

**SUMMARY REPORT OF MTCA REMEDIAL
INVESTIGATIONS AND IMPLEMENTATION OF
CORRECTIVE MEASURES**

**GREATER WENATCHEE REGIONAL LANDFILL
EAST WENATCHEE, WASHINGTON**

Prepared for

Waste Management of Washington, Inc.
191 South Webb Road
East Wenatchee, Washington 98802

July 21, 2005

Prepared by



Shaw™ EMCON/OWT, Inc.
EMCON/OWT, Inc.
10300 SW Nimbus Ave, Suite B
Portland, Oregon 97223-4345

EMCON Project 842544.07002004



APPENDIX D

ANALYTICAL RESULTS OF GAS AND GROUNDWATER SAMPLES COLLECTED IN FIRST QUARTER 2004 FOR MTCA GROUNDWATER INVESTIGATION (EMCON, MAY 2004)



EMCON/OWT, Inc.

10300 SW Nimbus Avenue
Suite B
Portland, OR 97223-4345
503.603.1000
Fax: 503.603.1001

May 4, 2004
Project #: 842544

Mr. Roger B. North, P.E.
Waste Management, Inc.
5200 SW Macadam Ave., Suite 270
Portland, OR 97201-3834

Re: Analytical Results of Gas and Groundwater Samples Collected in First Quarter 2004
for MTCA Groundwater Investigation: Greater Wenatchee Regional Landfill, East
Wenatchee, Washington

Dear Mr. North:

This report, prepared by EMCON/OWT Inc. (EMCON) on behalf of Waste Management Inc. (WM), presents and evaluates volatile organic compound (VOC) analytical results of landfill gas (LFG) and groundwater samples collected in the first quarter 2004 at the Greater Wenatchee Regional Landfill (GWRL) in East Wenatchee, Washington. The supplemental LFG sampling was initiated by WM to assist in groundwater mitigation efforts at the site. This work was performed as part of WM's agreement with the Washington Department of Ecology (WDOE) under the State of Washington's Model Toxics Control Act (MTCA) and was designed to (1) improve our understanding of the source and extent of VOCs detected in site groundwater samples collected from monitoring wells MW-02A and MW-07 and (2) facilitate implementation of effective corrective measures (e.g., enhancement of the LFG collection system) to mitigate groundwater impacts.

GC Environmental Inc. (GCE) is preparing an additional report, to be submitted under separate cover, that uses the gas analytical results presented in this report, along with performance data for the existing gas control and collection system (GCCS), to propose modifications to the GCCS. The modifications are intended to improve the effectiveness of the GCCS at collecting LFG and associated vapor phase VOCs. Results from previous and ongoing LFG and groundwater studies have indicated that gaseous VOCs transported in LFG are the source of VOCs detected in site groundwater samples.

SCOPE OF WORK

Field and laboratory activities performed during the first quarter 2004 monitoring event that relate to this investigation include the following:

- Collected seven gas samples from the following LFG probes screened at the depth intervals shown in parentheses: GP-8-1 (20 to 35 feet below ground surface [ft-bgs]), GP-8-2 (55 to 70 ft-bgs), GP-8-3 (80 to 95 ft-bgs), GP-09 (9.5 to 24.5 ft-bgs), GP-11-1 (19.3 to 34.3 ft-bgs), GP-11-2 (54.2 to 69.2 ft-bgs), and GP-11-3 (78.8 to 93.8 ft-bgs). Probe locations are shown in Figure 1. EMCON collected gas samples from these probes on March 11, 2004.
- Collected gas samples from six LFG extraction wells (GE-11 through GE-16) located in the Trench 1 and 2 areas (see Figure 1). EMCON collected gas samples from these LFG extraction wells on March 11, 2004. The vacuum measurements ranged from 0.6 inches of water column (iwc) in GE-1 to 19 iwc in GE-9. Gas extraction wells GE-1, GE-3, GE-4, GE-6, GE-7, and GE-16 all had net flow rates of 1 cubic feet per minute (cfm). The gas wells with the best flow rates were GE-9 (42 cfm), GE-11 (48 cfm), GE-13 (58 cfm), GE-14 (31 cfm) and GE-15 (34 cfm).
- Collected gas samples from borings advanced using a direct-push Geoprobe sampling rig into the flood deposit sands. One boring was advanced near monitoring well MW-07 (DP-MW-07) and another approximately 250 feet east of gas probe GP-09 at the southern end of the infiltration pond area (Sample DP-Infiltration Pond) (see Figure 1). Gas samples were collected at the following two depths in each boring: 30 and 54 ft-bgs in a push-probe in boring DP-Infiltration Pond and 83 and 101 ft-bgs in a push-probe boring DP-MW-07. Gas samples from these push-probe borings were collected by SCS Engineering (SCS) on January 23, 2004.
- Collected groundwater samples from monitoring wells MW-01, MW-02A, MW-03A, MW-07, and P-08. EMCON collected groundwater samples from these wells from March 9 to 11, 2004, consistent with the requirements of GWRL's solid waste disposal permit, and with the site-specific groundwater monitoring plan (WM, 1995), and WAC 173-351 (410 through 430). With the exception of P-08, the wells were sampled as part of routine quarterly monitoring activities. Piezometer P-08 was also sampled to provide supplemental groundwater quality information. Field sampling documentation, including field sampling data sheets and chain-of-custody (COC) forms, are provided in Attachment 1. Additional documentation related to the first quarter 2004 groundwater sampling activities (e.g., field and laboratory quality assurance/quality control procedures) will be included in the first quarter 2004 quarterly monitoring report.
- Measured water levels in the site monitoring wells and piezometers on March 8, 2004 using an electronic water level probe, before collecting groundwater samples.

In order to maintain the focus of this investigation on VOC concentrations in LFG and groundwater, no attempt was made to correlate routine LFG monitoring (methane) results with the result of sampling outlined above.

The gas samples were collected in laboratory-supplied, stainless steel, vacuum Summa canisters. The samples were sent under COC procedures to Severn Trent Laboratories, Inc. (STL-LA) in Los Angeles, California. STL-LA analyzed the samples for fixed gases according to Method ASTM D1946, and for VOCs using combined gas chromatography/mass spectrometry according to U.S. Environmental Protection Agency (USEPA) method TO-15-2. Laboratory reports for gas samples collected in the first quarter 2004 are provided in Attachment 2.

The groundwater samples were packed with wet ice in coolers, along with associated COC and laboratory analysis request forms. The coolers were shipped overnight to STL in Denver, Colorado (STL-Denver) for analysis of VOCs by USEPA method 8260A. Laboratory reports for groundwater samples collected in the first quarter 2004 are provided in Attachment 2.

RESULTS AND FINDINGS

VOC Analytical Results for Gas Samples

VOC analytical results for gas samples collected from the gas probes, LFG extraction wells, and push-probe borings in the first quarter (January and March) 2004, along with historical results, are summarized in Table 1 and discussed in the sections below. The concentrations of selected chlorinated VOCs detected in gas samples collected during the first quarter 2004 are also presented in Figure 2. The subset of chlorinated VOCs presented in Figure 2 are detected in groundwater samples collected from monitoring wells MW-02A and MW-07.

Gas Probes. The March 2004 analytical results for gas samples collected from gas probes GP-8-1, GP-8-2, GP-8-3, GP-09, GP-11-1, GP-11-2, and GP-11-3 in March 2004 are generally consistent with historical concentrations and show the following (see Table 1 and Figure 2):

- VOCs detected most frequently and at the highest concentrations in gas samples collected from the probes, including the gas sample collected for the first time from GP-09, were the chlorinated fluorocarbon compound dichlorodifluoromethane (DCDFM) and the following chlorinated VOCs: 1,1-dichloroethane (1,1-DCA), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride.

- The VOC concentrations detected in gas samples collected from shallow probe GP-11-1 located near MW-02A are significantly lower than the concentrations detected in the intermediate (GP-11-2) and deep (GP-11-3) probes.
- The chlorinated VOC concentrations are highest in shallow probe GP-8-1 located near MW-03A, and progressively decrease in the intermediate (GP-8-2) and deep (GP-8-3) probes.
- Concentrations of the DCDFM are highest in the deep probes in both GP-8 and GP-11, and decrease upward with the lowest concentrations in the shallowest probes (see Table 1).

Gas Extraction Wells. Analytical results of gas samples collected from LFG extraction wells in March 2004 showed the following results (see Table 1):

- GE-11 through GE-16 gas samples contained the same chlorinated VOCs (1,1-DCA, cis-1,2-DCE, PCE, TCE, vinyl chloride, and DCFM) detected in samples collected from the LFG probes. These VOCs were detected in extraction well gas samples at concentrations within or above the range of concentrations detected in the probe samples.
- The extraction well gas samples contained elevated concentrations of several other VOCs, which were either not detected or detected at low concentrations in the probe samples. These include fuel-related VOCs (benzene, toluene, ethylbenzene, and xylenes [BTX], and 4-ethyltoluene), acetone, 2-butanone (MEK), and ethanol.
- VOCs detected in the LFG extraction well samples showed a wide range of concentrations (generally between one to two orders of magnitude).
- VOC were generally detected at highest concentrations in the gas sample collected from LFG extraction well GE-14, located in the southern portion of the Trench 1 area, approximately 150 feet north-northeast of gas probe GP-11 and groundwater monitoring well MW-2A. Lower VOC concentrations were generally detected in the gas samples collected from extraction wells GE-12 and GE-16, located in the northern portion of the Trench 1 area (see Figure 2).
- Methane concentrations up to 58 percent were reported in well GW-11. Other wells with good quality methane included GW-5 (50.5 percent), GW-9 (50 percent) and GW-13 (55.5 percent). The gas flow from these wells was increased to improve LFG collection.

Push-Probe Borings. VOC analytical results for gas samples collected from the temporary push-probe borings (DP-MW-07 and DP-Infiltration-Pond) in January 2004 showed the following (see Table 1 and Figure 2).

- The only chlorinated VOCs detected in gas samples collected from two depths in the push-probe boring advance near well MW-07 were 1,1,1-TCA (30 and 32 ppbv) and vinyl chloride (27 and 150 ppbv). Additionally, elevated concentrations of trichlorofluoromethane (TCFM) (580 and 540 parts per billion by volume [ppbv]) and DCFM (6200 and 6100 ppbv) were also detected in both samples collected from this boring.
- Gas samples collected from the push-probe boring located in the southern portion of the storm water infiltration area contained the same suite of chlorinated VOCs (1,1-DCA, *cis*-1,2-DCE, PCE, TCE, vinyl chloride) detected in samples collected from the LFG probes and extraction wells. TCFM and DCFM were also detected in the gas samples collected from boring DP-Infiltration-Pond, but at lower concentrations than in the DP-MW-07 samples.
- VOCs concentrations detected in the deeper gas sample collected from boring DP-Infiltration-Pond at 58 ft-bgs) were generally higher than those detected in the shallower sample (30 ft-bgs).

VOC Analytical Results for Groundwater Samples

Table 2 summarizes historical and March 2004 analytical results for VOCs detected in groundwater samples collected from the site monitoring wells and piezometers. Figure 3 presents the first quarter (March) 2004 groundwater concentrations for the same suite of chlorinated VOCs shown in Figure 2 for the gas samples. VOCs were detected in groundwater samples collected from MW-01, MW-02A, and MW-07. VOCs were also detected in the sample collected from piezometer P-08. The specific VOCs detected during the first quarter 2003 groundwater samples, and their corresponding concentrations, are consistent with historical results (see Table 2). Notable results are discussed below.

Monitoring Well MW-01. DCDFM (1.1 micrograms per liter [$\mu\text{g/L}$]) and PCE (0.46 $\mu\text{g/L}$) were the only VOCs detected in the March 2004 groundwater sample collected from upgradient monitoring well MW-01. Figure 4 shows that DCDFM and PCE concentrations in MW-01 have decreased since 1999. In addition, other VOCs previously detected in MW-01 groundwater ([1,1-DCA, *cis*-1,2-DCE, and vinyl chloride) have not been detected at or above method reporting limits since the second quarter 2003 (see Figure 4).

Monitoring Well MW-02A. The March 2004 groundwater samples collected from downgradient monitoring well MW-02A (including a duplicate sample) showed detections of seven VOCs: PCE (7.3 and 7.2 µg/L), TCE (1.7 and 1.6 µg/L), 1,1-DCA (14 µg/L in both samples), 1,1-dichloroethene (1,1-DCE; 1.9 µg/L in both samples), *cis*-1,2-DCE (2.5 µg/L in both samples), DCDFM (3.6 and 3.5 µg/L), and TCFM (3 µg/L in both samples). Consistent with previous results, the concentrations of 1,1-DCA and PCE exceeded the GWPSs established for these compounds of 1.0 and 0.8 µg/L, respectively. Figure 5 shows that, with the exception of 1,1-DCA, VOC concentrations in MW-02A have generally stabilized since the third quarter of 2002.

Monitoring Well MW-07. The March 2004 groundwater samples collected from newly installed monitoring well MW-07 located hydraulically downgradient of MW-02A showed detections of the same seven VOCs detected in MW-02A samples (see Figure 6). Additionally, the concentrations of these VOCs in the MW-07 sample very closely compare with the concentrations of the corresponding compounds detected in monitoring well MW-02A (see Table 2). The March 2004 VOC analytical results are consistent with the concentrations detected in the first-time groundwater samples collected from MW-07 in December 2003 and January 2004 (see Table 2).

Piezometer P-08. The March 2004 groundwater sample collected from piezometer P-08 (located east of the northeast corner of the Trench 1 area) showed detections of the same VOCs detected in groundwater samples collected from MW-02A and MW-07 (see Table 2), with the following differences: (1) vinyl chloride was detected at a low concentration (1 µg/L) in the P-08 groundwater sample, (2) the concentrations of chlorinated VOCs were generally lower in the P-08 sample than those detected in MW-02A and MW-07 samples, and (3) the concentrations of DCFM and TCFM were generally higher in the P-08 sample than those detected in MW-02A and MW-07 samples.

Groundwater Elevations and Gradients

The water levels measured during the first quarter (March) 2004 monitoring event in new and existing site wells, along with the water-level data from P-07, P-08 and P-10, were used to interpret the groundwater gradient and flow direction in the uppermost water-bearing zone (WBZ) within the landslide deposits beneath the site. Water-level measurements from MW-05 and MW-06, which are screened in the underlying Wenatchee Formation, were not used to interpret the potentiometric surface because they represent a deeper WBZ, with a lower hydraulic potential relative to the upper water-bearing zone in landslide deposits. Historically, water levels in P-08 were not used to interpret the potentiometric surface because the well was interpreted to be screened in a perched zone. However, reinterpretation of the P-08 boring log indicated that the well is screened in sandy deposits near the bottom of the landslide deposits (see Figure 7). During drilling of P-08, the supervising geologist noted that water levels in P-08 rose approximately 30 feet when the

water-bearing zone at the base of the landslide deposits was encountered. Therefore, the March 2004 water level measured in P-08 was included in this interpretation of the potentiometric surface.

The March 2004 groundwater levels were converted to groundwater elevations, plotted on the site map, and contoured to depict the groundwater potentiometric surface (Figure 6). The direction of groundwater flow is generally south-southwest beneath the existing site and southward toward the Columbia River. Reinterpretation of the groundwater potentiometric surface using the March 2004 water level measured in P-08, but not the MW-05 water level, shows groundwater in the northeastern part of the site as flowing more southwesterly than previous interpretations. This southwestern flow direction is parallel to the ground surface slope direction in the recharge area uphill from P-08 (see Figure 6) and is consistent with groundwater flow direction in the vicinity of MW-07 downgradient from P-08 and MW-02A (see Figure 6).

The hydraulic gradient in the northeastern part of the site is approximately 0.17 foot per foot (ft/ft) as measured between P-08 and the 910-foot groundwater contour. The gradient decreases southward to approximately 0.02 ft/ft between MW-02A and MW-07. Interpretation of groundwater flow south from MW-07, suggests that the hydraulic gradient in the area south of GWRL is probably not greater than 0.02 ft/ft.

Groundwater Flow Velocity

In order to estimate the extent of VOC impacts in groundwater downgradient from MW-02A, minimum and maximum groundwater flow velocities were computed to accommodate uncertainty in the estimated effective porosity of the aquifer. The groundwater velocities were calculated using the following equation:

$$V = (K_h i) / n_e$$

where

- V = average groundwater velocity.
- K_h = aquifer horizontal hydraulic conductivity.
- i = average hydraulic gradient (vertical change in groundwater elevation divided by corresponding horizontal distance).
- n_e = effective aquifer porosity.

The following hydraulic parameter values were used to calculate groundwater velocity:

- K_h = 6 feet per day (ft/day), estimated from slug tests performed in MW-07 in November 2003.
- n_e = 0.2 and 0.3.
- i = 0.02 foot per foot, estimated average gradient south of MW-2A.

Assuming conservative (linear, non-reactive, non-sorbitive, non-volatile) transport of VOCs in groundwater moving downgradient from MW-02A, with no advection or diffusion, a particle released from MW-02A and traveling in material with an effective porosity of 0.3 would have a velocity of 146 feet per year (ft/y). A particle released from the same point and traveling in aquifer material with an effective porosity of 0.2 would have a velocity of 219 ft/y.

Therefore, in the five years since chlorinated VOCs were first detected in MW-02A groundwater samples collected in March 1999, the maximum distance traveled by a VOC constituent, assuming conservative transport (as previously defined) and the groundwater velocities computed above, would range from 730 to 1100 feet south of well MW-02A.

It is important to note that the estimated hydraulic gradient and groundwater velocities south of MW-07 should only be considered as approximate since they were based on a regional interpretation of groundwater flow that considered the following assumptions, and not on groundwater elevation data: (1) groundwater recharge occurs northeast of the site through exposed landslide debris, (2) groundwater velocity decreases to the south of the site as the unconsolidated landslide deposits/Pleistocene fluvial deposits thicken and the hydraulic gradient decreases, and (3) groundwater in the landslide deposits flows toward the Columbia River approximately 8,000 feet south of the site. Furthermore, it is expected that diffusion and advection would affect the lateral distribution of dissolved VOCs, both east and west of the estimated line of flow.

SUMMARY AND CONCLUSIONS

Source of VOCs

The laboratory analytical results of gas and groundwater samples collected during March 2004 and in prior events, suggest that the interaction between VOC-impacted LFG and groundwater may likely be occurring directly under the Trench 1 area and/or to the east of Trench 1 in the storm water infiltration area:

- The same suite of chlorinated VOCs detected in groundwater samples collected from MW-02A, MW-07, and P-08 were also detected at elevated concentrations in gas samples collected from LFG probes GP-09, GP-11-2 and GP-11-3 and extraction wells GE-11, GE-12, GE-13, GE-14 GE-15 and GE-16. These LFG probes and extraction well GE-14, where the highest chlorinated VOCs concentrations were detected in LFG, are located in or directly outside the southern portion of the Trench 1 area (see Figure 2).

- The type and concentrations of chlorinated VOCs detected in the groundwater sample collected from piezometer P-08 were similar to those detected in MW-02A and MW-07 groundwater samples.
- VOCs were not detected in groundwater samples collected from MW-03A, which is located cross-gradient of Trench 1 (see Figure 2). It should be noted that VOCs were detected in nested gas probe GP-08, located near MW-03A, where the deepest probe (GP-8-3) is screened to a depth of 95 ft-bgs. Groundwater in MW-03A is approximately 356 ft-bgs.
- The detections of similar concentrations of the same suite of chlorinated VOCs in both MW-02A and MW-07 groundwater samples suggests that aqueous transport of dissolved VOCs in groundwater is likely occurring downgradient from the area beneath and/or to the east of the Trench 1, where LFG containing VOCs is either interacting directly with groundwater and/or with infiltrating surface water.

RECOMMENDATIONS

Consistent with WM's agreement with the WDOE to characterize the extent of impacts to groundwater, EMCON recommends drilling and installing a new monitoring well (MW-11) approximately 800 feet south-southwest of existing well MW-07. This well will be used to assess the downgradient extent of VOCs detected in groundwater samples collected from MW-02A and MW-07. Based on the estimation of the potential downgradient extent of VOC-impacted groundwater (presented in this report), MW-11 should be located just north of SE 4th Street, approximately 600 feet east of South Webb Road (see Figure 6). This location is anticipated to be near the downgradient edge of the VOC plume. The anticipated depth to uppermost WBZ in the landslide deposits at the proposed MW-11 location is approximately 420 ft-bgs.

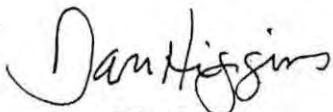
Monitoring well MW-11 will be drilled and installed using a Foremost (Barber) dual-rotary drill rig method, consistent with the methods used for installing monitoring well MW-07 (EMCON, 2004), as well as for the other monitoring wells (MW-08, MW-09, and MW-10) installed during the addition hydrogeologic characterization investigation performed in 2003. The monitoring well will be designed, constructed, and developed, consistent with WAC 173-160 "Minimum Standards for Construction and Maintenance of Wells" and standards specified in WAC 173-405-5.

Mr. Roger North
May 4, 2004
Page 10

Please contact EMCON if you have questions or require additional information.

Sincerely,

EMCON/OWT, Inc.



Dan Higgins
Project Hydrogeologist



Louis Caruso, R.G. 1329
Hydrogeology Group Manager



LOUIS J. CARUSO

Attachments: Table 1: VOCs Detected in Gas Samples
Table 2: VOCs Detected in Monitoring Well Groundwater Samples
Figure 1: Monitoring Well, Gas Probe, and Gas Extraction Well Locations
Figure 2: Chlorinated VOC Concentrations in Gas Samples
Figure 3: Chlorinated VOCs Concentration in Groundwater Samples
Figure 4: Volatile Organic Compounds in MW-01 Groundwater Samples
Figure 5: Volatile Organic Compounds in MW-02A Groundwater Samples
Figure 6: Potentiometric Surface Contours (March 2004)
Figure 7: Geologic Cross Section A-A'
Attachment 1: Field Sampling Documentation
Attachment 2: Laboratory Reports and QA/QC Results

cc: Ted Woodard, WM
Jim Obereiner, WM
EMCON file

REFERENCES

- EMCON. 2004. 2003 fourth quarter and annual environmental monitoring report, Greater Wenatchee Regional Landfill, East Wenatchee, Washington. Prepared for Waste Management, Inc., Portland, Oregon, by EMCON/OWT, Inc., Portland, Oregon. March 11.
- WM. 1995. Site-specific groundwater monitoring plan for the GWRL (revised). Waste Management, Inc. March.

TABLES

Historical Detected VOCs in Groundwater Samples
(ug/L)
Greater Wenatchee Regional Landfill

Sample Location	Date Collected	Tetra-chloro-ethene	Tri-chloro-ethene	1,1-Dichloro-ethane	cis-1,2-Dichloro-ethene	1,1-Dichloro-ethene	1,1,1-Trichloro-ethane	Vinyl Chloride	Trichloro-fluoro-methane	Dichloro-difluoro-methane	Chloro-ethane	Methylene Chloride	Chloro-form
MW-01	24-Aug-94	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
MW-01	6-Oct-94	ND	ND	ND	ND	ND	1	1	ND	ND	ND	ND	ND
MW-01	9-Nov-94	ND	ND	ND	1	ND	1	1	ND	ND	ND	ND	ND
MW-01	1-Jun-95	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
MW-01	29-Aug-95	ND	ND	ND	1	ND	1	1	ND	ND	ND	ND	ND
MW-01	30-Nov-95	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
MW-01	27-Feb-96	ND	ND	ND	1	ND	1	ND	ND	ND	ND	ND	ND
MW-01	22-May-96	ND	ND	ND	1	ND	1	ND	ND	ND	ND	ND	ND
MW-01	6-Nov-96	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND
MW-01	12-May-99	ND	ND	ND	1.2	ND	ND	ND	ND	2.7	ND	ND	ND
MW-01	29-Jul-99	ND	ND	ND	1.2	ND	ND	ND	ND	2.5	ND	ND	ND
MW-01	27-Oct-99	ND	ND	ND	1	ND	ND	ND	ND	2.1	ND	ND	ND
MW-01	8-Mar-00	ND	ND	ND	1.2	ND	ND	0.89	ND	1.8	ND	ND	ND
MW-01	11-Apr-00	ND	ND	ND	1.2	ND	0.75	0.74	ND	1.6	ND	ND	ND
MW-01	30-Aug-00	ND	ND	ND	1.2	ND	ND	ND	ND	1.4	ND	ND	ND
MW-01	5-Dec-00	ND	ND	ND	1.3	ND	ND	0.69	ND	1.7	ND	ND	ND
MW-01	26-Feb-01	0.71	ND	0.63 J	1.3	ND	0.37 J	0.73	ND	1.5	ND	ND	ND
MW-01	10-May-01	0.8	ND	0.67 J	1.4	ND	0.39 J	0.76	ND	1.3	ND	1.6 J	ND
MW-01 (Dup)	10-May-01	0.76	ND	0.67 J	1.3	ND	0.37 J	0.73	ND	1.4	ND	1.6 J	ND
MW-01	17-Aug-01	0.56	ND	0.55 J	1.2	ND	0.33 J	0.6 J	ND	1.3	ND	ND	ND
MW-01	19-Oct-01	0.56	ND	0.63 J	1.2	ND	0.3 J	0.66	ND	0.92	ND	ND	ND
MW-01	15-Feb-02	0.61	ND	0.64 J	1.4	ND	0.36 J	0.75	ND	1.7	ND	ND	ND
MW-01	10-May-02	0.67	ND	0.63 J	1.3	ND	ND	0.8	ND	1.2	ND	ND	ND
MW-01	8-Aug-02	0.63	ND	0.57 J	1.1	ND	ND	0.33 J	ND	1.3	ND	ND	ND
MW-01	3-Dec-02	0.53	ND	0.46 J	0.59	ND	ND	ND	ND	0.98	ND	ND	ND
MW-01 (Dup)	3-Dec-02	0.54	ND	0.47 J	0.6	ND	ND	ND	ND	0.93	ND	ND	ND
MW-01	18-Mar-03	0.52	ND	0.4 J	0.37 J	ND	ND	ND	ND	0.97	ND	ND	ND
MW-01 (Dup)	18-Mar-03	0.52	ND	0.41 J	0.35 J	ND	ND	ND	ND	1.0	ND	ND	ND
MW-01	17-Jun-03	0.49	ND	ND	ND	ND	ND	ND	ND	0.65	ND	ND	ND
MW-01	16-Sep-03	0.52	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-01	16-Dec-03	0.38	ND	ND	ND	ND	ND	ND	ND	0.95	ND	ND	ND
MW-01	9-Mar-04	0.46	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND

Table 2
Historical Detected VOCs in Groundwater Samples
(ug/L)
Greater Wenatchee Regional Landfill

Sample Location	Date Collected	Tetra-chloro-ethene	Tri-chloro-ethene	1,1-Dichloro-ethane	cis-1,2-Dichloro-ethene	1,1-Dichloro-ethene	1,1,1-Trichloro-ethane	Vinyl Chloride	Trichloro-fluoro-methane	Dichloro-difluoro-methane	Chloro-ethane	Methylene Chloride	Chloro-form
MW-02A	17-Feb-98	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
MW-02A	20-May-98	ND	ND	2	ND	ND	ND	ND	ND	NT	ND	ND	ND
MW-02A	13-Aug-98	ND	ND	2	ND	ND	ND	ND	ND	NT	ND	ND	ND
MW-02A	2-Dec-98	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND
MW-02A	9-Dec-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-02A	24-Mar-99	1.3	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-02A	12-May-99	1.9	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-02A	29-Jul-99	2.7	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-02A	28-Oct-99	2.9	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-02A	8-Mar-00	3.2	0.8	3.8	ND	0.8	ND	ND	1.2	1.2	ND	ND	ND
MW-02A	11-Apr-00	3.5	0.89	4.4	ND	ND	ND	ND	1.2	1.1	ND	ND	ND
MW-02A	12-Sep-00	2.6	0.75	4	ND	ND	ND	ND	ND	0.68	ND	ND	ND
MW-02A	5-Dec-00	4.1	1	5.9	0.91	0.89	ND	ND	1.7	1.9	ND	ND	ND
MW-02A	26-Feb-01	4.9	1.3	5.7	1.1	1.1	0.39 J	ND	1.5	1.7	ND	ND	ND
MW-02A	10-May-01	5.8	1.2	6.4	1.3	1	0.37 J	ND	1.4	1.4	ND	1.4 J	ND
MW-02A	17-Aug-01	4.3	1.3	6.5	1.5	1.1	0.37 J	ND	1.6	1.5	ND	ND	ND
MW-02A	19-Oct-01	5.4	1.2	7.6	1.5	0.89	0.36 J	ND	1.1	1.3	ND	ND	ND
MW-02A	15-Feb-02	5.6	1.4	8.5	2	1.5	0.47 J	ND	2.4	2	ND	ND	ND
MW-02A	10-May-02	6.7	1.6	8.3	2.2	0.92	0.41 J	ND	1.7	1.9	ND	ND	ND
MW-02A (Dup)	10-May-02	6.8	1.6	8.5	2	0.42 J	0.39 J	ND	1.6	1.9	ND	ND	ND
MW-02A	8-Aug-02	8	1.9	9.8	2.4	1.7	0.53 J	ND	2.2	3.2	ND	ND	ND
MW-02A	4-Dec-02	7.4	1.7	10	2.5	1.6	0.47	ND	2.3	3	ND	0.84 J	0.32 J
MW-02A	18-Mar-03	7.7	1.7	11	2.4	1.6	0.48 J	ND	2.3	3.1	ND	ND	0.35 J
MW-02A	17-Jun-03	6.7	1.8	11	2.8	1.5	ND	ND	ND	2.1	ND	ND	0.4 J
MW-02A	16-Sep-03	7.8	1.5	11	2.4	1.6	0.52 J	ND	2.5	3.4	ND	0.86 J	0.36 J
MW-02A	16-Dec-03	5.9	1.3	12	2.4	1.6	0.45 J	ND	2.4	2.8	ND	0.8 J	0.37 J
MW-02A	9-Mar-04	7.3	1.7	14	2.5	1.9	0.42 J	ND	3	3.6	ND	1 J	0.38 J
MW-02A (Dup)	9-Mar-04	7.2	1.6	14	2.5	1.9	1.43 J	ND	3	3.5	ND	1.2 J	0.39 J
MW-04	30-Mar-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	ND
MW-04	7-Mar-00	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND
MW-04	12-Apr-00	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-04	29-Aug-00	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND
MW-04	19-Dec-00	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND
MW-04	1-Mar-01	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND
MW-04	10-May-01	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND

2
Historical Detected VOCs in Groundwater Samples
(ug/L)
Greater Wenatchee Regional Landfill

Sample Location	Date Collected	Tetra-chloro-ethene	Tri-chloro-ethene	1,1-Dichloro-ethane	cis-1,2-Dichloro-ethene	1,1-Dichloro-ethene	1,1,1-Trichloro-ethane	Vinyl Chloride	Trichloro-fluoro-methane	Dichloro-difluoro-methane	Chloro-ethane	Methylene Chloride	Chloro-form
MW-04	17-Aug-01	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
MW-04	19-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND
MW-04	18-Feb-02	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-04	13-May-02	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND
MW-04	9-Aug-02	ND	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND
MW-04	3-Dec-02	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND
MW-04	18-Mar-03	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-04	17-Jun-03	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND
MW-04	17-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND
MW-04	17-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
MW-04	10-Mar-04	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	0.77 J	ND
MW-07	17-Dec-03	7.2	1.7	10	3	0.94	0.46 J	ND	1.8	3.3	ND	ND	ND
MW-07 (Dup)	17-Dec-03	7.2	1.6	9.8	2.9	0.97	0.47 J	ND	1.8	3.3	ND	ND	ND
MW-07 (Resample)	15-Jan-04	8.3	2	11	3.2	1.1	0.5 J	ND	2.4	4.2	ND	ND	ND
MW-07	10-Mar-04	7.9	2	11	3.2	1.1	0.43 J	ND	2.1	3.7	ND	1.4 J	ND
MW-07 (Dup)	10-Mar-04	7.4	2	11	3	0.98	0.43 J	ND	2	3.5	ND	1.3 J	ND
MW-10	10-Mar-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79 J	ND
P-07	1-Mar-01	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND
P-07	10-May-01	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	1 J	ND
P-07	16-Aug-01	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND
P-07 (Dup)	16-Aug-01	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND
P-07	18-Oct-01	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND
P-07	15-Feb-02	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND
P-07 (Dup)	15-Feb-02	ND	ND	ND	ND	ND	ND	ND	0.56 J	2.4	ND	ND	ND
P-07	10-May-02	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
P-07	9-Aug-02	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND
P-07 (Dup)	9-Aug-02	ND	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND
P-07	4-Dec-02	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND
P-07	18-Mar-03	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND
P-07	17-Jun-03	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND
P-07	16-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND
P-07	16-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND
P-07	9-Mar-04	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
P-08	11-Mar-04	2.7	0.42	7.2	0.94	1	1.7	1	2.9	9.1	0.63 J	3	ND
NOTE: ug/L = microgram per liter; NT = analyte not tested, ND = analyte not detected at or above the method reporting limit; J = estimate value.													

Table 1
VOCs Detected in Gas Samples
(ppbv)
Greater Wenatchee Regional Landfill

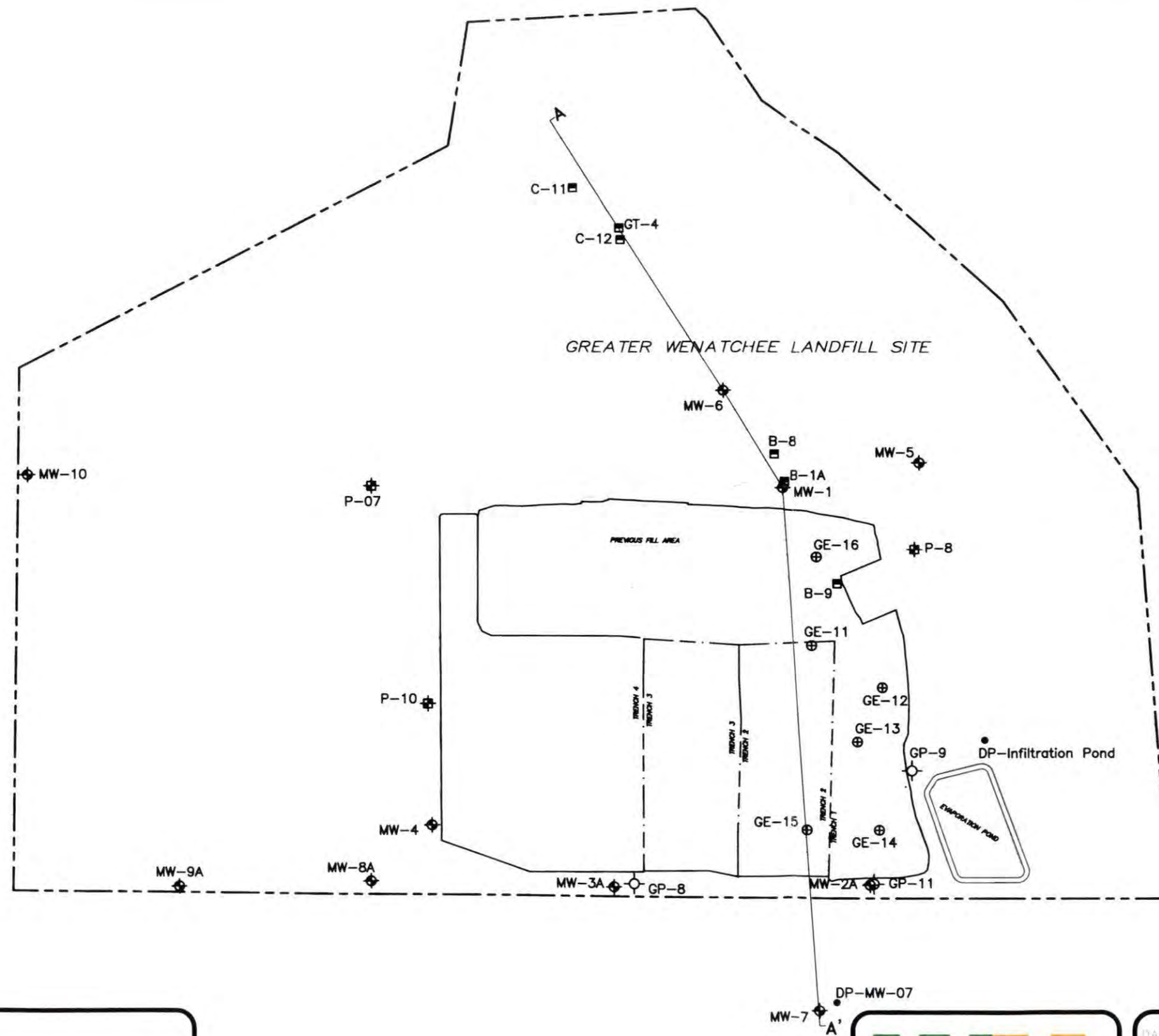
Sample Location	Date Collected	Methane (percent)	Tetra-chloro-ethene	Tri-chloro-ethene	1,1-Dichloro-ethane	1,2-Dichloro-ethane	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	1,1-Dichloro-ethene	1,1,1-Trichloro-ethane	Vinyl Chloride	Trichloro-fluoro-methane	Dichloro-difluoro-methane	Chloro-methane	Trichloro-trifluoro-ethane	Chloro-ethane	1,2-Dichloro-1,1,2,2-tetra-fluoroethane	1,1,2,2-Tri-fluoroethane	Benzene	Toluene	Ethyl-benzene	Total Xylenes	4-Ethyl-toluene	Acetone	Methylene Chloride	1-Butene	n-Butane	Chloro-form
Landfill Gas Flare and Title V NMOC Study																												
Composite (4-MS-IN2)	22-Jan-04		404	226	104	ND	1280	NT	ND	ND	1610	36.8	1040	ND	NT	204	116	ND	474	8970	1920	5490	454	5320	294	5740	3340	ND
Composite (5-14,8,9,1)	22-Jan-04		889	1410	854	70.6	882	NT	46.2	24	1220	103	2500	139	NT	1110	474	ND	1680	19700	1350	4423	248	39800	7180	21600	13600	ND
Out-of-Waste Push Probes (Near MW-7 and South of Infiltration Area)																												
DP-Infiltration Pond-30'	23-Jan-04	77	160	8.9	37	ND	9.5	ND	ND	17	ND	32	440	ND	NT	ND	11	ND	ND	5.7	ND	ND	ND	130	ND	NT	NT	ND
DP-Infiltration Pond-54'	23-Jan-04	4.7	250	71	200	ND	680	ND	ND	47	740	90	1400	ND	NT	ND	38	ND	29	ND	ND	ND	ND	ND	ND	NT	NT	ND
DP-MW-07-101'	23-Jan-04	0.33	ND	ND	ND	ND	ND	ND	ND	30	27	580	6200	ND	NT	ND	170	160	ND	8.7	ND	6	ND	47	ND	NT	NT	ND
DP-MW-07-83'	23-Jan-04	1.4	ND	ND	ND	ND	ND	ND	ND	32	150	540	6100	ND	NT	18	170	150	ND	25	ND	9.9	ND	34	ND	NT	NT	ND
LFG Extraction Wells (Trench 1 and 2 Areas)																												
GE-11	11-Mar-04	61	550	350	140	NT	1700	ND	ND	ND	1200	110	1300	NT	NT	460	110	ND	980	15000	4300	12200	1100	1800	460	NT	NT	NT
GE-12	11-Mar-04	50	100	45	57	NT	100	36	ND	ND	2800	ND	670	NT	NT	89	51	21	250	4100	3100	6500	640	520	24	NT	NT	NT
GE-13	11-Mar-04	58	800	500	110	NT	1200	ND	ND	ND	1700	ND	890	NT	NT	120	97	ND	610	14000	7700	22600	3900	4500	73	NT	NT	NT
GE-14	11-Mar-04	52	3400	1500	350	NT	3900	160	ND	ND	5300	ND	810	NT	NT	290	ND	ND	750	18000	4300	12200	1000	3500	1100	NT	NT	NT
GE-15	11-Mar-04	53	680	460	200	NT	1100	ND	ND	ND	980	130	910	NT	NT	410	ND	ND	580	15000	3900	12000	1400	12000	390	NT	NT	NT
GE-16	11-Mar-04	40	44	52	ND	NT	130	ND	ND	ND	1100	ND	200	NT	NT	450	58	ND	260	2000	1900	4800	490	1000	61	NT	NT	NT
Landfill Gas Probes																												
GP-4	1-Mar-01	4.5	400	21	280	ND	440	26	14	3.7	730	11	NT	ND	8.9	100	ND	ND	9.6	ND	ND	9.7	ND	ND	ND	NT	NT	ND
GP-4	18-Feb-02	23	530	82	460	ND	1300	100	57	ND	3500	ND	850	ND	ND	310	ND	ND	60	ND	ND	ND	ND	230	ND	NT	NT	ND
GP-4	9-May-02	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	37	ND	ND	ND	8.7	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-4	9-Aug-02	ND	100	0.57	ND	ND	0.61	ND	1.5	ND	ND	0.46	4.6	0.91	ND	ND	0.56	ND	ND	1.9	0.4	2.34	ND	17	ND	NT	NT	5.8
GP-4	4-Dec-02	ND	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.7	ND	ND	ND	0.73	ND	ND	ND	ND	ND	ND	2.3	ND	NT	NT	2.3
GP-4	17-Mar-03	ND	100	0.54	4.4	ND	ND	ND	ND	0.56	ND	1.4	39	ND	0.61	ND	3.1	ND	ND	0.39	ND	1.11	0.46	ND	ND	NT	NT	2.3
GP-4	17-Jun-03	ND	97	0.65	1.2	ND	ND	ND	ND	0.38	ND	1.3	55	ND	0.68	ND	2.6	ND	ND	ND	ND	ND	ND	5.7	ND	NT	NT	2.8
GP-4	17-Sep-03	ND	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	3.8
GP-8-1	17-Sep-03	41	12	ND	ND	ND	44	ND	ND	23	1300	49	760	ND	NT	360	92	11	22	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-8-1	18-Dec-03	38	22	ND	60	ND	120	ND	ND	21	1500	42	940	ND	NT	510	130	ND	49	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-8-1	11-Mar-04	51	33	ND	90	NT	230	ND	ND	ND	2700	42	1100	NT	NT	850	190	ND	89	ND	ND	ND	ND	ND	ND	NT	NT	NT
GP-8-2	17-Sep-03	31	ND	ND	ND	ND	ND	ND	ND	17	550	310	4000	ND	NT	39	160	54	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-8-2	18-Dec-03	34	ND	ND	ND	ND	ND	ND	ND	21	770	350	3300	ND	NT	73	200	57	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-8-2	11-Mar-04	40	ND	ND	ND	NT	ND	ND	ND	ND	1200	420	5300	NT	NT	100	260	62	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
GP-8-3	17-Jun-03	14.3	ND	ND	ND	ND	ND	ND	ND	47	180	620	8000	ND	44	ND	220	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-8-3	17-Sep-03	14	ND	ND	2.9	ND	ND	ND	ND	31	200	410	5200	ND	NT	7.4	160	38	ND	ND	ND	ND	ND	45	ND	NT	NT	ND
GP-8-3	18-Dec-03	17	ND	ND	ND	ND	ND	ND	4.7	37	310	510	6900	ND	NT	12	210	46	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND
GP-8-3	11-Mar-04	16	ND	ND	ND	NT	ND	ND	ND	46	430	670	8300	NT	NT	ND	300	44	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
GP-9	11-Mar-04	11	320	220	300	NT	3000	94	ND	ND	2700	ND	510	NT	NT	250	46	ND	67	ND	ND	ND	ND	ND	ND	NT	NT	NT
GP-11-1	18-Dec-03	0.0064	160	2.1	24	ND	ND	ND	ND	ND	ND	2	140	ND	NT	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	6.3
GP-11-1	11-Mar-04	1	320	17	130	NT	81	ND	ND	ND	180	ND	400	NT	NT	22	35	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
GP-11-2	18-Dec-03	26	720	160	970	ND	3600	150	39	ND	3200	40	1500	ND	NT	ND	120	ND	ND	ND	ND	ND	ND	ND	26	NT	NT	ND
GP-11-2	11-Mar-04	30	850	210	1200	NT	4600	200	50	19	4600	69	1600	NT	NT	510	140	27	110	ND	ND	ND	ND	300	33	NT	NT	NT
GP-11-3	18-Dec-03	26	800	130	950	ND	2400	150	55	50	2700	200	2800	ND	NT	420	170	56	64	ND	ND	ND	ND	360	42	NT	NT	ND
GP-11-3	11-Mar-04	27	1000	170	1200	NT	3700	200	72	70	3800	300	4600	NT	NT	590	220	83	110	ND	ND	ND	ND	ND	67	NT	NT	NT
Monitoring Well Casing																												
AW-02A	1-Mar-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	16	2.2	9.3	ND	45	ND	NT	NT	ND

NOTE:
microgram per liter; ppb = parts per billion;
parts per billion by volume; NT = analyte not tested;
ID = analyte not detected at or above the method reporting limit.

Table 1
VOCs Detected in Gas Samples
(ppbv)
Greater Wenatchee Regional Landfill

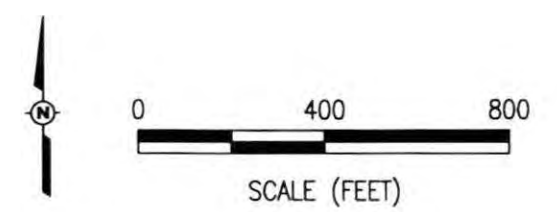
Sample Location	Date Collected	2-Butanone (MEK)	1,2-Dichloro-propane	1,4-dichloro-benzene	Aceto-nitrile	Acrolein	Carbon Disulfide	Chloro-benzene	Cumene	Ethanol	4-Ethyl-toluene	n-Hexane	2-Hexanone	Iso-propyl Alcohol	4-Methyl-2-pent-anone	Naph-thalene	n-Nonane	Propane	2-Propanol	Styrene	1,2,4-Trimethyl-benzene	1,3,5 Trimethyl benzene	Vinyl Acetate	1,2-Di-chloro-benzene
<u>Landfill Gas Flare and Title V NMOC Study</u>																								
Composite (4-MS-IN2)	22-Jan-04	4370	ND	61.6	ND	NT	NT	32.8	ND	5510	454	2220	NT	NT	250	NT	NT	35200	1440	143	437	162	NT	NT
Composite (5-14,8,9,1)	22-Jan-04	8250	ND	70.2	ND	NT	NT	ND	ND	25700	248	6730	NT	NT	803	NT	NT	42400	6840	227	210	90	NT	NT
<u>Out-of-Waste Push Probes (Near MW-7 and South of Infiltration Area)</u>																								
DP-Infiltration Pond-30'	23-Jan-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
DP-Infiltration Pond-54'	23-Jan-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	77	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
DP-MW-07-101'	23-Jan-04	ND	ND	ND	ND	ND	ND	ND	ND	480	ND	97	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
DP-MW-07-83'	23-Jan-04	ND	ND	ND	ND	ND	ND	ND	ND	610	ND	160	ND	NT	ND	ND	ND	NT	67	ND	ND	ND	ND	NT
<u>LFG Extraction Wells (Trench 1 and 2 Areas)</u>																								
GE-11	11-Mar-04	ND	NT	200	NT	NT	NT	51	320	620000	1100	1600	NT	NT	NT	ND	4000	NT	47000	900	900	370	NT	ND
GE-12	11-Mar-04	870	NT	130	NT	NT	NT	66	330	1400	640	530	NT	NT	NT	ND	3100	NT	280	ND	630	240	NT	20
GE-13	11-Mar-04	6200	NT	680	NT	NT	NT	98	840	62000	3900	630	NT	NT	NT	150	6700	NT	7200	ND	3400	1300	NT	ND
GE-14	11-Mar-04	5700	NT	160	NT	NT	NT	ND	410	260000	1000	1200	NT	NT	NT	ND	4000	NT	15000	780	920	390	NT	ND
GE-15	11-Mar-04	11000	NT	280	NT	NT	NT	ND	370	560000	1400	1400	NT	NT	NT	550	3500	NT	21000	1000	1300	470	NT	ND
GE-16	11-Mar-04	1600	NT	150	NT	NT	NT	110	190	97000	490	1400	NT	NT	NT	260	2200	NT	1400	ND	490	220	NT	33
<u>Landfill Gas Probes</u>																								
GP-4	1-Mar-01	ND	8	ND	NT	NT	ND	ND	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	ND	NT	ND	NT	NT
GP-4	18-Feb-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	500	NT
GP-4	9-May-02	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-4	9-Aug-02	9.9	ND	ND	1.3	1.4	ND	ND	ND	12	ND	ND	0.47	3.6	0.35	0.89	ND	NT	ND	ND	0.86	ND	ND	NT
GP-4	4-Dec-02	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-4	17-Mar-03	3.1	ND	ND	ND	ND	0.63	ND	0.42	ND	0.46	ND	ND	ND	ND	1.5	0.58	NT	ND	0.4	3.8	1.2	ND	NT
GP-4	17-Jun-03	12	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	0.97	NT	
GP-4	17-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-8-1	17-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1500	ND	NT	ND	ND	270	NT	ND	ND	ND	ND	ND	NT
GP-8-1	18-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700	ND	NT	ND	ND	240	NT	ND	ND	ND	ND	ND	NT
GP-8-1	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	ND	ND	ND	2100	NT	NT	NT	ND	760	NT	ND	ND	ND	ND	NT	ND
GP-8-2	17-Sep-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	750	ND	NT	ND	ND	89	NT	ND	ND	ND	ND	ND	NT
GP-8-2	18-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	990	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-8-2	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	ND	ND	ND	1100	NT	NT	NT	ND	170	NT	ND	ND	ND	ND	NT	ND
GP-8-3	17-Jun-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-8-3	17-Sep-03	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	ND	NT	ND	ND	21	NT	ND	ND	ND	ND	ND	NT
GP-8-3	18-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-8-3	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	ND	ND	ND	77	NT	NT	NT	ND	ND	NT	ND	ND	ND	ND	NT	ND
GP-9	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	ND	ND	ND	320	NT	NT	NT	ND	470	NT	ND	ND	ND	ND	NT	ND
GP-11-1	18-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-11-1	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	ND	ND	ND	87	NT	NT	NT	ND	ND	NT	ND	ND	ND	ND	NT	ND
GP-11-2	18-Dec-03	ND	ND	ND	ND	ND	390	ND	21	ND	ND	810	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-11-2	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	23	ND	ND	1000	NT	NT	NT	ND	260	NT	ND	ND	ND	ND	NT	ND
GP-11-3	18-Dec-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1100	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	NT
GP-11-3	11-Mar-04	ND	NT	ND	NT	NT	NT	ND	ND	ND	ND	1400	NT	NT	NT	ND	190	NT	ND	ND	ND	ND	NT	ND
<u>Monitoring Well Casing</u>																								
MW-02A	1-Mar-01	7.8	ND	ND	NT	NT	ND	ND	ND	NT	ND	NT	NT	NT	4.9	NT	ND	NT	ND	1.6	NT	ND	NT	NT
NOTE: ug/L = microgram per liter; ppb = parts per billion; ppbv = parts per billion by volume; NT = analyte not tested; ND = analyte not detected at or above the method reporting limit.																								

FIGURES



EXPLANATION

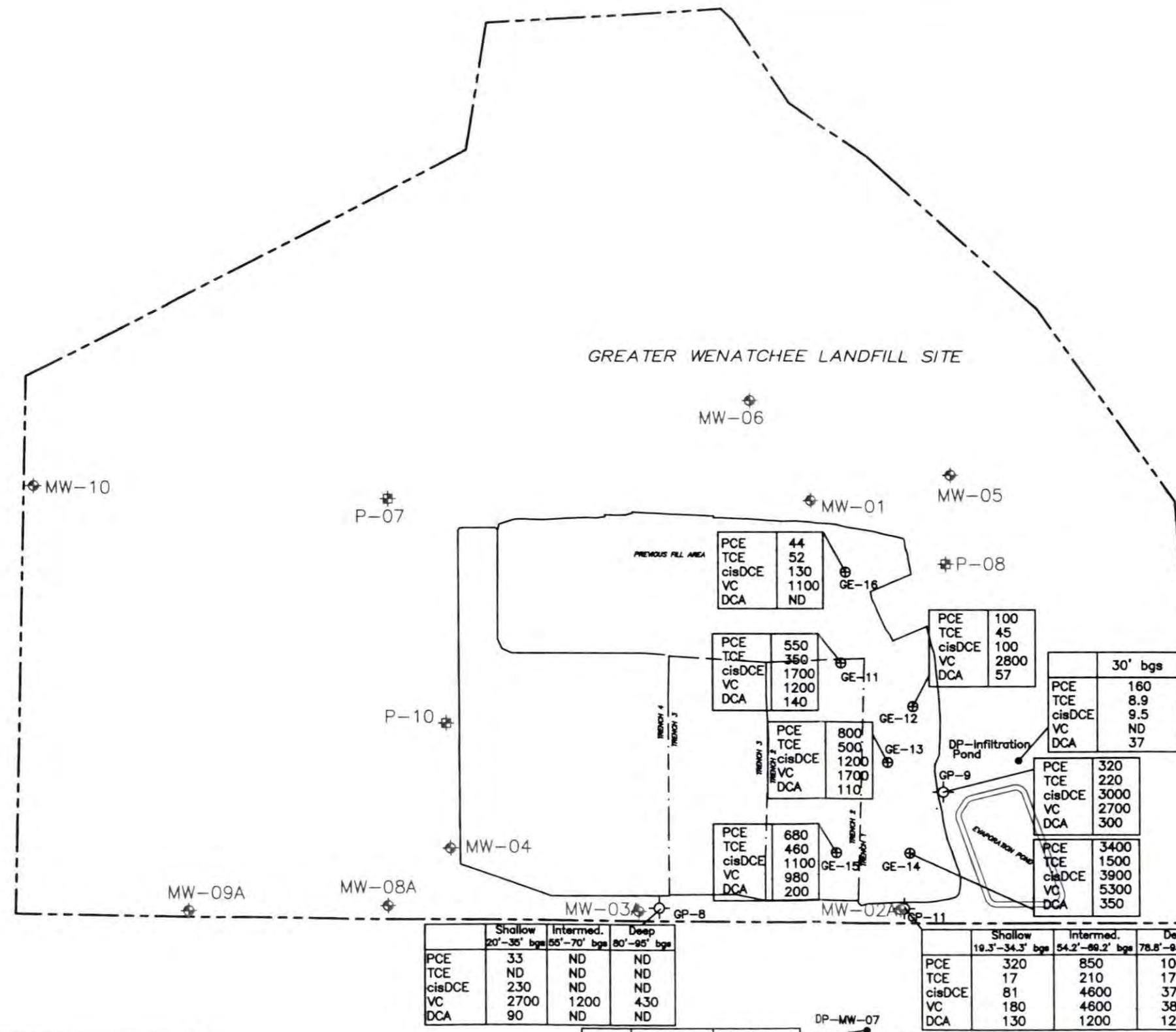
- EXPANSION BOUNDARY
- PERMIT BOUNDARY
- P-07
PIEZOMETER
- MW-04
MONITORING WELL
- GE-16
GAS EXTRACTION WELL
- GP-9
GAS PROBE
- DP-MW-07
DRIVEPOINT SAMPLE
- B-1A, B-8, B-9, GT-4, C-11, C-12
TDEM SURVEY POINT, CONDUCTED BY NORTHWEST GEOPHYSICAL ASSOCIATES (NGA), 2003.
- GEOLOGIC CROSS SECTION LOCATION



DATE 03/13/04
 DWN DPH
 APP LJC
 REV
 PROJECT NO. 842544

FIGURE 1
 GREATER WENATCHEE REGIONAL LANDFILL
 EAST WENATCHEE, WASHINGTON
 MONITORING WELL, GAS PROBE, AND
 GAS EXTRACTION WELL LOCATIONS

File: N:\Projects\Waste Management\845299\Drawings\BTR\WRL\gpcscnca_04.dwg Layout: 11x17 400 Site Geology User: john.della May 04, 2004 1:28pm

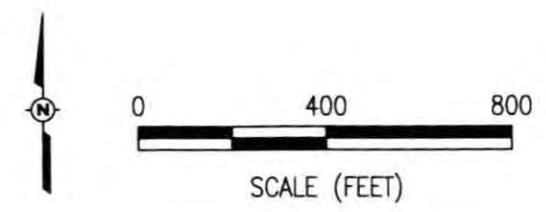


EXPLANATION

- EXPANSION BOUNDARY
- PERMIT BOUNDARY
- P-07 PIEZOMETER
- MW-04 MONITORING WELL
- GE-16 GAS EXTRACTION WELL
- GP-9 GAS PROBE
- DP-MW-07 DRIVEPOINT SAMPLE

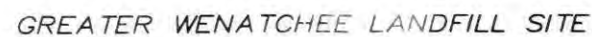
PCE	100	Chlorinated VOC Concentrations
TCE	45	Detected in Groundwater Samples
cisDCE	100	Collected on March 9-11, 2004.
VC	2800	Concentrations Reported in parts
DCA	57	per billion by volume (ppb/v).

PCE = Tetrachloroethene
TCE = Trichloroethene
cisDCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
DCA = 1,1-Dichloroethane
ND = Not Detected at or Above Method Reporting Limits, (MRL=0.5ppb/v).



DATE 03/13/04
DWG DPH
APP LJC
REV
PROJECT NO. 842544

FIGURE 2
GREATER WENATCHEE REGIONAL LANDFILL
EAST WENATCHEE, WASHINGTON
CHLORINATED VOC CONCENTRATIONS
IN GAS SAMPLES



EXPANSION BOUNDARY

— PERMIT BOUNDARY

~~PI~~ P-07 PIEZOMETER

⊕ MW-04 MONITORING WELL

PCE	7.2	Chlorinated VOC Concentrations Detected in Groundwater Samples Collected on March 9-11, 2004. Concentrations Reported in micrograms per liter (ug/L).
TCE	0.94	
cisDCE	2.7	
VC	0.42	
DCA	1.0	

PCE = Tetrachloroethene
TCE = Trichloroethene
cisDCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
DCA = 1,1-Dichloroethane
ND = Not Detected at or Above Method
Reporting Limits.
J = Detected below Method Reporting Limit



0 400 800

SCALE (FEET)



DATE 03/13/04
DWN DPH
APP LJC
REV _____
PROJECT NO. 842544

FIGURE 3
GREATER WENATCHEE REGIONAL LANDFILL
EAST WENATCHEE, WASHINGTON
VOC CONCENTRATIONS IN
GROUNDWATER SAMPLES

Figure 4
Volatile Organic Compounds in MW-01 Groundwater Samples
Greater Wenatchee Regional Landfill

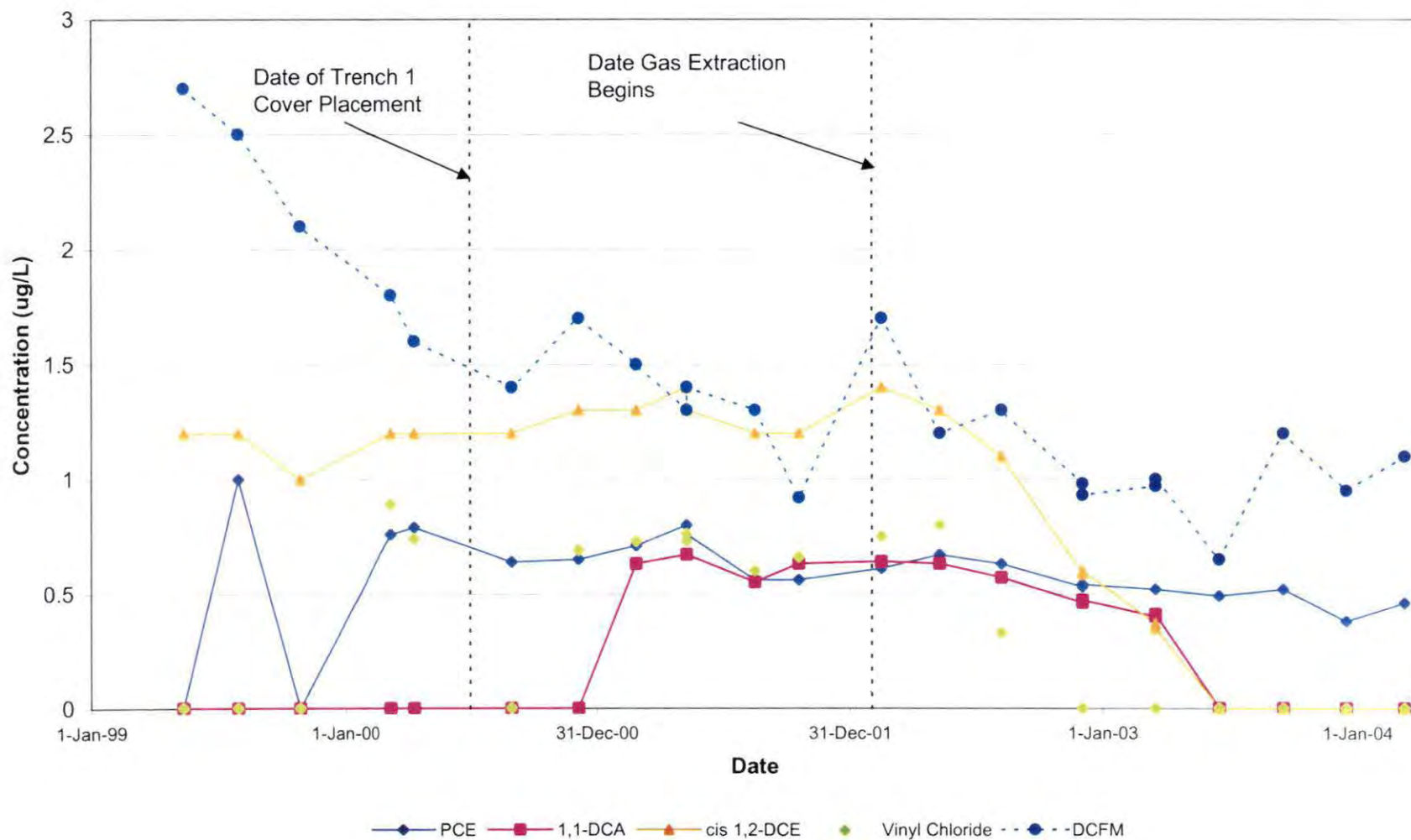
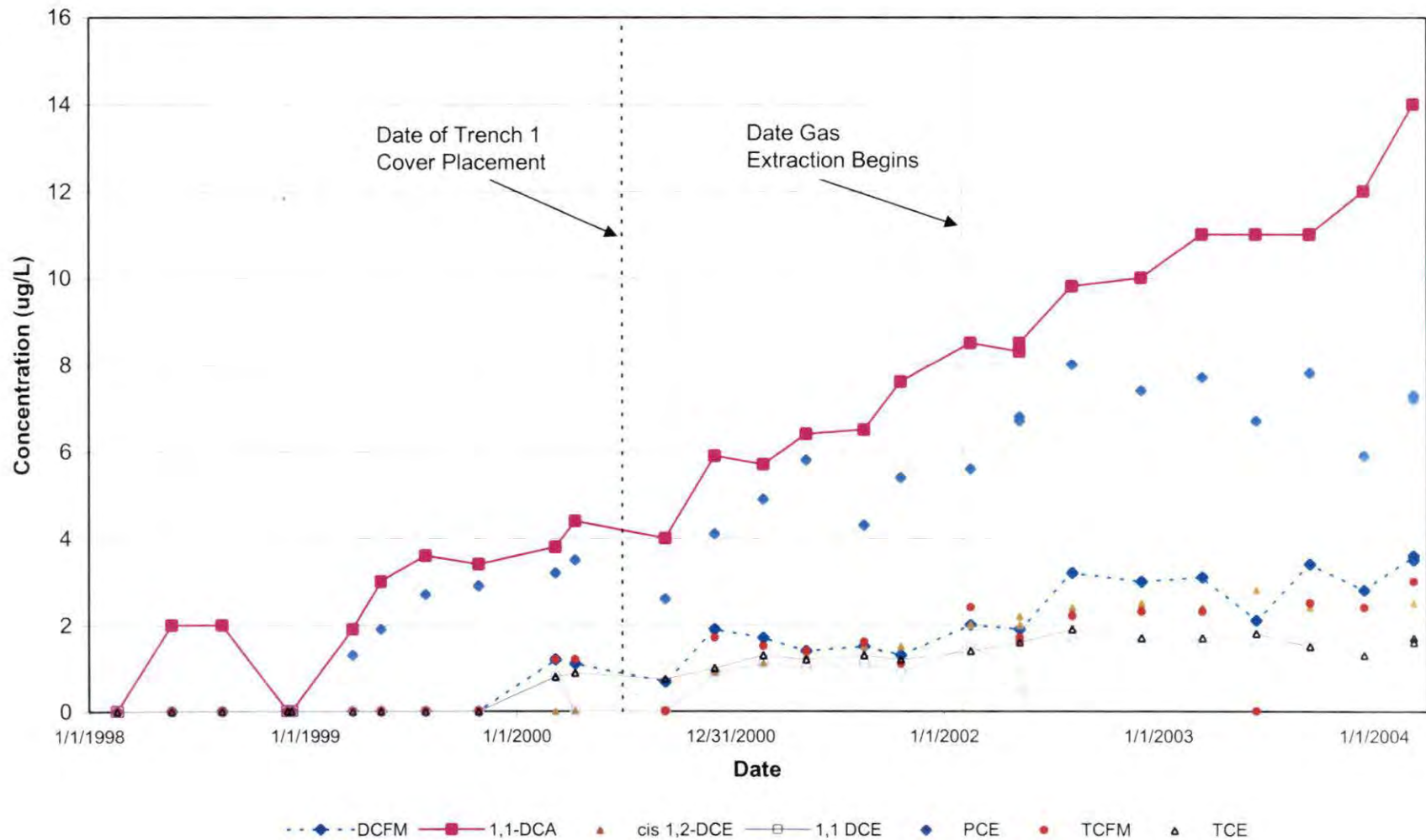
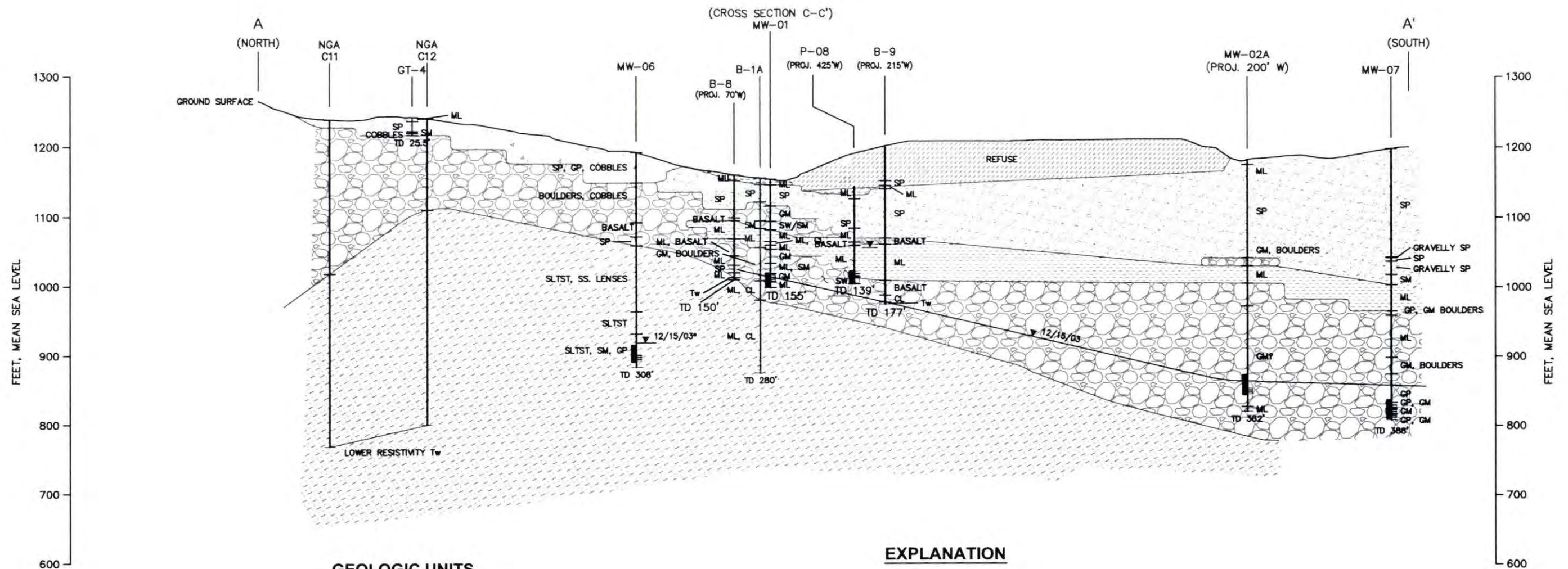


Figure 5
Volatile Organic Compounds in MW-02A in Groundwater Samples
Greater Wenatchee Regional Landfill





GEOLOGIC UNITS

- | | | |
|--|------|--|
| | Qs | SIDESTREAM ALLUVIUM—
SILT PREDOMINANTLY (ML) AND SILTY SAND (SM) |
| | Qogu | GRAVEL OF UPPER BAR—
BEDDED, POORLY SORTED SAND (SP) SILTY SAND (SM), WITH
GRAVELLY AND SILTY LENSES |
| | Qf | ALLUVIAL FAN DEPOSITS—
SILT (ML), SANDY SILT (ML), SILTY SAND (SM), SILTY GRAVEL
(GM), AND BASALT COBBLES AND BOULDERS |
| | Qlsb | LANDSLIDE DEPOSITS—
UNDIFFERENTIATED DEPOSITS COMPOSED OF BASALT BLOCKS, BASALT
BOULDERS AND COBBLES, SUBANGULAR GRAVEL (GP), INCLUDING
WENATCHEE FORMATION SILTSTONE (SLTST), CLAYSTONE (CLST), AND
SANDSTONE (SS), SAND (SP), SILTY SAND (SM), SILT (ML), AND
CLAY (CL). SIGNIFICANT LENSES OF SILT (ML) ARE MAPPED
SEPARATELY. DEPTH OF THE SEPARATE SILT (ML) UNIT INDICATED
BY NGA'S LOWER RESISTIVITY Qlsb1. ISOLATED INTERVALS OF SILTY
GRAVEL (GM) MAY BE INCLUDED IN THE SILT UNIT. |
| | Tw | WENATCHEE FORMATION—
COMPOSED OF TUFFACEOUS SILTSTONE AND SANDSTONE,
LOCALLY CONGLOMERATIC |

EXPLANATION

- | | |
|--------|---|
| | GROUNDWATER POTENTIOMETRIC
SURFACE, MEASURED 12/15/03 |
| | GEOLOGIC CONTACTS |
| | BORING, MONITORING WELL
MW-04A
(PROJECTION TO CROSS SECTION) |
| | TDEM SOUNDING RECEIVER LOCATION
SOUNDING NUMBER
(PROJECTION TO CROSS SECTION) |
| | FILTER PACK — SCREEN
Total Depth 155' |
| TDEM | = TIME DOMAIN ELECTROMAGNETICS |
| GOLDER | = TDEM SURVEY CONDUCTED BY GOLDER ASSOCIATES, 1994.
(1-3 = RECEIVER LOOP LOCATION) |
| NGA | = TDEM SURVEY CONDUCTED BY NORTHWEST GEOPHYSICAL ASSOCIATES, 2003.
(A2 = RECEIVER LOOP LOCATION) |



DATE: 04/20/04
OWN: JDT
APP: LJC
REV: _____
PROJECT NO.
845329

FIGURE 7
GREATER WENATCHEE REGIONAL LANDFILL
EAST WENATCHEE, WASHINGTON
HYDROGEOLOGIC CROSS SECTION A-A'

File: N:\Project\final\wastemanage\845329\Drawings\BTGWRL Benificial Use\FIG4_04final.dwg Layout: Beneficial Use User: john.avila May 04, 2004 - 12:55pm



- EXPLANATION**
- POTENTIOMETRIC SURFACE CONTOUR (FEET AMSL)
(20-FOOT CONTOUR INTERVAL)
 - MW-03A MONITORING WELL
 - P-07 PIEZOMETER
 - WATER WELL (CDHD NUMBERS REFER TO WELLS IDENTIFIED IN THE CDHD 2000 BENEFICIAL USE SURVEY)
 - (1013.74) GROUNDWATER ELEVATION IN FEET MEASURED ON 3/8/2004.
 - (1030.6)* ASTERISK DENOTES ELEVATIONS NOT USED TO CALCULATE POTENTIOMETRIC SURFACE CONTOURS

NOTES:
GROUNDWATER ELEVATION = 895 ft., (Date Unknown)
BASE MAP FROM COMPOSITED WASHINGTON STATE DOT AERIAL PHOTOGRAPHS (6/6/03), NOT CORRECTED FOR RADIAL DISTORTION



DATE	02/24/04
DWN	JDT
APP	LJC
REV	
PROJECT NO.	842544

FIGURE 6
GREATER WENATCHEE REGIONAL LANDFILL
EAST WENATCHEE, WASHINGTON
**POTENTIOMETRIC SURFACE CONTOURS -
(MARCH 2004) AND LOCATION OF
PROPOSED MONITORING WELL MW-11**

Figure 8-1
Volatile Organic Compounds in MW-01 Groundwater Samples
Greater Wenatchee Regional Landfill

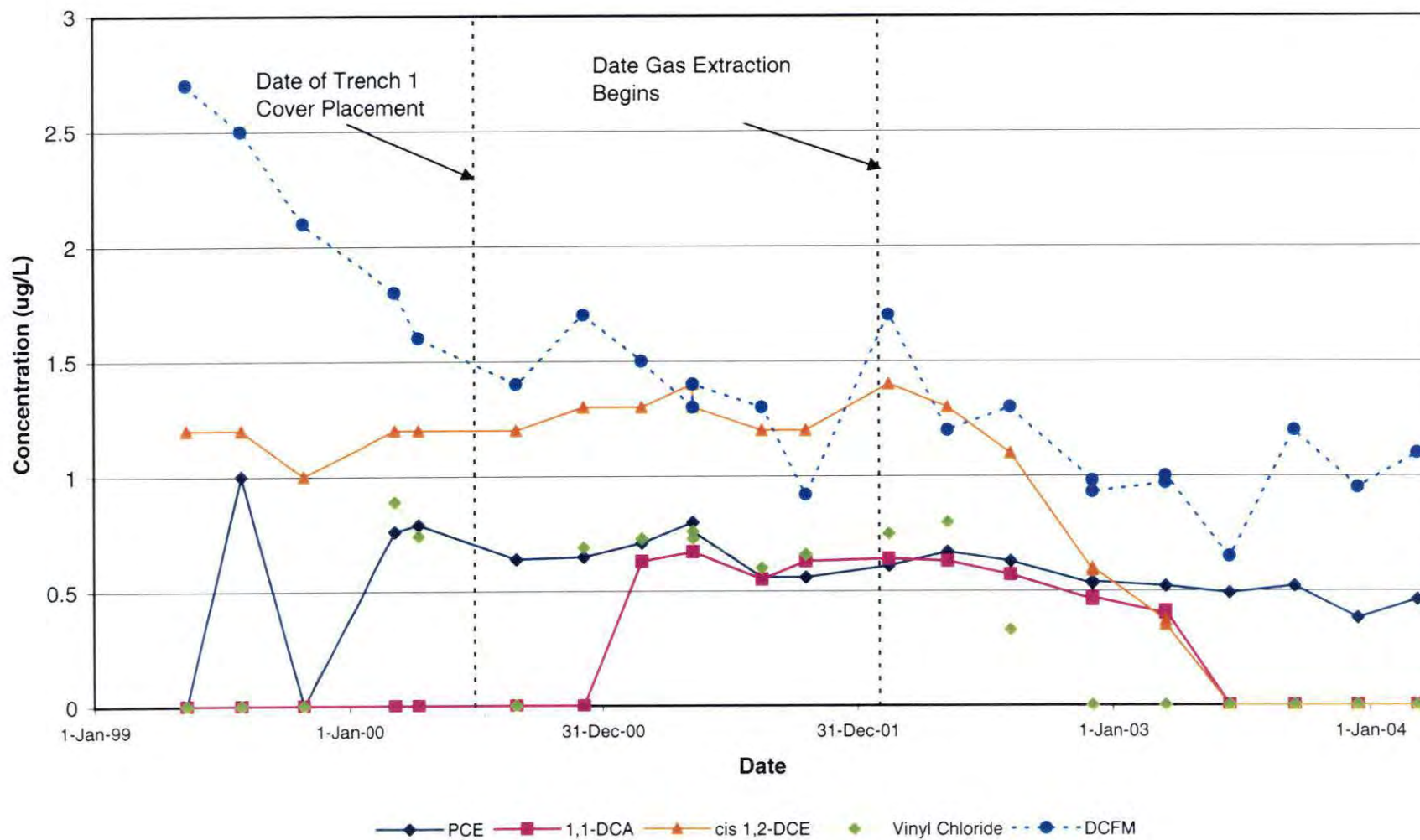
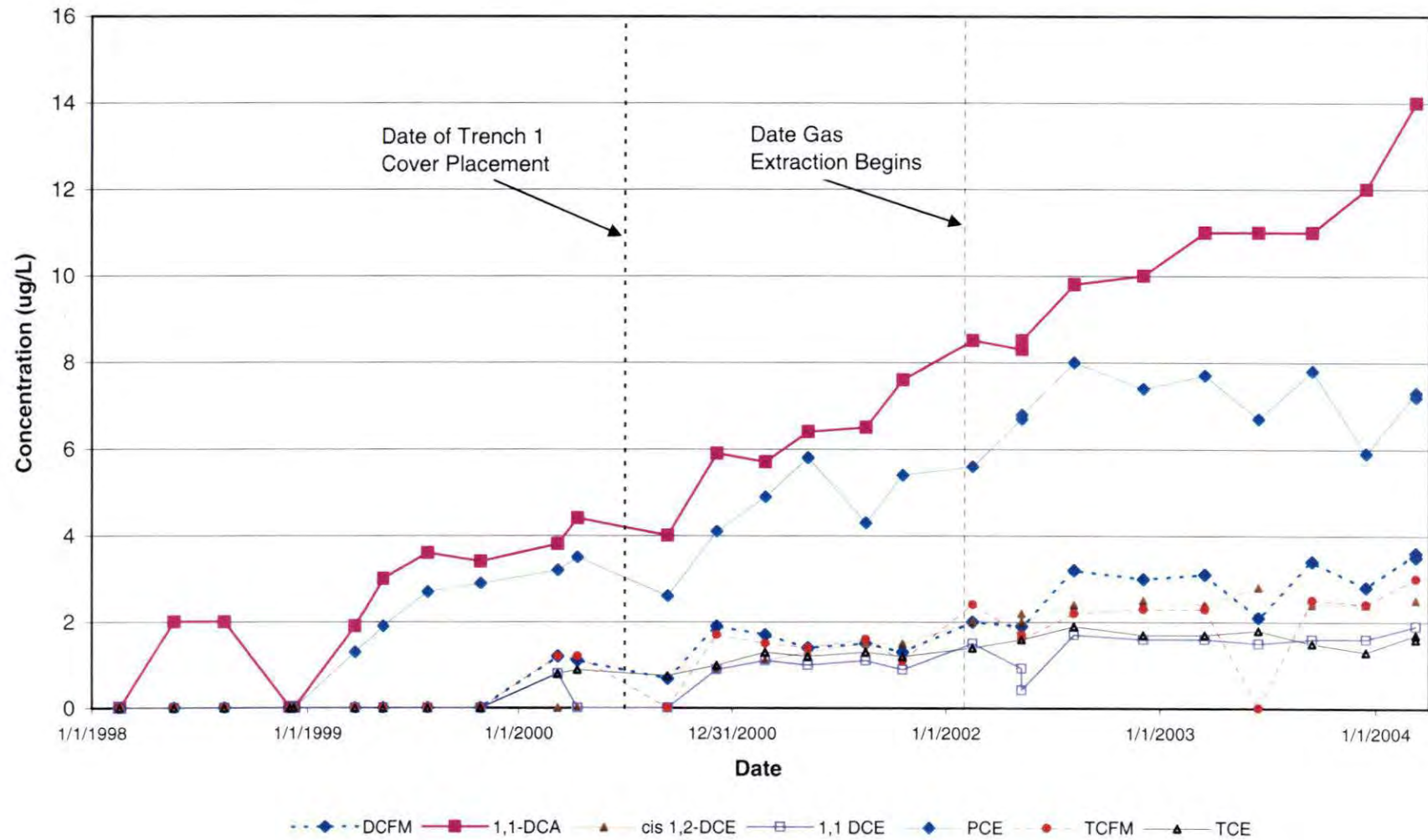


Figure 8-2
Volatile Organic Compounds in MW-02A in Groundwater Samples
Greater Wenatchee Regional Landfill



ATTACHMENT 1
FIELD SAMPLING DOCUMENTATION

**EMCON/OWT, Inc.
Field Report Form**

	Client: <u>Waste Management, Inc</u>	Weather: <u>Sunny, 1065°F</u>
	Project: <u>CEWBL 842544 0100 2004</u>	<u>light 50 wind</u>
Prepared By: <u>Nicole Tursich</u>	Event: <u>1st Quarter Cew Sample</u>	Date: <u>3/09/04</u>
	Address: <u>E. Wenatchee, WA</u>	Arrival: <u>0730</u> Departure: <u>1600</u>
- Talked to Martin Arthurs about extra gas sampling and conducting land fill gas survey - Calibrated pH meter, Conductivity meter, DO meter, and ORP meter - Blasted 1st Quarter Ground Water Sample for Wenatchee Regional Landfill. Collected samples from MW-03A, MW-02A, 1 duplicate @ MW02A, MW05, MW06, 1 field blank from MW06, MW-01 and p-07 - Drove to Fed Ex to drop off samples		

Signed: _____

[Signature]

WASTE MANAGEMENT

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

Laboratory Use Only/Lab ID: D4C10002 WT

030904	14:00	140	150	150	
PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vals Purged" w/ "Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vals Purged". Mark changes, record field data, below.

Purging and Sampling Equipment ... Dedicated: ☒ Y or ☐ N

Purging Device: ☐ C A-Submersible Pump D-Bailer
☒ C B-Peristaltic Pump E-Piston Pump
Sampling Device: ☒ C C-QED Bladder Pump F-Dipper/Bottle

X-Other: _____

Filter Device: ☒ Y or ☐ N ☐ 0.45 μ or ☐ μ (circle or fill in)

Filter Type: ☒ A A-In-line Disposable C-Vacuum
B-Pressure X-Other _____

Sample Tube Type: ☒ C A-Teflon C-PVC X-Other: _____
B-Stainless Steel D-Polypropylene

Well Elevation (at TOC)	115193	(ft/msl)	Depth to Water (DTW) (from TOC)	141790/352	(ft)	Groundwater Elevation (site datum, from TOC)		(ft/msl)
Total Well Depth (from TOC)	15150	(ft)	Stick Up (from ground elevation)		(ft)	Casing ID	2	(in)
						Casing Material	PVC	

Note: Total Well Depth, Stick Up, Casing ID, etc. are optional and can be from historical data, unless required by State Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

[illegible]

Suggested range for 3 consec. readings or
note Permit/State requirements:

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheets or forms.

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
030904	6.84	967	19.5		1.12	190.4	

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site)

Sample Appearance: Clear Odor: — Color: colorless Other: _____
Weather Conditions (required daily, or as conditions change): Direction/Speed: 5 to 10 K E Outlook: Some clouds Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Low Flow Purge method. Purge rate is $\sim 30 \text{ mL/min}$
Sample Time $\rightarrow 14:30$

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

3.09.04 Nicole Torsich *Nicole Torsich* Emmaus PA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

STL-8029WM R: 12/00

FIELD INFORMATION FORM



Site Name: Greener Watchtower
 Site No.: 904 Sample Point: mw02A
 Sample ID: mw02A

This Waste Management Field Information Form is Required
 This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 2440000-03

PURGE INFO: 03/09/04 10:15 1:00 1:25
 PURGE DATE (MM DD YY) PURGE TIME (2400 Hr Clock) ELAPSED HRS (hrs:min) WATER VOL IN CASING (Gallons) ACTUAL VOL PURGED (Gallons) WELL VOLS PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT: Purging and Sampling Equipment ... Dedicated: Y or N Filter Device: Y or N 0.45 or μ (circle or fill in)
 Purging Device: C A-Submersible Pump D-Bailer Filter Type: A A-In-line Disposable C-Vacuum
 Sampling Device: C B-Peristaltic Pump E-Piston Pump B-Pressure X-Other
 C-QED Bladder Pump F-Dipper/Bottle
 X-Other: Sample Tube Type: C A-Teflon C-PVC X-Other:
 B-Stainless Steel D-Polypropylene

WELL DATA: Well Elevation (at TOC) 1176.04 (ft/msl) Depth to Water (DTW) (from TOC) 315.51 (ft) Groundwater Elevation (site datum, from TOC) 1010 (ft/msl)
 Total Well Depth (from TOC) 3400.0 (ft) Stick Up (from ground elevation) Casing ID 2 (in) Casing Material PC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (umhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:17	0.0	75.1	397	18.1		764	273.4	315.51
10:25	0.5	74.2	396	17.2		674	290.1	315.56
10:27	0.25	76.5	396	17.2		680		315.57
10:30	1.00	78.3	395	17.2		780	300.2	315.57
10:38	1.25	78.6	394	17.2		835	293.0	315.57
10:34	1.50	78.7	395	17.1		844	301.2	315.57
10:37	1.75	78.8	394	17.2		853	298.3	315.57
11:15								315.57

Suggested range for 3 consec. readings or note Permit/State requirements:

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA: SAMPLE DATE (MM DD YY) 03/09/04 pH (std) 78.0 CONDUCTANCE (umhos/cm @ 25°C) 394 TEMP. (°C) 17.2 TURBIDITY (ntu) 8.53 DO (mg/L-ppm) 298.3 eH/ORP (mV) 298.3 Other: Units
 Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site).

Sample Appearance: clear Odor: none Color: colorless Other:
 Weather Conditions (required daily, or as conditions change): Direction/Speed: light Outlook: partly cloudy Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

Low Flow purge method. Purge rate is ~ 300mls/pulse
Sample Time is 1040

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

3.9.04 Nicole Tirsch Nicole Tirsch Emicon/WMT, Inc.
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

EMCON/OWT, Inc.
Field Report Form



EMCON/OWT, Inc.

Client: West, Marymont, Inc.
Project: 842544 01002004

Weather: Sunny, ~65°F

Event: 1st Quarter Monitoring Report

Date: 3/10/04

Prepared By:

Nicole Turcich

Address: 2001 Greater Wrentham
G. Wrentham, WA

Arrival: 0800, 1200

Departure: 1600, 1830

- Finished 1st Quarter Groundwater monitoring event and sampling new wells including MW-07, MW-08, MW-09, and MW-10
- Sampled calibrated pH meter, conductivity meter, DO probe, and ORP meter
- Sampled MW-04, 1 field Blank near MW-04, MW-07, 1 duplicate at MW-07, MW-08, MW-09, and MW-10.
- Surveyed # of houses within 2000' of Greater Wrentham regional landfill

Signed:

[Signature]

FIELD INFORMATION FORM



Site Name: Granta Wastewater
 Site: 964 Sample Point: mw02
 Sample ID: mw02

This Waste Management Field Information Form is Required
 This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: WJ010213-12

PURGE INFO: 03/10/04 10:55 1:00 4 150
 PURGE DATE (MM DD YY) PURGE TIME (24Hr Hr Clock) ELAPSED HRS (hrs:min) WATER VOL IN CASING (Gallons) ACTUAL VOL PURGED (Gallons) WELL VOLs PURGED

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT: Purging and Sampling Equipment ... Dedicated: Y or N Filter Device: Y or N 0.45 µ or µ (circle or fill in)
 Purging Device: C A-Submersible Pump D-Boiler Filter Type: A A-In-line Disposable C-Vacuum
 Sampling Device: C B-Peristaltic Pump E-Piston Pump B-Pressure X-Other
 X-Other: Sample Tube Type: C A-Teflon C-PVC X-Other:
 B-Stainless Steel D-Polypropylene

WELL DATA: Well Elevation (at TOC) 3877.0 (ft/msl) Depth to Water (DTW) (from TOC) 342.55 (ft) Groundwater Elevation (site datum, from TOC) 342.55 (ft/msl)
 Total Well Depth (from TOC) 3877.0 (ft) Stick Up (from ground elevation) 4 (ft) Casing ID 4 (in) Casing Material PVC
 Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:57	0.01"	8.00	450	14.0		10.14	281.3	342.55
11:05	0.50"	7.94	448	14.9		8.71	280.1	342.55
11:07	0.75"	7.98	449	14.8		8.60	279.5	342.55
11:11	1.00"	7.96	449	15.2		8.01	278.2	342.55
11:14	1.25"	7.93	450	15.2		8.07	284.5	342.55
11:18	1.50"	7.92	450	15.5		8.16	285.9	342.55
2:00								342.55

Suggested range for 3 consec. readings or note Permit/State requirements:

+/- 0.2

+/- 3%

+/- 10%

+/- 25 mV

Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA: SAMPLE DATE (MM DD YY) 03/10/04 pH (std) 7.92 CONDUCTANCE (µmhos/cm @ 25 °C) 450 TEMP. (°C) 15.5 TURBIDITY (ntu) 8.16 DO (mg/L - ppm) 285.9 Other: Units

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site).

Sample Appearance: Clear Odor: — Color: Colorless Other: —
 Weather Conditions (required daily, or as conditions change): Direction/Speed: Light SE Outlook: Partly, 65°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Low flow purge method. Purge rate is ~ 3000 L/min
 Sample time is 11:20
 Compressor Set @ 6.5 E Pressure @ 220 psi

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

3/10/04 Nick Tan John Tan Chen/for
 Date Name Signature Company

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

**EMCON/OWT, Inc.
Field Report Form**

	Client: <u>West Manganese, Inc.</u>	Weather: <u>Sunny, ~65°F</u>
	Project: <u>842544</u>	
Prepared By: <u>Nicole Turcich</u>	Event: <u>1st Quarter 2004 Sampling P-8 16AS Analysis</u>	Date: <u>3/11/04</u>
	Address: <u>600 collection</u>	Arrival: <u>0800</u>
	<u>E. Wenatchee, WA</u>	Departure: <u>20:30</u>
- Drove to Site - Sampled P-8 using disposable barrel and reel. - Calibrated pH meter, conductivity meter, DO meter, and ORP meter. - Conducted 1st Quarter landfill gas monitoring in gas probes, also checked gas extractors, and chimney vents used. 66m500 <u>66m500</u> Grinn <u>Grinn</u> Greater Wenatchee <u>Greater Wenatchee</u>. Calibrated 66m500 using 50% CH₄, 35% CO₂, 0% O₂, 4% O₂, and ambient O₂ concentration (20.9%). - Collected gas samples from 66-11, 66-12, 66-13, 66-14, 66-15, 66-16, BP-8 <u>BP-8</u> shallow, BP-8 <u>BP-8</u> intermediate, BP-8 <u>BP-8</u> deep, MS-11 <u>MS-11</u> shallow, BP-11 <u>BP-11</u> intermediate, BP-11 <u>BP-11</u> deep, and BP-9 <u>BP-9</u>.		

Signed: _____

[Signature]

WASTE MANAGEMENT

PURGE INFO	[3][1][1][0][4]	[9][2][0]	[4][5][0]	[] [] [7][7]	[] [] [2][3][1][0]	[3]			
	PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLS PURGED			
Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.									
PURGE/SAMPLE EQUIPMENT	Purging and Sampling Equipment ... Dedicated: ☒ Y or ☐ N			Filter Device: ☒ Y or ☐ N ☒ 0.45 µ or ☐ µ (circle or fill in)					
	Purging Device: ☒ D	A-Submersible Pump	D-Bailer	Filter Type: ☒ A	A-In-line Disposable	C-Vacuum			
	Sampling Device: ☒ D	B-Peristaltic Pump	E-Piston Pump		B-Pressure	X-Other _____			
	X-Other: _____	C-QED Bladder Pump	F-Dipper/Bottle		A-Teflon	C-PVC X-Other: _____			
			Sample Tube Type: _____	B-Stainless Steel	D-Polypropylene				
WELL DATA	Well Elevation (at TOC) [1][1][4][5][6][1] (ft/msl)	Depth to Water (DTW) (from TOC) [] [] [9][2][3][1] (ft)	Groundwater Elevation (site datum, from TOC) [] [] [] [] [] [] (ft/msl)						
	Total Well Depth (from TOC) [1][3][9][5][0] (ft)	Stick Up (from ground elevation) [] [] [] [] [] [] (ft)	Casing ID [] [] [] (in)	Casing Material	[PK]				
Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.									
DATA (Optional) STABILIZ.	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	[9]:30	0.0	1 st 8.59	1 st 453	13.3		4.24	30160	92.3
	10:42	7.7	2 nd 7.34	2 nd 951	14.3		2.12	2967	
	12:05	5.4	3 rd 7.37	3 rd 984	14.4		2.88	298.4	
	12:40	19.0	4 th 7.29	4 th 979	15.4		2.09	292.6	
	13:55	23.10	7.32	979	15.1		2.63	284.1	81
	14:10								92.3
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize	
Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.									
FIELD DATA	SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units	
	[3][1][1][6][4]	[7][3][2]	[] [] [9][7][9]	[1][5][1]		[2][6][3]	[2][8][4].1		
Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site).									
Sample Appearance: <u>clear</u>		Odor: <u>-</u>		Color: <u>colorless</u>		Other: _____			
Weather Conditions (required daily, or as conditions change):		Direction/Speed: <u>N/E</u>		Outlook: <u>Sunny ~65°F</u>		Precipitation: <u>Y</u> or <u>N</u>			
Specific Comments (including purge/well volume calculations if required):									
139.5 - 92.31 = 47.19 x 0.163 = 7.69 + 3 = 23.08 Sample Time is 1355 Used Disposable bailer for purging.									
I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign): [Signature] [Signature] [Signature] Date: []/[]/[] Name: [] Signature: [] Company: []									

EMCON/OWT, Inc.
Field Report Form

	Client: WMI	Weather: ~60°F light NE wind
	Project: GWRL	
	Event: 1st @ 2004 LFG monitoring	Date: 3/11/04
Prepared By: Nicole Turcich	Address: E. Wenatchee, WA	Arrival:
		Departure:

- GP- 8 -1 shallow - purged for 240 seconds
collected sample in Summa Cistern @ 1830
- GP- 8 -2 intermediate - purged for 660 seconds
collected sample in Summa Cistern @ 1840
- GP- 8 -3 deep - purged for ~960 seconds
collected sample in Summa Cistern @ 1900
- GP- 9 purged for 100 seconds
collected sample in Summa Cistern @ 20:00

Signed: _____

Nicole Turcich

LFG Probe and Structure Monitoring Field Form
Greater Wenatchee Regional Landfill

Date: 3/11/04

Sampler: N1

LFG Monitor

Model/ Serial #: Landtec Gem-500 16115

Calibration and Procedure: Calibrated Gem to 50% CH₄, 0% eth, 35% CO₂, 6% O₂, 4% O₂ and ambient O₂ (20.9)

Record pressure of Gem before measuring pressure in each probe. Purged probes for ~180 s. Purged deeper probes 7/180s

Weather Conditions

Temperature: ~65°F

Precipitation: No

Wind Speed/ Direction: NE / 8mph

Barometric Pressure: 29.06 in

Probe Location	Time	Pressure (Inches of Water)	Methane Concentration (%)	Oxygen Concentration (%)	Carbon Dioxide Concentration (%)
GP-1	18:03	0.00"	0%	18.8 ± 0.1%	1.2%
GP-2	20:17	0.1"	0	18.1	2.6
GP-3	17:21 19:06	0.00" / 0.1"	0%	12.6 ± 0.1%	7.8%
GP-4	18:04	0.00"	0%	17.6 ± 0.1%	17.6 ± 0.1%
GP-5	19:08	0.00"	0%	20.8%	0%
GP-6	19:50	0.00"	0%	20.6%	0.3%
GP-7	20:05	0.1"	0	19	0.9
GP-8-1	18:20	0.1"	50.3 ± 0.1%	32.6 ± 0.1%	32.6 ± 0.1%
GP-8-2	18:32	1.6"	37.5 ± 0.1%	11.8 ± 0.1%	11.8 ± 0.1%
GP-8-3	18:40	1.8"	15.6 ± 0.1%	0%	6.0 ± 0.1%
GP-9	19:55	0.5"	8.8 ± 0.1%	0%	25.1 ± 0.1%
GP-10	18:30	0.3"	0	18.8	3.5

GP-11 - ON ~~OFF~~ SHUT with GE Data

Structure Location	Methane Concentration (%)	Dedicated Detection Monitor Operational
Maintenance Building	15:45 / 0% ^{CO₂ 0%}	☒ Yes ☐ No
Office	15:35 / 0% ^{O₂ 20.6%}	☒ Yes ☐ No

CO₂ = 0%
O₂ = 20.9%

EMCON/OWT, Inc.
Field Report Form

	Client: WMI	Weather: Sunny, ~60°F light NE wind
	Project: 6WRL	
Prepared By: Nicole Turch	Event: 1st Q 2004 LEL monitoring	Date: 3/11/04
	Address: C. Wente, WA	Arrival: Departure:

GE-11 CH₄ 65.5 ± 0.1% CO₂ 34.4 ± 0.1% O₂ 0% Time 16:18 Pressure 15 static -21.1

Collected gas sample in Summa canister @ 16:30

GE-12 CH₄ 49% ± 0.1% CO₂ 36.1 ± 0.2% O₂ 0% Time 16:33 Pressure static -21.0 0.00 0.00

Collected gas sample in Summa canister @ 16:37

GE-13 CH₄ 59.9 ± 0.1% CO₂ 39.2 ± 0.1% O₂ 0% Static Pressure -21.0 -20.4 +2.04 @ 16:42

Collected gas sample in Summa canister @ 16:50

GE-14 CH₄ 53.8 ± 0.1% CO₂ 36.5 ± 0.1% O₂ 0% Static Pressure 0 Pressure -0.2 +6.20 16:54

Collected gas sample in Summa canister @ 17:00

GE-15 CH₄ 57.5 ± 0.1% CO₂ 37.3 ± 0.1% O₂ 0% Pressure static -20.4 17:20

Collected gas sample in Summa canister @ 17:23

GE-16 CH₄ 42.3 ± 0.1% CO₂ 32.9 ± 0.2% O₂ 0.3% 0.0 1938

Collected gas sample in Summa canister 1940

	CH ₄	CO ₂	O ₂	Pressure	Time	A
GP-11 - Shallow	1.2%	21.4 ± 0.1%	0%	0.6"	1733	40s
GP-11 Inten	29.5 ± 0.1%	29.6 ± 0.1%	0%	0.4"	1742	48s
GP-11 Deep	27.1 ± 0.1%	26.3 ± 0.2%	0%	1.6"	1759	60s

Collected Summa canisters of GP-11 Shallow @ 1740

GP-11 Inten @ 1745

GP-11 Deep @ 1807

Signed:

[Signature]

ATTACHMENT 2
LABORATORY REPORTS AND QA/QC RESULTS

**GROUNDWATER SAMPLES
(MARCH 2004)**

SEVERN
TRENT

STL

STL Denver

4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

Project No. Site 904

Greater Wenatchee

Lot #: D4C100202

Final Report
Groundwater

Reported to:

Steve Wulf

Waste Management, Inc.
Greater Wenatchee
191 South Webb Road
East Wenatchee, WA 98802

Cc: Jason Davendonis

STL DENVER



Betsy Farnaus
Project Manager

April 19, 2004

Case Narrative

Enclosed is the report for nine samples received at STL Denver laboratory on March 10, 2004. The results included in this report have been reviewed for compliance with STL's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

This report may include data with reporting limits (RLs) less than STL Denver's standard reporting limit. These data and reporting limits are being used specifically to meet the needs of this project. Note that, data are not customarily reported to these levels because they are inherently less reliable and potentially less defensible than the latest industry standards require.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver 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. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D4C100202

Sample Receiving

- The cooler temperatures upon receipt at the Denver laboratory were 4.2°C and 2.3°C.
- One of the two VOA vials received for the sample MW-06 had approximately 8 mm of headspace, however two VOA vials without headspace remained for Method 8260B analysis. The client was notified.
- All other sample containers were received in acceptable condition.

Holding Times

- All holding times were met.

Method Blanks

- Dissolved Antimony Method 6020, Dissolved Copper Method 6010B and Chloride Method 300.0A were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

Lot #: D4C100202

- Dissolved Beryllium Method 6010B was detected in the Method Blank above the project established reporting limit, however, the requested reporting limit for Dissolved Beryllium is below STL's standard reporting limit and, therefore, no corrective action has been taken for this anomaly. It must be noted that results reported below STL's standard reporting limits may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations.
- All other Method Blanks were within established control limits.

Laboratory Control Samples

- All Laboratory Control Sample recoveries were within established control limits.

Matrix Spike Samples

- All Matrix Spike and Matrix Spike Duplicate recoveries were within established control limits.

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DUP1 03/09/04 08:00 001				
Antimony - DISSOLVED	0.062 B,J	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.5	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	0.91 B	10	ug/L	SW846 6020
Iron - DISSOLVED	110	30	ug/L	SW846 6010B
Magnesium - DISSOLVED	20000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	17000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	6.4 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	40000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	4.3 B	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	36 B	50	ug/L	SW846 6010B
Zinc - DISSOLVED	7.8 B	20	ug/L	SW846 6010B
Potassium - DISSOLVED	6900	5000	ug/L	SW846 6010B
Copper - DISSOLVED	4.0 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.2 J	0.50	ug/L	SW846 6010B
Chloroform	0.39 J	0.62	ug/L	SW846 8260B
Dichlorodifluoromethane	3.5	0.57	ug/L	SW846 8260B
1,1-Dichloroethane	14	0.74	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.5	0.59	ug/L	SW846 8260B
1,1-Dichloroethene	1.9	0.59	ug/L	SW846 8260B
Methylene chloride	1.2 J	1.7	ug/L	SW846 8260B
Tetrachloroethene	7.2	0.45	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.43 J	0.65	ug/L	SW846 8260B
Trichloroethene	1.6	0.54	ug/L	SW846 8260B
Trichlorofluoromethane	3.0	1.1	ug/L	SW846 8260B
Specific Conductance	400	2.0	umhos/cm	MCAWW 120.1
pH	8.0	0.10	No Units	MCAWW 150.1
Total Dissolved	260	5.4	mg/L	MCAWW 160.1
Solids				
Chloride	1.7 J	0.50	mg/L	MCAWW 300.0A
Sulfate	15	5.0	mg/L	MCAWW 300.0A
Nitrate	3.7	0.050	mg/L	MCAWW 300.0A
Hardness,	180	5.0	mg/L	SM18 2340B
as CaCO3				
Ion Balance	6.3	--	%	SM18 1030F & API
Difference				
Total Anions	4.0	0.30	meq/L	SM17 1030F & API
Total Cations	4.6	0.10	meq/L	SM17 1030F & API
Bicarbonate	170	10	mg/L	MCAWW 310.1
Alkalinity				
Total Alkalinity	170	5.0	mg/L	MCAWW 310.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-03A 03/09/04 09:45 002				
Antimony - DISSOLVED	0.052 B,J	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	2.7	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	0.91 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	0.33 B	1.0	ug/L	SW846 6020
Magnesium - DISSOLVED	17000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	19000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	11 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	36000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	6.4	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	37 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	5600	5000	ug/L	SW846 6010B
Copper - DISSOLVED	3.6 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.3 J	0.50	ug/L	SW846 6010B
Specific Conductance	390	2.0	umhos/cm	MCAWW 120.1
pH	7.9	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	260	5.4	mg/L	MCAWW 160.1
Total Suspended Solids	3.0	3.0	mg/L	MCAWW 160.2
Chloride	2.1 J	0.50	mg/L	MCAWW 300.0A
Sulfate	25	5.0	mg/L	MCAWW 300.0A
Nitrate	3.2	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	160	5.0	mg/L	SM18 2340B
Ion Balance Difference	1.9	--	%	SM18 1030F & API
Total Anions	4.0	0.30	meq/L	SM17 1030F & API
Total Cations	4.2	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	160	10	mg/L	MCAWW 310.1
Total Alkalinity	160	5.0	mg/L	MCAWW 310.1
MW-02A 03/09/04 10:40 003				
Antimony - DISSOLVED	0.15 B,J	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.4	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	1.1 B	10	ug/L	SW846 6020
Magnesium - DISSOLVED	19000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	16000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	6.6 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	40000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	3.1 B	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	35 B	50	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-02A 03/09/04 10:40 003				
Potassium - DISSOLVED	6500	5000	ug/L	SW846 6010B
Copper - DISSOLVED	3.6 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.0 J	0.50	ug/L	SW846 6010B
Chloroform	0.38 J	0.62	ug/L	SW846 8260B
Dichlorodifluoromethane	3.6	0.57	ug/L	SW846 8260B
1,1-Dichloroethane	14	0.74	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.5	0.59	ug/L	SW846 8260B
1,1-Dichloroethene	1.9	0.59	ug/L	SW846 8260B
Methylene chloride	1.0 J	1.7	ug/L	SW846 8260B
Tetrachloroethene	7.3	0.45	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.42 J	0.65	ug/L	SW846 8260B
Trichloroethene	1.7	0.54	ug/L	SW846 8260B
Trichlorofluoromethane	3.0	1.1	ug/L	SW846 8260B
Specific Conductance	400	2.0	umhos/cm	MCAWW 120.1
pH	7.9	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	260	5.4	mg/L	MCAWW 160.1
Chloride	1.7 J	0.50	mg/L	MCAWW 300.0A
Sulfate	15	5.0	mg/L	MCAWW 300.0A
Nitrate	3.7	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	170	5.0	mg/L	SM18 2340B
Ion Balance Difference	4.7	--	%	SM18 1030F & API
Total Anions	4.0	0.30	meq/L	SM17 1030F & API
Total Cations	4.4	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	170	10	mg/L	MCAWW 310.1
Total Alkalinity	170	5.0	mg/L	MCAWW 310.1
Chemical Oxygen Demand (COD)	7.5 B	10	mg/L	MCAWW 410.4
01FB 03/09/04 13:10 004				
Antimony - DISSOLVED	0.042 B,J	0.60	ug/L	SW846 6020
Potassium - DISSOLVED	680 B	5000	ug/L	SW846 6010B
Copper - DISSOLVED	3.2 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.2 J	0.50	ug/L	SW846 6010B
Specific Conductance	1.6 B	2.0	umhos/cm	MCAWW 120.1
pH	6.9	0.10	No Units	MCAWW 150.1
Total Anions	0.040 B	0.30	meq/L	SM17 1030F & API
Total Cations	0.020 B	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	1.9 B	10	mg/L	MCAWW 310.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
01FB 03/09/04 13:10 004				
Total Alkalinity	1.9 B	5.0	mg/L	MCAWW 310.1
Chemical Oxygen Demand (COD)	31	10	mg/L	MCAWW 410.4
MW-05 03/09/04 12:25 005				
Antimony - DISSOLVED	0.025 B,J	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	0.13 B	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	0.89 B	10	ug/L	SW846 6020
Magnesium - DISSOLVED	16000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	68000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	39 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	37000	5000	ug/L	SW846 6010B
Manganese - DISSOLVED	340	5.0	ug/L	SW846 6010B
Potassium - DISSOLVED	4900 B	5000	ug/L	SW846 6010B
Copper - DISSOLVED	3.1 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.4 J	0.50	ug/L	SW846 6010B
Specific Conductance	520	2.0	umhos/cm	MCAWW 120.1
pH	7.6	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	300	5.4	mg/L	MCAWW 160.1
Total Suspended Solids	180 Q	7.5	mg/L	MCAWW 160.2
Chloride	2.0 J	0.50	mg/L	MCAWW 300.0A
Sulfate	6.3	5.0	mg/L	MCAWW 300.0A
Nitrate	0.10	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	160	5.0	mg/L	SM18 2340B
Ion Balance Difference	5.5	--	%	SM18 1030F & API
Total Anions	5.6	0.30	meq/L	SM17 1030F & API
Total Cations	6.2	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	270	10	mg/L	MCAWW 310.1
Total Alkalinity	270	5.0	mg/L	MCAWW 310.1
Chemical Oxygen Demand (COD)	21	10	mg/L	MCAWW 410.4
MW-06 03/09/04 13:25 006				
Arsenic - DISSOLVED	28	1.0	ug/L	SW846 6020
Cadmium - DISSOLVED	0.053 B	0.50	ug/L	SW846 6020
Nickel - DISSOLVED	0.44 B	10	ug/L	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-06 03/09/04 13:25 006				
Iron - DISSOLVED	130	30	ug/L	SW846 6010B
Magnesium - DISSOLVED	910 B	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	120000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	18 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	5500	5000	ug/L	SW846 6010B
Manganese - DISSOLVED	44	5.0	ug/L	SW846 6010B
Potassium - DISSOLVED	2500 B	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.9 B, J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.2 J	0.50	ug/L	SW846 6010B
Specific Conductance	550	2.0	umhos/cm	MCAWW 120.1
pH	8.3	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	320	5.4	mg/L	MCAWW 160.1
Total Suspended Solids	30	3.0	mg/L	MCAWW 160.2
Carbonate Alkalinity	6.9 B	10	mg/L	MCAWW 310.1
Chloride	14 J	0.50	mg/L	MCAWW 300.0A
Nitrate	0.080	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	17	5.0	mg/L	SM18 2340B
Ion Balance Difference	0.64	--	%	SM18 1030F & API
Total Anions	5.6	0.30	meq/L	SM17 1030F & API
Total Cations	5.7	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	260	10	mg/L	MCAWW 310.1
Un-Ionized Ammonia	0.045	0.040	mg/L	SM18 8010F
Total Alkalinity	260	5.0	mg/L	MCAWW 310.1
Ammonia as N	0.44	0.040	mg/L	MCAWW 350.1
Ionized Ammonia	0.40	0.040	mg/L	SM18 8010F

MW-01 03/09/04 14:30 007

Antimony - DISSOLVED	0.093 B, J	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	0.88 B	1.0	ug/L	SW846 6020
Cadmium - DISSOLVED	0.073 B	0.50	ug/L	SW846 6020
Nickel - DISSOLVED	2.7 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	1.0	1.0	ug/L	SW846 6020
Iron - DISSOLVED	25 B	30	ug/L	SW846 6010B
Magnesium - DISSOLVED	42000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	36000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	22 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	120000	5000	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-01 03/09/04 14:30 007				
Manganese - DISSOLVED	7.6	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	13 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	7200	5000	ug/L	SW846 6010B
Copper - DISSOLVED	3.1 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	1.1 J	0.50	ug/L	SW846 6010B
Dichlorodifluoromethane	1.1	0.57	ug/L	SW846 8260B
Tetrachloroethene	0.46	0.45	ug/L	SW846 8260B
Specific Conductance	970	2.0	umhos/cm	MCAWW 120.1
pH	7.2	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	600	5.4	mg/L	MCAWW 160.1
Total Suspended Solids	1.0 B	3.0	mg/L	MCAWW 160.2
Chloride	8.6 J	0.50	mg/L	MCAWW 300.0A
Sulfate	19	5.0	mg/L	MCAWW 300.0A
Nitrate	36 Q	0.25	mg/L	MCAWW 300.0A
Total Organic Carbon	1.9	1.0	mg/L	MCAWW 415.1
Hardness, as CaCO3	470	5.0	mg/L	SM18 2340B
Nitrite	0.050 B	0.060	mg/L	MCAWW 300.0A
Ion Balance Difference	4.6	--	%	SM18 1030F & API
Total Anions	10	0.30	meq/L	SM17 1030F & API
Total Cations	11	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	350	10	mg/L	MCAWW 310.1
Total Alkalinity	350	5.0	mg/L	MCAWW 310.1
Chemical Oxygen Demand (COD)	11	10	mg/L	MCAWW 410.4
PO7 03/09/04 15:35 008				
Antimony - DISSOLVED	0.037 B,J	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	0.89 B	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	2.4 B	10	ug/L	SW846 6020
Magnesium - DISSOLVED	49000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	28000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	14 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	110000	5000	ug/L	SW846 6010B
Vanadium - DISSOLVED	11 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	7400	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.8 B,J	25	ug/L	SW846 6010B
Beryllium - DISSOLVED	0.94 J	0.50	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C100202

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PO7 03/09/04 15:35 008				
Dichlorodifluoromethane	2.0	0.57	ug/L	SW846 8260B
Specific Conductance	910	2.0	umhos/cm	MCAWW 120.1
pH	7.5	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	540	5.4	mg/L	MCAWW 160.1
Total Suspended Solids	3.2	3.0	mg/L	MCAWW 160.2
Chloride	13 J	0.50	mg/L	MCAWW 300.0A
Sulfate	41	5.0	mg/L	MCAWW 300.0A
Nitrate	5.5	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	480	5.0	mg/L	SM18 2340B
Ion Balance Difference	5.4	--	%	SM18 1030F & API
Total Anions	9.8	0.30	meq/L	SM17 1030F & API
Total Cations	11	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	410	10	mg/L	MCAWW 310.1
Total Alkalinity	410	5.0	mg/L	MCAWW 310.1
Chemical Oxygen Demand (COD)	12	10	mg/L	MCAWW 410.4

PREPARATION METHODS SUMMARY

D4C100202

PREPARATION DESCRIPTION	PREPARATION METHOD	ANALYTICAL METHOD
pH	MCAWW 150.1	MCAWW 150.1
Acid Digestion for Total Metals by ICPMS	SW846 3020A	SW846 6020
Acid Digestion for Total Recoverable Metals	SW846 3005A	SW846 6010B
Ammonia preparation	MCAWW 350.1	MCAWW 350.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Ion Balance Difference	SM18 1030F & AP	SM18 1030F & AP
Ionized Ammonia	MCAWW 350.1	SM18 8010F
Nitrate	MCAWW 300.0A	MCAWW 300.0A
Nitrite	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Potentiometric titration to preselected pH	MCAWW 310.1	MCAWW 310.1
Result obtained by calculation	SM18 2340B	SM18 2340B
Specific Conductance	MCAWW 120.1	MCAWW 120.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Anions	SM17 1030F & AP	SM17 1030F & AP
Total Cations	SM17 1030F & AP	SM17 1030F & AP
Total Organic Carbon	MCAWW 415.1	MCAWW 415.1
Un-ionized Ammonia	MCAWW 350.1	SM18 8010F
25 mL Purge-and-Trap	SW846 5030B/826	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM17 "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

ANALYTICAL METHODS SUMMARY

D4C100202

PARAMETER	ANALYTICAL METHOD
pH (Electrometric)	MCAWW 150.1
Alkalinity	MCAWW 310.1
Ammonia (Ionized)	SM18 8010F
Bicarbonate Alkalinity	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1
Chemical Oxygen Demand	MCAWW 410.4
Chloride	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Ion Balance (%Difference)	SM18 1030F & API
Ion Balance (Tot. Anions)	SM17 1030F & API
Ion Balance (Tot.Cations)	SM17 1030F & API
ICP-MS (6020)	SW846 6020
Nitrate as N	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1
Non-Filterable Residue (TSS)	MCAWW 160.2
Specific Conductance	MCAWW 120.1
Sulfate	MCAWW 300.0A
Total Hardness 6010B	SM18 2340B
Total Organic Carbon	MCAWW 415.1
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Un-Ionized Ammonia	SM18 8010F
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.
- SM17 "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D4C100202

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 120.1	Maria Fayard	002596
MCAWW 150.1	Jaclyn Dlhos	009462
MCAWW 160.1	Jean Carrier	008763
MCAWW 160.2	Jean Carrier	008763
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 310.1	Maria Fayard	002596
MCAWW 350.1	Claire Likar	004382
MCAWW 410.4	Nicole Dean	008504
MCAWW 415.1	Duane Allee	001470
SM17 1030F & API	Roxanne K. Sullivan	001200
SM18 1030F & API	Roxanne K. Sullivan	001200
SM18 2340B	Roxanne K. Sullivan	001200
SM18 8010F	Claire Likar	004382
SW846 6010B	Kristen Roda	5692
SW846 6010B	Lynn-Anne Trudell	006645
SW846 6020	Thomas Lill	6929
SW846 8260B	Mike G. Hoffman	001880

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SM17 "Standard Methods for the Examination of Water and
Wastewater", 17th Edition, 1989.

SM18 "Standard Methods for the Examination of Water and
Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D4C100202

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GA07Q	001	DUP1	03/09/04	08:00
GA082	002	MW-03A	03/09/04	09:45
GA086	003	MW-02A	03/09/04	10:40
GA09E	004	01FB	03/09/04	13:10
GA09P	005	MW-05	03/09/04	12:25
GA1AL	006	MW-06	03/09/04	13:25
GA1A5	007	MW-01	03/09/04	14:30
GA1CD	008	PO7	03/09/04	15:35
GA1CG	009	TRIP BLANK	03/09/04	

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.

WASTE MANAGEMENT INC

Client Sample ID: DUP1

GC/MS Volatiles

Lot-Sample #....: D4C100202-001 Work Order #....: GA07Q1A9 Matrix.....: WATER
 Date Sampled....: 03/09/04 08:00 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 16:30
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	0.39 J	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	3.5	0.57	ug/L
1,1-Dichloroethane	14	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	2.5	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	1.9	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	1.2 J	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: DUP1

GC/MS Volatiles

Lot-Sample #...: D4C100202-001 Work Order #...: GA07Q1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	7.2	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	0.43 J	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	1.6	0.54	ug/L
Trichlorofluoromethane	3.0	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(76 - 116)
1,2-Dichloroethane-d4	106	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	93	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: MW-03A

GC/MS Volatiles

Lot-Sample #....: D4C100202-002 Work Order #....: GA0821AL Matrix.....: WATER
 Date Sampled....: 03/09/04 09:45 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 09:25
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-03A

GC/MS Volatiles

Lot-Sample #...: D4C100202-002 Work Order #...: GA0821AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	83	(74 - 114)
Toluene-d8	99	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: MW-02A

GC/MS Volatiles

Lot-Sample #....: D4C100202-003 Work Order #....: GA0861AL Matrix.....: WATER
 Date Sampled....: 03/09/04 10:40 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 09:45
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	0.38 J	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	3.6	0.57	ug/L
1,1-Dichloroethane	14	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	2.5	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	1.9	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	1.0 J	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-02A

GC/MS Volatiles

Lot-Sample #....: D4C100202-003 Work Order #....: GA0861AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	7.3	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	0.42 J	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	1.7	0.54	ug/L
Trichlorofluoromethane	3.0	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(76 - 116)
1,2-Dichloroethane-d4	103	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	95	(76 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: 01FB

GC/MS Volatiles

Lot-Sample #....: D4C100202-004 Work Order #....: GA09E1AL Matrix.....: WATER
 Date Sampled....: 03/09/04 13:10 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 10:06
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: 01FB

GC/MS Volatiles

Lot-Sample #...: D4C100202-004 Work Order #...: GA09E1AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(76 - 116)
1,2-Dichloroethane-d4	105	(59 - 129)
4-Bromofluorobenzene	86	(74 - 114)
Toluene-d8	95	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: MW-05

GC/MS Volatiles

Lot-Sample #....: D4C100202-005 Work Order #....: GA09P1AL Matrix.....: WATER
 Date Sampled....: 03/09/04 12:25 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 10:29
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-05

GC/MS Volatiles

Lot-Sample #....: D4C100202-005

Work Order #....: GA09P1AL

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	94	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: MW-06

GC/MS Volatiles

Lot-Sample #....: D4C100202-006 Work Order #....: GA1A11A1 Matrix.....: WATER
 Date Sampled....: 03/09/04 13:25 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 10:49
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-06

GC/MS Volatiles

Lot-Sample #....: D4C100202-006 Work Order #....: GA1A11AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(76 - 116)
1,2-Dichloroethane-d4	106	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	93	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: MW-01

GC/MS Volatiles

Lot-Sample #....: D4C100202-007 Work Order #....: GA1A51AL Matrix.....: WATER
 Date Sampled....: 03/09/04 14:30 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 11:09
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	1.1	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-01

GC/MS Volatiles

Lot-Sample #...: D4C100202-007 Work Order #...: GA1A51AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	0.46	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(76 - 116)
1,2-Dichloroethane-d4	109	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	92	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: PO7

GC/MS Volatiles

Lot-Sample #....: D4C100202-008 Work Order #....: GA1CD1AL Matrix.....: WATER
 Date Sampled....: 03/09/04 15:35 Date Received...: 03/10/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 12:09
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	2.0	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: PO7

GC/MS Volatiles

Lot-Sample #...: D4C100202-008 Work Order #...: GA1CD1AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	96	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: D4C100202-009 Work Order #....: GA1CG1AA Matrix.....: WATER
Date Sampled....: 03/09/04 Date Received...: 03/10/04
Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
Prep Batch #....: 4083379 Analysis Time...: 12:29
Dilution Factor: 1
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D4C100202-009 Work Order #...: GA1CG1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(76 - 116)
1,2-Dichloroethane-d4	101	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	94	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: DUP1

DISSOLVED Metals

Lot-Sample #...: D4C100202-001

Matrix.....: WATER

Date Sampled...: 03/09/04 08:00 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.062 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CG
		Dilution Factor: 1		Analysis Time...: 21:57		
Arsenic	1.5	1.0	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CH
		Dilution Factor: 1		Analysis Time...: 21:57		
Cadmium	ND	0.50	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CJ
		Dilution Factor: 1		Analysis Time...: 21:57		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CK
		Dilution Factor: 1		Analysis Time...: 21:57		
Nickel	0.91 B	10	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CL
		Dilution Factor: 1		Analysis Time...: 21:57		
Selenium	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CM
		Dilution Factor: 1		Analysis Time...: 21:57		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA07Q1CN
		Dilution Factor: 1		Analysis Time...: 21:57		
Prep Batch #...: 4071552						
Iron	110	30	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1AV
		Dilution Factor: 1		Analysis Time...: 00:54		
Magnesium	20000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1AW
		Dilution Factor: 1		Analysis Time...: 00:54		
Sodium	17000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1AX
		Dilution Factor: 1		Analysis Time...: 00:54		
Barium	6.4 B	100	ug/L	SW846 6010B	03/11-03/12/04	GA07Q1A0
		Dilution Factor: 1		Analysis Time...: 23:52		
Calcium	40000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1A1
		Dilution Factor: 1		Analysis Time...: 00:54		
Chromium	4.3 B	5.0	ug/L	SW846 6010B	03/11-03/12/04	GA07Q1A2
		Dilution Factor: 1		Analysis Time...: 23:52		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: DUP1

DISSOLVED Metals

Lot-Sample #...: D4C100202-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1A3
		Dilution Factor: 1		Analysis Time...: 00:54		
Vanadium	36 B	50	ug/L	SW846 6010B	03/11-03/12/04	GA07Q1A4
		Dilution Factor: 1		Analysis Time...: 23:52		
Zinc	7.8 B	20	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1A5
		Dilution Factor: 1		Analysis Time...: 00:54		
Potassium	6900	5000	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1A6
		Dilution Factor: 1		Analysis Time...: 00:54		
Copper	4.0 B,J	25	ug/L	SW846 6010B	03/11-03/12/04	GA07Q1A7
		Dilution Factor: 1		Analysis Time...: 23:52		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/12/04	GA07Q1CA
		Dilution Factor: 1		Analysis Time...: 23:52		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/12/04	GA07Q1CC
		Dilution Factor: 1		Analysis Time...: 23:52		
Beryllium	1.2 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA07Q1CP
		Dilution Factor: 1		Analysis Time...: 00:54		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-03A

DISSOLVED Metals

Lot-Sample #...: D4C100202-002

Matrix.....: WATER

Date Sampled...: 03/09/04 09:45 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.052 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA0821CG
		Dilution Factor: 1		Analysis Time...: 22:01		
Arsenic	2.7	1.0	ug/L	SW846 6020	03/15-03/19/04	GA0821CH
		Dilution Factor: 1		Analysis Time...: 22:01		
Cadmium	ND	0.50	ug/L	SW846 6020	03/15-03/19/04	GA0821CJ
		Dilution Factor: 1		Analysis Time...: 22:01		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA0821CK
		Dilution Factor: 1		Analysis Time...: 22:01		
Nickel	0.91 B	10	ug/L	SW846 6020	03/15-03/19/04	GA0821CL
		Dilution Factor: 1		Analysis Time...: 22:01		
Selenium	0.33 B	1.0	ug/L	SW846 6020	03/15-03/19/04	GA0821CM
		Dilution Factor: 1		Analysis Time...: 22:01		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA0821CN
		Dilution Factor: 1		Analysis Time...: 22:01		
Prep Batch #...: 4071552						
Iron	ND	30	ug/L	SW846 6010B	03/11-03/16/04	GA0821A7
		Dilution Factor: 1		Analysis Time...: 01:12		
Magnesium	17000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0821A8
		Dilution Factor: 1		Analysis Time...: 01:12		
Sodium	19000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0821A9
		Dilution Factor: 1		Analysis Time...: 01:12		
Barium	11 B	100	ug/L	SW846 6010B	03/11-03/13/04	GA0821AA
		Dilution Factor: 1		Analysis Time...: 00:12		
Calcium	36000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0821AC
		Dilution Factor: 1		Analysis Time...: 01:12		
Chromium	6.4	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA0821AD
		Dilution Factor: 1		Analysis Time...: 00:12		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-03A

DISSOLVED Metals

Lot-Sample #...: D4C100202-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA0821AE
		Dilution Factor: 1		Analysis Time...: 00:12		
Vanadium	37 B	50	ug/L	SW846 6010B	03/11-03/13/04	GA0821AF
		Dilution Factor: 1		Analysis Time...: 00:12		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA0821AG
		Dilution Factor: 1		Analysis Time...: 00:12		
Potassium	5600	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0821AH
		Dilution Factor: 1		Analysis Time...: 01:12		
Copper	3.6 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA0821AJ
		Dilution Factor: 1		Analysis Time...: 00:12		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA0821CA
		Dilution Factor: 1		Analysis Time...: 00:12		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA0821CC
		Dilution Factor: 1		Analysis Time...: 00:12		
Beryllium	1.3 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA0821CP
		Dilution Factor: 1		Analysis Time...: 01:12		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-02A

DISSOLVED Metals

Lot-Sample #...: D4C100202-003

Matrix.....: WATER

Date Sampled...: 03/09/04 10:40 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.15 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA0861CG
		Dilution Factor: 1		Analysis Time...: 22:23		
Arsenic	1.4	1.0	ug/L	SW846 6020	03/15-03/19/04	GA0861CH
		Dilution Factor: 1		Analysis Time...: 22:23		
Cadmium	ND	0.50	ug/L	SW846 6020	03/15-03/19/04	GA0861CJ
		Dilution Factor: 1		Analysis Time...: 22:23		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA0861CK
		Dilution Factor: 1		Analysis Time...: 22:23		
Nickel	1.1 B	10	ug/L	SW846 6020	03/15-03/19/04	GA0861CL
		Dilution Factor: 1		Analysis Time...: 22:23		
Selenium	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA0861CM
		Dilution Factor: 1		Analysis Time...: 22:23		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA0861CN
		Dilution Factor: 1		Analysis Time...: 22:23		
Prep Batch #...: 4071552						
Iron	ND	30	ug/L	SW846 6010B	03/11-03/16/04	GA0861A7
		Dilution Factor: 1		Analysis Time...: 01:16		
Magnesium	19000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0861A8
		Dilution Factor: 1		Analysis Time...: 01:16		
Sodium	16000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0861A9
		Dilution Factor: 1		Analysis Time...: 01:16		
Barium	6.6 B	100	ug/L	SW846 6010B	03/11-03/13/04	GA0861AA
		Dilution Factor: 1		Analysis Time...: 00:17		
Calcium	40000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0861AC
		Dilution Factor: 1		Analysis Time...: 01:16		
Chromium	3.1 B	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA0861AD
		Dilution Factor: 1		Analysis Time...: 00:17		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-02A

DISSOLVED Metals

Lot-Sample #...: D4C100202-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA0861AE
		Dilution Factor: 1		Analysis Time...: 01:16		
Vanadium	35 B	50	ug/L	SW846 6010B	03/11-03/13/04	GA0861AF
		Dilution Factor: 1		Analysis Time...: 00:17		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA0861AG
		Dilution Factor: 1		Analysis Time...: 00:17		
Potassium	6500	5000	ug/L	SW846 6010B	03/11-03/16/04	GA0861AH
		Dilution Factor: 1		Analysis Time...: 01:16		
Copper	3.6 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA0861AJ
		Dilution Factor: 1		Analysis Time...: 00:17		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA0861CA
		Dilution Factor: 1		Analysis Time...: 00:17		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA0861CC
		Dilution Factor: 1		Analysis Time...: 00:17		
Beryllium	1.0 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA0861CP
		Dilution Factor: 1		Analysis Time...: 01:16		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: 01FB

DISSOLVED Metals

Lot-Sample #...: D4C100202-004

Matrix.....: WATER

Date Sampled...: 03/09/04 13:10 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.042 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA09E1CG
		Dilution Factor: 1		Analysis Time...: 22:27		
Arsenic	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA09E1CH
		Dilution Factor: 1		Analysis Time...: 22:27		
Cadmium	ND	0.50	ug/L	SW846 6020	03/15-03/19/04	GA09E1CJ
		Dilution Factor: 1		Analysis Time...: 22:27		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA09E1CK
		Dilution Factor: 1		Analysis Time...: 22:27		
Nickel	ND	10	ug/L	SW846 6020	03/15-03/19/04	GA09E1CL
		Dilution Factor: 1		Analysis Time...: 22:27		
Selenium	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA09E1CM
		Dilution Factor: 1		Analysis Time...: 22:27		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA09E1CN
		Dilution Factor: 1		Analysis Time...: 22:27		
Prep Batch #...: 4071552						
Iron	ND	30	ug/L	SW846 6010B	03/11-03/16/04	GA09E1A7
		Dilution Factor: 1		Analysis Time...: 01:20		
Magnesium	ND	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09E1A8
		Dilution Factor: 1		Analysis Time...: 01:20		
Sodium	ND	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09E1A9
		Dilution Factor: 1		Analysis Time...: 01:20		
Barium	ND	100	ug/L	SW846 6010B	03/11-03/13/04	GA09E1AA
		Dilution Factor: 1		Analysis Time...: 00:22		
Calcium	ND	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09E1AC
		Dilution Factor: 1		Analysis Time...: 01:20		
Chromium	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA09E1AD
		Dilution Factor: 1		Analysis Time...: 00:22		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: 01FB

DISSOLVED Metals

Lot-Sample #...: D4C100202-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA09E1AE
		Dilution Factor: 1		Analysis Time...: 01:20		
Vanadium	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA09E1AF
		Dilution Factor: 1		Analysis Time...: 00:22		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA09E1AG
		Dilution Factor: 1		Analysis Time...: 00:22		
Potassium	680 B	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09E1AH
		Dilution Factor: 1		Analysis Time...: 01:20		
Copper	3.2 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA09E1AJ
		Dilution Factor: 1		Analysis Time...: 00:22		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA09E1CA
		Dilution Factor: 1		Analysis Time...: 00:22		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA09E1CC
		Dilution Factor: 1		Analysis Time...: 00:22		
Beryllium	1.2 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA09E1CP
		Dilution Factor: 1		Analysis Time...: 01:20		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-05

DISSOLVED Metals

Lot-Sample #...: D4C100202-005

Matrix.....: WATER

Date Sampled...: 03/09/04 12:25 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.025 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA09P1CG
		Dilution Factor: 1		Analysis Time...: 22:30		
Arsenic	0.13 B	1.0	ug/L	SW846 6020	03/15-03/19/04	GA09P1CH
		Dilution Factor: 1		Analysis Time...: 22:30		
Cadmium	ND	0.50	ug/L	SW846 6020	03/15-03/19/04	GA09P1CJ
		Dilution Factor: 1		Analysis Time...: 22:30		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA09P1CK
		Dilution Factor: 1		Analysis Time...: 22:30		
Nickel	0.89 B	10	ug/L	SW846 6020	03/15-03/19/04	GA09P1CL
		Dilution Factor: 1		Analysis Time...: 22:30		
Selenium	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA09P1CM
		Dilution Factor: 1		Analysis Time...: 22:30		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA09P1CN
		Dilution Factor: 1		Analysis Time...: 22:30		
Prep Batch #...: 4071552						
Iron	ND	30	ug/L	SW846 6010B	03/11-03/16/04	GA09P1A7
		Dilution Factor: 1		Analysis Time...: 01:25		
Magnesium	16000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09P1A8
		Dilution Factor: 1		Analysis Time...: 01:25		
Sodium	68000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09P1A9
		Dilution Factor: 1		Analysis Time...: 01:25		
Barium	39 B	100	ug/L	SW846 6010B	03/11-03/13/04	GA09P1AA
		Dilution Factor: 1		Analysis Time...: 00:26		
Calcium	37000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09P1AC
		Dilution Factor: 1		Analysis Time...: 01:25		
Chromium	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA09P1AD
		Dilution Factor: 1		Analysis Time...: 00:26		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-05

DISSOLVED Metals

Lot-Sample #....: D4C100202-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	340	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA09P1AE
		Dilution Factor: 1		Analysis Time...: 01:25		
Vanadium	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA09P1AF
		Dilution Factor: 1		Analysis Time...: 00:26		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA09P1AG
		Dilution Factor: 1		Analysis Time...: 00:26		
Potassium	4900 B	5000	ug/L	SW846 6010B	03/11-03/16/04	GA09P1AH
		Dilution Factor: 1		Analysis Time...: 01:25		
Copper	3.1 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA09P1AJ
		Dilution Factor: 1		Analysis Time...: 00:26		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA09P1CA
		Dilution Factor: 1		Analysis Time...: 00:26		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA09P1CC
		Dilution Factor: 1		Analysis Time...: 00:26		
Beryllium	1.4 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA09P1CP
		Dilution Factor: 1		Analysis Time...: 01:25		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-06

DISSOLVED Metals

Lot-Sample #...: D4C100202-006

Matrix.....: WATER

Date Sampled...: 03/09/04 13:25 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	ND	0.60	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CG
		Dilution Factor: 1		Analysis Time...: 22:33		
Arsenic	28	1.0	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CH
		Dilution Factor: 1		Analysis Time...: 22:33		
Cadmium	0.053 B	0.50	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CJ
		Dilution Factor: 1		Analysis Time...: 22:33		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CK
		Dilution Factor: 1		Analysis Time...: 22:33		
Nickel	0.44 B	10	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CL
		Dilution Factor: 1		Analysis Time...: 22:33		
Selenium	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CM
		Dilution Factor: 1		Analysis Time...: 22:33		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA1AL1CN
		Dilution Factor: 1		Analysis Time...: 22:33		
Prep Batch #...: 4071552						
Iron	130	30	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1A7
		Dilution Factor: 1		Analysis Time...: 01:29		
Magnesium	910 B	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1A8
		Dilution Factor: 1		Analysis Time...: 01:29		
Sodium	120000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1A9
		Dilution Factor: 1		Analysis Time...: 01:29		
Barium	18 B	100	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1AA
		Dilution Factor: 1		Analysis Time...: 00:31		
Calcium	5500	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1AC
		Dilution Factor: 1		Analysis Time...: 01:29		
Chromium	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1AD
		Dilution Factor: 1		Analysis Time...: 00:31		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-06

DISSOLVED Metals

Lot-Sample #...: D4C100202-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	44	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1AE
		Dilution Factor: 1		Analysis Time...: 01:29		
Vanadium	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1AF
		Dilution Factor: 1		Analysis Time...: 00:31		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1AG
		Dilution Factor: 1		Analysis Time...: 00:31		
Potassium	2500 B	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1AH
		Dilution Factor: 1		Analysis Time...: 01:29		
Copper	2.9 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1AJ
		Dilution Factor: 1		Analysis Time...: 00:31		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1CA
		Dilution Factor: 1		Analysis Time...: 00:31		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA1AL1CC
		Dilution Factor: 1		Analysis Time...: 00:31		
Beryllium	1.2 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA1AL1CP
		Dilution Factor: 1		Analysis Time...: 01:29		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-01

DISSOLVED Metals

Lot-Sample #...: D4C100202-007

Matrix.....: WATER

Date Sampled...: 03/09/04 14:30 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.093 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA1A51CG
		Dilution Factor: 1		Analysis Time...: 22:36		
Arsenic	0.88 B	1.0	ug/L	SW846 6020	03/15-03/19/04	GA1A51CH
		Dilution Factor: 1		Analysis Time...: 22:36		
Cadmium	0.073 B	0.50	ug/L	SW846 6020	03/15-03/19/04	GA1A51CJ
		Dilution Factor: 1		Analysis Time...: 22:36		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA1A51CK
		Dilution Factor: 1		Analysis Time...: 22:36		
Nickel	2.7 B	10	ug/L	SW846 6020	03/15-03/19/04	GA1A51CL
		Dilution Factor: 1		Analysis Time...: 22:36		
Selenium	1.0	1.0	ug/L	SW846 6020	03/15-03/19/04	GA1A51CM
		Dilution Factor: 1		Analysis Time...: 22:36		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA1A51CN
		Dilution Factor: 1		Analysis Time...: 22:36		
Prep Batch #...: 4071552						
Iron	25 B	30	ug/L	SW846 6010B	03/11-03/16/04	GA1A51A7
		Dilution Factor: 1		Analysis Time...: 01:42		
Magnesium	42000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1A51A8
		Dilution Factor: 1		Analysis Time...: 01:42		
Sodium	36000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1A51A9
		Dilution Factor: 1		Analysis Time...: 01:42		
Barium	22 B	100	ug/L	SW846 6010B	03/11-03/13/04	GA1A51AA
		Dilution Factor: 1		Analysis Time...: 00:36		
Calcium	120000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1A51AC
		Dilution Factor: 1		Analysis Time...: 01:42		
Chromium	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA1A51AD
		Dilution Factor: 1		Analysis Time...: 00:36		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-01

DISSOLVED Metals

Lot-Sample #...: D4C100202-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	7.6	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA1A51AE
		Dilution Factor: 1		Analysis Time...: 01:42		
Vanadium	13 B	50	ug/L	SW846 6010B	03/11-03/13/04	GA1A51AF
		Dilution Factor: 1		Analysis Time...: 00:36		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA1A51AG
		Dilution Factor: 1		Analysis Time...: 00:36		
Potassium	7200	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1A51AH
		Dilution Factor: 1		Analysis Time...: 01:42		
Copper	3.1 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA1A51AJ
		Dilution Factor: 1		Analysis Time...: 00:36		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA1A51CA
		Dilution Factor: 1		Analysis Time...: 00:36		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA1A51CC
		Dilution Factor: 1		Analysis Time...: 00:36		
Beryllium	1.1 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA1A51CP
		Dilution Factor: 1		Analysis Time...: 01:42		

NOTE (S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: PO7

DISSOLVED Metals

Lot-Sample #...: D4C100202-008

Matrix.....: WATER

Date Sampled...: 03/09/04 15:35 Date Received...: 03/10/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4071550						
Antimony	0.037 B,J	0.60	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CG
		Dilution Factor: 1		Analysis Time...: 22:40		
Arsenic	0.89 B	1.0	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CH
		Dilution Factor: 1		Analysis Time...: 22:40		
Cadmium	ND	0.50	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CJ
		Dilution Factor: 1		Analysis Time...: 22:40		
Lead	ND	1.5	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CK
		Dilution Factor: 1		Analysis Time...: 22:40		
Nickel	2.4 B	10	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CL
		Dilution Factor: 1		Analysis Time...: 22:40		
Selenium	ND	1.0	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CM
		Dilution Factor: 1		Analysis Time...: 22:40		
Thallium	ND	0.20	ug/L	SW846 6020	03/15-03/19/04	GA1CD1CN
		Dilution Factor: 1		Analysis Time...: 22:40		
Prep Batch #...: 4071552						
Iron	ND	30	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1A7
		Dilution Factor: 1		Analysis Time...: 01:46		
Magnesium	49000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1A8
		Dilution Factor: 1		Analysis Time...: 01:46		
Sodium	28000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1A9
		Dilution Factor: 1		Analysis Time...: 01:46		
Barium	14 B	100	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1AA
		Dilution Factor: 1		Analysis Time...: 00:51		
Calcium	110000	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1AC
		Dilution Factor: 1		Analysis Time...: 01:46		
Chromium	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1AD
		Dilution Factor: 1		Analysis Time...: 00:51		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: PO7

DISSOLVED Metals

Lot-Sample #...: D4C100202-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Manganese	ND	5.0	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1AE
		Dilution Factor: 1		Analysis Time...: 01:46		
Vanadium	11 B	50	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1AF
		Dilution Factor: 1		Analysis Time...: 00:51		
Zinc	ND	20	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1AG
		Dilution Factor: 1		Analysis Time...: 00:51		
Potassium	7400	5000	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1AH
		Dilution Factor: 1		Analysis Time...: 01:46		
Copper	2.8 B,J	25	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1AJ
		Dilution Factor: 1		Analysis Time...: 00:51		
Silver	ND	5.0	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1CA
		Dilution Factor: 1		Analysis Time...: 00:51		
Cobalt	ND	50	ug/L	SW846 6010B	03/11-03/13/04	GA1CD1CC
		Dilution Factor: 1		Analysis Time...: 00:51		
Beryllium	0.94 J	0.50	ug/L	SW846 6010B	03/11-03/16/04	GA1CD1CP
		Dilution Factor: 1		Analysis Time...: 01:46		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: DUP1

General Chemistry

Lot-Sample #....: D4C100202-001 Work Order #....: GA07Q

Matrix.....: WATER

Date Sampled....: 03/09/04 08:00 Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.0	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	170	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Chloride	1.7 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 15:36		
Hardness, as CaCO3	180	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	6.3	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	3.7	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 15:36		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 15:36		
Specific Conductance	400	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		
Sulfate	15	5.0	mg/L	MCAWW 300.0A	03/10/04	4071490
		Dilution Factor: 1		Analysis Time...: 15:36		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: DUP1

General Chemistry

Lot-Sample #...: D4C100202-001

Work Order #...: GA07Q

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	170	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 14:00	03/15/04	4075633
Total Anions	4.0	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079266
Total Cations	4.6	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079267
Total Dissolved Solids	260	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 15:30	03/12/04	4072466
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 19:00	03/18/04	4083188
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 16:30	03/16/04	4077249
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079516

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-03A

General Chemistry

Lot-Sample #...: D4C100202-002 Work Order #...: GA082 Matrix.....: WATER
 Date Sampled...: 03/09/04 09:45 Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.9	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	160	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Chloride	2.1 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 16:23		
Hardness, as CaCO3	160	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	1.9	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	3.2	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 16:23		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 16:23		
Specific Conductance	390	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-03A

General Chemistry

Lot-Sample #...: D4C100202-002

Work Order #...: GA082

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	25	5.0	mg/L	MCAWW 300.0A	03/10/04	4071490
		Dilution Factor: 1		Analysis Time...: 16:23		
Total Alkalinity	160	5.0	mg/L	MCAWW 310.1	03/15/04	4075633
		Dilution Factor: 1		Analysis Time...: 14:00		
Total Anions	4.0	0.30	meq/L	SM17 1030F & API	03/19/04	4079266
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Cations	4.2	0.10	meq/L	SM17 1030F & API	03/19/04	4079267
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Dissolved Solids	260	5.4	mg/L	MCAWW 160.1	03/12/04	4072466
		Dilution Factor: 1		Analysis Time...: 15:30		
Total Organic Carbon ND		1.0	mg/L	MCAWW 415.1	03/18/04	4083188
		Dilution Factor: 1		Analysis Time...: 19:00		
Total Suspended Solids	3.0	3.0	mg/L	MCAWW 160.2	03/16/04	4077249
		Dilution Factor: 1		Analysis Time...: 16:30		
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079516
		Dilution Factor: 1		Analysis Time...: 17:00		

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-02A

General Chemistry

Lot-Sample #...: D4C100202-003 Work Order #...: GA086 Matrix.....: WATER
 Date Sampled...: 03/09/04 10:40 Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.9	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	170	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	7.5 B	10	mg/L	MCAWW 410.4	03/25/04	4085523
		Dilution Factor: 1		Analysis Time...: 12:10		
Chloride	1.7 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 16:39		
Hardness, as CaCO3	170	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	4.7	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	3.7	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 16:39		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 16:39		
Specific Conductance	400	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-02A

General Chemistry

Lot-Sample #...: D4C100202-003

Work Order #...: GA086

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	15	5.0	mg/L	MCAWW 300.0A	03/10/04	4071490
			Dilution Factor: 1	Analysis Time...: 16:39		
Total Alkalinity	170	5.0	mg/L	MCAWW 310.1	03/15/04	4075633
			Dilution Factor: 1	Analysis Time...: 14:00		
Total Anions	4.0	0.30	meq/L	SM17 1030F & API	03/19/04	4079266
			Dilution Factor: 1	Analysis Time...: 09:00		
Total Cations	4.4	0.10	meq/L	SM17 1030F & API	03/19/04	4079267
			Dilution Factor: 1	Analysis Time...: 09:00		
Total Dissolved Solids	260	5.4	mg/L	MCAWW 160.1	03/12/04	4072466
			Dilution Factor: 1	Analysis Time...: 15:30		
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1	03/18/04	4083188
			Dilution Factor: 1	Analysis Time...: 20:00		
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2	03/16/04	4077249
			Dilution Factor: 1	Analysis Time...: 16:30		
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079516
			Dilution Factor: 1	Analysis Time...: 17:00		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: 01FB

General Chemistry

Lot-Sample #...: D4C100202-004

Work Order #...: GA09E

Matrix.....: WATER

Date Sampled...: 03/09/04 13:10

Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	6.9	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	1.9 B	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	31	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Chloride	ND	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 16:54		
Hardness, as CaCO ₃	NC	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	NC	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	ND	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 16:54		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 16:54		
Specific Conductance	1.6 B	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: 01FB

General Chemistry

Lot-Sample #....: D4C100202-004

Work Order #....: GA09E

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	ND	5.0	mg/L	MCAWW 300.0A	03/10/04	4071490
		Dilution Factor: 1		Analysis Time...: 16:54		
Total Alkalinity	1.9 B	5.0	mg/L	MCAWW 310.1	03/15/04	4075633
		Dilution Factor: 1		Analysis Time...: 14:00		
Total Anions	0.040 B	0.30	meq/L	SM17 1030F & API	03/19/04	4079266
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Cations	0.020 B	0.10	meq/L	SM17 1030F & API	03/19/04	4079267
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Dissolved Solids	ND	5.4	mg/L	MCAWW 160.1	03/12/04	4072466
		Dilution Factor: 1		Analysis Time...: 15:30		
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1	03/18/04	4083188
		Dilution Factor: 1		Analysis Time...: 20:00		
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2	03/16/04	4077249
		Dilution Factor: 1		Analysis Time...: 16:30		
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079516
		Dilution Factor: 1		Analysis Time...: 17:00		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

NC The recovery and/or RPD were not calculated.

WASTE MANAGEMENT INC

Client Sample ID: MW-05

General Chemistry

Lot-Sample #....: D4C100202-005

Work Order #....: GA09P

Matrix.....: WATER

Date Sampled....: 03/09/04 12:25

Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.6	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	270	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	21	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Chloride	2.0 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 17:10		
Hardness, as CaCO ₃	160	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	5.5	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	0.10	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 17:10		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 17:10		
Specific Conductance	520	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-05

General Chemistry

Lot-Sample #...: D4C100202-005

Work Order #...: GA09P

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	6.3	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 17:10	03/10/04	4071490
Total Alkalinity	270	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 14:00	03/15/04	4075633
Total Anions	5.6	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079266
Total Cations	6.2	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079267
Total Dissolved Solids	300	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 15:30	03/12/04	4072466
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 20:00	03/18/04	4083188
Total Suspended Solids	180 Q	7.5	mg/L	MCAWW 160.2 Dilution Factor: 2.5 Analysis Time...: 16:30	03/16/04	4077249
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079516

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

WASTE MANAGEMENT INC

Client Sample ID: MW-06

General Chemistry

Lot-Sample #...: D4C100202-006 Work Order #...: GA1AL Matrix.....: WATER
 Date Sampled...: 03/09/04 13:25 Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.3	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	0.44	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	260	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity 6.9 B		10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Fluoride	14 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 17:57		
Hardness, as CaCO3	17	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	0.64	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	0.40	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	0.080	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 17:57		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 17:57		
Specific Conductance 550		2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-06

General Chemistry

Lot-Sample #...: D4C100202-006

Work Order #...: GA1AL

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	ND	5.0	mg/L	MCAWW 300.0A	03/10/04	4071490
		Dilution Factor: 1		Analysis Time...: 17:57		
Total Alkalinity	260	5.0	mg/L	MCAWW 310.1	03/15/04	4075633
		Dilution Factor: 1		Analysis Time...: 14:00		
Total Anions	5.6	0.30	meq/L	SM17 1030F & API	03/19/04	4079266
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Cations	5.7	0.10	meq/L	SM17 1030F & API	03/19/04	4079267
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Dissolved Solids	320	5.4	mg/L	MCAWW 160.1	03/12/04	4072466
		Dilution Factor: 1		Analysis Time...: 15:30		
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1	03/18/04	4083188
		Dilution Factor: 1		Analysis Time...: 20:00		
Total Suspended Solids	30	3.0	mg/L	MCAWW 160.2	03/16/04	4077249
		Dilution Factor: 1		Analysis Time...: 16:30		
Un-Ionized Ammonia	0.045	0.040	mg/L	SM18 8010F	03/19/04	4079516
		Dilution Factor: 1		Analysis Time...: 17:00		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-01

General Chemistry

Lot-Sample #....: D4C100202-007 Work Order #....: GA1A5 Matrix.....: WATER
 Date Sampled....: 03/09/04 14:30 Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.2	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	350	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	11	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Chloride	8.6 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 18:12		
Hardness, as CaCO3	470	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	4.6	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	36 Q	0.25	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 5		Analysis Time...: 18:28		
Nitrite	0.050 B	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 18:12		
Specific Conductance	970	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-01

General Chemistry

Lot-Sample #...: D4C100202-007

Work Order #...: GA1A5

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	19	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 18:12	03/10/04	4071490
Total Alkalinity	350	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 14:00	03/15/04	4075633
Total Anions	10	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079266
Total Cations	11	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079267
Total Dissolved Solids	600	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 15:30	03/12/04	4072466
Total Organic Carbon	1.9	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 20:00	03/18/04	4083188
Total Suspended Solids	1.0 B	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 16:30	03/16/04	4077249
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079516

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

B Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: PO7

General Chemistry

Lot-Sample #...: D4C100202-008

Work Order #...: GA1CD

Matrix.....: WATER

Date Sampled...: 03/09/04 15:35

Date Received...: 03/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.5	0.10	No Units	MCAWW 150.1	03/10/04	4070577
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075420
		Dilution Factor: 1		Analysis Time...: 19:00		
Bicarbonate Alkalinity	410	10	mg/L	MCAWW 310.1	03/15/04	4075634
		Dilution Factor: 1		Analysis Time...: 14:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/15/04	4075635
		Dilution Factor: 1		Analysis Time...: 14:00		
Chemical Oxygen Demand (COD)	12	10	mg/L	MCAWW 410.4	03/22/04	4083351
		Dilution Factor: 1		Analysis Time...: 18:30		
Fluoride	13 J	0.50	mg/L	MCAWW 300.0A	03/10/04	4071489
		Dilution Factor: 1		Analysis Time...: 18:44		
Hardness, as CaCO3	480	5.0	mg/L	SM18 2340B	03/19/04	4079198
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	5.4	--	%	SM18 1030F & API	03/19/04	4079264
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079515
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	5.5	0.050	mg/L	MCAWW 300.0A	03/10/04	4071488
		Dilution Factor: 1		Analysis Time...: 18:44		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/10/04	4071491
		Dilution Factor: 1		Analysis Time...: 18:44		
Specific Conductance	910	2.0	umhos/cm	MCAWW 120.1	03/16/04	4076504
		Dilution Factor: 1		Analysis Time...: 16:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: P07

General Chemistry

Lot-Sample #...: D4C100202-008

Work Order #...: GA1CD

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	41	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 18:44	03/10/04	4071490
Total Alkalinity	410	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 14:00	03/15/04	4075633
Total Anions	9.8	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079266
Total Cations	11	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/19/04	4079267
Total Dissolved Solids	540	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 15:30	03/12/04	4072466
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 20:00	03/18/04	4083188
Total Suspended Solids	3.2	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 16:30	03/16/04	4077249
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079516

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

ION BALANCE REPORT
Lab Sample ID: D4C100202-007
Client Sample ID: MW-01

SAMPLE SUMMARY

Percent Difference	5.17
Total Ions (meq/L)	21.29
TDS Ratio (measured/calculated)	0.97
Calculated TDS (cations+anions, mg/L)	618.88

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	120.00	5.99
Magnesium	42.00	3.46
Potassium	7.20	0.18
Sodium	36.00	1.57
Ammonia as N	ND	ND
Iron	0.03	0.00
Aluminum	NA	NA
Total Cations	205.23	11.19

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	8.60	0.24
Sulfate	19.00	0.40
Nitrate+Nitrite	36.05	2.57
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	350.00	6.88
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	413.65	10.09

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	600.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-003
Client Sample ID: MW-02A

SAMPLE SUMMARY

Percent Difference	5.41
Total Ions (meq/L)	8.39
TDS Ratio (measured/calculated)	0.96
Calculated TDS (cations+anions, mg/L)	271.90

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	40.00	2.00
Magnesium	19.00	1.56
Potassium	6.50	0.17
Sodium	16.00	0.70
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	81.50	4.42

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	1.70	0.05
Sulfate	15.00	0.31
Nitrate+Nitrite	3.70	0.26
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	170.00	3.34
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	190.40	3.97

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	260.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-002
Client Sample ID: MW-03A

SAMPLE SUMMARY

Percent Difference	2.58
Total Ions (meq/L)	8.12
TDS Ratio (measured/calculated)	0.97
Calculated TDS (cations+anions, mg/L)	267.90

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	36.00	1.80
Magnesium	17.00	1.40
Potassium	5.60	0.14
Sodium	19.00	0.83
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	77.60	4.16

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	2.10	0.06
Sulfate	25.00	0.52
Nitrate+Nitrite	3.20	0.23
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	160.00	3.15
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	190.30	3.95

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	260.00

ND - Not Detected

NA - Not Analyzed

NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-005
Client Sample ID: MW-05

SAMPLE SUMMARY

Percent Difference	6.31
Total Ions (meq/L)	11.75
TDS Ratio (measured/calculated)	0.74
Calculated TDS (cations+anions, mg/L)	404.30

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	37.00	1.85
Magnesium	16.00	1.32
Potassium	4.90	0.13
Sodium	68.00	2.96
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	125.90	6.25

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	2.00	0.06
Sulfate	6.30	0.13
Nitrate+Nitrite	0.10	0.01
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	270.00	5.31
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	278.40	5.50

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	300.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-006
Client Sample ID: MW-06

SAMPLE SUMMARY

Percent Difference	0.17
Total Ions (meq/L)	11.32
TDS Ratio (measured/calculated)	0.78
Calculated TDS (cations+anions, mg/L)	410.46

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	5.50	0.27
Magnesium	0.91	0.07
Potassium	2.50	0.06
Sodium	120.00	5.22
Ammonia as N	0.44	0.03
Iron	0.13	0.01
Aluminum	NA	NA
Total Cations	129.48	5.67

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	14.00	0.39
Sulfate	ND	ND
Nitrate+Nitrite	0.08	0.01
Carbonate Alkalinity	6.90	0.14
Bicarbonate Alkalinity	260.00	5.11
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	280.98	5.65

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	320.00

ND - Not Detected
 NA - Not Analyzed
 NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-008
Client Sample ID: PO7

SAMPLE SUMMARY

Percent Difference	6.07
Total Ions (meq/L)	20.60
TDS Ratio (measured/calculated)	0.81
Calculated TDS (cations+anions, mg/L)	663.90

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	110.00	5.49
Magnesium	49.00	4.03
Potassium	7.40	0.19
Sodium	28.00	1.22
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	194.40	10.93

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	13.00	0.37
Sulfate	41.00	0.85
Nitrate+Nitrite	5.50	0.39
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	410.00	8.06
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	469.50	9.68

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	540.00

ND - Not Detected

NA - Not Analyzed

NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-001
Client Sample ID: DUP1

SAMPLE SUMMARY

Percent Difference	6.98
Total Ions (meq/L)	8.53
TDS Ratio (measured/calculated)	0.95
Calculated TDS (cations+anions, mg/L)	274.41

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	40.00	2.00
Magnesium	20.00	1.65
Potassium	6.90	0.18
Sodium	17.00	0.74
Ammonia as N	ND	ND
Iron	0.11	0.01
Aluminum	NA	NA
Total Cations	84.01	4.56

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	1.70	0.05
Sulfate	15.00	0.31
Nitrate+Nitrite	3.70	0.26
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	170.00	3.34
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	190.40	3.97

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	260.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C100202-004
Client Sample ID: 01FB

SAMPLE SUMMARY

Percent Difference	NC
Total Ions (meq/L)	0.05
TDS Ratio (measured/calculated)	NC
Calculated TDS (cations+anions, mg/L)	2.58

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	ND	ND
Magnesium	ND	ND
Potassium	0.68	0.02
Sodium	ND	ND
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	0.68	0.02

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	ND	ND
Sulfate	ND	ND
Nitrate+Nitrite	ND	ND
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	1.90	0.04
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	1.90	0.04

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	ND

ND - Not Detected
 NA - Not Analyzed
 NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

EMCON QA/QC Review
Groundwater- 1Q 2004 Compliance Groundwater Sampling Event
Greater Wenatchee Regional Landfill
STL-Denver Report #D4C100202

Samples: MW-01, MW-02A, MW-03A, MW-05, MW-06, P-07, 01FB (MW-06), Dup1 (MW-02A), and Trip Blanks.

Reviewed Date: 04/07/2004 (JTD)

Sampled Dates: 03/09/2004

Sample Received Date: 03/10/2004

Cation/Anion Balances: MW-01 = 5.17 %, MW-02A = 5.41 %, MW-03A = 2.58%, MW-05 = 6.31%, MW-06 = 0.17 %, P-07 = 6.07%, Dup1 (MW-02A) = 6.98 %, and 01FB = NC.

VOCs

All sample surrogate % recoveries within QC limits.

Trip Blanks All ND, and all surrogate recoveries were within recovery limits.

Method Blanks All ND; all surrogate % recoveries within QC limits.

LCS All % recoveries within QC limits, and all surrogate recoveries within limits.

Matrix Spikes All % recoveries within QC limits, and all surrogate recoveries within limits.

MSD All RPDs within QC limits.

Dissolved Metals

Method Blanks Sb and Cu detected below their RLs (B flags), and Be = 0.68 ug/L detected above its RL = 0.5 ug/L. All other analytes were ND. These method blank detections are noted and qualified in the case narrative.

LCS All % recoveries within control limits.

Matrix Spikes All % recoveries were within QC limits.

MSD All RPDs were within QC limits.

Wet Chemistry

Method Blanks No wet chemistry parameters were detected above the project established RL limits. Chloride was detected 0.26 mg/L (B flag) below the RL of 0.5 mg/L.

LCS All % recoveries within control limits.

Matrix Spikes All matrix spike recoveries within QC limits.

MSD All RPDs were within QC limits.

Duplicates All RPDs within QC limits.

Hold Times

All analytical hold times met.

Reporting Limits

All analytical addendum reporting limits met.

Field QA/QC

One trip blank traveled with the samples collected on 03/09/2004. The trip blanks was analyzed for VOCs (EPA method 8260). All VOC's in the trip blanks were reported as non-detect, and all corresponding surrogate recoveries were within quality control limits.

One field blank (01FB) was collected on 03/09/04 at MW-06. De-ionized water and volatile free water, supplied by STL-Denver, were used to fill sample containers. Field blank detections reported above the project (addendum) specified reporting limits in 01FB were beryllium = 1.2 ug/L (RL = 0.5 ug/L) (J flag), COD = 31 mg/L (RL = 10 mg/L) and pH = 6.9 pH units. Sb, Cu, K, conductance, bicarbonate, and total

alkalinity were detected below the project reporting limits (B flags), and Sb and Cu were detected in the method blanks (J flags).

One field duplicate sample (Dup1) collected on 03/09/2004 at MW-02A. All RPDs for detections above the project reporting limits were below 20% except chromium (32.4 %). No further action was taken because the detected concentrations were less than 5-times the addendum specified reporting limits.

Note

In the method blank section of the case narrative, the second bullet mentions the dissolved Be detection and then later references chloride in that section. This needs to be changed to dissolved Be. This was edited in the final case narrative.

Data Validation

Upon final review of lab report # D4C100202 for Greater Wenatchee Regional Landfill, EMCON/OWT, Inc. finds the analytical results to be valid for their intended use (04/07/2004; JTD).

SEVERN
TRENT

STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

Project No. Site 904

Greater Wenatchee

Lot #: D4C110213

Final Report
Groundwater

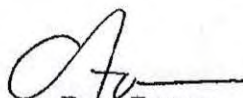
Reported to:

Steve Wulf

Waste Management, Inc.
Greater Wenatchee
191 South Webb Road
East Wenatchee, WA 98802

Cc: Jason Davendonis

STL DENVER


Betsy Farnaus
Project Manager

April 19, 2004

Case Narrative

Enclosed is the report for eight samples received at STL Denver laboratory on March 11, 2004. The results included in this report have been reviewed for compliance with STL's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

This report may include data with reporting limits (RLs) less than STL Denver's standard reporting limit. These data and reporting limits are being used specifically to meet the needs of this project. Note that, data are not customarily reported to these levels because they are inherently less reliable and potentially less defensible than the latest industry standards require.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver 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. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D4C110213

Sample Receiving

- The cooler temperatures upon receipt at the Denver laboratory were 2.3°C and 3.5°C.
- The Chain of Custody recorded the sample as DUP1 and the sample bottle labels recorded the sample as DUP2. The client was contacted and instructed the laboratory to report the sample as DUP2.
- All sample containers were received in acceptable condition.

Holding Times

- All holding times were met.

Method Blanks

- Dissolved Copper Method 6010B, Chloride Method 300.0A and Specific Conductance Method 120.1 were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.
- All other Method Blanks were within established control limits.

Laboratory Control Samples

- All Laboratory Control Sample recoveries were within established control limits.

Lot #: D4C110213

Matrix Spike Samples

- The percent recoveries of the MS/MSD and/or the relative percent difference were not calculated for Dissolved Sodium and Dissolved Calcium during Method 6010B analysis because the sample concentration was greater than four times the spike amount.
- Due to the result concentration exceeding the calibration range the MS/MSD results for Nitrate and Sulfate Method 300.0A are estimated.
- The Method 410.4 MS/MSD RPD result was outside the RPD limit for Chemical Oxygen Demand (COD). Because the corresponding Matrix Spike and Matrix Spike Duplicate recoveries, Laboratory Control Sample, and Method Blank sample were within control limits, this anomaly is considered to be due to matrix interference and no corrective action was taken.
- All other Matrix Spike and Matrix Spike Duplicate recoveries were within established control limits.

Sample Duplicate

- The RPD for Total Alkalinity Method 310.1 performed on an unrelated sample was outside control limits. Because all other QC and calibration criteria were met corrective action was deemed unnecessary.

Organics

- Per client request, the sample MW-10 was reanalyzed for Method 8260B outside of the holding time. The sample MW-10 was non-detect for all Method 8260B target analytes upon reanalysis. It should be noted that the sample volume analyzed for the Method 8260B reanalysis of the sample MW-10 was not refrigerated. Due to unusable quality control data, only the original Method 8260B analysis is reported for the sample MW-10 in this submission.

EXECUTIVE SUMMARY - Detection Highlights

D4C110213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DUP2 03/10/04 08:00 001				
Arsenic - DISSOLVED	1.8	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	1.3 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	0.41 B	1.0	ug/L	SW846 6020
Magnesium - DISSOLVED	21000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	19000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	8.2 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	45000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	4.9 B	5.0	ug/L	SW846 6010B
Manganese - DISSOLVED	0.80 B	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	29 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	6300	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.4 B,J	25	ug/L	SW846 6010B
Dichlorodifluoromethane	3.5	0.57	ug/L	SW846 8260B
1,1-Dichloroethane	11	0.74	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3.0	0.59	ug/L	SW846 8260B
1,1-Dichloroethene	0.98	0.59	ug/L	SW846 8260B
Methylene chloride	1.3 J	1.7	ug/L	SW846 8260B
Tetrachloroethene	7.4	0.45	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.43 J	0.65	ug/L	SW846 8260B
Trichloroethene	2.0	0.54	ug/L	SW846 8260B
Trichlorofluoromethane	2.0	1.1	ug/L	SW846 8260B
Specific Conductance	460 J	2.0	umhos/cm	MCAWW 120.1
pH	7.9	0.10	No Units	MCAWW 150.1
Total Dissolved	300	5.4	mg/L	MCAWW 160.1
Solids				
Chloride	3.5 J	0.50	mg/L	MCAWW 300.0A
Sulfate	18	5.0	mg/L	MCAWW 300.0A
Nitrate	4.8	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	200	5.0	mg/L	SM18 2340B
Ion Balance	1.5	--	%	SM18 1030F & API
Difference				
Total Anions	4.8	0.30	meq/L	SM17 1030F & API
Total Cations	5.0	0.10	meq/L	SM17 1030F & API
Bicarbonate	200	10	mg/L	MCAWW 310.1
Alkalinity				
Total Alkalinity	200	5.0	mg/L	MCAWW 310.1
Ammonia as N	0.046	0.040	mg/L	MCAWW 350.1
Ionized Ammonia	0.044	0.040	mg/L	SM18 8010F

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C110213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-07 03/10/04 11:20 002				
Antimony - DISSOLVED	0.15 B	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.6	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	0.63 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	0.44 B	1.0	ug/L	SW846 6020
Magnesium - DISSOLVED	22000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	18000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	8.3 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	46000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	5.3	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	31 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	6300	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.6 B,J	25	ug/L	SW846 6010B
Dichlorodifluoromethane	3.7	0.57	ug/L	SW846 8260B
1,1-Dichloroethane	11	0.74	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3.2	0.59	ug/L	SW846 8260B
1,1-Dichloroethene	1.1	0.59	ug/L	SW846 8260B
Methylene chloride	1.4 J	1.7	ug/L	SW846 8260B
Tetrachloroethene	7.9	0.45	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.43 J	0.65	ug/L	SW846 8260B
Trichloroethene	2.0	0.54	ug/L	SW846 8260B
Trichlorofluoromethane	2.1	1.1	ug/L	SW846 8260B
Specific Conductance	460 J	2.0	umhos/cm	MCAWW 120.1
pH	7.9	0.10	No Units	MCAWW 150.1
Total Dissolved	300	5.4	mg/L	MCAWW 160.1
Solids				
Chloride	3.5 J	0.50	mg/L	MCAWW 300.0A
Sulfate	18	5.0	mg/L	MCAWW 300.0A
Nitrate	4.8	0.050	mg/L	MCAWW 300.0A
Hardness,	210	5.0	mg/L	SM18 2340B
as CaCO3				
Ion Balance	4.5	--	%	SM18 1030F & API
Difference				
Total Anions	4.6	0.30	meq/L	SM17 1030F & API
Total Cations	5.0	0.10	meq/L	SM17 1030F & API
Bicarbonate	190	10	mg/L	MCAWW 310.1
Alkalinity				
Total Alkalinity	190	5.0	mg/L	MCAWW 310.1
Ammonia as N	0.044	0.040	mg/L	MCAWW 350.1
Ionized Ammonia	0.042	0.040	mg/L	SM18 8010F

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C110213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-08 03/10/04 12:45 003				
Antimony - DISSOLVED	0.39 B	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.2	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	0.69 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	2.0	1.0	ug/L	SW846 6020
Magnesium - DISSOLVED	16000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	31000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	22 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	31000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	2.7 B	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	13 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	4900 B	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.6 B,J	25	ug/L	SW846 6010B
Specific Conductance	410 J	2.0	umhos/cm	MCAWW 120.1
pH	7.9	0.10	No Units	MCAWW 150.1
Total Dissolved	280	5.4	mg/L	MCAWW 160.1
Solids				
Chloride	5.2 J	0.50	mg/L	MCAWW 300.0A
Sulfate	33	5.0	mg/L	MCAWW 300.0A
Nitrate	2.8	0.050	mg/L	MCAWW 300.0A
Hardness,	140	5.0	mg/L	SM18 2340B
as CaCO3				
Ion Balance	3.6	--	%	SM18 1030F & API
Difference				
Total Anions	4.0	0.30	meq/L	SM17 1030F & API
Total Cations	4.3	0.10	meq/L	SM17 1030F & API
Bicarbonate	150	10	mg/L	MCAWW 310.1
Alkalinity				
Total Alkalinity	150	5.0	mg/L	MCAWW 310.1

MW-09 03/10/04 14:00 004

Antimony - DISSOLVED	0.28 B	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.1	1.0	ug/L	SW846 6020
Lead - DISSOLVED	0.34 B	1.5	ug/L	SW846 6020
Nickel - DISSOLVED	1.3 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	1.3	1.0	ug/L	SW846 6020
Thallium - DISSOLVED	0.016 B	0.20	ug/L	SW846 6020
Magnesium - DISSOLVED	24000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	35000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	21 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	45000	5000	ug/L	SW846 6010B
Manganese - DISSOLVED	37	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	10 B	50	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C110213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-09 03/10/04 14:00 004				
Potassium - DISSOLVED	12000	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.7 B,J	25	ug/L	SW846 6010B
Specific Conductance	580 J	2.0	umhos/cm	MCAWW 120.1
pH	7.6	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	370	5.4	mg/L	MCAWW 160.1
Chloride	25 J	0.50	mg/L	MCAWW 300.0A
Sulfate	48	5.0	mg/L	MCAWW 300.0A
Nitrate	6.4	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	210	5.0	mg/L	SM18 2340B
Nitrite	0.25	0.060	mg/L	MCAWW 300.0A
Ion Balance Difference	2.4	--	%	SM18 1030F & API
Total Anions	5.8	0.30	meq/L	SM17 1030F & API
Total Cations	6.1	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	180	10	mg/L	MCAWW 310.1
Total Alkalinity	180	5.0	mg/L	MCAWW 310.1
Ammonia as N	0.21	0.040	mg/L	MCAWW 350.1
Ionized Ammonia	0.20	0.040	mg/L	SM18 8010F
MW-10 03/10/04 15:10 005				
Antimony - DISSOLVED	0.30 B	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.0	1.0	ug/L	SW846 6020
Nickel - DISSOLVED	1.3 B	10	ug/L	SW846 6020
Selenium - DISSOLVED	3.1	1.0	ug/L	SW846 6020
Thallium - DISSOLVED	0.037 B	0.20	ug/L	SW846 6020
Magnesium - DISSOLVED	17000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	48000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	54 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	51000	5000	ug/L	SW846 6010B
Manganese - DISSOLVED	110	5.0	ug/L	SW846 6010B
Potassium - DISSOLVED	13000	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.4 B,J	25	ug/L	SW846 6010B
Methylene chloride	0.79 J	1.7	ug/L	SW846 8260B
Specific Conductance	660 J	2.0	umhos/cm	MCAWW 120.1
pH	7.5	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	410	5.4	mg/L	MCAWW 160.1
Chloride	44 J	0.50	mg/L	MCAWW 300.0A
Sulfate	61 Q	25	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C110213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-10 03/10/04 15:10 005				
Nitrate	14 Q	0.25	mg/L	MCAWW 300.0A
Hardness, as CaCO3	200	5.0	mg/L	SM18 2340B
Nitrite	0.45	0.060	mg/L	MCAWW 300.0A
Ion Balance Difference	1.0	--	%	SM18 1030F & API
Total Anions	6.3	0.30	meq/L	SM17 1030F & API
Total Cations	6.5	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	140	10	mg/L	MCAWW 310.1
Total Alkalinity	140	5.0	mg/L	MCAWW 310.1
Ammonia as N	1.5	0.040	mg/L	MCAWW 350.1
Ionized Ammonia	1.5	0.040	mg/L	SM18 8010F
02FB 03/10/04 09:00 006				
Magnesium - DISSOLVED	33 B	5000	ug/L	SW846 6010B
Calcium - DISSOLVED	140 B	5000	ug/L	SW846 6010B
Copper - DISSOLVED	2.2 B,J	25	ug/L	SW846 6010B
Specific Conductance	1.5 B,J	2.0	umhos/cm	MCAWW 120.1
pH	7.0	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	6.0	5.4	mg/L	MCAWW 160.1
Chloride	0.20 B,J	0.50	mg/L	MCAWW 300.0A
Hardness, as CaCO3	0.49 B	5.0	mg/L	SM18 2340B
Total Anions	0.010 B	0.30	meq/L	SM17 1030F & API
Total Cations	0.010 B	0.10	meq/L	SM17 1030F & API
MW-04 03/10/04 09:55 007				
Antimony - DISSOLVED	0.078 B	0.60	ug/L	SW846 6020
Arsenic - DISSOLVED	1.8	1.0	ug/L	SW846 6020
Lead - DISSOLVED	0.41 B	1.5	ug/L	SW846 6020
Nickel - DISSOLVED	37	10	ug/L	SW846 6020
Selenium - DISSOLVED	0.98 B	1.0	ug/L	SW846 6020
Magnesium - DISSOLVED	24000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	22000	5000	ug/L	SW846 6010B
Barium - DISSOLVED	9.4 B	100	ug/L	SW846 6010B
Calcium - DISSOLVED	46000	5000	ug/L	SW846 6010B
Chromium - DISSOLVED	4.2 B	5.0	ug/L	SW846 6010B
Vanadium - DISSOLVED	21 B	50	ug/L	SW846 6010B
Potassium - DISSOLVED	5800	5000	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4C110213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-04 03/10/04 09:55 007				
Copper - DISSOLVED	2.6 B,J	25	ug/L	SW846 6010B
Dichlorodifluoromethane	1.2	0.57	ug/L	SW846 8260B
Methylene chloride	0.77 J	1.7	ug/L	SW846 8260B
Specific Conductance	520 J	2.0	umhos/cm	MCAWW 120.1
pH	7.9	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	340	5.4	mg/L	MCAWW 160.1
Chloride	28 J	0.50	mg/L	MCAWW 300.0A
Sulfate	30	5.0	mg/L	MCAWW 300.0A
Nitrate	5.7	0.050	mg/L	MCAWW 300.0A
Hardness, as CaCO3	210	5.0	mg/L	SM18 2340B
Ion Balance Difference	3.4	--	%	SM18 1030F & API
Total Anions	5.0	0.30	meq/L	SM17 1030F & API
Total Cations	5.4	0.10	meq/L	SM17 1030F & API
Bicarbonate Alkalinity	160	10	mg/L	MCAWW 310.1
Total Alkalinity	160	5.0	mg/L	MCAWW 310.1

PREPARATION METHODS SUMMARY

D4C110213

PREPARATION DESCRIPTION	PREPARATION METHOD	ANALYTICAL METHOD
pH	MCAWW 150.1	MCAWW 150.1
Acid Digestion for Total Metals by ICPMS	SW846 3020A	SW846 6020
Acid Digestion for Total Recoverable Metals	SW846 3005A	SW846 6010B
Ammonia preparation	MCAWW 350.1	MCAWW 350.1
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Ion Balance Difference	SM18 1030F & AP	SM18 1030F & AP
Ionized Ammonia	MCAWW 350.1	SM18 8010F
Nitrate	MCAWW 300.0A	MCAWW 300.0A
Nitrite	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Potentiometric titration to preselected pH	MCAWW 310.1	MCAWW 310.1
Result obtained by calculation	SM18 2340B	SM18 2340B
Specific Conductance	MCAWW 120.1	MCAWW 120.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Anions	SM17 1030F & AP	SM17 1030F & AP
Total Cations	SM17 1030F & AP	SM17 1030F & AP
Total Organic Carbon	MCAWW 415.1	MCAWW 415.1
Un-ionized Ammonia	MCAWW 350.1	SM18 8010F
25 mL Purge-and-Trap	SW846 5030B/826	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM17 "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

WASTE MANAGEMENT INC

Client Sample ID: MW-10

GC/MS Volatiles

Lot-Sample #...: D4C110213-005 Work Order #...: GA3RD1AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	111	(76 - 116)
1,2-Dichloroethane-d4	106	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	92	(76 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: 02FB

GC/MS Volatiles

Lot-Sample #...: D4C110213-006 Work Order #...: GA3RE1AL Matrix.....: WATER
 Date Sampled...: 03/10/04 09:00 Date Received...: 03/11/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #...: 4083379 Analysis Time...: 14:29
 Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: 02FB

GC/MS Volatiles

Lot-Sample #...: D4C110213-006 Work Order #...: GA3RE1AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT	
	RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(76 - 116)
1,2-Dichloroethane-d4	111	(59 - 129)
4-Bromofluorobenzene	86	(74 - 114)
Toluene-d8	92	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: MW-04

GC/MS Volatiles

Lot-Sample #....: D4C110213-007 Work Order #....: GA3RG1AL Matrix.....: WATER
 Date Sampled....: 03/10/04 09:55 Date Received...: 03/11/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 14:50
 Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	1.2	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	0.77 J	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-04

GC/MS Volatiles

Lot-Sample #....: D4C110213-007 Work Order #....: GA3RG1AL Matrix.....: WATER

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT	
	RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(76 - 116)
1,2-Dichloroethane-d4	104	(59 - 129)
4-Bromofluorobenzene	86	(74 - 114)
Toluene-d8	94	(76 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: D4C110213-008 Work Order #....: GA3RH1AA Matrix.....: WATER
Date Sampled....: 03/10/04 Date Received...: 03/11/04
Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
Prep Batch #....: 4083379 Analysis Time...: 15:10
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	ND	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D4C110213-008 Work Order #...: GA3RH1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(76 - 116)
1,2-Dichloroethane-d4	106	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	93	(76 - 116)

WASTE MANAGEMENT INC

Client Sample ID: DUP2

DISSOLVED Metals

Lot-Sample #...: D4C110213-001

Matrix.....: WATER

Date Sampled...: 03/10/04 08:00 Date Received...: 03/11/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4072469						
Antimony	ND	0.60	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CG
		Dilution Factor: 1		Analysis Time...: 03:08		
Arsenic	1.8	1.0	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CH
		Dilution Factor: 1		Analysis Time...: 03:08		
Cadmium	ND	0.50	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CJ
		Dilution Factor: 1		Analysis Time...: 03:08		
Lead	ND	1.5	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CK
		Dilution Factor: 1		Analysis Time...: 03:08		
Nickel	1.3 B	10	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CL
		Dilution Factor: 1		Analysis Time...: 03:08		
Selenium	0.41 B	1.0	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CM
		Dilution Factor: 1		Analysis Time...: 03:08		
Thallium	ND	0.20	ug/L	SW846 6020	03/25-03/26/04	GA3Q01CN
		Dilution Factor: 1		Analysis Time...: 03:08		
Prep Batch #...: 4073143						
Iron	ND	30	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01AV
		Dilution Factor: 1		Analysis Time...: 11:46		
Magnesium	21000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01AW
		Dilution Factor: 1		Analysis Time...: 11:46		
Sodium	19000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01AX
		Dilution Factor: 1		Analysis Time...: 11:46		
Barium	8.2 B	100	ug/L	SW846 6010B	03/16-03/17/04	GA3Q01A0
		Dilution Factor: 1		Analysis Time...: 22:55		
Calcium	45000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01A1
		Dilution Factor: 1		Analysis Time...: 11:46		
Chromium	4.9 B	5.0	ug/L	SW846 6010B	03/16-03/17/04	GA3Q01A2
		Dilution Factor: 1		Analysis Time...: 22:55		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: DUP2

DISSOLVED Metals

Lot-Sample #...: D4C110213-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	0.80 B	5.0	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01A3
		Dilution Factor: 1		Analysis Time...: 11:46		
Vanadium	29 B	50	ug/L	SW846 6010B	03/16-03/17/04	GA3Q01A4
		Dilution Factor: 1		Analysis Time...: 22:55		
Zinc	ND	20	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01A5
		Dilution Factor: 1		Analysis Time...: 11:46		
Potassium	6300	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q01A6
		Dilution Factor: 1		Analysis Time...: 11:46		
Copper	2.4 B, J	25	ug/L	SW846 6010B	03/16-03/17/04	GA3Q01A7
		Dilution Factor: 1		Analysis Time...: 22:55		
Silver	ND	5.0	ug/L	SW846 6010B	03/16-03/17/04	GA3Q01CA
		Dilution Factor: 1		Analysis Time...: 22:55		
Cobalt	ND	50	ug/L	SW846 6010B	03/16-03/17/04	GA3Q01CC
		Dilution Factor: 1		Analysis Time...: 22:55		
Beryllium	ND	0.50	ug/L	SW846 6010B	03/16-03/23/04	GA3Q01CP
		Dilution Factor: 1		Analysis Time...: 17:56		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-07

DISSOLVED Metals

Lot-Sample #...: D4C110213-002

Matrix.....: WATER

Date Sampled...: 03/10/04 11:20 Date Received...: 03/11/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4072469						
Antimony	0.15 B	0.60	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CG
		Dilution Factor: 1		Analysis Time...: 19:19		
Arsenic	1.6	1.0	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CH
		Dilution Factor: 1		Analysis Time...: 19:19		
Cadmium	ND	0.50	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CJ
		Dilution Factor: 1		Analysis Time...: 19:19		
Lead	ND	1.5	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CK
		Dilution Factor: 1		Analysis Time...: 19:19		
Nickel	0.63 B	10	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CL
		Dilution Factor: 1		Analysis Time...: 19:19		
Selenium	0.44 B	1.0	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CM
		Dilution Factor: 1		Analysis Time...: 19:19		
Thallium	ND	0.20	ug/L	SW846 6020	03/25-03/28/04	GA3Q71CN
		Dilution Factor: 1		Analysis Time...: 19:19		
Prep Batch #...: 4073143						
Iron	ND	30	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71A7
		Dilution Factor: 1		Analysis Time...: 11:50		
Magnesium	22000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71A8
		Dilution Factor: 1		Analysis Time...: 11:50		
Sodium	18000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71A9
		Dilution Factor: 1		Analysis Time...: 11:50		
Barium	8.3 B	100	ug/L	SW846 6010B	03/16-03/17/04	GA3Q71AA
		Dilution Factor: 1		Analysis Time...: 23:00		
Calcium	46000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71AC
		Dilution Factor: 1		Analysis Time...: 11:50		
Chromium	5.3	5.0	ug/L	SW846 6010B	03/16-03/17/04	GA3Q71AD
		Dilution Factor: 1		Analysis Time...: 23:00		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-07

DISSOLVED Metals

Lot-Sample #...: D4C110213-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71AE
		Dilution Factor: 1		Analysis Time...: 11:50		
Vanadium	31 B	50	ug/L	SW846 6010B	03/16-03/17/04	GA3Q71AF
		Dilution Factor: 1		Analysis Time...: 23:00		
Zinc	ND	20	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71AG
		Dilution Factor: 1		Analysis Time...: 11:50		
Potassium	6300	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q71AH
		Dilution Factor: 1		Analysis Time...: 11:50		
Copper	2.6 B,J	25	ug/L	SW846 6010B	03/16-03/17/04	GA3Q71AJ
		Dilution Factor: 1		Analysis Time...: 23:00		
Silver	ND	5.0	ug/L	SW846 6010B	03/16-03/17/04	GA3Q71CA
		Dilution Factor: 1		Analysis Time...: 23:00		
Cobalt	ND	50	ug/L	SW846 6010B	03/16-03/17/04	GA3Q71CC
		Dilution Factor: 1		Analysis Time...: 23:00		
Beryllium	ND	0.50	ug/L	SW846 6010B	03/16-03/23/04	GA3Q71CP
		Dilution Factor: 1		Analysis Time...: 18:00		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-08

DISSOLVED Metals

Lot-Sample #...: D4C110213-003

Matrix.....: WATER

Date Sampled...: 03/10/04 12:45 Date Received...: 03/11/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4072469						
Antimony	0.39 B	0.60	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CG
		Dilution Factor: 1		Analysis Time...: 19:36		
Arsenic	1.2	1.0	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CH
		Dilution Factor: 1		Analysis Time...: 19:36		
Cadmium	ND	0.50	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CJ
		Dilution Factor: 1		Analysis Time...: 19:36		
Lead	ND	1.5	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CK
		Dilution Factor: 1		Analysis Time...: 19:36		
Nickel	0.69 B	10	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CL
		Dilution Factor: 1		Analysis Time...: 19:36		
Selenium	2.0	1.0	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CM
		Dilution Factor: 1		Analysis Time...: 19:36		
Thallium	ND	0.20	ug/L	SW846 6020	03/25-03/28/04	GA3Q91CN
		Dilution Factor: 1		Analysis Time...: 19:36		
Prep Batch #...: 4073143						
Iron	ND	30	ug/L	SW846 6010B	03/16-03/21/04	GA3Q91A7
		Dilution Factor: 1		Analysis Time...: 12:03		
Magnesium	16000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q91A8
		Dilution Factor: 1		Analysis Time...: 12:03		
Sodium	31000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q91A9
		Dilution Factor: 1		Analysis Time...: 12:03		
Barium	22 B	100	ug/L	SW846 6010B	03/16-03/17/04	GA3Q91AA
		Dilution Factor: 1		Analysis Time...: 23:15		
Calcium	31000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3Q91AC
		Dilution Factor: 1		Analysis Time...: 12:03		
Chromium	2.7 B	5.0	ug/L	SW846 6010B	03/16-03/18/04	GA3Q91AD
		Dilution Factor: 1		Analysis Time...: 18:05		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: 02FB

DISSOLVED Metals

Lot-Sample #...: D4C110213-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/16-03/21/04	GA3RE1AE
		Dilution Factor: 1		Analysis Time...: 12:16		
Vanadium	ND	50	ug/L	SW846 6010B	03/16-03/17/04	GA3RE1AF
		Dilution Factor: 1		Analysis Time...: 23:30		
Zinc	ND	20	ug/L	SW846 6010B	03/16-03/21/04	GA3RE1AG
		Dilution Factor: 1		Analysis Time...: 12:16		
Potassium	ND	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3RE1AH
		Dilution Factor: 1		Analysis Time...: 12:16		
Copper	2.2 B,J	25	ug/L	SW846 6010B	03/16-03/17/04	GA3RE1AJ
		Dilution Factor: 1		Analysis Time...: 23:30		
Silver	ND	5.0	ug/L	SW846 6010B	03/16-03/17/04	GA3RE1CA
		Dilution Factor: 1		Analysis Time...: 23:30		
Cobalt	ND	50	ug/L	SW846 6010B	03/16-03/18/04	GA3RE1CC
		Dilution Factor: 1		Analysis Time...: 18:19		
Beryllium	ND	0.50	ug/L	SW846 6010B	03/16-03/23/04	GA3RE1CP
		Dilution Factor: 1		Analysis Time...: 18:18		

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-04

DISSOLVED Metals

Lot-Sample #...: D4C110213-007

Matrix.....: WATER

Date Sampled...: 03/10/04 09:55 Date Received...: 03/11/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4072469						
Antimony	0.078 B	0.60	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CG
		Dilution Factor: 1		Analysis Time...: 19:55		
Arsenic	1.8	1.0	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CH
		Dilution Factor: 1		Analysis Time...: 19:55		
Cadmium	ND	0.50	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CJ
		Dilution Factor: 1		Analysis Time...: 19:55		
Lead	0.41 B	1.5	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CK
		Dilution Factor: 1		Analysis Time...: 19:55		
Nickel	37	10	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CL
		Dilution Factor: 1		Analysis Time...: 19:55		
Selenium	0.98 B	1.0	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CM
		Dilution Factor: 1		Analysis Time...: 19:55		
Thallium	ND	0.20	ug/L	SW846 6020	03/25-03/28/04	GA3RG1CN
		Dilution Factor: 1		Analysis Time...: 19:55		
Prep Batch #...: 4073143						
Iron	ND	30	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1A7
		Dilution Factor: 1		Analysis Time...: 12:20		
Magnesium	24000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1A8
		Dilution Factor: 1		Analysis Time...: 12:20		
Sodium	22000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1A9
		Dilution Factor: 1		Analysis Time...: 12:20		
Barium	9.4 B	100	ug/L	SW846 6010B	03/16-03/17/04	GA3RG1AA
		Dilution Factor: 1		Analysis Time...: 23:34		
Calcium	46000	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1AC
		Dilution Factor: 1		Analysis Time...: 12:20		
Chromium	4.2 B	5.0	ug/L	SW846 6010B	03/16-03/18/04	GA3RG1AD
		Dilution Factor: 1		Analysis Time...: 18:24		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-04

DISSOLVED Metals

Lot-Sample #...: D4C110213-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	ND	5.0	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1AE
		Dilution Factor: 1		Analysis Time...: 12:20		
Vanadium	21 B	50	ug/L	SW846 6010B	03/16-03/17/04	GA3RG1AF
		Dilution Factor: 1		Analysis Time...: 23:34		
Zinc	ND	20	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1AG
		Dilution Factor: 1		Analysis Time...: 12:20		
Potassium	5800	5000	ug/L	SW846 6010B	03/16-03/21/04	GA3RG1AH
		Dilution Factor: 1		Analysis Time...: 12:20		
Copper	2.6 B,J	25	ug/L	SW846 6010B	03/16-03/17/04	GA3RG1AJ
		Dilution Factor: 1		Analysis Time...: 23:34		
Silver	ND	5.0	ug/L	SW846 6010B	03/16-03/17/04	GA3RG1CA
		Dilution Factor: 1		Analysis Time...: 23:34		
Cobalt	ND	50	ug/L	SW846 6010B	03/16-03/18/04	GA3RG1CC
		Dilution Factor: 1		Analysis Time...: 18:24		
Beryllium	ND	0.50	ug/L	SW846 6010B	03/16-03/23/04	GA3RG1CP
		Dilution Factor: 1		Analysis Time...: 18:23		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: DUP2

General Chemistry

Lot-Sample #....: D4C110213-001 Work Order #....: GA3Q0 Matrix.....: WATER
 Date Sampled....: 03/10/04 08:00 Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.9	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	0.046	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	200	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity ND		10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23-03/24/04	4084498
		Dilution Factor: 1		Analysis Time...: 14:30		
Chloride	3.5 J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 21:34		
Hardness, as CaCO3	200	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	1.5	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	0.044	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	4.8	0.050	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 1		Analysis Time...: 21:34		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 21:34		
Specific Conductance 460 J		2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		
Sulfate	18	5.0	mg/L	MCAWW 300.0A	03/11/04	4072491
		Dilution Factor: 1		Analysis Time...: 21:34		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: DUP2

General Chemistry

Lot-Sample #...: D4C110213-001

Work Order #...: GA3Q0

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Alkalinity	200	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time..: 10:00	03/17/04	4079177
Total Anions	4.8	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time..: 09:00	03/23/04	4083138
Total Cations	5.0	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time..: 09:00	03/23/04	4083139
Total Dissolved Solids	300	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time..: 14:00	03/16/04	4077245
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time..: 21:00	03/23/04	4084321
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time..: 17:00	03/17/04	4077544
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time..: 17:00	03/19/04	4079518

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-07

General Chemistry

Lot-Sample #...: D4C110213-002 Work Order #...: GA3Q7 Matrix.....: WATER
 Date Sampled...: 03/10/04 11:20 Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.9	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	0.044	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	190	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23-03/24/04	4084498
		Dilution Factor: 1		Analysis Time...: 14:30		
Fluoride	3.5 J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 21:50		
Hardness, as CaCO3	210	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	4.5	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	0.042	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	4.8	0.050	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 1		Analysis Time...: 21:50		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 21:50		
Specific Conductance	460 J	2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-07

General Chemistry

Lot-Sample #...: D4C110213-002

Work Order #...: GA3Q7

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	18	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 21:50	03/11/04	4072491
Total Alkalinity	190	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 10:00	03/17/04	4079177
Total Anions	4.6	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083138
Total Cations	5.0	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083139
Total Dissolved Solids	300	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 14:00	03/16/04	4077245
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 22:00	03/23/04	4084321
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 17:00	03/17/04	4077544
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079518

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-08

General Chemistry

Lot-Sample #....: D4C110213-003

Work Order #....: GA3Q9

Matrix.....: WATER

Date Sampled....: 03/10/04 12:45

Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.9	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	150	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23-03/24/04	4084498
		Dilution Factor: 1		Analysis Time...: 14:30		
Chloride	5.2 J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 22:06		
Hardness, as CaCO3	140	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	3.6	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	2.8	0.050	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 1		Analysis Time...: 22:06		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 22:06		
Specific Conductance	410 J	2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-08

General Chemistry

Lot-Sample #...: D4C110213-003

Work Order #...: GA3Q9

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	33	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 22:06	03/11/04	4072491
Total Alkalinity	150	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 10:00	03/17/04	4079177
Total Anions	4.0	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083138
Total Cations	4.3	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083139
Total Dissolved Solids	280	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 14:00	03/16/04	4077245
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 22:00	03/23/04	4084321
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 17:00	03/17/04	4077544
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079518

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-09

General Chemistry

Lot-Sample #...: D4C110213-004

Work Order #...: GA3RC

Matrix.....: WATER

Date Sampled...: 03/10/04 14:00

Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.6	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	0.21	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	180	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23-03/24/04	4084498
		Dilution Factor: 1		Analysis Time...: 14:30		
Chloride	25 J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 22:21		
Hardness, as CaCO3	210	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	2.4	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	0.20	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	6.4	0.050	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 1		Analysis Time...: 22:21		
Nitrite	0.25	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 22:21		
Specific Conductance	580 J	2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-09

General Chemistry

Lot-Sample #...: D4C110213-004

Work Order #...: GA3RC

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	48	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 22:21	03/11/04	4072491
Total Alkalinity	180	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 10:00	03/17/04	4079177
Total Anions	5.8	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083138
Total Cations	6.1	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083139
Total Dissolved Solids	370	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 14:00	03/16/04	4077245
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 22:00	03/23/04	4084321
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 17:00	03/17/04	4077544
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079518

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: MW-10

General Chemistry

Lot-Sample #...: D4C110213-005

Work Order #...: GA3RD

Matrix.....: WATER

Date Sampled...: 03/10/04 15:10

Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.5	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	1.5	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	140	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23-03/24/04	4084498
		Dilution Factor: 1		Analysis Time...: 14:30		
Chloride	44 J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 22:53		
Hardness, as CaCO3	200	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	1.0	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	1.5	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	14 Q	0.25	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 5		Analysis Time...: 23:08		
Nitrite	0.45	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 22:53		
Specific Conductance	660 J	2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-10

General Chemistry

Lot-Sample #...: D4C110213-005

Work Order #...: GA3RD

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	61 Q	25	mg/L	MCAWW 300.0A Dilution Factor: 5 Analysis Time...: 23:08	03/11/04	4072491
Total Alkalinity	140	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 10:00	03/17/04	4079177
Total Anions	6.3	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083138
Total Cations	6.5	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083139
Total Dissolved Solids	410	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 14:00	03/16/04	4077245
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 22:00	03/23/04	4084321
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 17:00	03/17/04	4077544
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079518

NOTE (S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

WASTE MANAGEMENT INC

Client Sample ID: 02FB

General Chemistry

Lot-Sample #...: D4C110213-006 Work Order #...: GA3RE Matrix.....: WATER
 Date Sampled...: 03/10/04 09:00 Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.0	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23-03/24/04	4084498
		Dilution Factor: 1		Analysis Time...: 14:30		
Fluoride	0.20 B,J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 23:24		
Hardness, as CaCO3	0.49 B	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	NC	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	ND	0.050	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 1		Analysis Time...: 23:24		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 23:24		
Specific Conductance	1.5 B,J	2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: 02FB

General Chemistry

Lot-Sample #...: D4C110213-006

Work Order #...: GA3RE

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	ND	5.0	mg/L	MCAWW 300.0A	03/11/04	4072491
		Dilution Factor: 1		Analysis Time...: 23:24		
Total Alkalinity	ND	5.0	mg/L	MCAWW 310.1	03/17/04	4079177
		Dilution Factor: 1		Analysis Time...: 10:00		
Total Anions	0.010 B	0.30	meq/L	SM17 1030F & API	03/23/04	4083138
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Cations	0.010 B	0.10	meq/L	SM17 1030F & API	03/23/04	4083139
		Dilution Factor: 1		Analysis Time...: 09:00		
Total Dissolved Solids	6.0	5.4	mg/L	MCAWW 160.1	03/16/04	4077245
		Dilution Factor: 1		Analysis Time...: 14:00		
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1	03/23/04	4084321
		Dilution Factor: 1		Analysis Time...: 22:00		
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2	03/17/04	4077544
		Dilution Factor: 1		Analysis Time...: 17:00		
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079518
		Dilution Factor: 1		Analysis Time...: 17:00		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NC The recovery and/or RPD were not calculated.

WASTE MANAGEMENT INC

Client Sample ID: MW-04

General Chemistry

Lot-Sample #....: D4C110213-007 Work Order #....: GA3RG Matrix.....: WATER
 Date Sampled....: 03/10/04 09:55 Date Received...: 03/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.9	0.10	No Units	MCAWW 150.1	03/11/04	4071521
		Dilution Factor: 1		Analysis Time...: 12:00		
Ammonia as N	ND	0.040	mg/L	MCAWW 350.1	03/12/04	4075435
		Dilution Factor: 1		Analysis Time...: 21:00		
Bicarbonate Alkalinity	160	10	mg/L	MCAWW 310.1	03/17/04	4079192
		Dilution Factor: 1		Analysis Time...: 10:00		
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079193
		Dilution Factor: 1		Analysis Time...: 10:00		
Chemical Oxygen Demand (COD)	ND	10	mg/L	MCAWW 410.4	03/23/04	4084499
		Dilution Factor: 1		Analysis Time...: 20:25		
Fluoride	28 J	0.50	mg/L	MCAWW 300.0A	03/11/04	4072488
		Dilution Factor: 1		Analysis Time...: 23:39		
Hardness, as CaCO3	210	5.0	mg/L	SM18 2340B	03/23/04	4083127
		Dilution Factor: 1		Analysis Time...: 09:00		
Ion Balance Difference	3.4	--	%	SM18 1030F & API	03/23/04	4083136
		Dilution Factor: 1		Analysis Time...: 09:00		
Ionized Ammonia	ND	0.040	mg/L	SM18 8010F	03/19/04	4079517
		Dilution Factor: 1		Analysis Time...: 17:00		
Nitrate	5.7	0.050	mg/L	MCAWW 300.0A	03/11/04	4072490
		Dilution Factor: 1		Analysis Time...: 23:39		
Nitrite	ND	0.060	mg/L	MCAWW 300.0A	03/11/04	4072492
		Dilution Factor: 1		Analysis Time...: 23:39		
Specific Conductance	520 J	2.0	umhos/cm	MCAWW 120.1	03/22/04	4083169
		Dilution Factor: 1		Analysis Time...: 16:30		

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: MW-04

General Chemistry

Lot-Sample #....: D4C110213-007

Work Order #....: GA3RG

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	30	5.0	mg/L	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 23:39	03/11/04	4072491
Total Alkalinity	160	5.0	mg/L	MCAWW 310.1 Dilution Factor: 1 Analysis Time...: 10:00	03/17/04	4079177
Total Anions	5.0	0.30	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083138
Total Cations	5.4	0.10	meq/L	SM17 1030F & API Dilution Factor: 1 Analysis Time...: 09:00	03/23/04	4083139
Total Dissolved Solids	340	5.4	mg/L	MCAWW 160.1 Dilution Factor: 1 Analysis Time...: 14:00	03/16/04	4077245
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1 Dilution Factor: 1 Analysis Time...: 22:00	03/23/04	4084321
Total Suspended Solids	ND	3.0	mg/L	MCAWW 160.2 Dilution Factor: 1 Analysis Time...: 17:00	03/17/04	4077544
Un-Ionized Ammonia	ND	0.040	mg/L	SM18 8010F Dilution Factor: 1 Analysis Time...: 17:00	03/19/04	4079518

NOTE (S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

ION BALANCE REPORT
Lab Sample ID: D4C110213-007
Client Sample ID: MW-04

SAMPLE SUMMARY

Percent Difference	3.94
Total Ions (meq/L)	10.34
TDS Ratio (measured/calculated)	1.06
Calculated TDS (cations+anions, mg/L)	321.50

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	46.00	2.30
Magnesium	24.00	1.97
Potassium	5.80	0.15
Sodium	22.00	0.96
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	97.80	5.38

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	28.00	0.79
Sulfate	30.00	0.62
Nitrate+Nitrite	5.70	0.41
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	160.00	3.15
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	223.70	4.97

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	340.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C110213-002
Client Sample ID: MW-07

SAMPLE SUMMARY

Percent Difference	5.20
Total Ions (meq/L)	9.61
TDS Ratio (measured/calculated)	0.97
Calculated TDS (cations+anions, mg/L)	308.64

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	46.00	2.30
Magnesium	22.00	1.81
Potassium	6.30	0.16
Sodium	18.00	0.78
Ammonia as N	0.04	0.00
Iron	ND	ND
Aluminum	NA	NA
Total Cations	92.34	5.05

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	3.50	0.10
Sulfate	18.00	0.37
Nitrate+Nitrite	4.80	0.34
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	190.00	3.74
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	216.30	4.55

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	300.00

ND - Not Detected
 NA - Not Analyzed
 NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C110213-003
Client Sample ID: MW-08

SAMPLE SUMMARY

Percent Difference	4.25
Total Ions (meq/L)	8.32
TDS Ratio (measured/calculated)	1.02
Calculated TDS (cations+anions, mg/L)	273.90

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	31.00	1.55
Magnesium	16.00	1.32
Potassium	4.90	0.13
Sodium	31.00	1.35
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	82.90	4.34

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	5.20	0.15
Sulfate	33.00	0.69
Nitrate+Nitrite	2.80	0.20
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	150.00	2.95
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	191.00	3.98

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	280.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C110213-004
Client Sample ID: MW-09

SAMPLE SUMMARY

Percent Difference	2.93
Total Ions (meq/L)	11.78
TDS Ratio (measured/calculated)	0.98
Calculated TDS (cations+anions, mg/L)	375.86

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	45.00	2.25
Magnesium	24.00	1.97
Potassium	12.00	0.31
Sodium	35.00	1.52
Ammonia as N	0.21	0.01
Iron	ND	ND
Aluminum	NA	NA
Total Cations	116.21	6.06

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	25.00	0.71
Sulfate	48.00	1.00
Nitrate+Nitrite	6.65	0.47
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	180.00	3.54
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	259.65	5.72

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	370.00

ND - Not Detected
 NA - Not Analyzed
 NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C110213-005
Client Sample ID: MW-10

SAMPLE SUMMARY

Percent Difference	1.37
Total Ions (meq/L)	12.77
TDS Ratio (measured/calculated)	1.05
Calculated TDS (cations+anions, mg/L)	389.95

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	51.00	2.54
Magnesium	17.00	1.40
Potassium	13.00	0.33
Sodium	48.00	2.09
Ammonia as N	1.50	0.11
Iron	ND	ND
Aluminum	NA	NA
Total Cations	130.50	6.47

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	44.00	1.24
Sulfate	61.00	1.27
Nitrate+Nitrite	14.45	1.03
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	140.00	2.75
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	259.45	6.30

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	410.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C110213-001
Client Sample ID: DUP2

SAMPLE SUMMARY

Percent Difference	2.21
Total Ions (meq/L)	9.71
TDS Ratio (measured/calculated)	0.94
Calculated TDS (cations+anions, mg/L)	317.65

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	45.00	2.25
Magnesium	21.00	1.73
Potassium	6.30	0.16
Sodium	19.00	0.83
Ammonia as N	0.05	0.00
Iron	ND	ND
Aluminum	NA	NA
Total Cations	91.35	4.96

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	3.50	0.10
Sulfate	18.00	0.37
Nitrate+Nitrite	4.80	0.34
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	200.00	3.93
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	226.30	4.75

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	300.00

ND - Not Detected
 NA - Not Analyzed
 NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

ION BALANCE REPORT
Lab Sample ID: D4C110213-006
Client Sample ID: 02FB

SAMPLE SUMMARY

Percent Difference	NC
Total Ions (meq/L)	0.02
TDS Ratio (measured/calculated)	16.09
Calculated TDS (cations+anions, mg/L)	0.37

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	0.14	0.01
Magnesium	0.03	0.00
Potassium	ND	ND
Sodium	ND	ND
Ammonia as N	ND	ND
Iron	ND	ND
Aluminum	NA	NA
Total Cations	0.17	0.01

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	0.20	0.01
Sulfate	ND	ND
Nitrate+Nitrite	ND	ND
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	ND	ND
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	0.20	0.01

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	6.00

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

EMCON QA/QC Review

Groundwater- 1Q 2004 Compliance Groundwater Sampling Event

Greater Wenatchee Regional Landfill

STL-Denver Report #D4C110213

Samples: MW-04, MW-07, MW-08, MW-09, MW-10, 02FB (MW-04), Dup2 (MW-07), and Trip Blanks.

Reviewed Date: 04/07/2004 (JTD)

Sampled Dates: 03/10/2004

Sample Received Date: 03/11/2004

Cation/Anion Balances: MW-04= 3.94 %, MW-07 = 5.20 %, MW-08 =4.25 %, MW-09 = 2.93 %, MW-10 = 1.37 %, Dup2 (MW-07) = 2.21 %, and 02FB = NC.

VOCs

All sample surrogate % recoveries within QC limits.

Trip Blanks All ND, and all surrogate recoveries were within recovery limits.

Method Blanks All ND; all surrogate % recoveries within QC limits.

LCS All % recoveries within QC limits, and all surrogate recoveries within limits.

Matrix Spikes All % recoveries within QC limits, and all surrogate recoveries within limits.

MSD All RPDs within QC limits.

Dissolved Metals

Method Blanks Cu detected below its RL (B flag). All other analytes were ND.

LCS All % recoveries within control limits.

Matrix Spikes Na and Ca spike recoveries not calculated due to already high analyte concentrations present in sample (NC/MSB flags). All % recoveries were within QC limits.

MSD All calculated RPDs were within QC limits.

Wet Chemistry

Method Blanks No wet chemistry parameters were detected above the project established RL limits. Chloride and specific conductance were detected below their RLs (B flags).

LCS All % recoveries within control limits.

Matrix Spikes All matrix spike recoveries within QC limits.

MSD All RPDs were within QC limits except for COD (* flag), which was above the limit. This noted and qualified in the case narrative.

Duplicates All RPDs within QC limits except for total alkalinity. This noted and qualified in the case narrative.

Hold Times

All analytical hold times met.

Reporting Limits

All analytical addendum reporting limits met except for Be for each sample.

Field QA/QC

One trip blank traveled with the samples collected on 03/10/2004. The trip blanks was analyzed for VOCs (EPA method 8260). All VOC's in the trip blanks were reported as non-detect, and all corresponding surrogate recoveries were within quality control limits.

One field blank (02FB) was collected on 03/10/04 at MW-04. De-ionized water and volatile free water, supplied by STL-Denver, were used to fill sample containers. Field blank detections reported above the project (addendum) specified reporting limits in 02FB were TDS = 6.0 mg/L (RL = 5.4 mg/L) and pH = 7.0

pH units. Mg, Ca, Cu, specific conductance, Cl, and hardness were detected below the project reporting limits (B flags), and Cu, specific conductance, and Cl were also detected in the method blanks (J flags).

One field duplicate sample (Dup2) collected on 03/10/2004 at MW-07. All RPDs for detections above the project reporting limits were below 20%.

Note

I emailed STL on 04/08/2004 requesting re-analysis of MW-10 for methylene chloride, also inquired about any potential lab contamination issue at the lab regarding Methylene chloride. The reanalysis results were non-detect.

Data Validation

Upon final review of lab report # D4C110213 for Greater Wenatchee Regional Landfill, EMCON/OWT, Inc. finds the analytical results to be valid for their intended use (**04/08/2004; JTD**).

SEVERN
TRENT

STL

STL Denver

4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

Project No. Site 904

Greater Wenatchee

Lot #: D4C120192

Final Report
P-08

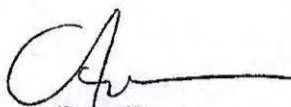
Reported to:

Steve Wulf

Waste Management, Inc.
Greater Wenatchee
191 South Webb Road
East Wenatchee, WA 98802

Cc: Jason Davendonis

STL DENVER



Betsy Farnaus
Project Manager

April 19, 2004

Case Narrative

Enclosed is the report for two samples received at STL Denver laboratory on March 12, 2004. The results included in this report have been reviewed for compliance with STL's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

This report may include data with reporting limits (RLs) less than STL Denver's standard reporting limit. These data and reporting limits are being used specifically to meet the needs of this project. Note that, data are not customarily reported to these levels because they are inherently less reliable and potentially less defensible than the latest industry standards require.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver 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. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D4C120192

Sample Receiving

- The cooler temperature upon receipt at the Denver laboratory was 3.6°C.
- The Chain of Custody recorded the sample as P-07 and the sample bottle labels recorded the sample as P-08. The client was contacted and instructed the laboratory to report the sample as P-08.
- All sample containers were received in acceptable condition.

Holding Times

- All holding times were met.

Trip Blank

- Methylene Chloride was detected in the Trip Blank sample at a level below the requested reporting limit. Methylene Chloride was also detected in the sample P-08 at a similar level, therefore indicating the possibility of field or laboratory contamination of Methylene Chloride in this sample.

Method Blanks

- Dissolved Manganese Method 6010B was detected in the Method Blank below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.
- All other Method Blanks were within established control limits.

Lot #: D4C120192

Laboratory Control Samples

- All Laboratory Control Sample recoveries were within established control limits.

Matrix Spike Samples

- Due to the result concentration exceeding the calibration range the MS/MSD results for Chloride, Nitrate and Sulfate Method 300.0A are estimated.
- All other Matrix Spike and Matrix Spike Duplicate recoveries were within established control limits.

EXECUTIVE SUMMARY - Detection Highlights

D4C120192

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
P-08 03/11/04 13:55 001				
Magnesium - DISSOLVED	44000	5000	ug/L	SW846 6010B
Sodium - DISSOLVED	36000	5000	ug/L	SW846 6010B
Calcium - DISSOLVED	120000	5000	ug/L	SW846 6010B
Manganese - DISSOLVED	9.4 J	5.0	ug/L	SW846 6010B
Potassium - DISSOLVED	5100	5000	ug/L	SW846 6010B
Chloroethane	0.63 J	1.1	ug/L	SW846 8260B
Dichlorodifluoromethane	9.1	0.57	ug/L	SW846 8260B
1,1-Dichloroethane	7.2	0.74	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.94	0.59	ug/L	SW846 8260B
1,1-Dichloroethene	1.0	0.59	ug/L	SW846 8260B
Methylene chloride	3.0	1.7	ug/L	SW846 8260B
Tetrachloroethene	2.7	0.45	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.7	0.65	ug/L	SW846 8260B
Trichloroethene	0.42 J	0.54	ug/L	SW846 8260B
Trichlorofluoromethane	2.9	1.1	ug/L	SW846 8260B
Vinyl chloride	1.0	0.65	ug/L	SW846 8260B
Chloride	12	0.50	mg/L	MCAWW 300.0A
Sulfate	6.3	5.0	mg/L	MCAWW 300.0A
Nitrate	1.9	0.050	mg/L	MCAWW 300.0A
Ion Balance	0.44	--	%	SM18 1030F & API
Difference				
Total Anions	11	0.30	meq/L	SM17 1030F & API
Total Cations	11	0.10	meq/L	SM17 1030F & API
Bicarbonate	540	10	mg/L	MCAWW 310.1
Alkalinity				
Total Alkalinity	540	5.0	mg/L	MCAWW 310.1
TRIP BLANK 03/11/04 15:00 002				
Methylene chloride	0.79 J	1.7	ug/L	SW846 8260B

PREPARATION METHODS SUMMARY

D4C120192

PREPARATION DESCRIPTION	PREPARATION METHOD	ANALYTICAL METHOD
Acid Digestion for Total Recoverable Metals	SW846 3005A	SW846 6010B
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Ion Balance Difference	SM18 1030F & AP	SM18 1030F & AP
Nitrate	MCAWW 300.0A	MCAWW 300.0A
Potentiometric titration to preselected pH	MCAWW 310.1	MCAWW 310.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Anions	SM17 1030F & AP	SM17 1030F & AP
Total Cations	SM17 1030F & AP	SM17 1030F & AP
25 mL Purge-and-Trap	SW846 5030B/826	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM17 "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

ANALYTICAL METHODS SUMMARY

D4C120192

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Bicarbonate Alkalinity	MCAWW 310.1
Carbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Ion Balance (%Difference)	SM18 1030F & API
Ion Balance (Tot. Anions)	SM17 1030F & API
Ion Balance (Tot.Cations)	SM17 1030F & API
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
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.
- SM17 "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D4C120192

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 310.1	Maria Fayard	002596
SM17 1030F & API	Roxanne K. Sullivan	001200
SM18 1030F & API	Roxanne K. Sullivan	001200
SW846 6010B	Kristen Roda	5692
SW846 8260B	Mike G. Hoffman	001880

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
SM17	"Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
SM18	"Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D4C120192

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
GA58N	001	P-08		03/11/04	13:55
GA583	002	TRIP	BLANK	03/11/04	15:00

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.

WASTE MANAGEMENT INC

Client Sample ID: P-08

GC/MS Volatiles

Lot-Sample #....: D4C120192-001 Work Order #....: GA58N1A0 Matrix.....: WATER
 Date Sampled....: 03/11/04 13:55 Date Received...: 03/12/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 15:30
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	0.63 J	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	9.1	0.57	ug/L
1,1-Dichloroethane	7.2	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	0.94	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	1.0	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	3.0	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: P-08

GC/MS Volatiles

Lot-Sample #...: D4C120192-001 Work Order #...: GA58N1A0 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	2.7	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	1.7	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	0.42 J	0.54	ug/L
Trichlorofluoromethane	2.9	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	1.0	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(76 - 116)
1,2-Dichloroethane-d4	103	(59 - 129)
4-Bromofluorobenzene	86	(74 - 114)
Toluene-d8	94	(76 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: D4C120192-002 Work Order #....: GA5831AA Matrix.....: WATER
 Date Sampled....: 03/11/04 15:00 Date Received...: 03/12/04
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4083379 Analysis Time...: 15:50
 Dilution Factor: 1
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	13	ug/L
Acrylonitrile	ND	9.0	ug/L
Benzene	ND	0.69	ug/L
Bromochloromethane	ND	0.62	ug/L
Bromodichloromethane	ND	0.66	ug/L
Bromoform	ND	0.61	ug/L
Bromomethane	ND	1.3	ug/L
2-Butanone (MEK)	ND	5.5	ug/L
Carbon disulfide	ND	1.4	ug/L
Carbon tetrachloride	ND	0.62	ug/L
Chlorobenzene	ND	0.70	ug/L
Dibromochloromethane	ND	0.38	ug/L
Chloroethane	ND	1.1	ug/L
Chloroform	ND	0.62	ug/L
Chloromethane	ND	1.2	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	ug/L
1,2-Dibromoethane (EDB)	ND	0.36	ug/L
Dibromomethane	ND	0.77	ug/L
1,2-Dichlorobenzene	ND	0.71	ug/L
1,4-Dichlorobenzene	ND	0.57	ug/L
trans-1,4-Dichloro-2-butene	ND	2.8	ug/L
Dichlorodifluoromethane	ND	0.57	ug/L
1,1-Dichloroethane	ND	0.74	ug/L
1,2-Dichloroethane	ND	0.68	ug/L
cis-1,2-Dichloroethene	ND	0.59	ug/L
trans-1,2-Dichloroethene	ND	0.63	ug/L
1,1-Dichloroethene	ND	0.59	ug/L
1,2-Dichloropropane	ND	0.66	ug/L
cis-1,3-Dichloropropene	ND	0.35	ug/L
trans-1,3-Dichloropropene	ND	0.83	ug/L
Ethylbenzene	ND	0.67	ug/L
2-Hexanone	ND	1.8	ug/L
Iodomethane	ND	0.68	ug/L
Methylene chloride	0.79 J	1.7	ug/L
4-Methyl-2-pentanone	ND	1.4	ug/L
Styrene	ND	0.39	ug/L

(Continued on next page)

WASTE MANAGEMENT INC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D4C120192-002 Work Order #...: GA5831AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1,2-Tetrachloroethane	ND	0.53	ug/L
1,1,2,2-Tetrachloroethane	ND	0.83	ug/L
Tetrachloroethene	ND	0.45	ug/L
Toluene	ND	0.71	ug/L
1,1,1-Trichloroethane	ND	0.65	ug/L
1,1,2-Trichloroethane	ND	0.72	ug/L
Trichloroethene	ND	0.54	ug/L
Trichlorofluoromethane	ND	1.1	ug/L
1,2,3-Trichloropropane	ND	1.1	ug/L
Vinyl acetate	ND	0.67	ug/L
Vinyl chloride	ND	0.65	ug/L
Xylenes (total)	ND	3.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(76 - 116)
1,2-Dichloroethane-d4	105	(59 - 129)
4-Bromofluorobenzene	86	(74 - 114)
Toluene-d8	93	(76 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

WASTE MANAGEMENT INC

Client Sample ID: P-08

DISSOLVED Metals

Lot-Sample #...: D4C120192-001

Matrix.....: WATER

Date Sampled...: 03/11/04 13:55 Date Received...: 03/12/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	4076559					
Iron	ND	30	ug/L	SW846 6010B	03/17-03/26/04	GA58N1AK
		Dilution Factor: 1		Analysis Time...: 20:56		
Magnesium	44000	5000	ug/L	SW846 6010B	03/17-03/26/04	GA58N1AL
		Dilution Factor: 1		Analysis Time...: 20:56		
Sodium	36000	5000	ug/L	SW846 6010B	03/17-03/26/04	GA58N1AM
		Dilution Factor: 1		Analysis Time...: 20:56		
Calcium	120000	5000	ug/L	SW846 6010B	03/17-03/26/04	GA58N1AP
		Dilution Factor: 1		Analysis Time...: 20:56		
Manganese	9.4 J	5.0	ug/L	SW846 6010B	03/17-03/26/04	GA58N1AR
		Dilution Factor: 1		Analysis Time...: 20:56		
Potassium	5100	5000	ug/L	SW846 6010B	03/17-03/26/04	GA58N1AV
		Dilution Factor: 1		Analysis Time...: 20:56		

NOTE(S) :

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE MANAGEMENT INC

Client Sample ID: P-08

General Chemistry

Lot-Sample #...: D4C120192-001

Work Order #...: GA58N

Matrix.....: WATER

Date Sampled...: 03/11/04 13:55

Date Received...: 03/12/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Bicarbonate Alkalinity	540	10	mg/L	MCAWW 310.1	03/17/04	4079199
				Dilution Factor: 1	Analysis Time...: 19:00	
Carbonate Alkalinity	ND	10	mg/L	MCAWW 310.1	03/17/04	4079200
				Dilution Factor: 1	Analysis Time...: 19:00	
Chloride	12	0.50	mg/L	MCAWW 300.0A	03/12/04	4075471
				Dilution Factor: 1	Analysis Time...: 16:06	
Ion Balance Difference	0.44	--	%	SM18 1030F & API	03/29/04	4089176
				Dilution Factor: 1	Analysis Time...: 09:00	
Nitrate	1.9	0.050	mg/L	MCAWW 300.0A	03/12/04	4075473
				Dilution Factor: 1	Analysis Time...: 16:06	
Sulfate	6.3	5.0	mg/L	MCAWW 300.0A	03/12/04	4075474
				Dilution Factor: 1	Analysis Time...: 16:06	
Total Alkalinity	540	5.0	mg/L	MCAWW 310.1	03/17/04	4079188
				Dilution Factor: 1	Analysis Time...: 19:00	
Total Anions	11	0.30	meq/L	SM17 1030F & API	03/29/04	4089178
				Dilution Factor: 1	Analysis Time...: 09:00	
Total Cations	11	0.10	meq/L	SM17 1030F & API	03/29/04	4089177
				Dilution Factor: 1	Analysis Time...: 09:00	

ION BALANCE REPORT

Lab Sample ID: D4C120192-001
Client Sample ID: P-08

SAMPLE SUMMARY

Percent Difference	0.35
Total Ions (meq/L)	22.53
TDS Ratio (measured/calculated)	NC
Calculated TDS (cations+anions, mg/L)	765.30

CATION ANALYSES

Analyte	mg/L	meq/L
Calcium	120.00	5.99
Magnesium	44.00	3.62
Potassium	5.10	0.13
Sodium	36.00	1.57
Ammonia as N	NA	NA
Iron	ND	ND
Aluminum	NA	NA
Total Cations	205.10	11.30

ANION ANALYSES

Analyte	mg/L	meq/L
Chloride	12.00	0.34
Sulfate	6.30	0.13
Nitrate+Nitrite	1.90	0.14
Carbonate Alkalinity	ND	ND
Bicarbonate Alkalinity	540.00	10.62
Hydroxide Alkalinity	NA	NA
Total Alkalinity	NC	NC
Total Anions	560.20	11.22

OTHER ANALYSES

Analyte	mg/L
Total Dissolved Solids	NA

ND - Not Detected
NA - Not Analyzed
NC - Not Calculated

Note: Calculations are most accurate under standard conditions. Extremes of pH or conductivity may lead to inaccuracy, as will high levels of cations or anions not analyzed.

EMCON QA/QC Review
Groundwater- 1Q 2004 P-08 Groundwater Sampling Event
Greater Wenatchee Regional Landfill
STL-Denver Report #D4C120192

Samples: P-08 and Trip Blank.

Reviewed Date: 04/08/2004 (JTD)

Sampled Dates: 03/11/2004

Sample Received Date: 03/12/2004

Cation/Anion Balances: P-08= 0.35 %.

VOCs

All sample surrogate % recoveries within QC limits.

Trip Blanks Methylene chloride = 0.79 ug/L detected below the RL of 1.7 ug/L (J flag), and all surrogate recoveries were within recovery limits.

Method Blanks All ND; all surrogate % recoveries within QC limits.

LCS All % recoveries within QC limits, and all surrogate recoveries within limits.

Matrix Spikes All % recoveries within QC limits, and all surrogate recoveries within limits.

MSD All RPDs within QC limits.

Dissolved Metals

Method Blanks Mn detected below its RL (B flag). All other analytes were ND.

LCS All % recoveries within control limits.

Matrix Spikes All spike % recoveries were within QC limits.

MSD All calculated RPDs were within QC limits.

Wet Chemistry

Method Blanks No wet chemistry parameters were detected above the project established RL limits.

LCS All % recoveries within control limits.

Matrix Spikes All matrix spike recoveries within QC limits.

MSD All RPDs were within QC limits.

Duplicates All RPDs within QC limits.

Hold Times

All analytical hold times met.

Reporting Limits

All analytical addendum reporting limits met.

Field QA/QC

One trip blank traveled with the samples collected on 03/11/2004. The trip blanks was analyzed for VOCs (EPA method 8260). All VOC's in the trip blanks were reported as non-detect except for methylene chloride, which was detected below the RL (J flag), and all corresponding surrogate recoveries were within quality control limits.

Note

I emailed STL on 04/08/2004 requesting re-analysis of MW-10 for methylene chloride, also inquired about any potential lab contamination issue at the lab regarding Methylene chloride.

Data Validation

Upon final review of lab report # D4C120192 for Greater Wenatchee Regional Landfill, EMCON/OWT, Inc. finds the analytical results to be valid for their intended use (04/08/2004; JTD).

**GAS SAMPLES
(JANUARY AND MARCH 2004)**

Received
EMCON/OWT, Inc.By JD
Date 2/18/04
Project 842544 02002004

February 16, 2004

STL LOT NUMBER: **E4A290231**

Mr. Jason Davendonis
EMCON/OWT, Inc.
10300 SW Nimbus Ave.
Suite B
Portland, OR 97223

Dear Mr. Davendonis:

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on January 27, 2004. These samples are associated with your GREATER WENATCHEE LF SOIL VAP STUDY project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria. Any matrix related anomaly is footnoted within the report.

Preliminary results were sent via email to the following addresses on February 5 and 11, 2004: Jason.davendonis@shawgrp.com, joberein@wm.com, and tmassart@scsengineers.com.

This report shall not be reproduced except in full, without the written approval of the laboratory.

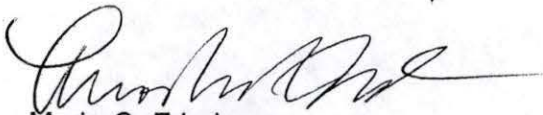
This report contains **000041** pages.

CASE NARRATIVE

There are no anomalies associated with this report.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,



Maria O. Friedman
Project Manager

cc: Project File

000002



ST
TRENT **SIL**
Sewern Trent Laboratories, Inc.

Client SCS Engineers	Project Manager Ted Messert	Date 26-Jan-04	Chain of Custody Number 132367
Address 2405 140th Ave NE #107	Telephone Number (Area Code)/Fax Number 425-746 4000	Lab Number E4A290231	Page 1 of 1

City Bellvue	State WA	Zip Code 98005	Site Contact Jim Oberacher	Lab Contact Maria Friedman	Analysis (Attach list if more space is needed)
Project Name and Location (State)			Carrier/Waybill Number		

Project Name and Location (State) Soil Vapor Study - G. Wrench Reg. LF		Carrier/Waybill Number		Special Instructions/ N2 AS
Contract/Purchase Order/Quote No.				

Contract/Purchase Order/Quote No. Waste Management	Matrix	Containers & Preservatives	CO ₂	Special Instructions/ Conditions of Receipt
---	--------	----------------------------	-----------------	--

[illegible][illegible]

Possible Hazard Identification					Sample Disposal				
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Return To Client	☐ Disposal By Lab	☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)	

Turn Around Time Required ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

1. Relinquished By  TED MASSART	Date 26-12-04	Time 11:30 am	1. Received By 	Date 27-12-04	Time 10:30
--	------------------	------------------	---	------------------	---------------

2. Relinquished By	Date	Time	2. Received By	Date	Time

3. Relinquished By	Date	Time	3. Received By	Date	Time
--------------------	------	------	----------------	------	------

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN
TRENT

STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 1245
DATE CLEANED: 11-24-03 B
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	1/20/04	(P)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	2.71	1-29-04	m
FINAL PRESSURE (PSIA)	18.66	1-29-04	r

Pressurization Gas: N₂

COMMENTS:

6.88 56

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

**SEVERN
TRENT**

STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
 CANISTER SERIAL #: 2913
 DATE CLEANED: 11-24-03B
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	1/20/04	(K)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	2.78	1-29-04	~
FINAL PRESSURE (PSIA)	17.66	1-29-04	~

Pressurization Gas: 4

COMMENTS:

6.35W

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

N:\CONDOCS\CANISTER FIELD DATA RECORD(012103).doc

SEVERN
TRENT

STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 1260
DATE CLEANED: 11-24-03B
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	1/20/04	(K)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	2.77	1-29-04	~
FINAL PRESSURE (PSIA)	17.54	1-29-04	~

Pressurization Gas: Ar

COMMENTS:

6.3721

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMT
 CANISTER SERIAL #: 1307
 DATE CLEANED: 11-24-03 B
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	1/20/03	(P)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	3.00	1-27-04	
FINAL PRESSURE (PSIA)	17.86	1-27-04	

Pressurization Gas: N₂

COMMENTS:

5.95 33

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

**SEVERN
TRENT**

STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
 CANISTER SERIAL #: 1248A
 DATE CLEANED: 11-24-03 B
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	1/20/04	(12)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)			
FINAL PRESSURE (PSIA)			

Pressurization Gas: _____

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
	15 Min.	316 - 333
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMT
 CANISTER SERIAL #: 2262
 DATE CLEANED: 11-24-03 B
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp. : _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	1/20/04	Ⓚ
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)			
FINAL PRESSURE (PSIA)			

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

Analytical Report

ANALYTICAL REPORT

G.WENATCHEE LF SOIL VAP STUDY

Lot #: E4A290231

Jason Davendonis

EMCON/OWT, Inc.

SEVERN TRENT LABORATORIES, INC.

**Maria Friedman
Project Manager**

February 16, 2004

EXECUTIVE SUMMARY - Detection Highlights

B4A290231

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP-MW7-83 01/23/04 13:10 001				
Carbon dioxide	9.9	0.069	% (v/v)	ASTM D1946
Oxygen	2.1	0.69	% (v/v)	ASTM D1946
Nitrogen	86	6.9	% (v/v)	ASTM D1946
Methane	1.4	0.0014	% (v/v)	ASTM D1946
2-Propanol	67	23	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	170	4.6	ppb (v/v)	EPA-2 TO-15
Ethanol	610	58	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	540	4.6	ppb (v/v)	EPA-2 TO-15
n-Hexane	160	4.6	ppb (v/v)	EPA-2 TO-15
Acetone	34	23	ppb (v/v)	EPA-2 TO-15
Chloroethane	18	9.2	ppb (v/v)	EPA-2 TO-15
Toluene	25	4.6	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	32	4.6	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	150	4.6	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	150	4.6	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	9.9	4.6	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	6100	46	ppb (v/v)	EPA-2 TO-15
DP-MW7-101 01/23/04 13:52 002				
Carbon dioxide	8.4	0.064	% (v/v)	ASTM D1946
Oxygen	1.9	0.64	% (v/v)	ASTM D1946
Nitrogen	88	6.4	% (v/v)	ASTM D1946
Methane	0.33	0.0013	% (v/v)	ASTM D1946
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	170	4.2	ppb (v/v)	EPA-2 TO-15
Ethanol	480	53	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	580	4.2	ppb (v/v)	EPA-2 TO-15
n-Hexane	97	4.2	ppb (v/v)	EPA-2 TO-15
Acetone	47	21	ppb (v/v)	EPA-2 TO-15
Toluene	8.7	4.2	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	30	4.2	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	160	4.2	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	27	4.2	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	6.0	4.2	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	6200	42	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4A290231

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DP-INFILPOND-30 01/23/04 16:10 003				
Carbon dioxide	12	0.063	% (v/v)	ASTM D1946
Oxygen	11	0.63	% (v/v)	ASTM D1946
Nitrogen	77	6.3	% (v/v)	ASTM D1946
1,1-Dichloroethane	37	4.2	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	9.5	4.2	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	11	4.2	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	32	4.2	ppb (v/v)	EPA-2 TO-15
Acetone	130	21	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	440	4.2	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	160	4.2	ppb (v/v)	EPA-2 TO-15
Toluene	5.7	4.2	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	17	4.2	ppb (v/v)	EPA-2 TO-15
Trichloroethene	8.9	4.2	ppb (v/v)	EPA-2 TO-15
DP-INFILPOND-54 01/23/04 16:41 004				
Carbon dioxide	19	0.060	% (v/v)	ASTM D1946
Oxygen	4.2	0.60	% (v/v)	ASTM D1946
Nitrogen	72	6.0	% (v/v)	ASTM D1946
Methane	4.7	0.0012	% (v/v)	ASTM D1946
1,1-Dichloroethane	200	24	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	680	24	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	38	24	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	90	24	ppb (v/v)	EPA-2 TO-15
n-Hexane	77	24	ppb (v/v)	EPA-2 TO-15
Benzene	29	24	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	1400	24	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	250	24	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	47	24	ppb (v/v)	EPA-2 TO-15
Trichloroethene	71	24	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	740	24	ppb (v/v)	EPA-2 TO-15

METHODS SUMMARY

E4A290231

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Fixed Gases	ASTM D1946	
Volatile Organics by TO15	EPA-2 TO-15	

References:

- ASTM Annual Book Of ASTM Standards.
- EPA-2 "Compendium of Methods for the Determination of Toxic
Organic Compounds in Ambient Air", EPA-625/R-96/010b,
January 1999.

SAMPLE SUMMARY

B4A290231

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F8Q0X	001	DP-MW7-83	01/23/04	13:10
F8Q02	002	DP-MW7-101	01/23/04	13:52
F8Q03	003	DP-INFILPOND-30	01/23/04	16:10
F8Q06	004	DP-INFILPOND-54	01/23/04	16:41

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.

EMCON/OWT, INC

Client Sample ID: DP-MW7-83

GC/MS Volatiles

Lot-Sample #....: E4A290231-001 Work Order #....: F8Q0X1AC Matrix.....: AIR
 Date Sampled....: 01/23/04 13:10 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 02/06/04 Analysis Date...: 02/06/04
 Prep Batch #....: 4040471 Analysis Time...: 21:36
 Dilution Factor: 2.3
 Analyst ID.....: 117751 Instrument ID...: MSA
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethane	ND	4.6	ppb (v/v)	1.2
2-Hexanone	ND	23	ppb (v/v)	2.3
2-Propanol	67	23	ppb (v/v)	2.3
Methylene chloride	ND	4.6	ppb (v/v)	1.8
Naphthalene	ND	12	ppb (v/v)	1.2
Styrene	ND	4.6	ppb (v/v)	1.4
1,2-Dichloroethane	ND	4.6	ppb (v/v)	1.8
1,1-Dichloroethene	ND	4.6	ppb (v/v)	1.2
cis-1,2-Dichloroethene	ND	4.6	ppb (v/v)	1.8
trans-1,2-Dichloroethene	ND	4.6	ppb (v/v)	1.2
1,2-Dichloropropane	ND	4.6	ppb (v/v)	1.8
cis-1,3-Dichloropropene	ND	4.6	ppb (v/v)	1.2
trans-1,3-Dichloropropene	ND	4.6	ppb (v/v)	1.8
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	170	4.6	ppb (v/v)	1.8
1,4-Dioxane	ND	23	ppb (v/v)	4.6
Ethanol	610	58	ppb (v/v)	5.1
Ethylbenzene	ND	4.6	ppb (v/v)	1.2
Trichlorofluoromethane	540	4.6	ppb (v/v)	1.2
Hexachlorobutadiene	ND	9.2	ppb (v/v)	2.3
n-Hexane	160	4.6	ppb (v/v)	1.4
Acetone	34	23	ppb (v/v)	4.6
Acetonitrile	ND	9.2	ppb (v/v)	1.8
Acrolein	ND	9.2	ppb (v/v)	1.8
Acrylonitrile	ND	23	ppb (v/v)	2.3
Benzene	ND	4.6	ppb (v/v)	1.8
Benzyl chloride	ND	23	ppb (v/v)	1.8
Bromodichloromethane	ND	4.6	ppb (v/v)	1.8
Bromoform	ND	4.6	ppb (v/v)	1.2
Bromomethane	ND	4.6	ppb (v/v)	2.3
1,3-Butadiene	ND	9.2	ppb (v/v)	2.1
Carbon disulfide	ND	23	ppb (v/v)	4.6
Carbon tetrachloride	ND	4.6	ppb (v/v)	1.2
Chlorobenzene	ND	4.6	ppb (v/v)	1.2
Dibromochloromethane	ND	4.6	ppb (v/v)	1.2
1,2-Dibromo-3-chloro- propane	ND	4.6	ppb (v/v)	1.2

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: DP-MW7-83

GC/MS Volatiles

Lot-Sample #....: E4A290231-001 Work Order #....: F8Q0X1AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloroethane	18	9.2	ppb (v/v)	1.8
Chloroform	ND	4.6	ppb (v/v)	1.8
Chloromethane	ND	9.2	ppb (v/v)	2.3
Allyl chloride	ND	9.2	ppb (v/v)	1.2
1,2-Dichlorobenzene	ND	4.6	ppb (v/v)	1.8
1,3-Dichlorobenzene	ND	4.6	ppb (v/v)	1.6
1,4-Dichlorobenzene	ND	4.6	ppb (v/v)	1.8
1,1,2,2-Tetrachloroethane	ND	4.6	ppb (v/v)	1.2
Tetrachloroethene	ND	4.6	ppb (v/v)	1.4
Toluene	25	4.6	ppb (v/v)	1.2
1,2,4-Trichloro- benzene	ND	12	ppb (v/v)	2.3
1,1,1-Trichloroethane	32	4.6	ppb (v/v)	1.2
1,1,2-Trichloroethane	ND	4.6	ppb (v/v)	1.4
Trichloroethene	ND	4.6	ppb (v/v)	1.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	150	4.6	ppb (v/v)	1.2
1,2,4-Trimethylbenzene	ND	4.6	ppb (v/v)	1.8
1,3,5-Trimethylbenzene	ND	4.6	ppb (v/v)	1.8
Vinyl acetate	ND	23	ppb (v/v)	4.6
Vinyl chloride	150	4.6	ppb (v/v)	1.8
o-Xylene	ND	4.6	ppb (v/v)	1.4
n-Nonane	ND	23	ppb (v/v)	
Methyl tert-butyl ether	ND	4.6	ppb (v/v)	1.2
m-Xylene & p-Xylene	9.9	4.6	ppb (v/v)	2.3
1,2-Dibromoethane (EDB)	ND	4.6	ppb (v/v)	1.2
2-Butanone (MEK)	ND	23	ppb (v/v)	4.6
4-Methyl-2-pentanone (MIBK)	ND	23	ppb (v/v)	4.6
4-Ethyltoluene	ND	4.6	ppb (v/v)	1.6
Cumene	ND	4.6	ppb (v/v)	1.2

EMCON/OWT, INC

Client Sample ID: DP-MW7-83

GC/MS Volatiles

Lot-Sample #....: E4A290231-001 Work Order #....: F8Q0X2AC Matrix.....: AIR
 Date Sampled....: 01/23/04 13:10 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 02/09/04 Analysis Date...: 02/09/04
 Prep Batch #....: 4040477 Analysis Time...: 11:46
 Dilution Factor: 23
 Analyst ID.....: 117751 Instrument ID...: MSA
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	6100	46	ppb (v/v)	12

EMCON/OWT, INC

Client Sample ID: DP-MW7-83

GC Volatiles

Lot-Sample #...: E4A290231-001 Work Order #...: F8Q0X1AD Matrix.....: AIR
 Date Sampled...: 01/23/04 13:10 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #...: 4029490 Analysis Time...: 14:14
 Dilution Factor: 6.88
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Carbon dioxide	9.9	0.069	% (v/v)	0.014
Oxygen	2.1	0.69	% (v/v)	0.21
Nitrogen	86	6.9	% (v/v)	4.8
Methane	1.4	0.0014	% (v/v)	0.00041
Carbon monoxide	ND	0.0069	% (v/v)	0.0021

EMCON/OWT, INC

Client Sample ID: DP-MW7-101

GC/MS Volatiles

Lot-Sample #....: E4A290231-002 Work Order #....: F8Q021AC Matrix.....: AIR
 Date Sampled....: 01/23/04 13:52 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 02/06/04 Analysis Date...: 02/06/04
 Prep Batch #....: 4040471 Analysis Time...: 22:12
 Dilution Factor: 2.12
 Analyst ID.....: 117751 Instrument ID...: MSA
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethane	ND	4.2	ppb (v/v)	1.1
2-Hexanone	ND	21	ppb (v/v)	2.1
2-Propanol	ND	21	ppb (v/v)	2.1
Methylene chloride	ND	4.2	ppb (v/v)	1.7
Naphthalene	ND	11	ppb (v/v)	1.1
Styrene	ND	4.2	ppb (v/v)	1.3
1,2-Dichloroethane	ND	4.2	ppb (v/v)	1.7
1,1-Dichloroethene	ND	4.2	ppb (v/v)	1.1
cis-1,2-Dichloroethene	ND	4.2	ppb (v/v)	1.7
trans-1,2-Dichloroethene	ND	4.2	ppb (v/v)	1.1
1,2-Dichloropropane	ND	4.2	ppb (v/v)	1.7
cis-1,3-Dichloropropene	ND	4.2	ppb (v/v)	1.1
trans-1,3-Dichloropropene	ND	4.2	ppb (v/v)	1.7
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	170	4.2	ppb (v/v)	1.7
1,4-Dioxane	ND	21	ppb (v/v)	4.2
Ethanol	480	53	ppb (v/v)	4.7
Ethylbenzene	ND	4.2	ppb (v/v)	1.1
Trichlorofluoromethane	580	4.2	ppb (v/v)	1.1
Hexachlorobutadiene	ND	8.5	ppb (v/v)	2.1
n-Hexane	97	4.2	ppb (v/v)	1.3
Acetone	47	21	ppb (v/v)	4.2
Acetonitrile	ND	8.5	ppb (v/v)	1.7
Acrolein	ND	8.5	ppb (v/v)	1.7
Acrylonitrile	ND	21	ppb (v/v)	2.1
Benzene	ND	4.2	ppb (v/v)	1.7
Benzyl chloride	ND	21	ppb (v/v)	1.7
Bromodichloromethane	ND	4.2	ppb (v/v)	1.7
Bromoform	ND	4.2	ppb (v/v)	1.1
Bromomethane	ND	4.2	ppb (v/v)	2.1
1,3-Butadiene	ND	8.5	ppb (v/v)	1.9
Carbon disulfide	ND	21	ppb (v/v)	4.2
Carbon tetrachloride	ND	4.2	ppb (v/v)	1.1
Chlorobenzene	ND	4.2	ppb (v/v)	1.1
Dibromochloromethane	ND	4.2	ppb (v/v)	1.1
1,2-Dibromo-3-chloro- propane	ND	4.2	ppb (v/v)	1.1

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: DP-MW7-101

GC/MS Volatiles

Lot-Sample #...: E4A290231-002 Work Order #...: F8Q021AC

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloroethane	ND	8.5	ppb (v/v)	1.7
Chloroform	ND	4.2	ppb (v/v)	1.7
Chloromethane	ND	8.5	ppb (v/v)	2.1
Allyl chloride	ND	8.5	ppb (v/v)	1.1
1,2-Dichlorobenzene	ND	4.2	ppb (v/v)	1.7
1,3-Dichlorobenzene	ND	4.2	ppb (v/v)	1.5
1,4-Dichlorobenzene	ND	4.2	ppb (v/v)	1.7
1,1,2,2-Tetrachloroethane	ND	4.2	ppb (v/v)	1.1
Tetrachloroethene	ND	4.2	ppb (v/v)	1.3
Toluene	8.7	4.2	ppb (v/v)	1.1
1,2,4-Trichloro- benzene	ND	11	ppb (v/v)	2.1
1,1,1-Trichloroethane	30	4.2	ppb (v/v)	1.1
1,1,2-Trichloroethane	ND	4.2	ppb (v/v)	1.3
Trichloroethene	ND	4.2	ppb (v/v)	1.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	160	4.2	ppb (v/v)	1.1
1,2,4-Trimethylbenzene	ND	4.2	ppb (v/v)	1.7
1,3,5-Trimethylbenzene	ND	4.2	ppb (v/v)	1.7
Vinyl acetate	ND	21	ppb (v/v)	4.2
Vinyl chloride	27	4.2	ppb (v/v)	1.7
o-Xylene	ND	4.2	ppb (v/v)	1.3
n-Nonane	ND	21	ppb (v/v)	
Methyl tert-butyl ether	ND	4.2	ppb (v/v)	1.1
m-Xylene & p-Xylene	6.0	4.2	ppb (v/v)	2.1
1,2-Dibromoethane (EDB)	ND	4.2	ppb (v/v)	1.1
2-Butanone (MEK)	ND	21	ppb (v/v)	4.2
4-Methyl-2-pentanone (MIBK)	ND	21	ppb (v/v)	4.2
4-Ethyltoluene	ND	4.2	ppb (v/v)	1.5
Cumene	ND	4.2	ppb (v/v)	1.1

EMCON/OWT, INC

Client Sample ID: DP-MW7-101

GC/MS Volatiles

Lot-Sample #...: E4A290231-002 Work Order #...: F8Q022AC Matrix.....: AIR
Date Sampled...: 01/23/04 13:52 Date Received...: 01/27/04 10:30 MS Run #.....:
Prep Date.....: 02/09/04 Analysis Date...: 02/09/04
Prep Batch #...: 4040477 Analysis Time...: 12:20
Dilution Factor: 21.22
Analyst ID.....: 117751 Instrument ID...: MSA
Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dichlorodifluoromethane	6200	42	ppb (v/v)	11

EMCON/OWT, INC

Client Sample ID: DP-MW7-101

GC Volatiles

Lot-Sample #....: E4A290231-002 Work Order #....: F8Q021AD Matrix.....: AIR
 Date Sampled....: 01/23/04 13:52 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #....: 4029490 Analysis Time...: 14:38
 Dilution Factor: 6.35
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	8.4	0.064	% (v/v)	0.013
Oxygen	1.9	0.64	% (v/v)	0.19
Nitrogen	88	6.4	% (v/v)	4.4
Methane	0.33	0.0013	% (v/v)	0.00038
Carbon monoxide	ND	0.0064	% (v/v)	0.0019

EMCON/OWT, INC

Client Sample ID: DP-INFILPOND-30

GC/MS Volatiles

Lot-Sample #....: E4A290231-003 Work Order #....: F8Q031AC Matrix.....: AIR
 Date Sampled....: 01/23/04 16:10 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 02/06/04 Analysis Date...: 02/06/04
 Prep Batch #....: 4040471 Analysis Time...: 22:51
 Dilution Factor: 2.1
 Analyst ID.....: 117751 Instrument ID...: MSA
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1-Dichloroethane	37	4.2	ppb (v/v)	1.0
2-Hexanone	ND	21	ppb (v/v)	2.1
2-Propanol	ND	21	ppb (v/v)	2.1
Methylene chloride	ND	4.2	ppb (v/v)	1.7
Naphthalene	ND	10	ppb (v/v)	1.0
Styrene	ND	4.2	ppb (v/v)	1.3
1,2-Dichloroethane	ND	4.2	ppb (v/v)	1.7
1,1-Dichloroethene	ND	4.2	ppb (v/v)	1.0
cis-1,2-Dichloroethene	9.5	4.2	ppb (v/v)	1.7
trans-1,2-Dichloroethene	ND	4.2	ppb (v/v)	1.0
1,2-Dichloropropane	ND	4.2	ppb (v/v)	1.7
cis-1,3-Dichloropropene	ND	4.2	ppb (v/v)	1.0
trans-1,3-Dichloropropene	ND	4.2	ppb (v/v)	1.7
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	11	4.2	ppb (v/v)	1.7
1,4-Dioxane	ND	21	ppb (v/v)	4.2
Ethanol	ND	52	ppb (v/v)	4.6
Ethylbenzene	ND	4.2	ppb (v/v)	1.0
Trichlorofluoromethane	32	4.2	ppb (v/v)	1.0
Hexachlorobutadiene	ND	8.4	ppb (v/v)	2.1
n-Hexane	ND	4.2	ppb (v/v)	1.3
Acetone	130	21	ppb (v/v)	4.2
Acetonitrile	ND	8.4	ppb (v/v)	1.7
Acrolein	ND	8.4	ppb (v/v)	1.7
Acrylonitrile	ND	21	ppb (v/v)	2.1
Benzene	ND	4.2	ppb (v/v)	1.7
Benzyl chloride	ND	21	ppb (v/v)	1.7
Bromodichloromethane	ND	4.2	ppb (v/v)	1.7
Bromoform	ND	4.2	ppb (v/v)	1.0
Bromomethane	ND	4.2	ppb (v/v)	2.1
1,3-Butadiene	ND	8.4	ppb (v/v)	1.9
Carbon disulfide	ND	21	ppb (v/v)	4.2
Carbon tetrachloride	ND	4.2	ppb (v/v)	1.0
Chlorobenzene	ND	4.2	ppb (v/v)	1.0
Dibromochloromethane	ND	4.2	ppb (v/v)	1.0
1,2-Dibromo-3-chloro- propane	ND	4.2	ppb (v/v)	1.0

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: DP-INFILPOND-30

GC/MS Volatiles

Lot-Sample #....: E4A290231-003 Work Order #....: F8Q031AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloroethane	ND	8.4	ppb (v/v)	1.7
Chloroform	ND	4.2	ppb (v/v)	1.7
Chloromethane	ND	8.4	ppb (v/v)	2.1
Allyl chloride	ND	8.4	ppb (v/v)	1.0
1,2-Dichlorobenzene	ND	4.2	ppb (v/v)	1.7
1,3-Dichlorobenzene	ND	4.2	ppb (v/v)	1.5
1,4-Dichlorobenzene	ND	4.2	ppb (v/v)	1.7
Dichlorodifluoromethane	440	4.2	ppb (v/v)	1.0
1,1,2,2-Tetrachloroethane	ND	4.2	ppb (v/v)	1.0
Tetrachloroethene	160	4.2	ppb (v/v)	1.3
Toluene	5.7	4.2	ppb (v/v)	1.0
1,2,4-Trichloro- benzene	ND	10	ppb (v/v)	2.1
1,1,1-Trichloroethane	17	4.2	ppb (v/v)	1.0
1,1,2-Trichloroethane	ND	4.2	ppb (v/v)	1.3
Trichloroethene	8.9	4.2	ppb (v/v)	1.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	4.2	ppb (v/v)	1.0
1,2,4-Trimethylbenzene	ND	4.2	ppb (v/v)	1.7
1,3,5-Trimethylbenzene	ND	4.2	ppb (v/v)	1.7
Vinyl acetate	ND	21	ppb (v/v)	4.2
Vinyl chloride	ND	4.2	ppb (v/v)	1.7
o-Xylene	ND	4.2	ppb (v/v)	1.3
n-Nonane	ND	21	ppb (v/v)	
Methyl tert-butyl ether	ND	4.2	ppb (v/v)	1.0
m-Xylene & p-Xylene	ND	4.2	ppb (v/v)	2.1
1,2-Dibromoethane (EDB)	ND	4.2	ppb (v/v)	1.0
2-Butanone (MEK)	ND	21	ppb (v/v)	4.2
4-Methyl-2-pentanone (MIBK)	ND	21	ppb (v/v)	4.2
4-Ethyltoluene	ND	4.2	ppb (v/v)	1.5
Cumene	ND	4.2	ppb (v/v)	1.0

EMCON/OWT, INC

Client Sample ID: DP-INFILPOND-30

GC Volatiles

Lot-Sample #...: E4A290231-003 Work Order #...: F8Q031AD Matrix.....: AIR
 Date Sampled...: 01/23/04 16:10 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #...: 4029490 Analysis Time...: 15:52
 Dilution Factor: 6.33
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Carbon dioxide	12	0.063	%(v/v)	0.013
Oxygen	11	0.63	%(v/v)	0.19
Nitrogen	77	6.3	%(v/v)	4.4
Methane	ND	0.0013	%(v/v)	0.00038
Carbon monoxide	ND	0.0063	%(v/v)	0.0019

EMCON/OWT, INC

Client Sample ID: DP-INFILPOND-54

GC/MS Volatiles

Lot-Sample #....: E4A290231-004 Work Order #....: F8Q061AC Matrix.....: AIR
 Date Sampled....: 01/23/04 16:41 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 02/06/04 Analysis Date...: 02/06/04
 Prep Batch #....: 4040471 Analysis Time...: 20:56
 Dilution Factor: 11.93
 Analyst ID.....: 117751 Instrument ID...: MSA
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethane	200	24	ppb (v/v)	6.0
2-Hexanone	ND	120	ppb (v/v)	12
2-Propanol	ND	120	ppb (v/v)	12
Methylene chloride	ND	24	ppb (v/v)	9.5
Naphthalene	ND	60	ppb (v/v)	6.0
Styrene	ND	24	ppb (v/v)	7.2
1,2-Dichloroethane	ND	24	ppb (v/v)	9.5
1,1-Dichloroethene	ND	24	ppb (v/v)	6.0
cis-1,2-Dichloroethene	680	24	ppb (v/v)	9.5
trans-1,2-Dichloroethene	ND	24	ppb (v/v)	6.0
1,2-Dichloropropane	ND	24	ppb (v/v)	9.5
cis-1,3-Dichloropropene	ND	24	ppb (v/v)	6.0
trans-1,3-Dichloropropene	ND	24	ppb (v/v)	9.5
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	38	24	ppb (v/v)	9.5
1,4-Dioxane	ND	120	ppb (v/v)	24
Ethanol	ND	300	ppb (v/v)	26
Ethylbenzene	ND	24	ppb (v/v)	6.0
Trichlorofluoromethane	90	24	ppb (v/v)	6.0
Hexachlorobutadiene	ND	48	ppb (v/v)	12
n-Hexane	77	24	ppb (v/v)	7.2
Acetone	ND	120	ppb (v/v)	24
Acetonitrile	ND	48	ppb (v/v)	9.5
Acrolein	ND	48	ppb (v/v)	9.5
Acrylonitrile	ND	120	ppb (v/v)	12
Benzene	29	24	ppb (v/v)	9.5
Benzyl chloride	ND	120	ppb (v/v)	9.5
Bromodichloromethane	ND	24	ppb (v/v)	9.5
Bromoform	ND	24	ppb (v/v)	6.0
Bromomethane	ND	24	ppb (v/v)	12
1,3-Butadiene	ND	48	ppb (v/v)	11
Carbon disulfide	ND	120	ppb (v/v)	24
Carbon tetrachloride	ND	24	ppb (v/v)	6.0
Chlorobenzene	ND	24	ppb (v/v)	6.0
Dibromochloromethane	ND	24	ppb (v/v)	6.0
1,2-Dibromo-3-chloro- propane	ND	24	ppb (v/v)	6.0

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: DP-INFILPOND-54

GC/MS Volatiles

Lot-Sample #....: E4A290231-004 Work Order #....: F8Q061AC Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloroethane	ND	48	ppb (v/v)	9.5
Chloroform	ND	24	ppb (v/v)	9.5
Chloromethane	ND	48	ppb (v/v)	12
Allyl chloride	ND	48	ppb (v/v)	6.0
1,2-Dichlorobenzene	ND	24	ppb (v/v)	9.5
1,3-Dichlorobenzene	ND	24	ppb (v/v)	8.4
1,4-Dichlorobenzene	ND	24	ppb (v/v)	9.5
Dichlorodifluoromethane	1400	24	ppb (v/v)	6.0
1,1,2,2-Tetrachloroethane	ND	24	ppb (v/v)	6.0
Tetrachloroethene	250	24	ppb (v/v)	7.2
Toluene	ND	24	ppb (v/v)	6.0
1,2,4-Trichloro- benzene	ND	60	ppb (v/v)	12
1,1,1-Trichloroethane	47	24	ppb (v/v)	6.0
1,1,2-Trichloroethane	ND	24	ppb (v/v)	7.2
Trichloroethene	71	24	ppb (v/v)	6.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	24	ppb (v/v)	6.0
1,2,4-Trimethylbenzene	ND	24	ppb (v/v)	9.5
1,3,5-Trimethylbenzene	ND	24	ppb (v/v)	9.5
Vinyl acetate	ND	120	ppb (v/v)	24
Vinyl chloride	740	24	ppb (v/v)	9.5
o-Xylene	ND	24	ppb (v/v)	7.2
n-Nonane	ND	120	ppb (v/v)	
Methyl tert-butyl ether	ND	24	ppb (v/v)	6.0
m-Xylene & p-Xylene	ND	24	ppb (v/v)	12
1,2-Dibromoethane (EDB)	ND	24	ppb (v/v)	6.0
2-Butanone (MEK)	ND	120	ppb (v/v)	24
4-Methyl-2-pentanone (MIBK)	ND	120	ppb (v/v)	24
4-Ethyltoluene	ND	24	ppb (v/v)	8.4
Cumene	ND	24	ppb (v/v)	6.0

EMCON/OWT, INC

Client Sample ID: DP-INFILPOND-54

GC Volatiles

Lot-Sample #....: E4A290231-004 Work Order #....: F8Q061AD Matrix.....: AIR
 Date Sampled....: 01/23/04 16:41 Date Received...: 01/27/04 10:30 MS Run #.....:
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #....: 4029490 Analysis Time...: 15:25
 Dilution Factor: 5.95
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Carbon dioxide	19	0.060	% (v/v)	0.012
Oxygen	4.2	0.60	% (v/v)	0.18
Nitrogen	72	6.0	% (v/v)	4.2
Methane	4.7	0.0012	% (v/v)	0.00036
Carbon monoxide	ND	0.0060	% (v/v)	0.0018

SEVERN
TRENT

STL

QA/QC

QC DATA ASSOCIATION SUMMARY

K4A290231

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-2 TO-15		4040471	
	AIR	EPA-2 TO-15		4040477	
	AIR	ASTM D1946		4029490	
002	AIR	EPA-2 TO-15		4040471	
	AIR	EPA-2 TO-15		4040477	
	AIR	ASTM D1946		4029490	
003	AIR	EPA-2 TO-15		4040471	
	AIR	ASTM D1946		4029490	
004	AIR	EPA-2 TO-15		4040471	
	AIR	ASTM D1946		4029490	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4A290231
MB Lot-Sample #: M4B090000-471

Work Order #...: F9ATX1AA

Matrix.....: AIR

Analysis Date...: 02/06/04
Dilution Factor: 1

Prep Date.....: 02/06/04
Prep Batch #...: 4040471

Analysis Time...: 11:49
Instrument ID...: MSA

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	10	ppb (v/v)	EPA-2 TO-15
Acetonitrile	ND	4.0	ppb (v/v)	EPA-2 TO-15
Acrolein	ND	4.0	ppb (v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb (v/v)	EPA-2 TO-15
Benzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Benzyl chloride	ND	10	ppb (v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Bromoform	ND	2.0	ppb (v/v)	EPA-2 TO-15
Bromomethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3-Butadiene	ND	4.0	ppb (v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb (v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chlorobromomethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dibromo-3-chloro-propane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb (v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb (v/v)	EPA-2 TO-15
Allyl chloride	ND	4.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb (v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	2.0	ppb (v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,4-Dioxane	ND	10	ppb (v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichlorobutadiene	ND	4.0	ppb (v/v)	EPA-2 TO-15
Hexane	ND	2.0	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4A290231

Work Order #...: F9ATX1AA

Matrix.....: AIR

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
2-Hexanone	ND	10	ppb (v/v)	EPA-2	TO-15
2-Propanol	ND	10	ppb (v/v)	EPA-2	TO-15
Methylene chloride	ND	2.0	ppb (v/v)	EPA-2	TO-15
Naphthalene	ND	5.0	ppb (v/v)	EPA-2	TO-15
Styrene	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb (v/v)	EPA-2	TO-15
Tetrachloroethene	ND	2.0	ppb (v/v)	EPA-2	TO-15
Toluene	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,2,4-Trichloro- benzene	ND	5.0	ppb (v/v)	EPA-2	TO-15
1,1,1-Trichloroethane	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,1,2-Trichloroethane	ND	2.0	ppb (v/v)	EPA-2	TO-15
Trichloroethene	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,2,4-Trimethylbenzene	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,3,5-Trimethylbenzene	ND	2.0	ppb (v/v)	EPA-2	TO-15
Vinyl acetate	ND	10	ppb (v/v)	EPA-2	TO-15
Vinyl chloride	ND	2.0	ppb (v/v)	EPA-2	TO-15
o-Xylene	ND	2.0	ppb (v/v)	EPA-2	TO-15
n-Nonane	ND	10	ppb (v/v)	EPA-2	TO-15
Methyl tert-butyl ether	ND	2.0	ppb (v/v)	EPA-2	TO-15
m-Xylene & p-Xylene	ND	2.0	ppb (v/v)	EPA-2	TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb (v/v)	EPA-2	TO-15
2-Butanone (MEK)	ND	10	ppb (v/v)	EPA-2	TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb (v/v)	EPA-2	TO-15
4-Ethyltoluene	ND	2.0	ppb (v/v)	EPA-2	TO-15
Cumene	ND	2.0	ppb (v/v)	EPA-2	TO-15

NOTE (S) :

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: E4A290231
MB Lot-Sample #: M4B090000-477

Work Order #....: F9AVA1AA

Matrix.....: AIR

Analysis Date...: 02/09/04
Dilution Factor: 1

Prep Date.....: 02/09/04
Prep Batch #....: 4040477

Analysis Time...: 11:11
Instrument ID...: MSA

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: E4A290231
MB Lot-Sample #: M4A290000-490

Work Order #....: F8RH11AA

Matrix.....: AIR

Analysis Date...: 01/29/04

Prep Date.....: 01/29/04

Analysis Time...: 10:40

Dilution Factor: 1

Prep Batch #....: 4029490

Instrument ID...: GC3

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Carbon dioxide	ND	0.010	% (v/v)	ASTM D1946
Oxygen	ND	0.10	% (v/v)	ASTM D1946
Nitrogen	ND	1.0	% (v/v)	ASTM D1946
Methane	ND	0.00020	% (v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	% (v/v)	ASTM D1946

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4A290231 Work Order #...: F9ATX1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4B090000-471 F9ATX1AD-LCSD
 Prep Date.....: 02/06/04 Analysis Date...: 02/06/04
 Prep Batch #...: 4040471 Analysis Time...: 10:34
 Dilution Factor: 1 Instrument ID...: MSA
 Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	89	(70 - 125)			EPA-2 TO-15
	90	(70 - 125)	1.6	(0-20)	EPA-2 TO-15
Methylene chloride	83	(75 - 120)			EPA-2 TO-15
	86	(75 - 120)	3.3	(0-20)	EPA-2 TO-15
Trichloroethene	85	(70 - 125)			EPA-2 TO-15
	86	(70 - 125)	1.5	(0-20)	EPA-2 TO-15
Toluene	95	(75 - 125)			EPA-2 TO-15
	94	(75 - 125)	0.60	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	93	(65 - 130)			EPA-2 TO-15
	94	(65 - 130)	0.87	(0-20)	EPA-2 TO-15

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4A290231 Work Order #...: F9ATX1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4B090000-471 F9ATX1AD-LCSD
 Prep Date.....: 02/06/04 Analysis Date...: 02/06/04
 Prep Batch #...: 4040471 Analysis Time...: 10:34
 Dilution Factor: 1 Instrument ID...: MSA
 Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	52.7	ppb (v/v)	89		EPA-2 TO-15
	59.2	53.5	ppb (v/v)	90	1.6	EPA-2 TO-15
Methylene chloride	58.7	48.6	ppb (v/v)	83		EPA-2 TO-15
	58.7	50.2	ppb (v/v)	86	3.3	EPA-2 TO-15
Trichloroethene	59.5	50.4	ppb (v/v)	85		EPA-2 TO-15
	59.5	51.1	ppb (v/v)	86	1.5	EPA-2 TO-15
Toluene	55.7	52.8	ppb (v/v)	95		EPA-2 TO-15
	55.7	52.5	ppb (v/v)	94	0.60	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	51.4	ppb (v/v)	93		EPA-2 TO-15
	55.4	51.8	ppb (v/v)	94	0.87	EPA-2 TO-15

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 #...: E4A290231 Work Order #...: F9AVA1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4B090000-477 F9AVA1AD-LCSD
 Prep Date.....: 02/09/04 Analysis Date...: 02/09/04
 Prep Batch #...: 4040477 Analysis Time...: 10:03
 Dilution Factor: 1 Instrument ID...: MSA
 Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	88	(70 - 125)			EPA-2 TO-15
	86	(70 - 125)	2.6	(0-20)	EPA-2 TO-15
Methylene chloride	82	(75 - 120)			EPA-2 TO-15
	82	(75 - 120)	0.040	(0-20)	EPA-2 TO-15
Trichloroethene	86	(70 - 125)			EPA-2 TO-15
	86	(70 - 125)	0.95	(0-20)	EPA-2 TO-15
Toluene	96	(75 - 125)			EPA-2 TO-15
	95	(75 - 125)	1.1	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	92	(65 - 130)			EPA-2 TO-15
	93	(65 - 130)	1.6	(0-20)	EPA-2 TO-15

NOTE(S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: E4A290231 Work Order #....: F9AVA1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4B090000-477 F9AVA1AD-LCSD
 Prep Date.....: 02/09/04 Analysis Date...: 02/09/04
 Prep Batch #....: 4040477 Analysis Time...: 10:03
 Dilution Factor: 1 Instrument ID...: MSA
 Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	52.3	ppb (v/v)	88		EPA-2 TO-15
	59.2	51.0	ppb (v/v)	86	2.6	EPA-2 TO-15
Methylene chloride	58.7	48.3	ppb (v/v)	82		EPA-2 TO-15
	58.7	48.4	ppb (v/v)	82	0.040	EPA-2 TO-15
Trichloroethene	59.5	51.4	ppb (v/v)	86		EPA-2 TO-15
	59.5	50.9	ppb (v/v)	86	0.95	EPA-2 TO-15
Toluene	55.7	53.5	ppb (v/v)	96		EPA-2 TO-15
	55.7	52.9	ppb (v/v)	95	1.1	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	50.8	ppb (v/v)	92		EPA-2 TO-15
	55.4	51.6	ppb (v/v)	93	1.6	EPA-2 TO-15

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 Volatiles

Client Lot #...: E4A290231 Work Order #...: F8RH11AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4A290000-490 F8RH11AD-LCSD
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #...: 4029490 Analysis Time...: 09:53
 Dilution Factor: 1 Instrument ID...: GC3
 Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	100	(75 - 125)			ASTM D1946
	100	(75 - 125)	0.40	(0-20)	ASTM D1946
Methane	93	(75 - 135)			ASTM D1946
	93	(75 - 135)	0.42	(0-20)	ASTM D1946

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4A290231 Work Order #...: F8RH11AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4A290000-490 F8RH11AD-LCSD
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #...: 4029490 Analysis Time...: 09:53
 Dilution Factor: 1 Instrument ID...: GC3
 Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	1.00	% (v/v)	100		ASTM D1946
	1.00	0.997	% (v/v)	100	0.40	ASTM D1946
Methane	0.0500	0.0467	% (v/v)	93		ASTM D1946
	0.0500	0.0465	% (v/v)	93	0.42	ASTM D1946

NOTE(S):

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

Bold print denotes control parameters

**EMCON/OWT, Inc. QA/QC Review
Landfill Gas- 1Q 2004 Discrete Soil Vapor (LFG) Sampling Event
Greater Wenatchee Regional Landfill
STL-LA Report # E4A290231**

Sample: DP-MW7-83, DP-MW7-101, DP-INFILPOND-30, and DP-INFILPOND-54 (Summa Canisters)

Reviewed Date: 04/17/2004 (JTD)

Sample Date: 01/23/2004

Sample Received Date: 01/27/2004

Method ASTM D1946 (Fixed gases)

Method Blank	All analytes ND.
LCS	All control % recoveries within QC limits.
LCSD	All RPDs within QC limits.

EPA-2 TO-15 (68 compound list)

Method Blank	All analytes ND.
LCS	All control % recoveries within QC limits.
LCSD	All RPDs within QC limits.

Hold Times

All analytical holding times met.

Data Validation

Upon final review of lab report #E4A290231 for Greater Wenatchee Regional Landfill, EMCON/OWT, Inc. finds the data to be valid for its intended use (04/07/2004 JTD).

April 5, 2004

STL LOT NUMBER: **E4C170382**

Mr. Jason Davendonis
EMCON/OWT, Inc.
10300 SW Nimbus Ave.
Suite B
Portland, OR 97223

Dear Mr. Davendonis:

This report contains the analytical results for the 13 samples received under chain of custody by STL Los Angeles on March 17, 2004. These samples are associated with your GREATER WENATCHEE LF SOIL VAPOR STUDY project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria. Any matrix related anomaly is footnoted within the report.

Preliminary results were sent via email to the following addresses on March 29, 2004: jason.davendonis@shawgrp.com and joberein@wm.com. A copy was also emailed to dan.higgins@shawgroup.com on March 31, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains **000090** pages.

Severn Trent Laboratories, Inc.

STL Los Angeles • 1721 South Grand Avenue, Santa Ana, CA 92705-4808

Tel 714 258 8610 Fax 714 258 0921 • www.st-linc.com

000001

Received
EMCON/OWT, Inc.

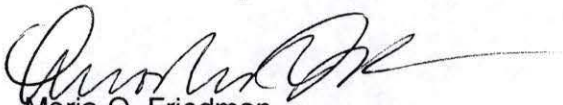
By JD
Date 4/7/04
Project 842544

CASE NARRATIVE

There are no anomalies associated with this report.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,



Maria O. Friedman
Project Manager

cc: Project File

Chain of Custody Record

ST. TRENT
Severn Trent Laboratories, Inc.

STL Denver
4955 Yarrow
Arvada, CO 80002

STL-4124 (0901)

Client <u>Waste Management, Inc.</u>		Project Manager <u>Roger North</u>		Date <u>3/11/04</u>	Chain of Custody Number <u>298197</u>
Address <u>191 S Webb Rd.</u>		Telephone Number (Area Code)/Fax Number <u>(509) 884-7802 / (509) 884-3724</u>		Lab Number <u>E4C170382</u>	Page <u>1</u> of <u>1</u>
City <u>E. Wenatchee</u>	State <u>WA</u>	Zip Code <u>98802</u>	Site Contact <u>Ted Woodard</u>	Lab Contact <u>Betsy Francis</u>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <u>Greene Wenatchee</u>			Carrier/Waybill Number <u>Menika Friedman</u>		

Contract/Purchase Order/Quote No.			Matrix				Containers & Preservatives							Conditions of Receipt			
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Other	10-15	Fixed Gas
GE-11			3/11/04	1630													12827
GE-12			3/11/04	1637													A-151
GE-13			3/11/04	1650													12265
GE-14			3/11/04	1700													12047.53
GE-15			3/11/04	1702													12203
GP-11 Shiller			3/11/04	1740													9310BB
GP-11 Intermediate			3/11/04	1845													036
GP-11 Deep			3/11/04	1802													92014
GP-8-1			3/11/04	1830													611282
GP-8-2			3/11/04	1840													02803
GP-8-3			3/11/04	1900													9305BB
GP-9 GE-116			3/11/04	1940													A-309

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	905

Turn Around Time Required	QC Requirements (Specify)
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____	

1. Relinquished By <u>[Signature]</u>	Date <u>3/12/04</u>	Time <u>1600</u>	1. Received By <u>[Signature]</u>	Date <u>3/15/04</u>	Time <u>1100</u>
2. Relinquished By <u>[Signature]</u>	Date <u>3/15/04</u>	Time <u>1230</u>	2. Received By <u>[Signature]</u>	Date <u>3/17/04</u>	Time <u>1030</u>
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

CANISTER FIELD DATA RECORD

CLIENT: WMI
 CANISTER SERIAL #: 12827
 DATE CLEANED: 2-17-04C; 2-19-04C
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.18 psia	3-10-04	RR
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	13.53	3-18-04	ly
FINAL PRESSURE (PSIA)	24.43	3-18-04	g

Pressurization Gas: N₂

COMMENTS:

	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
	15 Min.	316 - 333
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

$$\begin{aligned}
 &24.53 \\
 &\underline{13.53 - 7.18} = 3.8630 \\
 &6.35
 \end{aligned}$$

CANISTER FIELD DATA RECORD

CLIENT: WMI
 CANISTER SERIAL #: A-151
 DATE CLEANED: 2-17-04C 2-19-04C
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp. : _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.45 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.23	3-18-04	G
FINAL PRESSURE (PSIA)	24.52	3-18-04	G

Pressurization Gas: N₂

COMMENTS:

$$\frac{24.52 - 7.45}{6.78} = 3.6165$$

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 12265
DATE CLEANED: 2-17-04C 2-19-04C
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		8.23 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	13.46	3-18-04	G
FINAL PRESSURE (PSIA)	24.65	3-18-04	J

Pressurization Gas: N₂

COMMENTS:

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
	15 Min.	316 - 333
24.65	30 Min.	158 - 166.7
13.46 - 8.23 = 4.7132	1	79.2 - 83.3
5.23	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0



STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 04753
DATE CLEANED: 2-17-04; 2-19-04
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.43 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	13.96	3-18-04	g
FINAL PRESSURE (PSIA)	24.30	3-18-04	g

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
	15 Min.	316 - 333
24.30	30 Min.	158 - 166.7
13.96 - 7.43 = 3.72/3	1	79.2 - 83.3
6.53	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 12203
DATE CLEANED: 2-17-04C 2-19-04C
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.93 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	13.75	3-18-04	G
FINAL PRESSURE (PSIA)	24.26	3-18-04	G

Pressurization Gas: He

COMMENTS:

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
	15 Min.	316 - 333
<u>24.26</u>	30 Min.	158 - 166.7
<u>13.75 - 7.93 = 4.1684</u>	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
<u>5.82 3.86</u>	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

**SEVERN
TRENT**

STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
 CANISTER SERIAL #: 9310 BB
 DATE CLEANED: (2-17-04C) 2-19-04C
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.51 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.40	3-11-04	G
FINAL PRESSURE (PSIA)	24.32	3-11-04	G

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

24.32
 $14.40 - 7.51 = 3.5297$
~~5.82~~ 6.89

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 0136
DATE CLEANED: 2-17-040, 2-19-04C
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.61 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.48	3-18-04	cy
FINAL PRESSURE (PSIA)	24.49	3-18-04	g

Pressurization Gas: N₂

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 92014
DATE CLEANED: 2-17-04C, 2-19-04C
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.85 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.5F	3-18-04	g
FINAL PRESSURE (PSIA)	24.60	3-18-04	g

Pressurization Gas: N₂

COMMENTS:

$$\frac{24.60}{14.5F - 7.85} = 3.6553$$
$$6.73$$

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 11282
DATE CLEANED: 2-17-04, 2-19-04
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.38 psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.50	3-18-04	ly
FINAL PRESSURE (PSIA)	24.41	3-18-04	ly

Pressurization Gas: N₂

COMMENTS:

$$\frac{24.41 - 7.12}{14.50 - 7.12} = 3.4284$$

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0



STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 02803
DATE CLEANED: 2-17-04, 2-19-04
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.25 psia	3-10-04	BR
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.52	3-18-04	G
FINAL PRESSURE (PSIA)	24.60	3-18-04	G

Pressurization Gas: N₂

COMMENTS:

$$\frac{24.91}{14.52 - 7.25} = 3.4264$$

7.27

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 9305 BB
DATE CLEANED: 2-17-04C, 2-19-04C
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.27	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.68	3-18-04	ly
FINAL PRESSURE (PSIA)	24.60	3-18-04	ly

Pressurization Gas: N₂

COMMENTS:

$$\frac{24.60}{14.68 - 7.27} = 3.3198$$
$$7.41$$

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: A-309
DATE CLEANED: 2-17-04C, 2-19-04C
CLIENT SAMPLE #: _____
SITE LOCATION: _____

VFR ID: _____
Duration of comp.: _____ hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.61 psia	3-10-04	RR
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.77	3-18-04	g
FINAL PRESSURE (PSIA)	24.73	3-18-04	g

Pressurization Gas: N₂

COMMENTS:

$$\begin{array}{r} 24.73 \\ 14.77 - 7.61 = 3.4535 \\ 7.16 \end{array}$$

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: WMI
 CANISTER SERIAL #: 950
 DATE CLEANED: (2-17-04C) 2-19-04C
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.96 Psia	3-10-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION

INITIAL VACUUM (PSIA)	14.64	3-18-04	g
FINAL PRESSURE (PSIA)	24.66	3-18-04	g

Pressurization Gas: N₂

COMMENTS:

24.66
714.64 - 7.96 = 3.6716
6.68

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

Analytical Report

ANALYTICAL REPORT

G.WENATCHEE LF SOIL VAP STUDY

Lot #: E4C170382

Jason Davendonis

EMCON/OWT, Inc.

SEVERN TRENT LABORATORIES, INC.

**Maria Friedman
Project Manager**

March 31, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GE-11 03/11/04 16:30 001				
Carbon dioxide	38	0.039	% (v/v)	ASTM D1946
Oxygen	0.84	0.39	% (v/v)	ASTM D1946
Nitrogen	4.4	3.9	% (v/v)	ASTM D1946
Methane	61	0.00077	% (v/v)	ASTM D1946
Acetone	1800	240	ppb (v/v)	EPA-2 TO-15
Benzene	980	48	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	51	48	ppb (v/v)	EPA-2 TO-15
Chloroethane	460	96	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	200	48	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	1300	48	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	140	48	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	1700	48	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	110	48	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	4300	48	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	110	48	ppb (v/v)	EPA-2 TO-15
n-Hexane	1600	48	ppb (v/v)	EPA-2 TO-15
Methylene chloride	460	48	ppb (v/v)	EPA-2 TO-15
Styrene	900	48	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	550	48	ppb (v/v)	EPA-2 TO-15
Trichloroethene	350	48	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	900	48	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	370	48	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	1200	48	ppb (v/v)	EPA-2 TO-15
o-Xylene	2400	48	ppb (v/v)	EPA-2 TO-15
n-Nonane	4000	240	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	9800	48	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	1100	48	ppb (v/v)	EPA-2 TO-15
Cumene	320	48	ppb (v/v)	EPA-2 TO-15
Ethanol	620000	64000	ppb (v/v)	EPA-2 TO-15
2-Propanol	47000	26000	ppb (v/v)	EPA-2 TO-15
Toluene	15000	5100	ppb (v/v)	EPA-2 TO-15
GE-12 03/11/04 16:37 002				
Carbon dioxide	35	0.036	% (v/v)	ASTM D1946
Oxygen	0.87	0.36	% (v/v)	ASTM D1946
Nitrogen	19	3.6	% (v/v)	ASTM D1946
Methane	50	0.00072	% (v/v)	ASTM D1946
Acetone	520	90	ppb (v/v)	EPA-2 TO-15
Benzene	250	18	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	66	18	ppb (v/v)	EPA-2 TO-15
Chloroethane	89	36	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GE-12 03/11/04 16:37 002				
1,2-Dichlorobenzene	20	18	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	130	18	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	670	18	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	57	18	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	100	18	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	36	18	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	51	18	ppb (v/v)	EPA-2 TO-15
Ethanol	1400	230	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	3100	18	ppb (v/v)	EPA-2 TO-15
n-Hexane	530	18	ppb (v/v)	EPA-2 TO-15
2-Propanol	280	90	ppb (v/v)	EPA-2 TO-15
Methylene chloride	24	18	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	100	18	ppb (v/v)	EPA-2 TO-15
Toluene	4100	18	ppb (v/v)	EPA-2 TO-15
Trichloroethene	45	18	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	21	18	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	630	18	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	240	18	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	2800	18	ppb (v/v)	EPA-2 TO-15
o-Xylene	1400	18	ppb (v/v)	EPA-2 TO-15
n-Nonane	3100	90	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	5100	18	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	870	90	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	640	18	ppb (v/v)	EPA-2 TO-15
Cumene	330	18	ppb (v/v)	EPA-2 TO-15

GE-13 03/11/04 16:50 003

Carbon dioxide	36	0.047	% (v/v)	ASTM D1946
Oxygen	1.3	0.47	% (v/v)	ASTM D1946
Nitrogen	8.6	4.7	% (v/v)	ASTM D1946
Methane	58	0.00094	% (v/v)	ASTM D1946
Acetone	4500	290	ppb (v/v)	EPA-2 TO-15
Benzene	610	59	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	98	59	ppb (v/v)	EPA-2 TO-15
Chloroethane	120	120	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	680	59	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	890	59	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	110	59	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	1200	59	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	97	59	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GE-13 03/11/04 16:50 003				
Ethanol	62000	740	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	7700	59	ppb (v/v)	EPA-2 TO-15
n-Hexane	630	59	ppb (v/v)	EPA-2 TO-15
2-Propanol	7200	290	ppb (v/v)	EPA-2 TO-15
Methylene chloride	73	59	ppb (v/v)	EPA-2 TO-15
Naphthalene	150	150	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	800	59	ppb (v/v)	EPA-2 TO-15
Toluene	14000	59	ppb (v/v)	EPA-2 TO-15
Trichloroethene	500	59	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	3400	59	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	1300	59	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	1700	59	ppb (v/v)	EPA-2 TO-15
o-Xylene	5600	59	ppb (v/v)	EPA-2 TO-15
n-Nonane	6700	290	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	17000	59	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	6200	290	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	3900	59	ppb (v/v)	EPA-2 TO-15
Cumene	840	59	ppb (v/v)	EPA-2 TO-15
GE-14 03/11/04 17:00 004				
Carbon dioxide	35	0.037	% (v/v)	ASTM D1946
Oxygen	1.2	0.37	% (v/v)	ASTM D1946
Nitrogen	13	3.7	% (v/v)	ASTM D1946
Methane	52	0.00074	% (v/v)	ASTM D1946
Acetone	3500	370	ppb (v/v)	EPA-2 TO-15
Benzene	750	74	ppb (v/v)	EPA-2 TO-15
Chloroethane	290	150	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	160	74	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	810	74	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	350	74	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	3900	74	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	160	74	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	4300	74	ppb (v/v)	EPA-2 TO-15
n-Hexane	1200	74	ppb (v/v)	EPA-2 TO-15
2-Propanol	15000	370	ppb (v/v)	EPA-2 TO-15
Methylene chloride	1100	74	ppb (v/v)	EPA-2 TO-15
Styrene	780	74	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	3400	74	ppb (v/v)	EPA-2 TO-15
Toluene	18000	74	ppb (v/v)	EPA-2 TO-15
Trichloroethene	1500	74	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	920	74	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	390	74	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GE-14 03/11/04 17:00 004				
Vinyl chloride	5300	74	ppb (v/v)	EPA-2 TO-15
o-Xylene	2500	74	ppb (v/v)	EPA-2 TO-15
n-Nonane	4000	370	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	9700	74	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	5700	370	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	1000	74	ppb (v/v)	EPA-2 TO-15
Cumene	410	74	ppb (v/v)	EPA-2 TO-15
Ethanol	260000	3100	ppb (v/v)	EPA-2 TO-15
GE-15 03/11/04 17:22 005				
Carbon dioxide	35	0.042	% (v/v)	ASTM D1946
Oxygen	1.1	0.42	% (v/v)	ASTM D1946
Nitrogen	14	4.2	% (v/v)	ASTM D1946
Methane	53	0.00083	% (v/v)	ASTM D1946
Acetone	12000	420	ppb (v/v)	EPA-2 TO-15
Benzene	580	84	ppb (v/v)	EPA-2 TO-15
Chloroethane	410	170	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	280	84	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	910	84	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	200	84	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	1100	84	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	3900	84	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	130	84	ppb (v/v)	EPA-2 TO-15
n-Hexane	1400	84	ppb (v/v)	EPA-2 TO-15
Methylene chloride	390	84	ppb (v/v)	EPA-2 TO-15
Naphthalene	550	210	ppb (v/v)	EPA-2 TO-15
Styrene	1000	84	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	680	84	ppb (v/v)	EPA-2 TO-15
Toluene	15000	84	ppb (v/v)	EPA-2 TO-15
Trichloroethene	460	84	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	1300	84	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	470	84	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	980	84	ppb (v/v)	EPA-2 TO-15
o-Xylene	2600	84	ppb (v/v)	EPA-2 TO-15
n-Nonane	3500	420	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	9400	84	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	11000	420	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	1400	84	ppb (v/v)	EPA-2 TO-15
Cumene	370	84	ppb (v/v)	EPA-2 TO-15
Ethanol	560000	10000	ppb (v/v)	EPA-2 TO-15
2-Propanol	21000	4200	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GP-11 SHALLOW 03/11/04 17:40 006				
Carbon dioxide	20	0.035	% (v/v)	ASTM D1946
Oxygen	1.9	0.35	% (v/v)	ASTM D1946
Nitrogen	79	3.5	% (v/v)	ASTM D1946
Methane	1.5	0.00070	% (v/v)	ASTM D1946
Chloroethane	22	14	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	400	7.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	130	7.0	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	81	7.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	35	7.0	ppb (v/v)	EPA-2 TO-15
n-Hexane	87	7.0	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	320	7.0	ppb (v/v)	EPA-2 TO-15
Trichloroethene	17	7.0	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	180	7.0	ppb (v/v)	EPA-2 TO-15
GP-11 INTERMEDIATE 03/11/04 17:45 007				
Carbon dioxide	28	0.036	% (v/v)	ASTM D1946
Oxygen	1.3	0.36	% (v/v)	ASTM D1946
Nitrogen	44	3.6	% (v/v)	ASTM D1946
Methane	30	0.00071	% (v/v)	ASTM D1946
Acetone	300	36	ppb (v/v)	EPA-2 TO-15
Benzene	110	7.1	ppb (v/v)	EPA-2 TO-15
Chloroethane	510	14	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	1600	7.1	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	1200	7.1	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	50	7.1	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	200	7.1	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	140	7.1	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	69	7.1	ppb (v/v)	EPA-2 TO-15
n-Hexane	1000	7.1	ppb (v/v)	EPA-2 TO-15
Methylene chloride	33	7.1	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	850	7.1	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	19	7.1	ppb (v/v)	EPA-2 TO-15
Trichloroethene	210	7.1	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	27	7.1	ppb (v/v)	EPA-2 TO-15
n-Nonane	260	36	ppb (v/v)	EPA-2 TO-15
Cumene	23	7.1	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	4600	71	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	4600	71	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GP-11 DEEP 03/11/04 18:02 008				
Carbon dioxide	25	0.036	% (v/v)	ASTM D1946
Oxygen	1.2	0.36	% (v/v)	ASTM D1946
Nitrogen	50	3.6	% (v/v)	ASTM D1946
Methane	27	0.00073	% (v/v)	ASTM D1946
Benzene	110	30	ppb (v/v)	EPA-2 TO-15
Chloroethane	590	61	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	4600	30	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	1200	30	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	72	30	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	3700	30	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	200	30	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro-	220	30	ppb (v/v)	EPA-2 TO-15
1,1,2,2-tetrafluoroethane				
Trichlorofluoromethane	300	30	ppb (v/v)	EPA-2 TO-15
n-Hexane	1400	30	ppb (v/v)	EPA-2 TO-15
Methylene chloride	67	30	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	1000	30	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	70	30	ppb (v/v)	EPA-2 TO-15
Trichloroethene	170	30	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro-	83	30	ppb (v/v)	EPA-2 TO-15
1,2,2-trifluoroethane				
Vinyl chloride	3800	30	ppb (v/v)	EPA-2 TO-15
n-Nonane	190	150	ppb (v/v)	EPA-2 TO-15

GP-8-1 03/11/04 18:30 009

Carbon dioxide	31	0.034	% (v/v)	ASTM D1946
Oxygen	0.79	0.34	% (v/v)	ASTM D1946
Nitrogen	21	3.4	% (v/v)	ASTM D1946
Methane	51	0.00068	% (v/v)	ASTM D1946
Benzene	89	29	ppb (v/v)	EPA-2 TO-15
Chloroethane	850	57	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	1100	29	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	90	29	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	230	29	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro-	190	29	ppb (v/v)	EPA-2 TO-15
1,1,2,2-tetrafluoroethane				
Trichlorofluoromethane	42	29	ppb (v/v)	EPA-2 TO-15
n-Hexane	2100	29	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	33	29	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	2700	29	ppb (v/v)	EPA-2 TO-15
n-Nonane	760	140	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GP-8-2 03/11/04 18:40 010				
Carbon dioxide	11	0.034	% (v/v)	ASTM D1946
Oxygen	1.2	0.34	% (v/v)	ASTM D1946
Nitrogen	53	3.4	% (v/v)	ASTM D1946
Methane	40	0.00068	% (v/v)	ASTM D1946
Chloroethane	100	57	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	5300	29	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	260	29	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	420	29	ppb (v/v)	EPA-2 TO-15
n-Hexane	1100	29	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	62	29	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	1200	29	ppb (v/v)	EPA-2 TO-15
n-Nonane	170	140	ppb (v/v)	EPA-2 TO-15

GP-8-3 03/11/04 19:00 011				
Carbon dioxide	5.6	0.033	% (v/v)	ASTM D1946
Oxygen	1.4	0.33	% (v/v)	ASTM D1946
Nitrogen	81	3.3	% (v/v)	ASTM D1946
Methane	16	0.00066	% (v/v)	ASTM D1946
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	300	13	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	670	13	ppb (v/v)	EPA-2 TO-15
n-Hexane	77	13	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	46	13	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	44	13	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	430	13	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	8300	66	ppb (v/v)	EPA-2 TO-15

GE-16 03/11/04 19:40 012				
Carbon dioxide	30	0.034	% (v/v)	ASTM D1946
Oxygen	1.2	0.34	% (v/v)	ASTM D1946
Nitrogen	29	3.4	% (v/v)	ASTM D1946
Methane	40	0.00069	% (v/v)	ASTM D1946
Acetone	1000	140	ppb (v/v)	EPA-2 TO-15
Benzene	260	29	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	110	29	ppb (v/v)	EPA-2 TO-15
Chloroethane	450	57	ppb (v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	33	29	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	150	29	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4C170382

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GE-16 03/11/04 19:40 012				
Dichlorodifluoromethane	200	29	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	130	29	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	58	29	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	1900	29	ppb (v/v)	EPA-2 TO-15
n-Hexane	1400	29	ppb (v/v)	EPA-2 TO-15
2-Propanol	1400	140	ppb (v/v)	EPA-2 TO-15
Methylene chloride	61	29	ppb (v/v)	EPA-2 TO-15
Naphthalene	260	72	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	44	29	ppb (v/v)	EPA-2 TO-15
Toluene	2000	29	ppb (v/v)	EPA-2 TO-15
Trichloroethene	52	29	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	490	29	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	220	29	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	1100	29	ppb (v/v)	EPA-2 TO-15
o-Xylene	1200	29	ppb (v/v)	EPA-2 TO-15
n-Nonane	2200	140	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	3600	29	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	1600	140	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	490	29	ppb (v/v)	EPA-2 TO-15
Cumene	190	29	ppb (v/v)	EPA-2 TO-15
Ethanol	97000	1700	ppb (v/v)	EPA-2 TO-15

GP-9 03/11/04 20:15 013

Carbon dioxide	24	0.037	% (v/v)	ASTM D1946
Oxygen	1.5	0.37	% (v/v)	ASTM D1946
Nitrogen	67	3.7	% (v/v)	ASTM D1946
Methane	11	0.00074	% (v/v)	ASTM D1946
Benzene	67	31	ppb (v/v)	EPA-2 TO-15
Chloroethane	250	62	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	510	31	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	300	31	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	3000	31	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	94	31	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	46	31	ppb (v/v)	EPA-2 TO-15
n-Hexane	320	31	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	320	31	ppb (v/v)	EPA-2 TO-15
Trichloroethene	220	31	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	2700	31	ppb (v/v)	EPA-2 TO-15
n-Nonane	470	150	ppb (v/v)	EPA-2 TO-15

METHODS SUMMARY

E4C170382

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Fixed Gases	ASTM D1946	
Volatile Organics by TO15	EPA-2 TO-15	

References:

- ASTM Annual Book Of ASTM Standards.
- EPA-2 "Compendium of Methods for the Determination of Toxic
Organic Compounds in Ambient Air", EPA-625/R-96/010b,
January 1999.

SAMPLE SUMMARY

E4C170382

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GCF03	001	GE-11	03/11/04	16:30
GCF05	002	GE-12	03/11/04	16:37
GCF07	003	GE-13	03/11/04	16:50
GCF09	004	GE-14	03/11/04	17:00
GCF1A	005	GE-15	03/11/04	17:22
GCF1C	006	GP-11 SHALLOW	03/11/04	17:40
GCF1E	007	GP-11 INTERMEDIATE	03/11/04	17:45
GCF1F	008	GP-11 DEEP	03/11/04	18:02
GCF1G	009	GP-8-1	03/11/04	18:30
GCF1H	010	GP-8-2	03/11/04	18:40
GCF1J	011	GP-8-3	03/11/04	19:00
GCF1K	012	GE-16	03/11/04	19:40
GCF1L	013	GP-9	03/11/04	20:15

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.

EMCON/OWT, INC

Client Sample ID: GE-11

GC/MS Volatiles

Lot-Sample #....: E4C170382-001 Work Order #....: GCF031AD Matrix.....: AIR
 Date Sampled....: 03/11/04 16:30 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 19:27
 Dilution Factor: 24.02
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1800	240	ppb (v/v)	48
Acetonitrile	ND	96	ppb (v/v)	19
Acrolein	ND	96	ppb (v/v)	19
Acrylonitrile	ND	240	ppb (v/v)	24
Benzene	980	48	ppb (v/v)	19
Benzyl chloride	ND	240	ppb (v/v)	19
Bromodichloromethane	ND	48	ppb (v/v)	19
Bromoform	ND	48	ppb (v/v)	12
Bromomethane	ND	48	ppb (v/v)	24
1,3-Butadiene	ND	96	ppb (v/v)	22
Carbon disulfide	ND	240	ppb (v/v)	48
Carbon tetrachloride	ND	48	ppb (v/v)	12
Chlorobenzene	51	48	ppb (v/v)	12
Dibromochloromethane	ND	48	ppb (v/v)	12
1,2-Dibromo-3-chloro- propane	ND	48	ppb (v/v)	12
Chloroethane	460	96	ppb (v/v)	19
Chloroform	ND	48	ppb (v/v)	19
Chloromethane	ND	96	ppb (v/v)	24
Allyl chloride	ND	96	ppb (v/v)	12
1,2-Dichlorobenzene	ND	48	ppb (v/v)	19
1,3-Dichlorobenzene	ND	48	ppb (v/v)	17
1,4-Dichlorobenzene	200	48	ppb (v/v)	19
Dichlorodifluoromethane	1300	48	ppb (v/v)	12
1,1-Dichloroethane	140	48	ppb (v/v)	12
1,2-Dichloroethane	ND	48	ppb (v/v)	19
1,1-Dichloroethene	ND	48	ppb (v/v)	12
cis-1,2-Dichloroethene	1700	48	ppb (v/v)	19
trans-1,2-Dichloroethene	ND	48	ppb (v/v)	12
1,2-Dichloropropane	ND	48	ppb (v/v)	19
cis-1,3-Dichloropropene	ND	48	ppb (v/v)	12
trans-1,3-Dichloropropene	ND	48	ppb (v/v)	19
1,2-Dichloro-	110	48	ppb (v/v)	19
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	240	ppb (v/v)	48
Ethylbenzene	4300	48	ppb (v/v)	12
Trichlorofluoromethane	110	48	ppb (v/v)	12

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GE-11

GC/MS Volatiles

Lot-Sample #...: E4C170382-001 Work Order #...: GCF031AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	96	ppb (v/v)	24
n-Hexane	1600	48	ppb (v/v)	14
2-Hexanone	ND	240	ppb (v/v)	24
Methylene chloride	460	48	ppb (v/v)	19
Naphthalene	ND	120	ppb (v/v)	12
Styrene	900	48	ppb (v/v)	14
1,1,2,2-Tetrachloroethane	ND	48	ppb (v/v)	12
Tetrachloroethene	550	48	ppb (v/v)	14
1,2,4-Trichloro- benzene	ND	120	ppb (v/v)	24
1,1,1-Trichloroethane	ND	48	ppb (v/v)	12
1,1,2-Trichloroethane	ND	48	ppb (v/v)	14
Trichloroethene	350	48	ppb (v/v)	12
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	48	ppb (v/v)	12
1,2,4-Trimethylbenzene	900	48	ppb (v/v)	19
1,3,5-Trimethylbenzene	370	48	ppb (v/v)	19
Vinyl acetate	ND	240	ppb (v/v)	48
Vinyl chloride	1200	48	ppb (v/v)	19
o-Xylene	2400	48	ppb (v/v)	14
n-Nonane	4000	240	ppb (v/v)	
Methyl tert-butyl ether	ND	48	ppb (v/v)	12
m-Xylene & p-Xylene	9800	48	ppb (v/v)	24
1,2-Dibromoethane (EDB)	ND	48	ppb (v/v)	12
2-Butanone (MEK)	ND	240	ppb (v/v)	48
4-Methyl-2-pentanone (MIBK)	ND	240	ppb (v/v)	48
4-Ethyltoluene	1100	48	ppb (v/v)	17
Cumene	320	48	ppb (v/v)	12

EMCON/OWT, INC

Client Sample ID: GE-11

GC/MS Volatiles

Lot-Sample #...: E4C170382-001 Work Order #...: GCF032AD Matrix.....: AIR
Date Sampled...: 03/11/04 16:30 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/23/04 Analysis Date...: 03/23/04
Prep Batch #...: 4084598 Analysis Time...: 01:54
Dilution Factor: 2562
Analyst ID.....: 117751 Instrument ID...: MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethanol	620000	64000	ppb (v/v)	5600
2-Propanol	47000	26000	ppb (v/v)	2600
Toluene	15000	5100	ppb (v/v)	1300

EMCON/OWT, INC

Client Sample ID: GE-11

GC Volatiles

Lot-Sample #....: E4C170382-001 Work Order #....: GCF031AC Matrix.....: AIR
 Date Sampled....: 03/11/04 16:30 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/24/04 Analysis Date...: 03/25/04
 Prep Batch #....: 4085415 Analysis Time...: 14:30
 Dilution Factor: 3.86
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	38	0.039	% (v/v)	0.0077
Oxygen	0.84	0.39	% (v/v)	0.12
Nitrogen	4.4	3.9	% (v/v)	2.7
Methane	61	0.00077	% (v/v)	0.00023
Carbon monoxide	ND	0.0039	% (v/v)	0.0012

EMCON/OWT, INC

Client Sample ID: GE-12

GC/MS Volatiles

Lot-Sample #....: E4C170382-002 Work Order #....: GCF051AD Matrix.....: AIR
 Date Sampled....: 03/11/04 16:37 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 20:05
 Dilution Factor: 9.03
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	520	90	ppb (v/v)	18
Acetonitrile	ND	36	ppb (v/v)	7.2
Acrolein	ND	36	ppb (v/v)	7.2
Acrylonitrile	ND	90	ppb (v/v)	9.0
Benzene	250	18	ppb (v/v)	7.2
Benzyl chloride	ND	90	ppb (v/v)	7.2
Bromodichloromethane	ND	18	ppb (v/v)	7.2
Bromoform	ND	18	ppb (v/v)	4.5
Bromomethane	ND	18	ppb (v/v)	9.0
1,3-Butadiene	ND	36	ppb (v/v)	8.1
Carbon disulfide	ND	90	ppb (v/v)	18
Carbon tetrachloride	ND	18	ppb (v/v)	4.5
Chlorobenzene	66	18	ppb (v/v)	4.5
Dibromochloromethane	ND	18	ppb (v/v)	4.5
1,2-Dibromo-3-chloro- propane	ND	18	ppb (v/v)	4.5
Chloroethane	89	36	ppb (v/v)	7.2
Chloroform	ND	18	ppb (v/v)	7.2
Chloromethane	ND	36	ppb (v/v)	9.0
Allyl chloride	ND	36	ppb (v/v)	4.5
1,2-Dichlorobenzene	20	18	ppb (v/v)	7.2
1,3-Dichlorobenzene	ND	18	ppb (v/v)	6.3
1,4-Dichlorobenzene	130	18	ppb (v/v)	7.2
Dichlorodifluoromethane	670	18	ppb (v/v)	4.5
1,1-Dichloroethane	57	18	ppb (v/v)	4.5
1,2-Dichloroethane	ND	18	ppb (v/v)	7.2
1,1-Dichloroethene	ND	18	ppb (v/v)	4.5
cis-1,2-Dichloroethene	100	18	ppb (v/v)	7.2
trans-1,2-Dichloroethene	36	18	ppb (v/v)	4.5
1,2-Dichloropropane	ND	18	ppb (v/v)	7.2
cis-1,3-Dichloropropene	ND	18	ppb (v/v)	4.5
trans-1,3-Dichloropropene	ND	18	ppb (v/v)	7.2
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	51	18	ppb (v/v)	7.2
1,4-Dioxane	ND	90	ppb (v/v)	18
Ethanol	1400	230	ppb (v/v)	20
Ethylbenzene	3100	18	ppb (v/v)	4.5

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GE-12

GC/MS Volatiles

Lot-Sample #....: E4C170382-002 Work Order #....: GCF051AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Trichlorofluoromethane	ND	18	ppb (v/v)	4.5
Hexachlorobutadiene	ND	36	ppb (v/v)	9.0
n-Hexane	530	18	ppb (v/v)	5.4
2-Hexanone	ND	90	ppb (v/v)	9.0
2-Propanol	280	90	ppb (v/v)	9.0
Methylene chloride	24	18	ppb (v/v)	7.2
Naphthalene	ND	45	ppb (v/v)	4.5
Styrene	ND	18	ppb (v/v)	5.4
1,1,2,2-Tetrachloroethane	ND	18	ppb (v/v)	4.5
Tetrachloroethene	100	18	ppb (v/v)	5.4
Toluene	4100	18	ppb (v/v)	4.5
1,2,4-Trichloro- benzene	ND	45	ppb (v/v)	9.0
1,1,1-Trichloroethane	ND	18	ppb (v/v)	4.5
1,1,2-Trichloroethane	ND	18	ppb (v/v)	5.4
Trichloroethene	45	18	ppb (v/v)	4.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	21	18	ppb (v/v)	4.5
1,2,4-Trimethylbenzene	630	18	ppb (v/v)	7.2
1,3,5-Trimethylbenzene	240	18	ppb (v/v)	7.2
Vinyl acetate	ND	90	ppb (v/v)	18
Vinyl chloride	2800	18	ppb (v/v)	7.2
o-Xylene	1400	18	ppb (v/v)	5.4
n-Nonane	3100	90	ppb (v/v)	
Methyl tert-butyl ether	ND	18	ppb (v/v)	4.5
m-Xylene & p-Xylene	5100	18	ppb (v/v)	9.0
1,2-Dibromoethane (EDB)	ND	18	ppb (v/v)	4.5
2-Butanone (MEK)	870	90	ppb (v/v)	18
4-Methyl-2-pentanone (MIBK)	ND	90	ppb (v/v)	18
4-Ethyltoluene	640	18	ppb (v/v)	6.3
Cumene	330	18	ppb (v/v)	4.5

EMCON/OWT, INC

Client Sample ID: GE-12

GC Volatiles

Lot-Sample #....: E4C170382-002 Work Order #....: GCF051AC Matrix.....: AIR
Date Sampled....: 03/11/04 16:37 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
Prep Batch #....: 4079357 Analysis Time...: 14:06
Dilution Factor: 3.61
Analyst ID.....: 101605 Instrument ID...: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	35	0.036	% (v/v)	0.0072
Oxygen	0.87	0.36	% (v/v)	0.11
Nitrogen	19	3.6	% (v/v)	2.5
Methane	50	0.00072	% (v/v)	0.00022
Carbon monoxide	ND	0.0036	% (v/v)	0.0011

EMCON/OWT, INC

Client Sample ID: GR-13

GC/MS Volatiles

Lot-Sample #....: E4C170382-003 Work Order #....: GCF071AD Matrix.....: AIR
 Date Sampled....: 03/11/04 16:50 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 20:42
 Dilution Factor: 29.4
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	4500	290	ppb (v/v)	59
Acetonitrile	ND	120	ppb (v/v)	24
Acrolein	ND	120	ppb (v/v)	24
Acrylonitrile	ND	290	ppb (v/v)	29
Benzene	610	59	ppb (v/v)	24
Benzyl chloride	ND	290	ppb (v/v)	24
Bromodichloromethane	ND	59	ppb (v/v)	24
Bromoform	ND	59	ppb (v/v)	15
Bromomethane	ND	59	ppb (v/v)	29
1,3-Butadiene	ND	120	ppb (v/v)	26
Carbon disulfide	ND	290	ppb (v/v)	59
Carbon tetrachloride	ND	59	ppb (v/v)	15
Chlorobenzene	98	59	ppb (v/v)	15
Dibromochloromethane	ND	59	ppb (v/v)	15
1,2-Dibromo-3-chloro- propane	ND	59	ppb (v/v)	15
Chloroethane	120	120	ppb (v/v)	24
Chloroform	ND	59	ppb (v/v)	24
Chloromethane	ND	120	ppb (v/v)	29
Allyl chloride	ND	120	ppb (v/v)	15
1,2-Dichlorobenzene	ND	59	ppb (v/v)	24
1,3-Dichlorobenzene	ND	59	ppb (v/v)	21
1,4-Dichlorobenzene	680	59	ppb (v/v)	24
Dichlorodifluoromethane	890	59	ppb (v/v)	15
1,1-Dichloroethane	110	59	ppb (v/v)	15
1,2-Dichloroethane	ND	59	ppb (v/v)	24
1,1-Dichloroethene	ND	59	ppb (v/v)	15
cis-1,2-Dichloroethene	1200	59	ppb (v/v)	24
trans-1,2-Dichloroethene	ND	59	ppb (v/v)	15
1,2-Dichloropropane	ND	59	ppb (v/v)	24
cis-1,3-Dichloropropene	ND	59	ppb (v/v)	15
trans-1,3-Dichloropropene	ND	59	ppb (v/v)	24
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	97	59	ppb (v/v)	24
1,4-Dioxane	ND	290	ppb (v/v)	59
Ethanol	62000	740	ppb (v/v)	65
Ethylbenzene	7700	59	ppb (v/v)	15

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GE-13

GC/MS Volatiles

Lot-Sample #....: E4C170382-003

Work Order #....: GCF071AD

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichlorofluoromethane	ND	59	ppb (v/v)	15
Hexachlorobutadiene	ND	120	ppb (v/v)	29
n-Hexane	630	59	ppb (v/v)	18
2-Hexanone	ND	290	ppb (v/v)	29
2-Propanol	7200	290	ppb (v/v)	29
Methylene chloride	73	59	ppb (v/v)	24
Naphthalene	150	150	ppb (v/v)	15
Styrene	ND	59	ppb (v/v)	18
1,1,2,2-Tetrachloroethane	ND	59	ppb (v/v)	15
Tetrachloroethene	800	59	ppb (v/v)	18
Toluene	14000	59	ppb (v/v)	15
1,2,4-Trichloro- benzene	ND	150	ppb (v/v)	29
1,1,1-Trichloroethane	ND	59	ppb (v/v)	15
1,1,2-Trichloroethane	ND	59	ppb (v/v)	18
Trichloroethene	500	59	ppb (v/v)	15
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	59	ppb (v/v)	15
1,2,4-Trimethylbenzene	3400	59	ppb (v/v)	24
1,3,5-Trimethylbenzene	1300	59	ppb (v/v)	24
Vinyl acetate	ND	290	ppb (v/v)	59
Vinyl chloride	1700	59	ppb (v/v)	24
o-Xylene	5600	59	ppb (v/v)	18
n-Nonane	6700	290	ppb (v/v)	
Methyl tert-butyl ether	ND	59	ppb (v/v)	15
m-Xylene & p-Xylene	17000	59	ppb (v/v)	29
1,2-Dibromoethane (EDB)	ND	59	ppb (v/v)	15
2-Butanone (MEK)	6200	290	ppb (v/v)	59
4-Methyl-2-pentanone (MIBK)	ND	290	ppb (v/v)	59
4-Ethyltoluene	3900	59	ppb (v/v)	21
Cumene	840	59	ppb (v/v)	15

EMCON/OWT, INC

Client Sample ID: GE-13

GC Volatiles

Lot-Sample #....: E4C170382-003 Work Order #....: GCF071AC Matrix.....: AIR
Date Sampled....: 03/11/04 16:50 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
Prep Batch #....: 4079357 Analysis Time...: 14:54
Dilution Factor: 4.71
Analyst ID.....: 101605 Instrument ID...: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	36	0.047	% (v/v)	0.0094
Oxygen	1.3	0.47	% (v/v)	0.14
Nitrogen	8.6	4.7	% (v/v)	3.3
Methane	58	0.00094	% (v/v)	0.00028
Carbon monoxide	ND	0.0047	% (v/v)	0.0014

EMCON/OWT, INC

Client Sample ID: GE-14

GC/MS Volatiles

Lot-Sample #...: E4C170382-004 Work Order #...: GCF091AD Matrix.....: AIR
 Date Sampled...: 03/11/04 17:00 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #...: 4084394 Analysis Time...: 21:19
 Dilution Factor: 37.21
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	3500	370	ppb (v/v)	74
Acetonitrile	ND	150	ppb (v/v)	30
Acrolein	ND	150	ppb (v/v)	30
Acrylonitrile	ND	370	ppb (v/v)	37
Benzene	750	74	ppb (v/v)	30
Benzyl chloride	ND	370	ppb (v/v)	30
Bromodichloromethane	ND	74	ppb (v/v)	30
Bromoform	ND	74	ppb (v/v)	19
Bromomethane	ND	74	ppb (v/v)	37
1,3-Butadiene	ND	150	ppb (v/v)	33
Carbon disulfide	ND	370	ppb (v/v)	74
Carbon tetrachloride	ND	74	ppb (v/v)	19
Chlorobenzene	ND	74	ppb (v/v)	19
Dibromochloromethane	ND	74	ppb (v/v)	19
1,2-Dibromo-3-chloro- propane	ND	74	ppb (v/v)	19
Chloroethane	290	150	ppb (v/v)	30
Chloroform	ND	74	ppb (v/v)	30
Chloromethane	ND	150	ppb (v/v)	37
Allyl chloride	ND	150	ppb (v/v)	19
1,2-Dichlorobenzene	ND	74	ppb (v/v)	30
1,3-Dichlorobenzene	ND	74	ppb (v/v)	26
1,4-Dichlorobenzene	160	74	ppb (v/v)	30
Dichlorodifluoromethane	810	74	ppb (v/v)	19
1,1-Dichloroethane	350	74	ppb (v/v)	19
1,2-Dichloroethane	ND	74	ppb (v/v)	30
1,1-Dichloroethene	ND	74	ppb (v/v)	19
cis-1,2-Dichloroethene	3900	74	ppb (v/v)	30
trans-1,2-Dichloroethene	160	74	ppb (v/v)	19
1,2-Dichloropropane	ND	74	ppb (v/v)	30
cis-1,3-Dichloropropene	ND	74	ppb (v/v)	19
trans-1,3-Dichloropropene	ND	74	ppb (v/v)	30
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	74	ppb (v/v)	30
1,4-Dioxane	ND	370	ppb (v/v)	74
Ethylbenzene	4300	74	ppb (v/v)	19
Trichlorofluoromethane	ND	74	ppb (v/v)	19

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GE-14

GC/MS Volatiles

Lot-Sample #....: E4C170382-004

Work Order #....: GCF091AD

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	150	ppb (v/v)	37
n-Hexane	1200	74	ppb (v/v)	22
2-Hexanone	ND	370	ppb (v/v)	37
2-Propanol	15000	370	ppb (v/v)	37
Methylene chloride	1100	74	ppb (v/v)	30
Naphthalene	ND	190	ppb (v/v)	19
Styrene	780	74	ppb (v/v)	22
1,1,2,2-Tetrachloroethane	ND	74	ppb (v/v)	19
Tetrachloroethene	3400	74	ppb (v/v)	22
Toluene	18000	74	ppb (v/v)	19
1,2,4-Trichloro- benzene	ND	190	ppb (v/v)	37
1,1,1-Trichloroethane	ND	74	ppb (v/v)	19
1,1,2-Trichloroethane	ND	74	ppb (v/v)	22
Trichloroethene	1500	74	ppb (v/v)	19
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	74	ppb (v/v)	19
1,2,4-Trimethylbenzene	920	74	ppb (v/v)	30
1,3,5-Trimethylbenzene	390	74	ppb (v/v)	30
Vinyl acetate	ND	370	ppb (v/v)	74
Vinyl chloride	5300	74	ppb (v/v)	30
o-Xylene	2500	74	ppb (v/v)	22
n-Nonane	4000	370	ppb (v/v)	
Methyl tert-butyl ether	ND	74	ppb (v/v)	19
m-Xylene & p-Xylene	9700	74	ppb (v/v)	37
1,2-Dibromoethane (EDB)	ND	74	ppb (v/v)	19
2-Butanone (MEK)	5700	370	ppb (v/v)	74
4-Methyl-2-pentanone (MIBK)	ND	370	ppb (v/v)	74
4-Ethyltoluene	1000	74	ppb (v/v)	26
Cumene	410	74	ppb (v/v)	19

EMCON/OWT, INC

Client Sample ID: GE-14

GC/MS Volatiles

Lot-Sample #....: E4C170382-004 Work Order #....: GCF092AD Matrix.....: AIR
Date Sampled....: 03/11/04 17:00 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/23/04 Analysis Date...: 03/23/04
Prep Batch #....: 4084598 Analysis Time...: 02:32
Dilution Factor: 124
Analyst ID.....: 117751 Instrument ID...: MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethanol	260000	3100	ppb (v/v)	270

EMCON/OWT, INC

Client Sample ID: GE-14

GC Volatiles

Lot-Sample #...: E4C170382-004 Work Order #...: GCF091AC Matrix.....: AIR
 Date Sampled...: 03/11/04 17:00 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #...: 4079357 Analysis Time...: 15:18
 Dilution Factor: 3.72
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Carbon dioxide	35	0.037	% (v/v)	0.0074
Oxygen	1.2	0.37	% (v/v)	0.11
Nitrogen	13	3.7	% (v/v)	2.6
Methane	52	0.00074	% (v/v)	0.00022
Carbon monoxide	ND	0.0037	% (v/v)	0.0011

EMCON/OWT, INC

Client Sample ID: GE-15

GC/MS Volatiles

Lot-Sample #....: E4C170382-005 Work Order #....: GCF1A1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 17:22 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 21:56
 Dilution Factor: 41.75
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	12000	420	ppb (v/v)	84
Acetonitrile	ND	170	ppb (v/v)	33
Acrolein	ND	170	ppb (v/v)	33
Acrylonitrile	ND	420	ppb (v/v)	42
Benzene	580	84	ppb (v/v)	33
Benzyl chloride	ND	420	ppb (v/v)	33
Bromodichloromethane	ND	84	ppb (v/v)	33
Bromoform	ND	84	ppb (v/v)	21
Bromomethane	ND	84	ppb (v/v)	42
1,3-Butadiene	ND	170	ppb (v/v)	38
Carbon disulfide	ND	420	ppb (v/v)	84
Carbon tetrachloride	ND	84	ppb (v/v)	21
Chlorobenzene	ND	84	ppb (v/v)	21
Dibromochloromethane	ND	84	ppb (v/v)	21
1,2-Dibromo-3-chloro- propane	ND	84	ppb (v/v)	21
Chloroethane	410	170	ppb (v/v)	33
Chloroform	ND	84	ppb (v/v)	33
Chloromethane	ND	170	ppb (v/v)	42
Allyl chloride	ND	170	ppb (v/v)	21
1,2-Dichlorobenzene	ND	84	ppb (v/v)	33
1,3-Dichlorobenzene	ND	84	ppb (v/v)	29
1,4-Dichlorobenzene	280	84	ppb (v/v)	33
Dichlorodifluoromethane	910	84	ppb (v/v)	21
1,1-Dichloroethane	200	84	ppb (v/v)	21
1,2-Dichloroethane	ND	84	ppb (v/v)	33
1,1-Dichloroethene	ND	84	ppb (v/v)	21
cis-1,2-Dichloroethene	1100	84	ppb (v/v)	33
trans-1,2-Dichloroethene	ND	84	ppb (v/v)	21
1,2-Dichloropropane	ND	84	ppb (v/v)	33
cis-1,3-Dichloropropene	ND	84	ppb (v/v)	21
trans-1,3-Dichloropropene	ND	84	ppb (v/v)	33
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	84	ppb (v/v)	33
1,4-Dioxane	ND	420	ppb (v/v)	84
Ethylbenzene	3900	84	ppb (v/v)	21
Trichlorofluoromethane	130	84	ppb (v/v)	21

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GE-15

GC/MS Volatiles

Lot-Sample #....: E4C170382-005 Work Order #....: GCF1A1AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	170	ppb (v/v)	42
n-Hexane	1400	84	ppb (v/v)	25
2-Hexanone	ND	420	ppb (v/v)	42
Methylene chloride	390	84	ppb (v/v)	33
Naphthalene	550	210	ppb (v/v)	21
Styrene	1000	84	ppb (v/v)	25
1,1,2,2-Tetrachloroethane	ND	84	ppb (v/v)	21
Tetrachloroethene	680	84	ppb (v/v)	25
Toluene	15000	84	ppb (v/v)	21
1,2,4-Trichloro- benzene	ND	210	ppb (v/v)	42
1,1,1-Trichloroethane	ND	84	ppb (v/v)	21
1,1,2-Trichloroethane	ND	84	ppb (v/v)	25
Trichloroethene	460	84	ppb (v/v)	21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	84	ppb (v/v)	21
1,2,4-Trimethylbenzene	1300	84	ppb (v/v)	33
1,3,5-Trimethylbenzene	470	84	ppb (v/v)	33
Vinyl acetate	ND	420	ppb (v/v)	84
Vinyl chloride	980	84	ppb (v/v)	33
o-Xylene	2600	84	ppb (v/v)	25
n-Nonane	3500	420	ppb (v/v)	
Methyl tert-butyl ether	ND	84	ppb (v/v)	21
m-Xylene & p-Xylene	9400	84	ppb (v/v)	42
1,2-Dibromoethane (EDB)	ND	84	ppb (v/v)	21
2-Butanone (MEK)	11000	420	ppb (v/v)	84
4-Methyl-2-pentanone (MIBK)	ND	420	ppb (v/v)	84
4-Ethyltoluene	1400	84	ppb (v/v)	29
Cumene	370	84	ppb (v/v)	21

EMCON/OWT, INC

Client Sample ID: GE-15

GC/MS Volatiles

Lot-Sample #....: E4C170382-005 Work Order #....: GCF1A2AD Matrix.....: AIR
Date Sampled....: 03/11/04 17:22 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/23/04 Analysis Date...: 03/23/04
Prep Batch #....: 4084598 Analysis Time...: 03:09
Dilution Factor: 417.5
Analyst ID.....: 117751 Instrument ID...: MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Ethanol	560000	10000	ppb (v/v)	920
2-Propanol	21000	4200	ppb (v/v)	420

EMCON/OWT, INC

Client Sample ID: GE-15

GC Volatiles

Lot-Sample #...: E4C170382-005 Work Order #...: GCF1A1AC Matrix.....: AIR
Date Sampled...: 03/11/04 17:22 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
Prep Batch #...: 4079357 Analysis Time...: 15:42
Dilution Factor: 4.16
Analyst ID.....: 101605 Instrument ID...: GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	35	0.042	% (v/v)	0.0083
Oxygen	1.1	0.42	% (v/v)	0.12
Nitrogen	14	4.2	% (v/v)	2.9
Methane	53	0.00083	% (v/v)	0.00025
Carbon monoxide	ND	0.0042	% (v/v)	0.0012

EMCON/OWT, INC

Client Sample ID: GP-11 SHALLOW

GC/MS Volatiles

Lot-Sample #....: E4C170382-006 Work Order #....: GCF1C1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 17:40 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/23/04 Analysis Date...: 03/23/04
 Prep Batch #....: 4084598 Analysis Time...: 03:47
 Dilution Factor: 3.52
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	35	ppb (v/v)	7.0
Acetonitrile	ND	14	ppb (v/v)	2.8
Acrolein	ND	14	ppb (v/v)	2.8
Acrylonitrile	ND	35	ppb (v/v)	3.5
Benzene	ND	7.0	ppb (v/v)	2.8
Benzyl chloride	ND	35	ppb (v/v)	2.8
Bromodichloromethane	ND	7.0	ppb (v/v)	2.8
Bromoform	ND	7.0	ppb (v/v)	1.8
Bromomethane	ND	7.0	ppb (v/v)	3.5
1,3-Butadiene	ND	14	ppb (v/v)	3.2
Carbon disulfide	ND	35	ppb (v/v)	7.0
Carbon tetrachloride	ND	7.0	ppb (v/v)	1.8
Chlorobenzene	ND	7.0	ppb (v/v)	1.8
Dibromochloromethane	ND	7.0	ppb (v/v)	1.8
1,2-Dibromo-3-chloro- propane	ND	7.0	ppb (v/v)	1.8
Chloroethane	22	14	ppb (v/v)	2.8
Chloroform	ND	7.0	ppb (v/v)	2.8
Chloromethane	ND	14	ppb (v/v)	3.5
Allyl chloride	ND	14	ppb (v/v)	1.8
1,2-Dichlorobenzene	ND	7.0	ppb (v/v)	2.8
1,3-Dichlorobenzene	ND	7.0	ppb (v/v)	2.5
1,4-Dichlorobenzene	ND	7.0	ppb (v/v)	2.8
Dichlorodifluoromethane	400	7.0	ppb (v/v)	1.8
1,1-Dichloroethane	130	7.0	ppb (v/v)	1.8
1,2-Dichloroethane	ND	7.0	ppb (v/v)	2.8
1,1-Dichloroethene	ND	7.0	ppb (v/v)	1.8
cis-1,2-Dichloroethene	81	7.0	ppb (v/v)	2.8
trans-1,2-Dichloroethene	ND	7.0	ppb (v/v)	1.8
1,2-Dichloropropane	ND	7.0	ppb (v/v)	2.8
cis-1,3-Dichloropropene	ND	7.0	ppb (v/v)	1.8
trans-1,3-Dichloropropene	ND	7.0	ppb (v/v)	2.8
1,2-Dichloro-	35	7.0	ppb (v/v)	2.8
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	35	ppb (v/v)	7.0
Ethanol	ND	88	ppb (v/v)	7.7
Ethylbenzene	ND	7.0	ppb (v/v)	1.8

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-11 SHALLOW

GC/MS Volatiles

Lot-Sample #...: E4C170382-006 Work Order #...: GCF1C1AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichlorofluoromethane	ND	7.0	ppb (v/v)	1.8
Hexachlorobutadiene	ND	14	ppb (v/v)	3.5
n-Hexane	87	7.0	ppb (v/v)	2.1
2-Hexanone	ND	35	ppb (v/v)	3.5
2-Propanol	ND	35	ppb (v/v)	3.5
Methylene chloride	ND	7.0	ppb (v/v)	2.8
Naphthalene	ND	18	ppb (v/v)	1.8
Styrene	ND	7.0	ppb (v/v)	2.1
1,1,2,2-Tetrachloroethane	ND	7.0	ppb (v/v)	1.8
Tetrachloroethene	320	7.0	ppb (v/v)	2.1
Toluene	ND	7.0	ppb (v/v)	1.8
1,2,4-Trichloro- benzene	ND	18	ppb (v/v)	3.5
1,1,1-Trichloroethane	ND	7.0	ppb (v/v)	1.8
1,1,2-Trichloroethane	ND	7.0	ppb (v/v)	2.1
Trichloroethene	17	7.0	ppb (v/v)	1.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	7.0	ppb (v/v)	1.8
1,2,4-Trimethylbenzene	ND	7.0	ppb (v/v)	2.8
1,3,5-Trimethylbenzene	ND	7.0	ppb (v/v)	2.8
Vinyl acetate	ND	35	ppb (v/v)	7.0
Vinyl chloride	180	7.0	ppb (v/v)	2.8
o-Xylene	ND	7.0	ppb (v/v)	2.1
n-Nonane	ND	35	ppb (v/v)	
Methyl tert-butyl ether	ND	7.0	ppb (v/v)	1.8
m-Xylene & p-Xylene	ND	7.0	ppb (v/v)	3.5
1,2-Dibromoethane (EDB)	ND	7.0	ppb (v/v)	1.8
2-Butanone (MEK)	ND	35	ppb (v/v)	7.0
4-Methyl-2-pentanone (MIBK)	ND	35	ppb (v/v)	7.0
4-Ethyltoluene	ND	7.0	ppb (v/v)	2.5
Cumene	ND	7.0	ppb (v/v)	1.8

EMCON/OWT, INC

Client Sample ID: GP-11 SHALLOW

GC Volatiles

Lot-Sample #....: E4C170382-006 Work Order #....: GCF1C1AC Matrix.....: AIR
 Date Sampled....: 03/11/04 17:40 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #....: 4079357 Analysis Time...: 16:05
 Dilution Factor: 3.52
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	20	0.035	% (v/v)	0.0070
Oxygen	1.9	0.35	% (v/v)	0.11
Nitrogen	79	3.5	% (v/v)	2.5
Methane	1.5	0.00070	% (v/v)	0.00021
Carbon monoxide	ND	0.0035	% (v/v)	0.0011

EMCON/OWT, INC

Client Sample ID: GP-11 INTERMEDIATE

GC/MS Volatiles

Lot-Sample #....: E4C170382-007 Work Order #....: GCF1E1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 17:45 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 23:11
 Dilution Factor: 3.56
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	300	36	ppb (v/v)	7.1
Acetonitrile	ND	14	ppb (v/v)	2.8
Acrolein	ND	14	ppb (v/v)	2.8
Acrylonitrile	ND	36	ppb (v/v)	3.6
Benzene	110	7.1	ppb (v/v)	2.8
Benzyl chloride	ND	36	ppb (v/v)	2.8
Bromodichloromethane	ND	7.1	ppb (v/v)	2.8
Bromoform	ND	7.1	ppb (v/v)	1.8
Bromomethane	ND	7.1	ppb (v/v)	3.6
1,3-Butadiene	ND	14	ppb (v/v)	3.2
Carbon disulfide	ND	36	ppb (v/v)	7.1
Carbon tetrachloride	ND	7.1	ppb (v/v)	1.8
Chlorobenzene	ND	7.1	ppb (v/v)	1.8
Dibromochloromethane	ND	7.1	ppb (v/v)	1.8
1,2-Dibromo-3-chloro- propane	ND	7.1	ppb (v/v)	1.8
Chloroethane	510	14	ppb (v/v)	2.8
Chloroform	ND	7.1	ppb (v/v)	2.8
Chloromethane	ND	14	ppb (v/v)	3.6
Allyl chloride	ND	14	ppb (v/v)	1.8
1,2-Dichlorobenzene	ND	7.1	ppb (v/v)	2.8
1,3-Dichlorobenzene	ND	7.1	ppb (v/v)	2.5
1,4-Dichlorobenzene	ND	7.1	ppb (v/v)	2.8
Dichlorodifluoromethane	1600	7.1	ppb (v/v)	1.8
1,1-Dichloroethane	1200	7.1	ppb (v/v)	1.8
1,2-Dichloroethane	ND	7.1	ppb (v/v)	2.8
1,1-Dichloroethene	50	7.1	ppb (v/v)	1.8
trans-1,2-Dichloroethene	200	7.1	ppb (v/v)	1.8
1,2-Dichloropropane	ND	7.1	ppb (v/v)	2.8
cis-1,3-Dichloropropene	ND	7.1	ppb (v/v)	1.8
trans-1,3-Dichloropropene	ND	7.1	ppb (v/v)	2.8
1,2-Dichloro-	140	7.1	ppb (v/v)	2.8
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	36	ppb (v/v)	7.1
Ethanol	ND	89	ppb (v/v)	7.8
Ethylbenzene	ND	7.1	ppb (v/v)	1.8
Trichlorofluoromethane	69	7.1	ppb (v/v)	1.8

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-11 INTERMEDIATE

GC/MS Volatiles

Lot-Sample #....: E4C170382-007 Work Order #....: GCF1E1AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	14	ppb (v/v)	3.6
n-Hexane	1000	7.1	ppb (v/v)	2.1
2-Hexanone	ND	36	ppb (v/v)	3.6
2-Propanol	ND	36	ppb (v/v)	3.6
Methylene chloride	33	7.1	ppb (v/v)	2.8
Naphthalene	ND	18	ppb (v/v)	1.8
Styrene	ND	7.1	ppb (v/v)	2.1
1,1,2,2-Tetrachloroethane	ND	7.1	ppb (v/v)	1.8
Tetrachloroethene	850	7.1	ppb (v/v)	2.1
Toluene	ND	7.1	ppb (v/v)	1.8
1,2,4-Trichloro- benzene	ND	18	ppb (v/v)	3.6
1,1,1-Trichloroethane	19	7.1	ppb (v/v)	1.8
1,1,2-Trichloroethane	ND	7.1	ppb (v/v)	2.1
Trichloroethene	210	7.1	ppb (v/v)	1.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	27	7.1	ppb (v/v)	1.8
1,2,4-Trimethylbenzene	ND	7.1	ppb (v/v)	2.8
1,3,5-Trimethylbenzene	ND	7.1	ppb (v/v)	2.8
Vinyl acetate	ND	36	ppb (v/v)	7.1
o-Xylene	ND	7.1	ppb (v/v)	2.1
n-Nonane	260	36	ppb (v/v)	
Methyl tert-butyl ether	ND	7.1	ppb (v/v)	1.8
m-Xylene & p-Xylene	ND	7.1	ppb (v/v)	3.6
1,2-Dibromoethane (EDB)	ND	7.1	ppb (v/v)	1.8
2-Butanone (MEK)	ND	36	ppb (v/v)	7.1
4-Methyl-2-pentanone (MIBK)	ND	36	ppb (v/v)	7.1
4-Ethyltoluene	ND	7.1	ppb (v/v)	2.5
Cumene	23	7.1	ppb (v/v)	1.8

EMCON/OWT, INC

Client Sample ID: GP-11 INTERMEDIATE

GC/MS Volatiles

Lot-Sample #....: E4C170382-007 Work Order #....: GCF1E2AD Matrix.....: AIR
 Date Sampled...: 03/11/04 17:45 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/23/04 Analysis Date...: 03/23/04
 Prep Batch #....: 4084598 Analysis Time...: 04:24
 Dilution Factor: 35.66
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	4600	71	ppb (v/v)	29
Vinyl chloride	4600	71	ppb (v/v)	29

EMCON/OWT, INC

Client Sample ID: GP-11 INTERMEDIATE

GC Volatiles

Lot-Sample #...: E4C170382-007 Work Order #...: GCF1E1AC Matrix.....: AIR
 Date Sampled...: 03/11/04 17:45 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #...: 4079357 Analysis Time...: 16:29
 Dilution Factor: 3.56
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	28	0.036	% (v/v)	0.0071
Oxygen	1.3	0.36	% (v/v)	0.11
Nitrogen	44	3.6	% (v/v)	2.5
Methane	30	0.00071	% (v/v)	0.00021
Carbon monoxide	ND	0.0036	% (v/v)	0.0011

EMCON/OWT, INC

Client Sample ID: GP-11 DEEP

GC/MS Volatiles

Lot-Sample #....: E4C170382-008 Work Order #....: GCF1F1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 18:02 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 23:49
 Dilution Factor: 15.23
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	150	ppb (v/v)	30
Acetonitrile	ND	61	ppb (v/v)	12
Acrolein	ND	61	ppb (v/v)	12
Acrylonitrile	ND	150	ppb (v/v)	15
Benzene	110	30	ppb (v/v)	12
Benzyl chloride	ND	150	ppb (v/v)	12
Bromodichloromethane	ND	30	ppb (v/v)	12
Bromoform	ND	30	ppb (v/v)	7.6
Bromomethane	ND	30	ppb (v/v)	15
1,3-Butadiene	ND	61	ppb (v/v)	14
Carbon disulfide	ND	150	ppb (v/v)	30
Carbon tetrachloride	ND	30	ppb (v/v)	7.6
Chlorobenzene	ND	30	ppb (v/v)	7.6
Dibromochloromethane	ND	30	ppb (v/v)	7.6
1,2-Dibromo-3-chloro- propane	ND	30	ppb (v/v)	7.6
Chloroethane	590	61	ppb (v/v)	12
Chloroform	ND	30	ppb (v/v)	12
Chloromethane	ND	61	ppb (v/v)	15
Allyl chloride	ND	61	ppb (v/v)	7.6
1,2-Dichlorobenzene	ND	30	ppb (v/v)	12
1,3-Dichlorobenzene	ND	30	ppb (v/v)	11
1,4-Dichlorobenzene	ND	30	ppb (v/v)	12
Dichlorodifluoromethane	4600	30	ppb (v/v)	7.6
1,1-Dichloroethane	1200	30	ppb (v/v)	7.6
1,2-Dichloroethane	ND	30	ppb (v/v)	12
1,1-Dichloroethene	72	30	ppb (v/v)	7.6
cis-1,2-Dichloroethene	3700	30	ppb (v/v)	12
trans-1,2-Dichloroethene	200	30	ppb (v/v)	7.6
1,2-Dichloropropane	ND	30	ppb (v/v)	12
cis-1,3-Dichloropropene	ND	30	ppb (v/v)	7.6
trans-1,3-Dichloropropene	ND	30	ppb (v/v)	12
1,2-Dichloro-	220	30	ppb (v/v)	12
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	150	ppb (v/v)	30
Ethanol	ND	380	ppb (v/v)	34
Ethylbenzene	ND	30	ppb (v/v)	7.6

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-11 DEEP

GC/MS Volatiles

Lot-Sample #....: E4C170382-008 Work Order #....: GCF1F1AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Trichlorofluoromethane	300	30	ppb (v/v)	7.6
Hexachlorobutadiene	ND	61	ppb (v/v)	15
n-Hexane	1400	30	ppb (v/v)	9.1
2-Hexanone	ND	150	ppb (v/v)	15
2-Propanol	ND	150	ppb (v/v)	15
Methylene chloride	67	30	ppb (v/v)	12
Naphthalene	ND	76	ppb (v/v)	7.6
Styrene	ND	30	ppb (v/v)	9.1
1,1,2,2-Tetrachloroethane	ND	30	ppb (v/v)	7.6
Tetrachloroethene	1000	30	ppb (v/v)	9.1
Toluene	ND	30	ppb (v/v)	7.6
1,2,4-Trichloro- benzene	ND	76	ppb (v/v)	15
1,1,1-Trichloroethane	70	30	ppb (v/v)	7.6
1,1,2-Trichloroethane	ND	30	ppb (v/v)	9.1
Trichloroethene	170	30	ppb (v/v)	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	83	30	ppb (v/v)	7.6
1,2,4-Trimethylbenzene	ND	30	ppb (v/v)	12
1,3,5-Trimethylbenzene	ND	30	ppb (v/v)	12
Vinyl acetate	ND	150	ppb (v/v)	30
Vinyl chloride	3800	30	ppb (v/v)	12
o-Xylene	ND	30	ppb (v/v)	9.1
n-Nonane	190	150	ppb (v/v)	
Methyl tert-butyl ether	ND	30	ppb (v/v)	7.6
m-Xylene & p-Xylene	ND	30	ppb (v/v)	15
1,2-Dibromoethane (EDB)	ND	30	ppb (v/v)	7.6
2-Butanone (MEK)	ND	150	ppb (v/v)	30
4-Methyl-2-pentanone (MIBK)	ND	150	ppb (v/v)	30
4-Ethyltoluene	ND	30	ppb (v/v)	11
Cumene	ND	30	ppb (v/v)	7.6

EMCON/OWT, INC

Client Sample ID: GP-11 DEEP

GC Volatiles

Lot-Sample #....: E4C170382-008 Work Order #....: GCF1F1AC Matrix.....: AIR
 Date Sampled...: 03/11/04 18:02 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #....: 4079357 Analysis Time...: 16:53
 Dilution Factor: 3.65
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	25	0.036	% (v/v)	0.0073
Oxygen	1.2	0.36	% (v/v)	0.11
Nitrogen	50	3.6	% (v/v)	2.6
Methane	27	0.00073	% (v/v)	0.00022
Carbon monoxide	ND	0.0036	% (v/v)	0.0011

EMCON/OWT, INC

Client Sample ID: GP-8-1

GC/MS Volatiles

Lot-Sample #....: E4C170382-009 Work Order #....: GCF1G1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 18:30 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 14:43
 Dilution Factor: 14.28
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	140	ppb (v/v)	29
Acetonitrile	ND	57	ppb (v/v)	11
Acrolein	ND	57	ppb (v/v)	11
Acrylonitrile	ND	140	ppb (v/v)	14
Benzene	89	29	ppb (v/v)	11
Benzyl chloride	ND	140	ppb (v/v)	11
Bromodichloromethane	ND	29	ppb (v/v)	11
Bromoform	ND	29	ppb (v/v)	7.1
Bromomethane	ND	29	ppb (v/v)	14
1,3-Butadiene	ND	57	ppb (v/v)	13
Carbon disulfide	ND	140	ppb (v/v)	29
Carbon tetrachloride	ND	29	ppb (v/v)	7.1
Chlorobenzene	ND	29	ppb (v/v)	7.1
Dibromochloromethane	ND	29	ppb (v/v)	7.1
1,2-Dibromo-3-chloro- propane	ND	29	ppb (v/v)	7.1
Chloroethane	850	57	ppb (v/v)	11
Chloroform	ND	29	ppb (v/v)	11
Chloromethane	ND	57	ppb (v/v)	14
Allyl chloride	ND	57	ppb (v/v)	7.1
1,2-Dichlorobenzene	ND	29	ppb (v/v)	11
1,3-Dichlorobenzene	ND	29	ppb (v/v)	10
1,4-Dichlorobenzene	ND	29	ppb (v/v)	11
Dichlorodifluoromethane	1100	29	ppb (v/v)	7.1
1,1-Dichloroethane	90	29	ppb (v/v)	7.1
1,2-Dichloroethane	ND	29	ppb (v/v)	11
1,1-Dichloroethene	ND	29	ppb (v/v)	7.1
cis-1,2-Dichloroethene	230	29	ppb (v/v)	11
trans-1,2-Dichloroethene	ND	29	ppb (v/v)	7.1
1,2-Dichloropropane	ND	29	ppb (v/v)	11
cis-1,3-Dichloropropene	ND	29	ppb (v/v)	7.1
trans-1,3-Dichloropropene	ND	29	ppb (v/v)	11
1,2-Dichloro-	190	29	ppb (v/v)	11
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	140	ppb (v/v)	29
Ethanol	ND	360	ppb (v/v)	31
Ethylbenzene	ND	29	ppb (v/v)	7.1

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-8-1

GC/MS Volatiles

Lot-Sample #...: E4C170382-009 Work Order #...: GCF1G1AD Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichlorofluoromethane	42	29	ppb (v/v)	7.1
Hexachlorobutadiene	ND	57	ppb (v/v)	14
n-Hexane	2100	29	ppb (v/v)	8.6
2-Hexanone	ND	140	ppb (v/v)	14
2-Propanol	ND	140	ppb (v/v)	14
Methylene chloride	ND	29	ppb (v/v)	11
Naphthalene	ND	71	ppb (v/v)	7.1
Styrene	ND	29	ppb (v/v)	8.6
1,1,2,2-Tetrachloroethane	ND	29	ppb (v/v)	7.1
Tetrachloroethene	33	29	ppb (v/v)	8.6
Toluene	ND	29	ppb (v/v)	7.1
1,2,4-Trichloro- benzene	ND	71	ppb (v/v)	14
1,1,1-Trichloroethane	ND	29	ppb (v/v)	7.1
1,1,2-Trichloroethane	ND	29	ppb (v/v)	8.6
Trichloroethene	ND	29	ppb (v/v)	7.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	29	ppb (v/v)	7.1
1,2,4-Trimethylbenzene	ND	29	ppb (v/v)	11
1,3,5-Trimethylbenzene	ND	29	ppb (v/v)	11
Vinyl acetate	ND	140	ppb (v/v)	29
Vinyl chloride	2700	29	ppb (v/v)	11
o-Xylene	ND	29	ppb (v/v)	8.6
n-Nonane	760	140	ppb (v/v)	
Methyl tert-butyl ether	ND	29	ppb (v/v)	7.1
m-Xylene & p-Xylene	ND	29	ppb (v/v)	14
1,2-Dibromoethane (EDB)	ND	29	ppb (v/v)	7.1
2-Butanone (MEK)	ND	140	ppb (v/v)	29
4-Methyl-2-pentanone (MIBK)	ND	140	ppb (v/v)	29
4-Ethyltoluene	ND	29	ppb (v/v)	10
Cumene	ND	29	ppb (v/v)	7.1

EMCON/OWT, INC

Client Sample ID: GP-8-1

GC Volatiles

Lot-Sample #....: E4C170382-009 Work Order #....: GCF1G1AC Matrix.....: AIR
 Date Sampled...: 03/11/04 18:30 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #....: 4079357 Analysis Time...: 17:17
 Dilution Factor: 3.42
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	31	0.034	% (v/v)	0.0068
Oxygen	0.79	0.34	% (v/v)	0.10
Nitrogen	21	3.4	% (v/v)	2.4
Methane	51	0.00068	% (v/v)	0.00021
Carbon monoxide	ND	0.0034	% (v/v)	0.0010

EMCON/OWT, INC

Client Sample ID: GP-8-2

GC/MS Volatiles

Lot-Sample #....: E4C170382-010 Work Order #....: GCF1H1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 18:40 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/20/04 Analysis Date...: 03/20/04
 Prep Batch #....: 4084394 Analysis Time...: 00:26
 Dilution Factor: 14.27
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	140	ppb (v/v)	29
Acetonitrile	ND	57	ppb (v/v)	11
Acrolein	ND	57	ppb (v/v)	11
Acrylonitrile	ND	140	ppb (v/v)	14
Benzene	ND	29	ppb (v/v)	11
Benzyl chloride	ND	140	ppb (v/v)	11
Bromodichloromethane	ND	29	ppb (v/v)	11
Bromoform	ND	29	ppb (v/v)	7.1
Bromomethane	ND	29	ppb (v/v)	14
1,3-Butadiene	ND	57	ppb (v/v)	13
Carbon disulfide	ND	140	ppb (v/v)	29
Carbon tetrachloride	ND	29	ppb (v/v)	7.1
Chlorobenzene	ND	29	ppb (v/v)	7.1
Dibromochloromethane	ND	29	ppb (v/v)	7.1
1,2-Dibromo-3-chloro- propane	ND	29	ppb (v/v)	7.1
Chloroethane	100	57	ppb (v/v)	11
Chloroform	ND	29	ppb (v/v)	11
Chloromethane	ND	57	ppb (v/v)	14
Allyl chloride	ND	57	ppb (v/v)	7.1
1,2-Dichlorobenzene	ND	29	ppb (v/v)	11
1,3-Dichlorobenzene	ND	29	ppb (v/v)	10
1,4-Dichlorobenzene	ND	29	ppb (v/v)	11
Dichlorodifluoromethane	5300	29	ppb (v/v)	7.1
1,1-Dichloroethane	ND	29	ppb (v/v)	7.1
1,2-Dichloroethane	ND	29	ppb (v/v)	11
1,1-Dichloroethene	ND	29	ppb (v/v)	7.1
cis-1,2-Dichloroethene	ND	29	ppb (v/v)	11
trans-1,2-Dichloroethene	ND	29	ppb (v/v)	7.1
1,2-Dichloropropane	ND	29	ppb (v/v)	11
cis-1,3-Dichloropropene	ND	29	ppb (v/v)	7.1
trans-1,3-Dichloropropene	ND	29	ppb (v/v)	11
1,2-Dichloro-	260	29	ppb (v/v)	11
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	140	ppb (v/v)	29
Ethanol	ND	360	ppb (v/v)	31
Ethylbenzene	ND	29	ppb (v/v)	7.1

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-8-2

GC/MS Volatiles

Lot-Sample #....: E4C170382-010

Work Order #....: GCF1H1AD

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichlorofluoromethane	420	29	ppb (v/v)	7.1
Hexachlorobutadiene	ND	57	ppb (v/v)	14
n-Hexane	1100	29	ppb (v/v)	8.6
2-Hexanone	ND	140	ppb (v/v)	14
2-Propanol	ND	140	ppb (v/v)	14
Methylene chloride	ND	29	ppb (v/v)	11
Naphthalene	ND	71	ppb (v/v)	7.1
Styrene	ND	29	ppb (v/v)	8.6
1,1,2,2-Tetrachloroethane	ND	29	ppb (v/v)	7.1
Tetrachloroethene	ND	29	ppb (v/v)	8.6
Toluene	ND	29	ppb (v/v)	7.1
1,2,4-Trichloro- benzene	ND	71	ppb (v/v)	14
1,1,1-Trichloroethane	ND	29	ppb (v/v)	7.1
1,1,2-Trichloroethane	ND	29	ppb (v/v)	8.6
Trichloroethene	ND	29	ppb (v/v)	7.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	62	29	ppb (v/v)	7.1
1,2,4-Trimethylbenzene	ND	29	ppb (v/v)	11
1,3,5-Trimethylbenzene	ND	29	ppb (v/v)	11
Vinyl acetate	ND	140	ppb (v/v)	29
Vinyl chloride	1200	29	ppb (v/v)	11
o-Xylene	ND	29	ppb (v/v)	8.6
n-Nonane	170	140	ppb (v/v)	
Methyl tert-butyl ether	ND	29	ppb (v/v)	7.1
m-Xylene & p-Xylene	ND	29	ppb (v/v)	14
1,2-Dibromoethane (EDB)	ND	29	ppb (v/v)	7.1
2-Butanone (MEK)	ND	140	ppb (v/v)	29
4-Methyl-2-pentanone (MIBK)	ND	140	ppb (v/v)	29
4-Ethyltoluene	ND	29	ppb (v/v)	10
Cumene	ND	29	ppb (v/v)	7.1

EMCON/OWT, INC

Client Sample ID: GP-8-2

GC Volatiles

Lot-Sample #...: E4C170382-010 Work Order #...: GCF1H1AC Matrix.....: AIR
 Date Sampled...: 03/11/04 18:40 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #...: 4079357 Analysis Time...: 17:40
 Dilution Factor: 3.42
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	11	0.034	% (v/v)	0.0068
Oxygen	1.2	0.34	% (v/v)	0.10
Nitrogen	53	3.4	% (v/v)	2.4
Methane	40	0.00068	% (v/v)	0.00021
Carbon monoxide	ND	0.0034	% (v/v)	0.0010

EMCON/OWT, INC

Client Sample ID: GP-8-3

GC/MS Volatiles

Lot-Sample #....: E4C170382-011 Work Order #....: GCF1J1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 19:00 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/20/04 Analysis Date...: 03/20/04
 Prep Batch #....: 4084394 Analysis Time...: 01:03
 Dilution Factor: 6.64
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	66	ppb (v/v)	13
Acetonitrile	ND	27	ppb (v/v)	5.3
Acrolein	ND	27	ppb (v/v)	5.3
Acrylonitrile	ND	66	ppb (v/v)	6.6
Benzene	ND	13	ppb (v/v)	5.3
Benzyl chloride	ND	66	ppb (v/v)	5.3
Bromodichloromethane	ND	13	ppb (v/v)	5.3
Bromoform	ND	13	ppb (v/v)	3.3
Bromomethane	ND	13	ppb (v/v)	6.6
1,3-Butadiene	ND	27	ppb (v/v)	6.0
Carbon disulfide	ND	66	ppb (v/v)	13
Carbon tetrachloride	ND	13	ppb (v/v)	3.3
Chlorobenzene	ND	13	ppb (v/v)	3.3
Dibromochloromethane	ND	13	ppb (v/v)	3.3
1,2-Dibromo-3-chloro- propane	ND	13	ppb (v/v)	3.3
Chloroethane	ND	27	ppb (v/v)	5.3
Chloroform	ND	13	ppb (v/v)	5.3
Chloromethane	ND	27	ppb (v/v)	6.6
Allyl chloride	ND	27	ppb (v/v)	3.3
1,2-Dichlorobenzene	ND	13	ppb (v/v)	5.3
1,3-Dichlorobenzene	ND	13	ppb (v/v)	4.6
1,4-Dichlorobenzene	ND	13	ppb (v/v)	5.3
1,1-Dichloroethane	ND	13	ppb (v/v)	3.3
1,2-Dichloroethane	ND	13	ppb (v/v)	5.3
1,1-Dichloroethene	ND	13	ppb (v/v)	3.3
cis-1,2-Dichloroethene	ND	13	ppb (v/v)	5.3
trans-1,2-Dichloroethene	ND	13	ppb (v/v)	3.3
1,2-Dichloropropane	ND	13	ppb (v/v)	5.3
cis-1,3-Dichloropropene	ND	13	ppb (v/v)	3.3
trans-1,3-Dichloropropene	ND	13	ppb (v/v)	5.3
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	300	13	ppb (v/v)	5.3
1,4-Dioxane	ND	66	ppb (v/v)	13
Ethanol	ND	170	ppb (v/v)	15
Ethylbenzene	ND	13	ppb (v/v)	3.3
Trichlorofluoromethane	670	13	ppb (v/v)	3.3

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-8-3

GC/MS Volatiles

Lot-Sample #....: E4C170382-011

Work Order #....: GCF1J1AD

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	27	ppb (v/v)	6.6
n-Hexane	77	13	ppb (v/v)	4.0
2-Hexanone	ND	66	ppb (v/v)	6.6
2-Propanol	ND	66	ppb (v/v)	6.6
Methylene chloride	ND	13	ppb (v/v)	5.3
Naphthalene	ND	33	ppb (v/v)	3.3
Styrene	ND	13	ppb (v/v)	4.0
1,1,2,2-Tetrachloroethane	ND	13	ppb (v/v)	3.3
Tetrachloroethene	ND	13	ppb (v/v)	4.0
Toluene	ND	13	ppb (v/v)	3.3
1,2,4-Trichloro- benzene	ND	33	ppb (v/v)	6.6
1,1,1-Trichloroethane	46	13	ppb (v/v)	3.3
1,1,2-Trichloroethane	ND	13	ppb (v/v)	4.0
Trichloroethene	ND	13	ppb (v/v)	3.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	44	13	ppb (v/v)	3.3
1,2,4-Trimethylbenzene	ND	13	ppb (v/v)	5.3
1,3,5-Trimethylbenzene	ND	13	ppb (v/v)	5.3
Vinyl acetate	ND	66	ppb (v/v)	13
Vinyl chloride	430	13	ppb (v/v)	5.3
o-Xylene	ND	13	ppb (v/v)	4.0
n-Nonane	ND	66	ppb (v/v)	
Methyl tert-butyl ether	ND	13	ppb (v/v)	3.3
m-Xylene & p-Xylene	ND	13	ppb (v/v)	6.6
1,2-Dibromoethane (EDB)	ND	13	ppb (v/v)	3.3
2-Butanone (MEK)	ND	66	ppb (v/v)	13
4-Methyl-2-pentanone (MIBK)	ND	66	ppb (v/v)	13
4-Ethyltoluene	ND	13	ppb (v/v)	4.6
Cumene	ND	13	ppb (v/v)	3.3

Client Sample ID: GP-8-3

```

Lot-Sample #...: E4C170382-011  Work Order #...: GCF1J2AD      Matrix.....: AIR
Date Sampled...: 03/11/04 19:00  Date Received...: 03/17/04 10:30  MS Run #.....:
Prep Date.....: 03/23/04      Analysis Date...: 03/23/04
Prep Batch #...: 4084598      Analysis Time...: 05:01
Dilution Factor: 33.2
Analyst ID.....: 117751      Instrument ID...: MSB
Method.....: EPA-2 TO-15

```

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	8300	66	ppb (v/v)	17

EMCON/OWT, INC

Client Sample ID: GP-8-3

GC Volatiles

Lot-Sample #....: E4C170382-011 Work Order #....: GCF1J1AC Matrix.....: AIR
 Date Sampled....: 03/11/04 19:00 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #....: 4079357 Analysis Time...: 18:04
 Dilution Factor: 3.31
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Carbon dioxide	5.6	0.033	% (v/v)	0.0066
Oxygen	1.4	0.33	% (v/v)	0.099
Nitrogen	81	3.3	% (v/v)	2.3
Methane	16	0.00066	% (v/v)	0.00020
Carbon monoxide	ND	0.0033	% (v/v)	0.00099

EMCON/OWT, INC

Client Sample ID: GE-16

GC/MS Volatiles

Lot-Sample #....: E4C170382-012 Work Order #....: GCF1K1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 19:40 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/20/04 Analysis Date...: 03/20/04
 Prep Batch #....: 4084394 Analysis Time...: 01:41
 Dilution Factor: 14.37
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1000	140	ppb (v/v)	29
Acetonitrile	ND	57	ppb (v/v)	11
Acrolein	ND	57	ppb (v/v)	11
Acrylonitrile	ND	140	ppb (v/v)	14
Benzene	260	29	ppb (v/v)	11
Benzyl chloride	ND	140	ppb (v/v)	11
Bromodichloromethane	ND	29	ppb (v/v)	11
Bromoform	ND	29	ppb (v/v)	7.2
Bromomethane	ND	29	ppb (v/v)	14
1,3-Butadiene	ND	57	ppb (v/v)	13
Carbon disulfide	ND	140	ppb (v/v)	29
Carbon tetrachloride	ND	29	ppb (v/v)	7.2
Chlorobenzene	110	29	ppb (v/v)	7.2
Dibromochloromethane	ND	29	ppb (v/v)	7.2
1,2-Dibromo-3-chloro- propane	ND	29	ppb (v/v)	7.2
Chloroethane	450	57	ppb (v/v)	11
Chloroform	ND	29	ppb (v/v)	11
Chloromethane	ND	57	ppb (v/v)	14
Allyl chloride	ND	57	ppb (v/v)	7.2
1,2-Dichlorobenzene	33	29	ppb (v/v)	11
1,3-Dichlorobenzene	ND	29	ppb (v/v)	10
1,4-Dichlorobenzene	150	29	ppb (v/v)	11
Dichlorodifluoromethane	200	29	ppb (v/v)	7.2
1,1-Dichloroethane	ND	29	ppb (v/v)	7.2
1,2-Dichloroethane	ND	29	ppb (v/v)	11
1,1-Dichloroethene	ND	29	ppb (v/v)	7.2
cis-1,2-Dichloroethene	130	29	ppb (v/v)	11
trans-1,2-Dichloroethene	ND	29	ppb (v/v)	7.2
1,2-Dichloropropane	ND	29	ppb (v/v)	11
cis-1,3-Dichloropropene	ND	29	ppb (v/v)	7.2
trans-1,3-Dichloropropene	ND	29	ppb (v/v)	11
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	58	29	ppb (v/v)	11
1,4-Dioxane	ND	140	ppb (v/v)	29
Ethylbenzene	1900	29	ppb (v/v)	7.2
Trichlorofluoromethane	ND	29	ppb (v/v)	7.2

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GE-16

GC/MS Volatiles

Lot-Sample #....: E4C170382-012

Work Order #....: GCF1K1AD

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	57	ppb (v/v)	14
n-Hexane	1400	29	ppb (v/v)	8.6
2-Hexanone	ND	140	ppb (v/v)	14
2-Propanol	1400	140	ppb (v/v)	14
Methylene chloride	61	29	ppb (v/v)	11
Naphthalene	260	72	ppb (v/v)	7.2
Styrene	ND	29	ppb (v/v)	8.6
1,1,2,2-Tetrachloroethane	ND	29	ppb (v/v)	7.2
Tetrachloroethene	44	29	ppb (v/v)	8.6
Toluene	2000	29	ppb (v/v)	7.2
1,2,4-Trichloro- benzene	ND	72	ppb (v/v)	14
1,1,1-Trichloroethane	ND	29	ppb (v/v)	7.2
1,1,2-Trichloroethane	ND	29	ppb (v/v)	8.6
Trichloroethene	52	29	ppb (v/v)	7.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	29	ppb (v/v)	7.2
1,2,4-Trimethylbenzene	490	29	ppb (v/v)	11
1,3,5-Trimethylbenzene	220	29	ppb (v/v)	11
Vinyl acetate	ND	140	ppb (v/v)	29
Vinyl chloride	1100	29	ppb (v/v)	11
o-Xylene	1200	29	ppb (v/v)	8.6
n-Nonane	2200	140	ppb (v/v)	
Methyl tert-butyl ether	ND	29	ppb (v/v)	7.2
m-Xylene & p-Xylene	3600	29	ppb (v/v)	14
1,2-Dibromoethane (EDB)	ND	29	ppb (v/v)	7.2
2-Butanone (MEK)	1600	140	ppb (v/v)	29
4-Methyl-2-pentanone (MIBK)	ND	140	ppb (v/v)	29
4-Ethyltoluene	490	29	ppb (v/v)	10
Cumene	190	29	ppb (v/v)	7.2

EMCON/OWT, INC

Client Sample ID: GE-16

GC/MS Volatiles

Lot-Sample #....: E4C170382-012 Work Order #....: GCF1K2AD Matrix.....: AIR
Date Sampled....: 03/11/04 19:40 Date Received...: 03/17/04 10:30 MS Run #.....:
Prep Date.....: 03/23/04 Analysis Date...: 03/23/04
Prep Batch #....: 4084598 Analysis Time...: 05:39
Dilution Factor: 68.99
Analyst ID.....: 117751 Instrument ID...: MSB
Method.....: EPA-2 TO-15

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Ethanol	97000	1700	ppb (v/v)	150

EMCON/OWT, INC

Client Sample ID: GE-16

GC Volatiles

Lot-Sample #...: E4C170382-012 Work Order #...: GCF1K1AC Matrix.....: AIR
 Date Sampled...: 03/11/04 19:40 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #...: 4079357 Analysis Time...: 18:28
 Dilution Factor: 3.45
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Carbon dioxide	30	0.034	% (v/v)	0.0069
Oxygen	1.2	0.34	% (v/v)	0.10
Nitrogen	29	3.4	% (v/v)	2.4
Methane	40	0.00069	% (v/v)	0.00021
Carbon monoxide	ND	0.0034	% (v/v)	0.0010

EMCON/OWT, INC

Client Sample ID: GP-9

GC/MS Volatiles

Lot-Sample #....: E4C170382-013 Work Order #....: GCF1L1AD Matrix.....: AIR
 Date Sampled....: 03/11/04 20:15 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/20/04 Analysis Date...: 03/20/04
 Prep Batch #....: 4084394 Analysis Time...: 02:18
 Dilution Factor: 15.41
 Analyst ID.....: 117751 Instrument ID...: MSB
 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	150	ppb (v/v)	31
Acetonitrile	ND	62	ppb (v/v)	12
Acrolein	ND	62	ppb (v/v)	12
Acrylonitrile	ND	150	ppb (v/v)	15
Benzene	67	31	ppb (v/v)	12
Benzyl chloride	ND	150	ppb (v/v)	12
Bromodichloromethane	ND	31	ppb (v/v)	12
Bromoform	ND	31	ppb (v/v)	7.7
Bromomethane	ND	31	ppb (v/v)	15
1,3-Butadiene	ND	62	ppb (v/v)	14
Carbon disulfide	ND	150	ppb (v/v)	31
Carbon tetrachloride	ND	31	ppb (v/v)	7.7
Chlorobenzene	ND	31	ppb (v/v)	7.7
Dibromochloromethane	ND	31	ppb (v/v)	7.7
1,2-Dibromo-3-chloro- propane	ND	31	ppb (v/v)	7.7
Chloroethane	250	62	ppb (v/v)	12
Chloroform	ND	31	ppb (v/v)	12
Chloromethane	ND	62	ppb (v/v)	15
Allyl chloride	ND	62	ppb (v/v)	7.7
1,2-Dichlorobenzene	ND	31	ppb (v/v)	12
1,3-Dichlorobenzene	ND	31	ppb (v/v)	11
1,4-Dichlorobenzene	ND	31	ppb (v/v)	12
Dichlorodifluoromethane	510	31	ppb (v/v)	7.7
1,1-Dichloroethane	300	31	ppb (v/v)	7.7
1,2-Dichloroethane	ND	31	ppb (v/v)	12
1,1-Dichloroethene	ND	31	ppb (v/v)	7.7
cis-1,2-Dichloroethene	3000	31	ppb (v/v)	12
trans-1,2-Dichloroethene	94	31	ppb (v/v)	7.7
1,2-Dichloropropane	ND	31	ppb (v/v)	12
cis-1,3-Dichloropropene	ND	31	ppb (v/v)	7.7
trans-1,3-Dichloropropene	ND	31	ppb (v/v)	12
1,2-Dichloro-	46	31	ppb (v/v)	12
1,1,2,2-tetrafluoroethane				
1,4-Dioxane	ND	150	ppb (v/v)	31
Ethanol	ND	390	ppb (v/v)	34
Ethylbenzene	ND	31	ppb (v/v)	7.7

(Continued on next page)

EMCON/OWT, INC

Client Sample ID: GP-9

GC/MS Volatiles

Lot-Sample #...: E4C170382-013

Work Order #...: GCF1L1AD

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichlorofluoromethane	ND	31	ppb (v/v)	7.7
Hexachlorobutadiene	ND	62	ppb (v/v)	15
n-Hexane	320	31	ppb (v/v)	9.2
2-Hexanone	ND	150	ppb (v/v)	15
2-Propanol	ND	150	ppb (v/v)	15
Methylene chloride	ND	31	ppb (v/v)	12
Naphthalene	ND	77	ppb (v/v)	7.7
Styrene	ND	31	ppb (v/v)	9.2
1,1,2,2-Tetrachloroethane	ND	31	ppb (v/v)	7.7
Tetrachloroethene	320	31	ppb (v/v)	9.2
Toluene	ND	31	ppb (v/v)	7.7
1,2,4-Trichloro- benzene	ND	77	ppb (v/v)	15
1,1,1-Trichloroethane	ND	31	ppb (v/v)	7.7
1,1,2-Trichloroethane	ND	31	ppb (v/v)	9.2
Trichloroethene	220	31	ppb (v/v)	7.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	31	ppb (v/v)	7.7
1,2,4-Trimethylbenzene	ND	31	ppb (v/v)	12
1,3,5-Trimethylbenzene	ND	31	ppb (v/v)	12
Vinyl acetate	ND	150	ppb (v/v)	31
Vinyl chloride	2700	31	ppb (v/v)	12
o-Xylene	ND	31	ppb (v/v)	9.2
n-Nonane	470	150	ppb (v/v)	
Methyl tert-butyl ether	ND	31	ppb (v/v)	7.7
m-Xylene & p-Xylene	ND	31	ppb (v/v)	15
1,2-Dibromoethane (EDB)	ND	31	ppb (v/v)	7.7
2-Butanone (MEK)	ND	150	ppb (v/v)	31
4-Methyl-2-pentanone (MIBK)	ND	150	ppb (v/v)	31
4-Ethyltoluene	ND	31	ppb (v/v)	11
Cumene	ND	31	ppb (v/v)	7.7

EMCON/OWT, INC

Client Sample ID: GP-9

GC Volatiles

Lot-Sample #....: E4C170382-013 Work Order #....: GCF1L1AC Matrix.....: AIR
 Date Sampled....: 03/11/04 20:15 Date Received...: 03/17/04 10:30 MS Run #.....:
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #....: 4079357 Analysis Time...: 18:52
 Dilution Factor: 3.69
 Analyst ID.....: 101605 Instrument ID...: GC3
 Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon dioxide	24	0.037	% (v/v)	0.0074
Oxygen	1.5	0.37	% (v/v)	0.11
Nitrogen	67	3.7	% (v/v)	2.6
Methane	11	0.00074	% (v/v)	0.00022
Carbon monoxide	ND	0.0037	% (v/v)	0.0011

SEVERN
TRENT

STL

QA/QC

QC DATA ASSOCIATION SUMMARY

R4C170382

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-2 TO-15		4084394	
	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4085415	
002	AIR	EPA-2 TO-15		4084394	
	AIR	ASTM D1946		4079357	
003	AIR	EPA-2 TO-15		4084394	
	AIR	ASTM D1946		4079357	
004	AIR	EPA-2 TO-15		4084394	
	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4079357	
005	AIR	EPA-2 TO-15		4084394	
	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4079357	
006	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4079357	
007	AIR	EPA-2 TO-15		4084394	
	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4079357	
008	AIR	EPA-2 TO-15		4084394	
	AIR	ASTM D1946		4079357	
009	AIR	EPA-2 TO-15		4084394	
	AIR	ASTM D1946		4079357	
010	AIR	EPA-2 TO-15		4084394	
	AIR	ASTM D1946		4079357	
011	AIR	EPA-2 TO-15		4084394	
	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4079357	
012	AIR	EPA-2 TO-15		4084394	
	AIR	EPA-2 TO-15		4084598	
	AIR	ASTM D1946		4079357	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

E4C170382

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>
013	AIR	EPA-2 TO-15		4084394	
	AIR	ASTM D1946		4079357	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4C170382
MB Lot-Sample #: M4C240000-394

Work Order #...: GCTFM1AA

Matrix.....: AIR

Analysis Date...: 03/19/04
Dilution Factor: 1

Prep Date.....: 03/19/04

Analysis Time...: 13:45

Prep Batch #...: 4084394

Instrument ID...: MSB

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb (v/v)	EPA-2 TO-15
Acetonitrile	ND	4.0	ppb (v/v)	EPA-2 TO-15
Acrolein	ND	4.0	ppb (v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb (v/v)	EPA-2 TO-15
Benzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Benzyl chloride	ND	10	ppb (v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Bromoform	ND	2.0	ppb (v/v)	EPA-2 TO-15
Bromomethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3-Butadiene	ND	4.0	ppb (v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb (v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
chlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
ibromochloromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dibromo-3-chloro- propane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb (v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb (v/v)	EPA-2 TO-15
Allyl chloride	ND	4.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb (v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	2.0	ppb (v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,4-Dioxane	ND	10	ppb (v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
trichlorobutadiene	ND	4.0	ppb (v/v)	EPA-2 TO-15
Hexane	ND	2.0	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: E4C170382

Work Order #....: GCTFM1AA

Matrix.....: AIR

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
2-Hexanone	ND	10	ppb (v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb (v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
Naphthalene	ND	5.0	ppb (v/v)	EPA-2 TO-15
Styrene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Toluene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2,4-Trichloro- benzene	ND	5.0	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Vinyl acetate	ND	10	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb (v/v)	EPA-2 TO-15
n-Nonane	ND	10	ppb (v/v)	EPA-2 TO-15
Methyl tert-butyl ether	ND	2.0	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb (v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Cumene	ND	2.0	ppb (v/v)	EPA-2 TO-15

NOTE(S) :

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4C170382
 MB Lot-Sample #: M4C240000-598
 Analysis Date...: 03/22/04
 Dilution Factor: 1

Work Order #...: GCVF61AA
 Prep Date.....: 03/22/04
 Prep Batch #...: 4084598
 Analyst ID.....: 117751

Matrix.....: AIR
 Analysis Time...: 18:49
 Instrument ID...: MSB

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Tetrachloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Toluene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2,4-Trichloro- benzene	ND	5.0	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Vinyl acetate	ND	10	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
m-Xylene	ND	2.0	ppb (v/v)	EPA-2 TO-15
n-Nonane	ND	10	ppb (v/v)	EPA-2 TO-15
Methyl tert-butyl ether	ND	2.0	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb (v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb (v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb (v/v)	EPA-2 TO-15
4-Ethyltoluene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Cumene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Acetone	ND	10	ppb (v/v)	EPA-2 TO-15
Acetonitrile	ND	4.0	ppb (v/v)	EPA-2 TO-15
Acrolein	ND	4.0	ppb (v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb (v/v)	EPA-2 TO-15
Benzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Benzyl chloride	ND	10	ppb (v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Bromoform	ND	2.0	ppb (v/v)	EPA-2 TO-15
Bromomethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3-Butadiene	ND	4.0	ppb (v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb (v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Dibromochloromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dibromo-3-chloro- propane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	4.0	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4C170382

Work Order #...: GCVF61AA

Matrix.....: AIR

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Chloroform	ND	2.0	ppb (v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb (v/v)	EPA-2 TO-15
Allyl chloride	ND	4.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb (v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	2.0	ppb (v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,4-Dioxane	ND	10	ppb (v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb (v/v)	EPA-2 TO-15
Hexachlorobutadiene	ND	4.0	ppb (v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb (v/v)	EPA-2 TO-15
2-Hexanone	ND	10	ppb (v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb (v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb (v/v)	EPA-2 TO-15
Naphthalene	ND	5.0	ppb (v/v)	EPA-2 TO-15
Styrene	ND	2.0	ppb (v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb (v/v)	EPA-2 TO-15

NOTE (S) :

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4C170382
MB Lot-Sample #: M4C190000-357

Work Order #...: GCK831AA

Matrix.....: AIR

Analysis Date...: 03/18/04
Dilution Factor: 1

Prep Date.....: 03/18/04

Analysis Time...: 11:58

Prep Batch #...: 4079357

Instrument ID...: GC3

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE (S) :

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4C170382
MB Lot-Sample #: M4C250000-415

Work Order #...: GCWXR1AA

Matrix.....: AIR

Analysis Date...: 03/25/04
Dilution Factor: 1

Prep Date.....: 03/24/04

Analysis Time...: 14:13

Prep Batch #...: 4085415

Instrument ID...: GC3

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	% (v/v)	ASTM D1946
Oxygen	ND	0.10	% (v/v)	ASTM D1946
Nitrogen	ND	1.0	% (v/v)	ASTM D1946
Methane	ND	0.00020	% (v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	% (v/v)	ASTM D1946

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: E4C170382 Work Order #....: GCTFM1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C240000-394 GCTFM1AD-LCSD
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 12:30
 Dilution Factor: 1 Instrument ID...: MSB
 Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	89	(70 - 125)			EPA-2 TO-15
	89	(70 - 125)	0.11	(0-20)	EPA-2 TO-15
Methylene chloride	86	(75 - 120)			EPA-2 TO-15
	86	(75 - 120)	0.73	(0-20)	EPA-2 TO-15
Trichloroethene	83	(70 - 125)			EPA-2 TO-15
	82	(70 - 125)	0.99	(0-20)	EPA-2 TO-15
Toluene	91	(75 - 125)			EPA-2 TO-15
	92	(75 - 125)	1.3	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	93	(65 - 130)			EPA-2 TO-15
	92	(65 - 130)	0.62	(0-20)	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: E4C170382 Work Order #....: GCTFM1AC-LCS Matrix.....: AIR
 ICS Lot-Sample#: M4C240000-394 GCTFM1AD-LCSD
 Prep Date.....: 03/19/04 Analysis Date...: 03/19/04
 Prep Batch #....: 4084394 Analysis Time...: 12:30
 Dilution Factor: 1 Instrument ID...: MSB
 Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	52.7	ppb (v/v)	89		EPA-2 TO-15
	59.2	52.8	ppb (v/v)	89	0.11	EPA-2 TO-15
Methylene chloride	58.7	50.6	ppb (v/v)	86		EPA-2 TO-15
	58.7	50.3	ppb (v/v)	86	0.73	EPA-2 TO-15
Trichloroethene	59.5	49.3	ppb (v/v)	83		EPA-2 TO-15
	59.5	48.8	ppb (v/v)	82	0.99	EPA-2 TO-15
Toluene	55.7	50.5	ppb (v/v)	91		EPA-2 TO-15
	55.7	51.2	ppb (v/v)	92	1.3	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	51.3	ppb (v/v)	93		EPA-2 TO-15
	55.4	50.9	ppb (v/v)	92	0.62	EPA-2 TO-15

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 #...: E4C170382 Work Order #...: GCVF61AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C240000-598 GCVF61AD-LCSD
 Prep Date.....: 03/22/04 Analysis Date...: 03/22/04
 Prep Batch #...: 4084598 Analysis Time...: 16:23
 Dilution Factor: 1 Instrument ID...: MSB
 Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	86	(70 - 125)			EPA-2 TO-15
	83	(70 - 125)	4.1	(0-20)	EPA-2 TO-15
Methylene chloride	82	(75 - 120)			EPA-2 TO-15
	80	(75 - 120)	2.1	(0-20)	EPA-2 TO-15
Trichloroethene	79	(70 - 125)			EPA-2 TO-15
	77	(70 - 125)	3.1	(0-20)	EPA-2 TO-15
Toluene	88	(75 - 125)			EPA-2 TO-15
	85	(75 - 125)	3.6	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	90	(65 - 130)			EPA-2 TO-15
	88	(65 - 130)	2.8	(0-20)	EPA-2 TO-15

NOTE(S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4C170382 Work Order #...: GCVF61AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C240000-598 GCVF61AD-LCSD
 Prep Date.....: 03/22/04 Analysis Date...: 03/22/04
 Prep Batch #...: 4084598 Analysis Time...: 16:23
 Dilution Factor: 1 Instrument ID...: MSB
 Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	51.0	ppb (v/v)	86		EPA-2 TO-15
	59.2	48.9	ppb (v/v)	83	4.1	EPA-2 TO-15
Methylene chloride	58.7	48.3	ppb (v/v)	82		EPA-2 TO-15
	58.7	47.2	ppb (v/v)	80	2.1	EPA-2 TO-15
Trichloroethene	59.5	47.0	ppb (v/v)	79		EPA-2 TO-15
	59.5	45.5	ppb (v/v)	77	3.1	EPA-2 TO-15
Toluene	55.7	49.1	ppb (v/v)	88		EPA-2 TO-15
	55.7	47.4	ppb (v/v)	85	3.6	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	49.8	ppb (v/v)	90		EPA-2 TO-15
	55.4	48.4	ppb (v/v)	88	2.8	EPA-2 TO-15

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 Volatiles

Client Lot #....: E4C170382 Work Order #....: GCK831AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C190000-357 GCK831AD-LCSD
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #....: 4079357 Analysis Time...: 11:10
 Dilution Factor: 1 Instrument ID...: GC3
 Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	102	(75 - 125)			ASTM D1946
	102	(75 - 125)	0.29	(0-20)	ASTM D1946
Methane	95	(75 - 135)			ASTM D1946
	95	(75 - 135)	0.64	(0-20)	ASTM D1946

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4C170382 Work Order #...: GCK831AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C190000-357 GCK831AD-LCSD
 Prep Date.....: 03/18/04 Analysis Date...: 03/18/04
 Prep Batch #...: 4079357 Analysis Time...: 11:10
 Dilution Factor: 1 Instrument ID...: GC3
 Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	1.02	% (v/v)	102		ASTM D1946
	1.00	1.02	% (v/v)	102	0.29	ASTM D1946
Methane	0.0500	0.0477	% (v/v)	95		ASTM D1946
	0.0500	0.0474	% (v/v)	95	0.64	ASTM D1946

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 Volatiles

Client Lot #...: E4C170382 Work Order #...: GCWXR1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C250000-415 GCWXR1AD-LCSD
 Prep Date.....: 03/24/04 Analysis Date...: 03/25/04
 Prep Batch #...: 4085415 Analysis Time...: 11:26
 Dilution Factor: 1 Instrument ID...: GC3
 Analyst ID.....: 101605

PARAMETER	PERCENT	RECOVERY	RPD	RPD	METHOD
	RECOVERY	LIMITS		LIMITS	
Carbon dioxide	101	(75 - 125)			ASTM D1946
	101	(75 - 125)	0.75	(0-20)	ASTM D1946
Methane	94	(75 - 135)			ASTM D1946
	95	(75 - 135)	0.59	(0-20)	ASTM D1946

NOTE(S) :

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

Bold print denotes control parameters



LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4C170382 Work Order #...: GCWXR1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: M4C250000-415 GCWXR1AD-LCSD
 Prep Date.....: 03/24/04 Analysis Date...: 03/25/04
 Prep Batch #...: 4085415 Analysis Time...: 11:26
 Dilution Factor: 1 Instrument ID...: GC3
 Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	1.00	1.01	% (v/v)	101		ASTM D1946
	1.00	1.01	% (v/v)	101	0.75	ASTM D1946
Methane	0.0500	0.0472	% (v/v)	94		ASTM D1946
	0.0500	0.0474	% (v/v)	95	0.59	ASTM D1946

NOTE(S):

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

Bold print denotes control parameters

**EMCON/OWT, Inc. QA/QC Review
Landfill Gas- 1Q 2004 Discrete LFG Sampling Event
Greater Wenatchee Regional Landfill
STL-LA Report # E4C170382**

Sample: GP-8-1, GP-8-2, GP-8-3, GP-9, GP-11-1, GP-11-2, GP-11-3, GE-11, GE-12, GE-13, GE-14, GE-15, and GE-16 (Summa Canisters)

Reviewed Date: 04/17/2004 (JTD)

Sample Date: 03/11/2004

Sample Received Date: 03/17/2004

Method ASTM D1946 (Fixed gases)

Method Blank	All analytes ND.
LCS	All control % recoveries within QC limits.
LCSD	All RPDs within QC limits.

EPA-2 TO-15 (68 compound list)

Method Blank	All analytes ND.
LCS	All control % recoveries within QC limits.
LCSD	All RPDs within QC limits.

Hold Times

All analytical holding times met.

Data Validation

Upon final review of lab report #E4C170382 for Greater Wenatchee Regional Landfill, EMCON/OWT, Inc. finds the data to be valid for its intended use (04/07/2004 JTD).

APPENDIX E

GEOCHEMICAL PIPER (TRILINEAR) DIAGRAMS

MW-01, MW-02A, MW-04, MW-07, P-07, and COMP01

