EPA-21 TO-14A
Vinyl chloride	1600	11	ppb (v/v)	EPA-21 TO-14A
Chloroethane	31	4.0	ppb (v/v)	EPA-21 TO-14A
Trichlorofluoromethane	92	2.0	ppb (v/v)	EPA-21 TO-14A
1,1-Dichloroethene	4.6	2.0	ppb (v/v)	EPA-21 TO-14A
Acetone	14 JA	10	ppb (v/v)	EPA-21 TO-14A
Methylene chloride	8.7	2.0	ppb (v/v)	EPA-21 TO-14A
1,1-Dichloroethane	7.9	2.0	ppb (v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	120	2.0	ppb (v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	8.4	2.0	ppb (v/v)	EPA-21 TO-14A
Benzene	59	2.0	ppb (v/v)	EPA-21 TO-14A
Trichloroethene	30	2.0	ppb (v/v)	EPA-21 TO-14A
Toluene	340	2.0	ppb (v/v)	EPA-21 TO-14A
Tetrachloroethene	51	2.0	ppb (v/v)	EPA-21 TO-14A
Chlorobenzene	7.2	2.0	ppb (v/v)	EPA-21 TO-14A
Ethylbenzene	170	2.0	ppb (v/v)	EPA-21 TO-14A
Xylenes (total)	490	2.0	ppb (v/v)	EPA-21 TO-14A
4-Ethyltoluene	84	2.0	ppb (v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	44	2.0	ppb (v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	92	2.0	ppb (v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	44	2.0	ppb (v/v)	EPA-21 TO-14A

000004

ANALYTICAL METHODS SUMMARY

MLB260177

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by TO-14A	EPA-21 TO-14A

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1997

SAMPLE SUMMARY

MIB260177

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DWMXN	001	G-010221-LL-01	02/21/01	10:50

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000006

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: G-010221-LL-01

GC/MS Volatiles

*Blower
outlet*

Matrix.....: AIR

Lot-Sample #....: M1B260177-001 Work Order #....: DWMXN1AC
Date Sampled....: 02/21/01 Date Received...: 02/23/01
Prep Date.....: 03/06/01 Analysis Date...: 03/06/01
Prep Batch #....: 1066208
Dilution Factor: 1
Analyst ID.....: 117751

Instrument ID...: MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane	370	2.0	ppb (v/v)
Chloromethane	ND	4.0	ppb (v/v)
1,2-Dichloro-	60	2.0	ppb (v/v)
1,1,2,2-tetrafluoroethane			
Bromomethane	ND	2.0	ppb (v/v)
Chloroethane	31	4.0	ppb (v/v)
Trichlorofluoromethane	92	2.0	ppb (v/v)
1,1-Dichloroethene	4.6	2.0	ppb (v/v)
Carbon disulfide	ND	10	ppb (v/v)
1,1,2-Trichloro-	ND	2.0	ppb (v/v)
1,2,2-trifluoroethane			
Acetone	14 JA	10	ppb (v/v)
Methylene chloride	8.7	2.0	ppb (v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb (v/v)
1,1-Dichloroethane	7.9	2.0	ppb (v/v)
Vinyl acetate	ND	10	ppb (v/v)
cis-1,2-Dichloroethene	120	2.0	ppb (v/v)
2-Butanone (MEK)	ND	10	ppb (v/v)
Chloroform	ND	2.0	ppb (v/v)
1,1,1-Trichloroethane	8.4	2.0	ppb (v/v)
Carbon tetrachloride	ND	2.0	ppb (v/v)
Benzene	59	2.0	ppb (v/v)
1,2-Dichloroethane	ND	2.0	ppb (v/v)
Trichloroethene	30	2.0	ppb (v/v)
1,2-Dichloropropane	ND	2.0	ppb (v/v)
Bromodichloromethane	ND	2.0	ppb (v/v)
cis-1,3-Dichloropropene	ND	2.0	ppb (v/v)
4-Methyl-2-pentanone	ND	10	ppb (v/v)
(MIBK)			
Toluene	340	2.0	ppb (v/v)
trans-1,3-Dichloropropene	ND	2.0	ppb (v/v)
1,1,2-Trichloroethane	ND	2.0	ppb (v/v)
Tetrachloroethene	51	2.0	ppb (v/v)
2-Hexanone	ND	30	ppb (v/v)
Dibromochloromethane	ND	2.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb (v/v)
Chlorobenzene	7.2	2.0	ppb (v/v)

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: G-010221-LL-01

GC/MS Volatiles

Lot-Sample #....: M1B260177-001 Work Order #....: DWMXN1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethylbenzene	170	2.0	ppb (v/v)
Xylenes (total)	490	2.0	ppb (v/v)
Styrene	ND	2.0	ppb (v/v)
Bromoform	ND	2.0	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb (v/v)
Benzyl chloride	ND	10	ppb (v/v)
4-Ethyltoluene	84	2.0	ppb (v/v)
1,3,5-Trimethylbenzene	44	2.0	ppb (v/v)
2,4-Trimethylbenzene	92	2.0	ppb (v/v)
1,3-Dichlorobenzene	ND	2.0	ppb (v/v)
1,4-Dichlorobenzene	44	2.0	ppb (v/v)
1,2-Dichlorobenzene	ND	2.0	ppb (v/v)
1,2,4-Trichloro- benzene	ND	20	ppb (v/v)
Hexachlorobutadiene	ND	4.0	ppb (v/v)

NOTE(S) :

1A The analyte was positively identified, but the quantitation is an estimate.

000008

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: G-010221-LL-01

GC/MS Volatiles

Lot-Sample #...: M1B260177-001 Work Order #...: DWMXN2AC Matrix.....: AIR
Date Sampled...: 02/21/01 Date Received...: 02/23/01
Prep Date.....: 03/06/01 Analysis Date...: 03/06/01
Prep Batch #...: 1066208
Dilution Factor: 5.61
Analyst ID... : 117751 Instrument ID...: MSB
Method.....: EPA-21 TO-14A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Vinyl chloride	1600	11	ppb (v/v)

QC DATA ASSOCIATION SUMMARY

MLB260177

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	EPA-21 TO-14A		1066208	

000010

APPENDIX E
BLOWER DISCHARGE DATA VALIDATION MEMO



**CONESTOGA-ROVERS
& ASSOCIATES**

1801 Old Highway 8 NW, Suite #114

St. Paul, Minnesota 55112

Telephone: (651) 639-0913

Fax: (651) 639-0923

www.CRAworld.com

MEMORANDUM

TO: Katie Kamm

REF. NO.: 12865-70

FROM: Dan Nelson *DN*

DATE: March 12, 2001

RE: February 2001, Round 3, Groundwater Monitoring Event
Tomah Municipal Sanitary Landfill, Tomah, Wisconsin

During the week of February 19, 2001, Pete Storlie and I conducted the third round groundwater and residential monitoring event at the Tomah Municipal Landfill in Tomah, Wisconsin.

Pete and I measured water levels at each of the 38 monitoring wells, 2 surface water and 1 residential location on February 19, 2001. I have summarized the groundwater elevations in Table 1.

Groundwater sampling was conducted in accordance with the GW-FSP. A total of 36 out of 38 monitoring wells were sampled using the standard QA/QC procedures. Monitoring wells 16A and 16B were not sampled because the groundwater in the wells was frozen. Samples were collected for 8260B VOCs, chloride and total metals (unfiltered) analysis. Additional samples were collected at selected locations based on previous rounds analytical results. Those additional samples were TDS, TSS and metals (filtered). Samples collected were placed on ice along with lab supplied trip and temperature blanks and shipped to Severn Trent Laboratories via Federal Express within 48 hours from collection. Attached is the groundwater sampling summary (Table 2).

On February 21, and 22, 2001, Pete and I conducted the residential sampling. Sampling was conducted in accordance with the GW-FSP. A total of 8 out of the 11 residential locations were sampled using standard QA/QC procedures. The Schleicher, Hanson and Thompson locations were not sampled because the outside spigots were frozen. At the request of the residents, samples were not collected to prevent possible risk of damaging their plumbing fixtures. Each location was sampled for EPA 524.4 VOCs, chloride and total metals (unfiltered) analysis. Additional samples were collected at select residents based on previous rounds analytical results. Those additional samples were TDS, TSS and metals (filtered). Samples collected were placed on ice along with lab supplied trip and temperature blanks. Attached is the residential sampling summary (Table 3).

Field parameter equipment was calibrated on a daily basis throughout the sampling event and in accordance with the GW-FSP. Calibration of equipment was recorded on field data record forms. The data forms along with any additional information pertaining to the sampling event have been placed in the file and/or in the Site-specific field book. The copies of the chain of custody record for both the monitoring and residential sampling has been filed.

At the request of Beth Reiner, an EPA representative from Region 5 oversaw the groundwater and gas vent monitoring round.

DAN/kjs/7
Enc.

2.1
TABLE 1

**GROUNDWATER ELEVATION SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL**

Monitoring Well	Top of Casing Elevation (AMSL)	7/12/00	11/13/00	2/19/01
MW-1A	990.64	964.15	962.63	961.87
MW-1B	990.60	964.22	962.71	962.04
MW-2A	997.39	959.88	958.51	957.81
MW-2B	997.38	959.88	958.52	957.83
MW-3A	969.17	960.16	958.03	957.68
MW-3B	969.70	958.71	957.54	957.18
MW-3C	968.73	958.43	957.43	957.06
MW-4A	971.02	960.14	959.30	958.98
MW-4B	970.79	960.12	959.32	958.99
MW-5A	962.67	959.21	958.91	958.65
MW-5B	962.14	959.23	958.90	958.64
MW-5C	962.58	959.36	958.97	958.69
MW-6A	973.21	963.98	961.14	959.84
MW-7A	976.84	959.80	958.34	957.75
MW-8A	977.38	958.77	957.70	957.20
MW-9A	961.25	955.79	955.55	955.30
MW-9B	961.24	955.78	955.55	955.30
MW-9C	961.30	956.07	955.75	955.49
MW-10A	967.33	961.30	960.77	960.47
MW-11A	958.02	954.62	954.44	954.19
MW-11B	957.97	954.60	954.50	954.26
MW-11C	957.84	954.73	954.56	954.30
MW-12A	958.14	954.28	953.61	953.29
MW-12B	958.03	954.29	953.53	953.28
MW-12C	958.17	954.39	953.67	954.04
MW-13A	959.81	953.44	953.23	953.04
MW-13B	959.78	953.41	953.22	953.03
MW-14A	956.23	951.99	951.66	951.33
MW-14B	956.22	951.99	951.65	951.42
MW-14C	955.70	952.07	951.67	951.42
MW-15A	955.21	952.27	951.59	951.40
MW-15B	955.08	952.27	951.58	951.39
MW-15C	955.04	952.21	951.52	951.36
MW-16A	960.25	957.94	957.65	Frozen
MW-16B	960.32	958.02	957.67	957.24
MW-16C	960.46	958.09	957.77	957.40
MW-17A	961.50	957.76	957.17	956.90
MW-17B	961.75	957.77	957.21	957.17
SG-#1	957.92	956.22	956.22	Frozen
SG-#2	958.89		956.28	Frozen

Note:

Staff Gauges #1 and #2 are located on east side of Noth Road.

SG #1 is the south culvert and SG#2 in the north culvert.

TABLE 2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-15C *	W-010220-DN-01	4.92	228	9.2	249	2.89	3.2	Clear	8
		4.83	228	9.0	263	2.88	3.2	Clear	16
		4.82	231	8.9	272	2.86	3.1	Clear	24
MW-15B	W-010220-DN-02	5.64	85	8.4	224	2.23	20	Sl. Cldy	5
		5.60	85	8.4	222	2.21	14	Clear	10
		5.60	85	8.3	222	2.20	11	Clear	15
MW-15A	W-010220-DN-03 W-010220-DN-04 (R.B.)	5.39	81	3.8	151	0.73	8.6	Clear	1
		5.44	81	4.0	155	0.67	8.6	Clear	2
		5.39	81	3.9	150	0.73	8.4	Clear	3
MW-12C *	W-010220-DN-05	4.89	207	7.0	278	0.33	2.3	Clear	9
		4.81	213	7.1	285	0.34	2.3	Clear	18
		4.82	210	7.4	296	0.36	2.3	Clear	27
MW-12B	W-010220-DN-06	5.33	72	8.1	245	0.10	1.0	Clear	5.5
		5.33	71	8.3	245	0.10	1.0	Clear	11
		5.35	72	8.1	242	0.11	1.0	Clear	16.5
MW-12A *	W-010220-DN-07	5.09	91	5.2	232	0.08	3.5	Clear	2
		5.10	94	5.2	233	0.07	3.5	Clear	4
		5.10	94	5.1	234	0.06	3.4	Clear	6
MW-14C	W-010220-DN-08 W-010220-DN-09 (Dup.)	5.17	166	9.2	279	7.11	2.7	Clear	8
		5.20	166	9.2	271	6.89	2.7	Clear	16
		5.21	166	9.2	275	6.96	2.8	Clear	24

TABLE 2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-14B	W-010220-DN-10	5.26	197	8.8	274	2.72	2.2	Clear	4.5
		5.26	198	8.5	277	2.74	1.7	Clear	9
		5.27	198	8.4	278	2.78	1.5	Clear	13.5
MW-14A *	W-010220-DN-11	6.00	275	3.2	20	0.25	7.6	Lt Green	1
		6.00	275	3.2	19	0.22	6.6	Lt Green	2
		5.97	275	3.1	16	0.21	6.0	Lt Green	3
MW-11C	W-010220-DN-12	5.32	142	8.0	241	5.08	1.8	Clear	9
		5.13	142	8.2	250	5.10	1.7	Clear	18
		5.14	141	8.3	260	5.11	1.7	Clear	27
MW-11B	W-010220-DN-13	5.12	170	8.2	268	3.09	1.9	Clear	5.5
		5.13	168	8.2	278	3.05	1.4	Clear	11
		5.13	167	8.1	280	3.01	1.2	Clear	16.5
MW-11A	W-010220-DN-14	5.56	45	6.9	246	7.25	13.0	Clear	2.5
	W-010220-DN-15 (RB)	5.55	45	7.0	247	7.20	11.0	Clear	5
		5.55	46	7.0	247	7.18	11.0	Clear	7.5
MW-16C	W-010221-DN-16	5.00	50	7.3	134	3.26	9.8	Clear	24
		5.03	51	7.1	141	3.55	7.7	Clear	32
		5.01	51	7.1	147	3.73	7.3	Clear	40

TABLE 2

**MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001**

<i>Well Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Specific Conductivity (uS)</i>	<i>Temperature (°C)</i>	<i>Eh (mV)</i>	<i>Dissolved Oxygen (mg/l)</i>	<i>Turbidity (NTU)</i>	<i>Clarity</i>	<i>Volume Removed (gallons)</i>
MW-1A	W-010221-DN-17 (MS/MSD)	4.89	36	8.2	233	10.05	0.65	Clear	2
		4.91	36	8.4	232	10.17	0.45	Clear	4
		4.91	36	8.5	231	10.21	0.31	Clear	6
MW-1B *	W-010221-DN-18	4.32	122	9.5	282.0	10.05	0.0	Clear	5
		4.35	121	9.5	289.0	10.03	0.0	Clear	10
		4.36	121	9.4	291.0	10.00	0.0	Clear	15
MW-6A	W-010221-DN-19	5.63	56	7.7	170	8.69	95	Clear	1
		5.66	56	8.0	165	8.80	105	Clear	2
		5.62	53	8.3	153	9.09	120	Clear	3
MW-9C	W-010221-DN-20	5.50	26.0	8.0	138.0	11.17	6.0	Clear	18
		5.52	26.0	8.1	143.0	11.40	5.0	Clear	27
		5.53	26.0	8.2	153.0	11.42	4.0	Clear	36
MW-9B *	W-010221-DN-21 W-010221-DN-22 (Dup.)	6.07	439	8.4	-69	0.20	2.6	Clear	5
		6.10	445	8.5	-76	0.15	2.1	Clear	10
		6.12	438	8.5	-77	0.13	1.9	Clear	15
MW-9A *	W-010221-DN-23	6.02	227	5.2	1	0.35	3.6	Clear	6
		5.99	222	5.2	7	0.36	2.9	Clear	8
		5.99	210	5.2	9	0.31	2.1	Clear	10

TABLE 2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

Well Location	Sample Number	pH	Specific Conductivity (uS)	Temperature (°C)	Eh (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Clarity	Volume Removed (gallons)
MW-13B	W-010221-DN-24	5.66	116	8.3	99	3.10	3.1	Clear	5
		5.65	117	8.5	106	3.06	2.9	Clear	10
		5.64	119	8.5	116	2.93	0.9	Clear	15
MW-13A *	W-010221-DN-25	5.29	500	5.1	129	0.28	12.0	Clear	2
		5.30	504	5.2	149	0.27	8.0	Clear	4
		5.30	506	5.2	150	0.28	4.7	Clear	6
MW-10A *	W-010222-DN-26	4.96	75	6.0	189	2.01	4.9	Clear	6
		5.01	75	6.1	181	1.96	4.1	Clear	8
		5.08	75	6.1	171	1.93	3.7	Clear	10
MW-5C *	W-010222-DN-27	5.15	117	7.8	184	3.99	0.45	Clear	9.5
		5.26	115	7.8	184	4.25	0.45	Clear	18
		5.28	115	7.8	187	4.33	0.40	Clear	28.5
MW-5B *	W-010222-DN-28	6.43	1305	7.9	-118	0.24	0.75	Clear	4
		6.50	1301	8.0	-119	0.22	0.70	Clear	8
		6.44	1290	8.0	-119	0.19	0.70	Clear	12
MW-5A *	W-010222-DN-29	6.28	689	4.9	-78	0.14	3.9	Clear	1.5
		6.28	681	4.9	-77	0.13	2.9	Clear	3
		6.28	676	4.8	-76	0.13	2.9	Clear	4.5
MW-17A *	W-010222-DN-30	6.29	313	3.0	-76	0.20	0.06	Clear	3
		6.29	315	3.0	-75	0.18	0.03	Clear	4
		6.29	315	3.0	-75	0.16	0.01	Clear	5

TABLE 2

**MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001**

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-17B *	W-010222-DN-31	6.06	488	6.4	-42	0.33	55	Clear	4.5
		6.06	490	6.4	-44	0.32	26	Clear	9
		6.10	491	6.5	-49	0.31	9.2	Clear	13.5
MW-2B *	W-010222-DN-32	4.45	146	9.1	219	0.20	0.0	Clear	5
	W-010222-DN-33 (Dup.)	4.44	145	9.4	224	0.22	0.0	Clear	10
		4.44	145	9.4	229	0.23	0.0	Clear	15
MW-2A *	W-010223-DN-34	4.99	53	8.9	37	0.43	3.5	Clear	1.5 P.D.
Insufficient amount of water to collect full field parameters. Water samples collected after sufficient water has recovered within the well.									
MW-8A *	W-010223-DN-35	4.14	292	8.4	197	0.95	0.75	Clear	1.5
	W-010223-DN-36 (RB)	4.26	310	8.7	209	0.93	0.61	Clear	3
		4.28	318	9.0	211	0.95	0.45	Clear	4.5
MW-4B *	W-010223-DN-37	6.31	140	10.2	-091	0.09	5.9	Yellowish	3.5
	W-010223-DN-38 (RB)	6.35	142	10.3	-098	0.09	3.2	Yellowish	7
		6.36	142	10.3	-102	0.08	1.5	Yellowish	10.5
MW-4A *	W-010223-DN-39	6.22	484	9.1	-61	0.15	2.9	Yellowish	1
		6.23	492	9.2	-60	0.14	2.6	Yellowish	2
		6.23	493	9.2	-63	0.13	2.0	Yellowish	3

TABLE 2

MONITORING WELL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Well</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed (gallons)</i>
MW-3C *	W-010223-DN-40	6.33	2797	9.7	-71	0.06	0.68	Yellowish	9
	W-010223-DN-41 (Dup.)	6.33	2835	9.7	-77	0.06	0.60	Yellowish	18
		6.34	2834	9.7	-77	0.04	0.60	Yellowish	27
MW-3B *	W-010223-DN-42	6.32	3190	10.7	-84	0.10	5.5	Sl. Opaque	5
	(MS/MSD)	6.32	3177	10.7	-85	0.09	5.0	Sl. Opaque	10
		6.33	3170	10.7	-86	0.08	4.7	Sl. Opaque	15
MW-3A *	W-010223-DN-43	5.59	169	7.8	25	1.90	8.9	Clear	1.0
		5.58	169	7.9	26	2.10	7.7	Clear	2
		5.59	168	7.9	27	2.23	7.0	Clear	3.0
MW-7A *	W-010223-DN-44	6.32	2344	9.5	-81	4.07	5.0	Sl. Cldy	1 P.D.

Insufficient amount of water to collect full field parameters. Water samples collected after sufficient water has recovered within the well.

Notes: * = These locations had extra parameters taken due to previous rounds analytical results. An additional metals (filtered), TDS and TSS were collected.

TABLE 3

RESIDENTIAL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Residential</i> <i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Specific</i> <i>Conductivity (uS)</i>	<i>Temperature</i> <i>(°C)</i>	<i>Eh (mV)</i>	<i>Dissolved</i> <i>Oxygen (mg/l)</i>	<i>Turbidity</i> <i>(NTU)</i>	<i>Clarity</i>	<i>Volume</i> <i>Removed</i> <i>(gallons)</i>
Tom Pluess	W-010221-DN-100	5.05	181	8.0	112	10.70	0.95	Clear	5 Min.
		5.04	183	7.8	132	10.61	1.10	Clear	10 Min.
		5.03	183	7.9	145	10.47	0.85	Clear	15 Min.
Pluess Rental	W-010221-DN-101 W-010221-DN-102 (Dup)	5.08	55	9.9	165	10.98	2.30	Clear	5 Min.
		5.07	57	9.9	188	11.12	2.50	Clear	10 Min.
		5.05	59	10	192	11.18	3.00	Clear	15 Min.
John Pluess *	W-010221-DN-103	5.13	415	10.3	185	6.05	0.99	Clear	5 Min.
		5.18	416	10.2	189	6.04	0.97	Clear	10 Min.
		5.21	418	10.2	191	6.05	0.95	Clear	15 Min.
Zdrojowy	W-010221-DN-104 W-010221-DN-105 (FB)	5.41	235	10.4	133	4.30	2.1	Clear	5 Min.
		5.37	226	10.7	141	5.03	1.8	Clear	10 Min.
		5.37	228	10.7	155	4.99	1.6	Clear	15 Min.
Boehm	W-010222-DN-106	4.38	45	11.4	70	6.09	2.4	Clear	5 Min.
		4.38	45	11.4	71	6.10	2.2	Clear	10 Min.
		4.38	46	11.4	72	5.56	1.7	Clear	15 Min.
Ripp *	W-010222-DN-107 (MS/MSD)	4.54	198	10.0	196	9.15	3.5	Clear	229
		4.91	184	10.2	215	9.19	2.2	Clear	458
		4.76	180	10.3	218	9.26	2.0	Clear	687

TABLE 3

RESIDENTIAL SAMPLE SUMMARY
TOMAH MUNICIPAL SANITARY LANDFILL - TOMAH, WISCONSIN
FEBRUARY 2001

<i>Residential</i>			<i>Specific</i>	<i>Temperature</i>		<i>Dissolved</i>	<i>Turbidity</i>		<i>Volume</i>
<i>Location</i>	<i>Sample Number</i>	<i>pH</i>	<i>Conductivity (uS)</i>	<i>(°C)</i>	<i>Eh (mV)</i>	<i>Oxygen (mg/l)</i>	<i>(NTU)</i>	<i>Clarity</i>	<i>Removed</i>
Kenworthy	W-010222-DN-108	5.42	160	10.2	154	6.60	2.5	Clear	5 Min.
		5.44	161	10.2	153	6.58	2.3	Clear	10 Min.
		5.44	162	10.3	152	6.57	2.1	Clear	15 Min.
Thundercloud *	W-010222-DN-109	5.12	78	8.6	150	9.45	2.5	Clear	5 Min.
		5.10	76	8.9	164	9.29	2.0	Clear	10 Min.
		5.10	75	8.9	173	9.51	1.9	Clear	15 Min.
Schleicher	No Sample - Spigot outside was frozen. Homeowner did not want sampling conducted inside the homestead.								
Hanson	No Sample - Spigot outside was frozen. Homeowner did not want sampling conducted inside the homestead.								
Thompson	No Sample - Spigot outside was frozen. Homeowner did not want sampling conducted inside the homestead.								

Note:

Field parameters were taken after the initial 5 minutes since purging began. Readings taken in 5 minute intervals. Each sample location was taken at the outside spigot except Thundercloud and Ripp. Thundercloud sample was taken at the kitchen sink and the Ripp sample was collected at the well via 2" submersible pump after 5 standing well volumes had been purged from the well.

* These locations had additional parameters taken due to previous rounds analytical results. The additional samples were metals (filtered), TDS and TSS