P1061

DENR USE ONLY: ☑ Paper Report ☑ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #: RC02312

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Joyce Engineering, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Jeremey J. Kerly Phone: (336) 323-0092

E-mail: jkerly@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Material Recovery, LLC C&D Landfill	2600 Brownfield Road Raleigh, NC 27610	92-31	.0500	December 13, 2006

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify)
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards or explosive methane gas limits were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Hannu Kemppinen — Facility Representative Name (Print)
Sr Proj. Consultant — Title
336 323 0092 — (Area Code) Telephone Number

Hannu Kemppinen — Signature
May 10, 2007 — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1490 GEOLOGIST HANNU M. A. KEMPPINEN

Revised 10/2006

Prepared for:

Material Recovery, LLC
2600 Brownfield Road
Raleigh, NC 27610

JEI Project Number 710, Task 09

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2006 MATERIAL RECOVERY, LLC CONSTRUCTION AND DEMOLITION LANDFILL WAKE COUNTY, NORTH CAROLINA PERMIT NUMBER 92-31

May 2007

Prepared by:

JOYCE ENGINEERING, INC

2211 West Meadowview Road, Suite 101
Greensboro, North Carolina 27407
Phone: (336) 323-0092
Fax: (336) 323-0092

ENGINEERING, INC.

Waste Industry Experts

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www.JoyceEngineering.com

May 10, 2007

Mr. Ethan Brown
Division of Waste Management/Solid Waste Section
1647 Mail Service Center
Raleigh, NC 27699-1646

RE: Second Semiannual Groundwater Monitoring Report of 2006
Material Recovery, LLC, C&D Landfill, Permit Number 92-31
JEI Project No. 710, Task 09

Dear Ethan:

Enclosed is a report of the laboratory analytical results for the water quality monitoring that was conducted in December 2006 at the Material Recovery, LLC, Construction and Demolition Landfill. In accordance with the Groundwater Monitoring Plan, monitoring wells MW-1, -2, -3, -4, and -5 and surface water points SW-1, -2, and -3 were sampled on December 13, 2006. The samples were sent to Environmental Conservation Laboratories, Inc. and analyzed for the NC Appendix I list of volatile organic compounds and the eight RCRA metals. In addition, MW-3 was analyzed for dissolved barium and MW-5 was analyzed for dissolved lead.

A summary of the detected constituents for the site is included as Table 1. There were two organic constituents detected during the December 2006 sampling event. Acetone was detected in SW-1 at an estimated concentration, and trichlorofluoromethane was detected above the laboratory reporting limit in MW-3. Both organic detections are below the Solid Waste Section Limits (SWSLs) and NC 2L Standards for water quality. Four inorganic constituents were detected during the December 2006 sampling event. Barium was detected in all monitoring wells and surface water points at concentrations above the laboratory reporting limits. Cadmium in MW-3 and silver in MW-2 were detected at estimated concentrations. Estimated concentrations of lead were detected in MW-1, MW-3, MW-4, SW-1, and SW-3. Lead was also detected in MW-5 above the laboratory reporting limit. Barium and dissolved barium in MW-3 and lead in MW-5 were detected at concentrations above their respective NC 2L Drinking Water and EPA MCL Standards. Barium in MW-3 and lead in MW-5 have been detected at elevated concentrations since well construction and prior to waste disposal. Previous data suggest that turbidity may be a factor in the relatively high concentrations of total metals, therefore dissolved metals analysis were done for barium and lead. These results have been consistent with previous sampling events.

A summary of groundwater elevations is included as Table 2. The field information forms, a site plan map, and a compact disc containing the laboratory report for this event are also enclosed in this report. The next semiannual monitoring event is scheduled to take place in June 2007. If you have any questions, please feel free to contact me at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING, INC.

Jeremey J. Kerly
Staff Consultant

Attachments – Table 1 – Summary of Detected Constituents
Table 2 – Groundwater Elevation Summary Table
Laboratory Reports and Field Data
Site Map

Cc: Vernon Smith – Material Recovery, LLC
Wilbert Carter – Material Recovery, LLC, C&D Landfill
File

TABLE 1
SUMMARY OF DETECTED CONSTITUENTS
MATERIAL RECOVERY, LLC, C AND D LANDFILL

Parameter [NC 2L Standard], {EPA MCL} in µg/L	Date	CONCENTRATION (µg/L)										
		DL	RL	MW-1	MW-2	MW-3	MW-4	MW-5	SW-1	SW-2	SW-3	Blanks
Arsenic	May-02	—	10	—	—	—	—	—	—	ND	—	ND
[50]	Aug-02	—	10	ND	ND	ND	ND	ND	—	—	ND	ND
{10}	Jun-03	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-03	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	2.0	10.0	3.2 B	3.8 B	9.2 B	3.0 B	4.0 B	2.8 B	3.0 B	2.0 B	3.50 J
Barium (total)	May-02	—	500	—	—	—	—	—	—	ND	—	ND
[2000]	Aug-02	—	500	ND	ND	**4000**	ND	ND	—	—	ND	ND
{2000}	Jun-03	—	500	ND	ND	**3100**	ND	ND	ND	ND	ND	ND
	Dec-03	—	500	160	420	1200	120	120	ND	ND	230	ND
	Jun-04	—	500	ND	540	1500	ND	ND	ND	ND	ND	ND
	Dec-04	—	500	ND	570	**3100**	ND	ND	ND	ND	ND	ND
	Jun-05	—	500	ND	520	**2600**	ND	ND	ND	ND	ND	ND
	Dec-05	—	500	ND	640	**5700**	ND	ND	ND	ND	ND	ND
	Jun-06	—	500	ND	708	**4690**	ND	ND	ND	ND	ND	ND
	Dec-06	0.20	10.0	217	681	**6510**	121	136	98.4	37.8	265	0.40 J
Barium (dissolved)	Dec-03	—	500	—	—	1000	—	—	—	—	—	—
[2000]	Jun-04	—	500	—	—	1400	—	—	—	—	—	—
{2000}	Jun-05	—	500	—	—	**2700**	—	—	—	—	—	—
	Dec-05	—	500	—	—	**5900**	—	—	—	—	—	—
	Jun-06	—	500	—	—	**4990**	—	—	—	—	—	—
	Dec-06	0.20	10.0	—	—	**6860**	—	—	—	—	—	—
Cadmium	May-02	—	1	—	—	—	—	—	—	ND	—	ND
[1.75]	Aug-02	—	1	1.4	1.1	1.8	1.2	1.0	—	—	1.6	ND
{5}	Jun-03	—	1	1.2	1.1	1.7	1.8	3.4	1.0	ND	1.1	ND
	Dec-03	—	1	ND	1.3	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	1	ND	ND	ND	ND	1.1	ND	ND	ND	ND
	Jun-05	—	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	0.50	1.00	ND	ND	0.50 J	ND	ND	ND	ND	ND	ND
Chromium	May-02	—	10	—	—	—	—	—	—	ND	—	ND
[50]	Aug-02	—	10	ND	ND	ND	ND	ND	—	—	ND	ND
{100}	Jun-03	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-03	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	10	ND	ND	ND	ND	15	ND	ND	ND	ND
	Jun-06	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	2.0	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead (total)	May-02	—	10	—	—	—	—	—	—	ND	—	ND
[15]	Aug-02	—	10	ND	ND	ND	ND	**19**	—	—	ND	ND
{15*}	Jun-03	—	10	ND	ND	ND	ND	**21**	ND	ND	ND	ND
	Dec-03	—	10	ND	ND	ND	ND	**34**	ND	ND	ND	ND
	Jun-04	—	10	ND	ND	ND	ND	15	ND	ND	ND	ND
	Dec-04	—	10	ND	ND	ND	ND	**62**	ND	ND	ND	ND
	Jun-05	—	10	ND	ND	ND	ND	**92**	ND	ND	ND	ND
	Dec-05	—	10	ND	ND	ND	ND	**81**	ND	ND	ND	ND
	Jun-06	—	10	ND	ND	ND	ND	**33.4**	ND	ND	ND	ND
	Dec-06	2.0	10.0	2.7 J	ND	4.6 J	2.5 J	**44.0**	2.1 J	ND	3.8 J	ND

TABLE 1
SUMMARY OF DETECTED CONSTITUENTS
MATERIAL RECOVERY, LLC, C AND D LANDFILL

Parameter [NC 2L Standard], {EPA MCL} in µg/L	Date	CONCENTRATION (µg/L)										
		DL	RL	MW-1	MW-2	MW-3	MW-4	MW-5	SW-1	SW-2	SW-3	Blanks
Lead (dissolved)	Dec-03	—	10	—	—	—	—	ND	—	—	—	—
[15]	Jun-04	—	10	—	—	—	—	ND	—	—	—	—
{15*}	Jun-05	—	10	—	—	—	—	ND	—	—	—	—
	Dec-05	—	10	—	—	—	—	ND	—	—	—	—
	Jun-06	—	10	—	—	—	—	ND	—	—	—	—
	Dec-06	2.0	10.0	—	—	—	—	3.5 J	—	—	—	—
Mercury	May-02	—	—	—	—	—	—	—	—	—	—	—
[1.05]	Aug-02	—	0.5	ND	ND	ND	ND	ND	—	—	ND	ND
{2}	Jun-03	—	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-03	—	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	0.11	0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	May-02	—	20	—	—	—	—	—	—	ND	—	ND
[50]	Aug-02	—	20	ND	ND	ND	ND	ND	—	—	ND	ND
{50}	Jun-03	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-03	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	2.0	10.0	4.3 B	2.1 B	ND	5.4 B	ND	2.8 B	4.1 B	3.1 B	4.5 J
Silver	May-02	—	10	—	—	—	—	—	—	ND	—	ND
[17.5]	Aug-02	—	10	ND	ND	ND	ND	ND	—	—	ND	ND
{100}	Jun-03	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-03	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	2.0	10.0	ND	3.1 J	ND	ND	ND	ND	ND	ND	ND
Acetone	May-02	—	100	—	—	—	—	—	—	ND	—	ND
[700]	Jun-03	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
{—}	Dec-03	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	1.2	5.0	ND	ND	ND	ND	ND	1.6 J	ND	ND	ND
Trichlorofluoromethane	May-02	—	5	—	—	—	—	—	—	ND	—	ND
[2100]	Jun-03	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
{—}	Dec-03	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-04	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-04	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-05	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-05	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Jun-06	—	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dec-06	0.20	1.0	ND	ND	3.3	ND	ND	ND	ND	ND	ND

Notes:
1. RL = Laboratory Reporting Limit
2. DL = Laboratory Detection Limit
3. ND = Not detected at or above the reporting limit from May 2002 to June 2006. Not detected above the detection limit December 2006 to present.
4. — = not available
5. 2L Standard = North Carolina's groundwater quality standard established under 15A NCAC 2L, .0202.
6. Shaded values are greater than the 2L Standards.
7. Bolded values are greater than the EPA MCLs.
8. MW = monitoring well
9. SW = surface water
10. B = Blank data represent field blank, trip blank and laboratory blank values.
11. * = EPA Action Level
12. All concentrations are in micrograms per liter (µg/L).
13. J = Estimated concentrations between detection and reporting limits.

TABLE 2
GROUNDWATER ELEVATION SUMMARY TABLE
MATERIAL RECOVERY, LLC, C AND D LANDFILL

	Monitoring Well Water Level Elevations				
Well No.	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
Well TOC Elev. (ft)	**280.95**	**213.37**	**218.54**	**201.52**	**203.38**
Aug-02	252.98	195.37	191.13	186.43	191.82
Jun-03	258.29	197.10	195.09	191.72	193.45
Dec-03	258.17	197.55	195.62	191.88	194.13
Jun-04	257.17	196.89	194.54	191.12	193.43
Dec-04	256.71	196.85	193.93	190.70	193.38
Jun-05	256.73	196.40	193.41	190.13	193.01
Dec-05	254.10	196.16	191.64	189.84	193.38
Jun-06	253.98	196.27	192.07	189.57	193.18
Dec-06	253.11	196.43	191.83	189.44	193.67

Notes:
1. All elevations are referenced to mean sea level.
2. TOC = top of casing
3. Elev. = elevation
4. ft = feet

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Wednesday, December 27, 2006

Joyce Engineering (JO004)
Attn: Jeremey Kerly
Boone Bldg. Suite 101, 2211 W. Meadowview Road
Greensboro, NC 27407

RE: Project Number: 710.09, Project Name/Desc: Material Recovery, LLC
ENCO Workorder: C604714

Dear Jeremey Kerly,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, December 13, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 41.

RECEIVED DEC 29 2006

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9231-MW1 **Lab ID:** C604714-01

Sampled: 12/13/06 14:20 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:01
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 17:41
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 21:19

Client ID: 9231-MW2 **Lab ID:** C604714-02

Sampled: 12/13/06 10:55 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:08
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:16
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 21:44

Client ID: 9231-MW3 **Lab ID:** C604714-03

Sampled: 12/13/06 14:35 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:22
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:19
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 22:10

Client ID: 9231-MW4 MS/MSD **Lab ID:** C604714-04

Sampled: 12/13/06 14:55 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 13:14
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 17:19
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 22:36

Client ID: 9231-MW5 **Lab ID:** C604714-05
Sampled: 12/13/06 15:25 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:36
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:22
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 23:01

Client ID: 9231-SW1 **Lab ID:** C604714-06
Sampled: 12/13/06 15:50 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:43
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:24
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 23:27

Client ID: 9231-SW2 **Lab ID:** C604714-07
Sampled: 12/13/06 15:15 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:50
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:26
EPA 8260B	12/27/06	12/19/06 07:48	12/19/2006 23:52

Client ID: 9231-SW3 **Lab ID:** C604714-08
Sampled: 12/13/06 11:10 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 14:57
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:29
EPA 8260B	12/27/06	12/19/06 07:48	12/20/2006 00:18

Client ID: 9231-Field Blank **Lab ID:** C604714-09
Sampled: 12/13/06 00:00 **Received:** 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/11/07	12/19/06 14:02	12/21/2006 15:04
EPA 7470A	01/10/07	12/15/06 09:31	12/15/2006 18:31
EPA 8260B	12/27/06	12/19/06 07:48	12/20/2006 00:44

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Client ID: 9231-Trip Blank

Lab ID: C604714-10

Sampled: 12/13/06 00:00

Received: 12/13/06 17:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/27/06	12/19/06 07:48	12/20/2006 01:09

SAMPLE DETECTION SUMMARY

Client ID: 9231-MW1	Lab ID: C604714-01	NC SWS		
Analyte	Results/Qual	RL	Units	Method
Arsenic	3.2 J	10	ug/L	EPA 6010B
Barium	217	100	ug/L	EPA 6010B
Lead	2.7 J	10	ug/L	EPA 6010B
Selenium	4.3 J	10	ug/L	EPA 6010B

Client ID: 9231-MW2	Lab ID: C604714-02	NC SWS		
Analyte	Results/Qual	RL	Units	Method
Arsenic	3.8 J	10	ug/L	EPA 6010B
Barium	681	100	ug/L	EPA 6010B
Selenium	2.1 J	10	ug/L	EPA 6010B
Silver	3.1 J	10	ug/L	EPA 6010B

Client ID: 9231-MW3	Lab ID: C604714-03	NC SWS		
Analyte	Results/Qual	RL	Units	Method
Arsenic	9.2 J	10	ug/L	EPA 6010B
Barium	6510	100	ug/L	EPA 6010B
Barium	6860	100	ug/L	EPA 6010B
Cadmium	0.50 J	1	ug/L	EPA 6010B
Lead	4.6 J	10	ug/L	EPA 6010B
Trichlorofluoromethane	3.3	5	ug/L	EPA 8260B

Client ID: 9231-MW4 MS/MSD	Lab ID: C604714-04	NC SWS		
Analyte	Results/Qual	RL	Units	Method
Arsenic	3.0 J	10	ug/L	EPA 6010B
Barium	121	100	ug/L	EPA 6010B
Lead	2.5 J	10	ug/L	EPA 6010B
Selenium	5.4 J	10	ug/L	EPA 6010B

Client ID: 9231-MW5	Lab ID: C604714-05	NC SWS		
Analyte	Results/Qual	RL	Units	Method
Arsenic	4.0 J	10	ug/L	EPA 6010B
Barium	136	100	ug/L	EPA 6010B
Lead	3.5 J	10	ug/L	EPA 6010B
Lead	44.0	10	ug/L	EPA 6010B

Client ID: 9231-SW1	Lab ID: C604714-06	NC SWS		
Analyte	Results/Qual	RL	Units	Method
Acetone	1.6 J	100	ug/L	EPA 8260B
Arsenic	2.8 J	10	ug/L	EPA 6010B
Barium	98.4	100	ug/L	EPA 6010B
Lead	2.1 J	10	ug/L	EPA 6010B
Selenium	2.8 J	10	ug/L	EPA 6010B

Client ID: 9231-SW2	Lab ID: C604714-07	NC SWS		
Analyte	Results/Qual	RL	Units	Method

Arsenic	3.0 J	10	ug/L	EPA 6010B
Barium	37.8	100	ug/L	EPA 6010B
Selenium	4.1 J	10	ug/L	EPA 6010B

Client ID: 9231-SW3 **Lab ID: C604714-08**

Analyte	Results/Qual	NC SWS RL	Units	Method
Arsenic	2.0 J	10	ug/L	EPA 6010B
Barium	265	100	ug/L	EPA 6010B
Lead	3.8 J	10	ug/L	EPA 6010B
Selenium	3.1 J	10	ug/L	EPA 6010B

Client ID: 9231-Field Blank **Lab ID: C604714-09**

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.40 J	100	ug/L	EPA 6010B
Selenium	4.5 J	10	ug/L	EPA 6010B

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ANALYTICAL REPORT

Sample ID:	9231-MW1	Project:	Material Recovery, LLC
Lab #:	C604714-01	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-MW1	Project:	Material Recovery, LLC
Lab #:	C604714-01	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	47	50.0	94 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	84 %	73-138
Toluene-d8	2037-26-5	50	50.0	100 %	77-118

ANALYTICAL REPORT

Sample ID: 9231-MW1
Lab #: C604714-01

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**3.2** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**217**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	**2.7** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**4.3** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-MW2	Project:	Material Recovery, LLC
Lab #:	C604714-02	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

ANALYTICAL REPORT

Sample ID:	9231-MW2	Project:	Material Recovery, LLC
Lab #:	C604714-02	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	49	50.0	97 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	84 %	73-138
Toluene-d8	2037-26-5	53	50.0	107 %	77-118

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ANALYTICAL REPORT

Sample ID: 9231-MW2
Lab #: C604714-02

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**3.8** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**681**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**2.1** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	**3.1** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-MW3	Project:	Material Recovery, LLC
Lab #:	C604714-03	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-MW3	Project:	Material Recovery, LLC
Lab #:	C604714-03	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	**3.3**	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	53	50.0	106 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	88 %	73-138
Toluene-d8	2037-26-5	51	50.0	101 %	77-118

ANALYTICAL REPORT

Sample ID: 9231-MW3
Lab #: C604714-03

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**9.2** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**6510**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	**0.50** J	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	**4.6** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID: 9231-MW3
Lab #: C604714-03

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals (Dissolved) by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Barium	7440-39-3	**6860**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020

ANALYTICAL REPORT

Sample ID:	9231-MW4 MS/MSD	Project:	Material Recovery, LLC
Lab #:	C604714-04	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-MW4 MS/MSD	Project:	Material Recovery, LLC
Lab #:	C604714-04	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	51	50.0	102 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	84 %	73-138
Toluene-d8	2037-26-5	53	50.0	106 %	77-118

ANALYTICAL REPORT

Sample ID: 9231-MW4 MS/MSD
Lab #: C604714-04

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**3.0** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**121**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	**2.5** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**5.4** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-MW5	Project:	Material Recovery, LLC
Lab #:	C604714-05	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-MW5	Project:	Material Recovery, LLC
Lab #:	C604714-05	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	50	50.0	101 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	85 %	73-138
Toluene-d8	2037-26-5	52	50.0	104 %	77-118

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ANALYTICAL REPORT

Sample ID: 9231-MW5
Lab #: C604714-05

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**4.0** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**136**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	**44.0**	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-MW5	Project:	Material Recovery, LLC
Lab #:	C604714-05	Work Order #:	C604714
		Matrix:	Ground Water

Metals (Dissolved) by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Lead	7439-92-1	**3.5** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-SW1	Project:	Material Recovery, LLC
Lab #:	C604714-06	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	**1.6 J**	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

ANALYTICAL REPORT

Sample ID:	9231-SW1	Project:	Material Recovery, LLC
Lab #:	C604714-06	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	53	50.0	106 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	52	50.0	104 %	77-118

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ANALYTICAL REPORT

Sample ID: 9231-SW1
Lab #: C604714-06

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.8** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**98.4**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	**2.1** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**2.8** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-SW2	Project:	Material Recovery, LLC
Lab #:	C604714-07	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-SW2	Project:	Material Recovery, LLC
Lab #:	C604714-07	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	52	50.0	104 %	70-130
Dibromofluoromethane	1868-53-7	45	50.0	90 %	73-138
Toluene-d8	2037-26-5	53	50.0	106 %	77-118

ANALYTICAL REPORT

Sample ID: 9231-SW2
Lab #: C604714-07

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**3.0** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**37.8**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**4.1** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-SW3	Project:	Material Recovery, LLC
Lab #:	C604714-08	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/20/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

ANALYTICAL REPORT

Sample ID:	9231-SW3	Project:	Material Recovery, LLC
Lab #:	C604714-08	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/20/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	56	50.0	112 %	70-130
Dibromofluoromethane	1868-53-7	45	50.0	91 %	73-138
Toluene-d8	2037-26-5	56	50.0	111 %	77-118

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ANALYTICAL REPORT

Sample ID: 9231-SW3
Lab #: C604714-08

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.0** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**265**	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	**3.8** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**3.1** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-Field Blank	Project:	Material Recovery, LLC
Lab #:	C604714-09	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/20/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-Field Blank	Project:	Material Recovery, LLC
Lab #:	C604714-09	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/20/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	51	50.0	103 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	89 %	73-138
Toluene-d8	2037-26-5	52	50.0	104 %	77-118

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ANALYTICAL REPORT

Sample ID: 9231-Field Blank
Lab #: C604714-09

Project: Material Recovery, LLC
Work Order #: C604714
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**0.40** J	0.20	10.0	100	ug/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.50 U	0.50	1.00	1	ug/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Mercury	7439-97-6	0.11 U	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	6L15007
Selenium	7782-49-2	**4.5** J	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	2.0 U	2.0	10.0	10	ug/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	9231-Trip Blank	Project:	Material Recovery, LLC
Lab #:	C604714-10	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/20/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.20 U	0.20	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.30 U	0.30	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.40 U	0.40	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.40 U	0.40	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.50 U	0.50	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.60 U	0.60	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	0.40 U	0.40	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	0.30 U	0.30	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.40 U	0.40	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	0.20 U	0.20	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	0.30 U	0.30	1.0	3	ug/L
2-Butanone	78-93-3	0.80 U	0.80	5.0	100	ug/L
2-Hexanone	591-78-6	0.50 U	0.50	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.80 U	0.80	5.0	100	ug/L
Acetone	67-64-1	1.2 U	1.2	5.0	100	ug/L
Acrylonitrile	107-13-1	1.7 U	1.7	5.0	200	ug/L
Benzene	71-43-2	0.20 U	0.20	1.0	3	ug/L
Bromochloromethane	74-97-5	0.50 U	0.50	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40		ug/L
Bromoform	75-25-2	0.30 U	0.30	1.0	3	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	10	ug/L
Carbon disulfide	75-15-0	0.30 U	0.30	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.20 U	0.20	1.0	5.5	ug/L
Chlorobenzene	108-90-7	0.30 U	0.30	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.40 U	0.40	1.0	5	ug/L
Chloromethane	74-87-3	0.20 U	0.20	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromochloromethane	124-48-1	0.30 U	0.30	1.0	3	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	10	ug/L
Ethylbenzene	100-41-4	0.10 U	0.10	1.0	5	ug/L
Iodomethane	74-88-4	0.80 U	0.80	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	NE	ug/L
Methylene chloride	75-09-2	0.40 U	0.40	2.0		ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	NE	ug/L
Styrene	100-42-5	0.10 U	0.10	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	9231-Trip Blank	Project:	Material Recovery, LLC
Lab #:	C604714-10	Work Order #:	C604714
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/20/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L19002		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWS RL	Units
Tetrachloroethene	127-18-4	0.90 U	0.90	1.0	3	ug/L
Toluene	108-88-3	0.20 U	0.20	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	0.40 U	0.40	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.50 U	0.50	1.0	100	ug/L
Trichloroethene	79-01-6	0.40 U	0.40	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	0.20 U	0.20	1.0	5	ug/L
Vinyl acetate	108-05-4	1.0 U	1.0	2.0	50	ug/L
Vinyl chloride	75-01-4	0.30 U	0.30	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	51	50.0	102 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	88 %	73-138
Toluene-d8	2037-26-5	55	50.0	111 %	77-118

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes

Volatile Organic Compounds by GCMS - Quality Control

Batch 6L19002 - EPA 5030B_MS

Blank (6L19002-BLK1) Prepared: 12/19/2006 07:48 Analyzed: 12/19/2006 20:53

Acetone	1.2 U	5.0	ug/L
Acrylonitrile	1.7 U	5.0	ug/L
Benzene	0.20 U	1.0	ug/L
2-Butanone	0.80 U	5.0	ug/L
2-Hexanone	0.50 U	5.0	ug/L
Iodomethane	0.80 U	2.0	ug/L
Tetrachloroethene	0.90 U	1.0	ug/L
4-Methyl-2-pentanone	0.80 U	5.0	ug/L
Bromochloromethane	0.50 U	1.0	ug/L
Trichloroethene	0.40 U	1.0	ug/L
Bromodichloromethane	0.20 U	0.40	ug/L
Bromoform	0.30 U	1.0	ug/L
Bromomethane	0.60 U	1.0	ug/L
Carbon disulfide	0.30 U	5.0	ug/L
Carbon tetrachloride	0.20 U	1.0	ug/L
Chlorobenzene	0.30 U	1.0	ug/L
Chloroethane	0.40 U	1.0	ug/L
Chloroform	0.40 U	1.0	ug/L
Chloromethane	0.20 U	1.0	ug/L
Dibromochloromethane	0.30 U	1.0	ug/L
1,2-Dibromo-3-chloropropane	0.60 U	1.0	ug/L
1,2-Dibromoethane	0.40 U	1.0	ug/L
Dibromomethane	0.30 U	1.0	ug/L
1,2-Dichlorobenzene	0.30 U	1.0	ug/L
1,4-Dichlorobenzene	0.30 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	0.50 U	1.0	ug/L
1,1-Dichloroethane	0.40 U	1.0	ug/L
1,2-Dichloroethane	0.40 U	1.0	ug/L
1,1-Dichloroethene	0.40 U	1.0	ug/L
cis-1,2-Dichloroethene	0.20 U	1.0	ug/L
trans-1,2-Dichloroethene	0.40 U	1.0	ug/L
1,2-Dichloropropane	0.20 U	1.0	ug/L
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
Ethylbenzene	0.10 U	1.0	ug/L
Methylene chloride	0.40 U	2.0	ug/L
Styrene	0.10 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.20 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.30 U	1.0	ug/L
Toluene	0.20 U	1.0	ug/L
1,1,1-Trichloroethane	0.20 U	1.0	ug/L
1,1,2-Trichloroethane	0.40 U	1.0	ug/L
Trichlorofluoromethane	0.20 U	1.0	ug/L
1,2,3-Trichloropropane	0.50 U	1.0	ug/L
Vinyl acetate	1.0 U	2.0	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L19002 - EPA 5030B_MS										
Blank (6L19002-BLK1) Continued				Prepared: 12/19/2006 07:48 Analyzed: 12/19/2006 20:53						
Vinyl chloride	0.30 U	1.0	ug/L							
m,p-Xylenes	0.30 U	2.0	ug/L							
o-Xylene	0.20 U	1.0	ug/L							
LCS (6L19002-BS1)				Prepared: 12/19/2006 07:48 Analyzed: 12/20/2006 05:50						
Benzene	13	1.0	ug/L	15.0		90	69-115			
Trichloroethene	13	1.0	ug/L	15.0		89	74-118			
Chlorobenzene	13	1.0	ug/L	15.0		87	76-118			
1,1-Dichloroethene	14	1.0	ug/L	15.0		90	64-139			
Toluene	12	1.0	ug/L	15.0		83	77-117			
Matrix Spike (6L19002-MS1)		**Source: C604714-04**		Prepared: 12/19/2006 07:48 Analyzed: 12/20/2006 06:16						
Benzene	19	1.0	ug/L	20.0	0.20 U	93	53-150			
Trichloroethene	20	1.0	ug/L	20.0	0.40 U	99	64-124			
Chlorobenzene	19	1.0	ug/L	20.0	0.30 U	93	44-128			
1,1-Dichloroethene	19	1.0	ug/L	20.0	0.40 U	97	36-177			
Toluene	19	1.0	ug/L	20.0	0.20 U	94	40-161			
Matrix Spike Dup (6L19002-MSD1)		**Source: C604714-04**		Prepared: 12/19/2006 07:48 Analyzed: 12/20/2006 06:41						
Benzene	20	1.0	ug/L	20.0	0.20 U	99	53-150	6	23	
Trichloroethene	19	1.0	ug/L	20.0	0.40 U	96	64-124	3	25	
Chlorobenzene	19	1.0	ug/L	20.0	0.30 U	96	44-128	3	22	
1,1-Dichloroethene	19	1.0	ug/L	20.0	0.40 U	95	36-177	2	30	
Toluene	19	1.0	ug/L	20.0	0.20 U	94	40-161	0.7	23	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L15007 - EPA 7470A										
Blank (6L15007-BLK1)				Prepared: 12/15/2006 09:31 Analyzed: 12/15/2006 17:15						
Mercury	0.11 U	0.20	ug/L							
LCS (6L15007-BS1)				Prepared: 12/15/2006 09:31 Analyzed: 12/15/2006 17:17						
Mercury	4.89	0.20	ug/L	5.00		98	87-123			
Matrix Spike (6L15007-MS1)		**Source: C604714-04**		Prepared: 12/15/2006 09:31 Analyzed: 12/15/2006 17:21						
Mercury	5.52	0.20	ug/L	5.00	0.11 U	110	63-132			
Matrix Spike Dup (6L15007-MSD1)		**Source: C604714-04**		Prepared: 12/15/2006 09:31 Analyzed: 12/15/2006 17:24						
Mercury	5.05	0.20	ug/L	5.00	0.11 U	101	63-132	9	10	
Post Spike (6L15007-PS1)		**Source: C604714-04**		Prepared: 12/15/2006 09:31 Analyzed: 12/15/2006 18:36						
Mercury	4.27 D	0.20	ug/L	5.00	0.00520	85	85-115			D
Batch 6L19020 - EPA 3005A										
Blank (6L19020-BLK1)				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 12:58						
Arsenic	3.50 J	10.0	ug/L							
Barium	0.200 J	10.0	ug/L							
Cadmium	0.50 U	1.00	ug/L							
Chromium	2.0 U	10.0	ug/L							
Lead	2.0 U	10.0	ug/L							
Selenium	2.90 J	10.0	ug/L							
Silver	2.0 U	10.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L19020 - EPA 3005A										
LCS (6L19020-BS1)				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:05						
Arsenic	1100	10.0	ug/L	1000		110	82-117			
Barium	1060	10.0	ug/L	1000		106	72-125			
Cadmium	555	1.00	ug/L	500		111	72-120			
Chromium	1080	10.0	ug/L	1000		108	78-119			
Lead	1120	10.0	ug/L	1000		112	72-121			
Selenium	1110	10.0	ug/L	1000		111	82-127			
Silver	107	10.0	ug/L	100		107	80-128			
Matrix Spike (6L19020-MS1)		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:21						
Arsenic	1090	10.0	ug/L	1000	3.00	109	64-126			
Barium	1180	10.0	ug/L	1000	121	106	74-119			
Cadmium	556	1.00	ug/L	500	0.50 U	111	68-121			
Chromium	1090	10.0	ug/L	1000	2.0 U	109	73-120			
Lead	1120	10.0	ug/L	1000	2.50	112	68-126			
Selenium	1100	10.0	ug/L	1000	5.40	110	65-129			
Silver	108	10.0	ug/L	100	2.0 U	108	69-121			
Matrix Spike Dup (6L19020-MSD1)		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:28						
Arsenic	1080	10.0	ug/L	1000	3.00	108	64-126	0.8	12	
Barium	1180	10.0	ug/L	1000	121	106	74-119	0.08	11	
Cadmium	551	1.00	ug/L	500	0.50 U	110	68-121	1	12	
Chromium	1070	10.0	ug/L	1000	2.0 U	107	73-120	1	10	
Lead	1090	10.0	ug/L	1000	2.50	109	68-126	2	19	
Selenium	1100	10.0	ug/L	1000	5.40	109	65-129	0.9	10	
Silver	106	10.0	ug/L	100	2.0 U	106	69-121	2	12	
Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L19020 - EPA 3005A										
Blank (6L19020-BLK1)				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 12:58						
Barium	0.200 J	10.0	ug/L							
Lead	2.0 U	10.0	ug/L							
LCS (6L19020-BS1)				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:05						
Barium	1060	10.0	ug/L	1000		106	72-125			
Lead	1120	10.0	ug/L	1000		112	72-121			
Matrix Spike (6L19020-MS1)		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:21						
Barium	1180	10.0	ug/L	1000	121	106	74-119			
Lead	1120	10.0	ug/L	1000	2.50	112	68-126			
Matrix Spike Dup (6L19020-MSD1)		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:28						
Barium	1180	10.0	ug/L	1000	121	106	74-119	0.08	11	
Lead	1090	10.0	ug/L	1000	2.50	109	68-126	2	19	

NOTES AND DEFINITIONS

D	Data reported from a dilution
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Appendix 1	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Dissolved EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Lead Dissolved EPA 6010B	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Mercury Total EPA 7470A	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Joyce Engineering (JO004)	Project Number: 710.09
Address: Boone Bldg. Suite 101, 2211 W. Meadowview Road	Project Name/Desc: ~~WCA of NC, LLC~~ 902, Material Recovery, LLC
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 323-0092 / Fax: (336) 323-0093	Reporting Contact: Jeremey Kerly
Sampler(s) Name, Affiliation (Print): DAN GIRDNER / ERIC FELTON - JEI	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C604714

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Cd,Cr,Hg,Pb,Se	Ba/F	Pb/F							Sample Comments
	9231-MW1	12-13-06	14:20	G	Water	4	X	X									NC Appendix I VOCs + RCRA Metals
	9231-MW2	"	10:55	G	Water	4	X	X									↓
	9231-MW3		14:35	G	Water	5	X	X	X								NC Appendix I VOCs + RCRA metals + Dissolved Barium
	9231-MW4 MS/MSD		14:55	G	Water	7	X	X									NC Appendix I VOCs + RCRA metals
	9231-MW5		15:25	G	Water	5	X	X		X							NC Appendix I VOCs + RCRA metals + Dissolved Lead
	9231-SW1		15:50	G	Water	4	X	X									NC Appendix I VOCs + RCRA metals
	9231-SW2		15:15	G	Water	4	X	X									↓
	9231-SW3		11:10	G	Water	4	X	X									
	9231-Field Blank	↓		G	Water	4	X	X									↓
	9231-Trip Blank	—	—	—	Water	3	X										NC Appendix I VOCs

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 12/7/02 945	Relinquished By: [signature]	Date/Time: 12-13-06/17:30	Received By: [signature]	Date/Time: 12/12/06 17:20
Comments: * Chain covers 1 cooler. DISSOLVED WAS FIELD FILTERED		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.8°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

DATE: 12-13-2006

JOYCE ENGINEERING, INC

GROUND WATER SAMPLING LOG

Project Name: Material Recovery, LLC **Project No./Task No.:** 710.09

Well ID: MW-1 **Sampler(s):** D. GARDNER/E. FELTON

Well Location: On left side of Brownfield Rd between 2 gates.

Well Diameter: 2 inches

Initial Depth to Water (DTW): 27.84 feet

Depth to Bottom (DTB): 52.75 feet

Water Column Thickness (WCT): 24.91 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 4.06 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 12.19 gallons

Actual Amount Purged/Bailed : 12.19 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 27.84 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	09:56	16.8	5.34	114.6	5.50	DG
4.06	10:03	16.6	5.06	97.5	>1000	DG
8.12	10:12	16.7	4.81	96.4	>1000	DG
12.93	10:18	16.8	4.81	94.8	>1000	DG
Before Sampling	14:20	17.5	5.19	99.7	21.6	DG

Comments (weather conditions, odor, color, silt, etc.):
12/13/06 CLOUDY, OCCASSIONAL RAIN, 50s

Signature: Daniel Gardner **Date:** 12/13/06

QA/QC Sign Off: [illegible] **Date:** 1-2-07

GROUNDWATER MONITORING WELL MAINTENANCE RECORD

FACILITY: Material Recovery, LLC PERMIT NO. 92-31

LOCATION: MW-1 DATE: 12-13-2006

INSPECTOR: DAN GIRONER COMPANY: Joyce Engineering, Inc.

1. Is surface water diverted away from the well head? Yes
2. Is the concrete pad still intact and free of cracks? covered by soil + grass
3. Has surface water runoff undercut the concrete pad? N
4. Is the outer casing still secure and locked? Y
5. Is the well identification tag present and is it legible? Y

   5a. Does the well identification tag provide the following information:

   - The well identification number? MW-1
   - Drilling contractor name and registration number? Yes, 1175
   - Total depth of well? Yes
   - Depth to screen? Yes
   - A warning that the well is not for water supply and that the ground water may contain hazardous materials? Yes

6. Is the grout between the inner and outer well casings all the way to the ground surface? Yes
7. Is the inner casing firmly grouted in place? Yes
8. Are the inner and outer casings upright and unobstructed? Yes
9. Is water collecting in the outer casing? Does a weep hole need to be bored in the outer casing to provide drainage? No - No
10. Is the monitoring well accessible by a four-wheel drive vehicle? Yes
11. Have brush and weeds been trimmed so that the well is easy to locate and access? Yes
12. Does the inner well casing have a vented cap? YES
13. Is the monitoring well visible and adequately protected from moving equipment? YES

    maybe needs new flagging

DATE: 12/13/06

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Material Recovery, LLC **Project No./Task No.:** 710.09

Well ID: MW-2 **Sampler(s):** E. Felton / D. Girdner

Well Location: Northeast side of landfill in low area.

Well Diameter: 2 inches

Initial Depth to Water (DTW): 16.94 feet

Depth to Bottom (DTB): 35.00 feet

Water Column Thickness (WCT): 18.06 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.94 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 8.82 gallons

Actual Amount Purged/Bailed : 8.82 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 16.94 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:38	16.6	5.04	475	1.26	EMF
2.94	10:45	16.6	4.90	491	23.4	"
5.88	10:50	16.3	4.88	488	21.3	"
8.82	10:55	16.1	4.92	485	10.5	"
12/13/06						
Before Sampling	10:55	16.1	4.92	485	10.5	EMF

Comments (weather conditions, odor, color, silt, etc.):

12/13/06 Cloudy 40°

Signature: E. M. F. **Date:** 12/13/06

QA/QC Sign Off: [illegible] **Date:** 1-2-06

GROUNDWATER MONITORING WELL MAINTENANCE RECORD

FACILITY: Material Recovery, LLC PERMIT NO. 92-31

LOCATION: MW-2 DATE: 12/13/06

INSPECTOR: E. Felton COMPANY: Sexe Engineering, Inc.

1. Is surface water diverted away from the well head? Y
2. Is the concrete pad still intact and free of cracks? Y
3. Has surface water runoff undercut the concrete pad? Y
4. Is the outer casing still secure and locked? Y
5. Is the well identification tag present and is it legible? Y

   5a. Does the well identification tag provide the following information:

   - The well identification number? MW-2, Y
   - Drilling contractor name and registration number? 2865, Y
   - Total depth of well? 35.00 Ft, Y
   - Depth to screen? 19.5 to 34.5, Y
   - A warning that the well is not for water supply and that the ground water may contain hazardous materials? Y

6. Is the grout between the inner and outer well casings all the way to the ground surface? Y
7. Is the inner casing firmly grouted in place? Y
8. Are the inner and outer casings upright and unobstructed? Y
9. Is water collecting in the outer casing? Does a weep hole need to be bored in the outer casing to provide drainage? N, N
10. Is the monitoring well accessible by a four-wheel drive vehicle? Y
11. Have brush and weeds been trimmed so that the well is easy to locate and access? N
12. Does the inner well casing have a vented cap? Y
13. Is the monitoring well visible and adequately protected from moving equipment? N

DATE: 12-13-06

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Material Recovery, LLC **Project No./Task No.:** 710.09

Well ID: MW-3 **Sampler(s):** D. GIRDNER / E. FELTON

Well Location: Northeast side of landfill past MW-3

Well Diameter: 2 inches

Initial Depth to Water (DTW): 26.71 feet

Depth to Bottom (DTB): 34.50 feet

Water Column Thickness (WCT): 7.79 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.27 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 3.81 gallons

Actual Amount Purged/Bailed : 4.00 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 26.72 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:20	15.6	4.30	~~4.30~~ 1050	16.3	DZ
1.27	11:22	15.6	4.18	1324	145	DZ
2.54	11:24	15.7	4.18	1281	107	DZ
3.81	11:28	15.7	4.20	1225	224	DZ
Before Sampling	14:35	16.2	4.14	1208	16.8	DZ

Comments (weather conditions, odor, color, silt, etc.):

12/13/06 CLOUDY, 60's

Signature: Daniel Girdner **Date:** 12-13-06

QA/QC Sign Off: [illegible] **Date:** 1-2-07

GROUNDWATER MONITORING WELL MAINTENANCE RECORD

FACILITY: Material Recovery, LLC PERMIT NO. 92-31

LOCATION: MW-3 DATE: 12-13-2006

INSPECTOR: DAN GIRDNER COMPANY: Joyce Engineering, Inc.

1. Is surface water diverted away from the well head? YES
2. Is the concrete pad still intact and free of cracks? YES
3. Has surface water runoff undercut the concrete pad? NO
4. Is the outer casing still secure and locked? YES
5. Is the well identification tag present and is it legible? YES

   5a. Does the well identification tag provide the following information:

   - The well identification number? Y MW-3
   - Drilling contractor name and registration number? Reg.# only: 2865
   - Total depth of well? Y 34.5'
   - Depth to screen? Y 19'
   - A warning that the well is not for water supply and that the ground water may contain hazardous materials? YES

6. Is the grout between the inner and outer well casings all the way to the ground surface? Yes
7. Is the inner casing firmly grouted in place? YES
8. Are the inner and outer casings upright and unobstructed? YES
9. Is water collecting in the outer casing? Does a weep hole need to be bored in the outer casing to provide drainage? NO
10. Is the monitoring well accessible by a four-wheel drive vehicle? YES
11. Have brush and weeds been trimmed so that the well is easy to locate and access? YES
12. Does the inner well casing have a vented cap? YES
13. Is the monitoring well visible and adequately protected from moving equipment? YES

DATE: 12/13/06

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Material Recovery, LLC **Project No./Task No.:** 710.09

Well ID: MW-4 **Sampler(s):** D. Gardner / E. Felton

Well Location: Backside of landfill near sed. pond.

Well Diameter: 2 inches

Initial Depth to Water (DTW): 12.08 feet

Depth to Bottom (DTB): 27.00 feet

Water Column Thickness (WCT): 14.92 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.43 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 7.29 gallons

Actual Amount Purged/Bailed : 7.29 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 12.08 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:42	16.4	5.13	132.9	4.66	EMF
2.43	11:46	17.2	5.19	141.9	460	"
4.82	11:50	17.2	5.17	145.0	566	"
7.29	11:53	16.9	5.16	169.8	469	"
12-13-06						
Before Sampling	14:55	17.4	5.15	143.8	28.7	EMF

Comments (weather conditions, odor, color, silt, etc.):

12/13/06 Overcast 40°

12/13/06 Sunny 40°

Signature: E. M. **Date:** 12/13/06

QA/QC Sign Off: [illegible] **Date:** 1-2-07

GROUNDWATER MONITORING WELL MAINTENANCE RECORD

FACILITY: Material Recovery, LLC PERMIT NO. 92-31

LOCATION: MW-4 DATE: 12/13/06

INSPECTOR: E. Felton COMPANY: Joyce Engineering, Inc.

1. Is surface water diverted away from the well head? Yes
2. Is the concrete pad still intact and free of cracks? Yes
3. Has surface water runoff undercut the concrete pad? No
4. Is the outer casing still secure and locked? Yes
5. Is the well identification tag present and is it legible? Yes

   5a. Does the well identification tag provide the following information:

   - The well identification number? MW-4, yes
   - Drilling contractor name and registration number? 2865, yes
   - Total depth of well? 27.00 Ft, yes
   - Depth to screen? 11.5 to 26.5, yes
   - A warning that the well is not for water supply and that the ground water may contain hazardous materials? yes

6. Is the grout between the inner and outer well casings all the way to the ground surface? Yes
7. Is the inner casing firmly grouted in place? Yes
8. Are the inner and outer casings upright and unobstructed? Yes
9. Is water collecting in the outer casing? Does a weep hole need to be bored in the outer casing to provide drainage? No, No
10. Is the monitoring well accessible by a four-wheel drive vehicle? Yes
11. Have brush and weeds been trimmed so that the well is easy to locate and access? No
12. Does the inner well casing have a vented cap? Yes
13. Is the monitoring well visible and adequately protected from moving equipment? Yes

DATE: 12-13-2006

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Material Recovery, LLC **Project No./Task No.:** 710.09

Well ID: MW-5 **Sampler(s):** D. GIRDNER / E. FELTON

Well Location: Back corner of landfill past sed. pond.

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.71 feet

Depth to Bottom (DTB): 24.00 feet

Water Column Thickness (WCT): 14.29 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.33 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 6.99 gallons

Actual Amount Purged/Bailed : 6.99 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 9.72 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	12:04	15.2	5.61	81.8	262	DZ
2.33	12:07	15.4	5.74	80.3	616	DZ
4.66	12:09	15.3	5.77	81.2	>1000	DZ
6.99	12:12	15.3	5.78	81.3	>1000	DZ
12/13/06	15:25					
Before Sampling	[illegible]	15.1	5.71	88.5	992	DZ

Comments (weather conditions, odor, color, silt, etc.): 1ST BAIL red, turbid

12/13/06 CLOUDY, 60's

12/13/06 Sunny 60°s

turbid sample

Filtered Dissolved metals

Signature: Daniel Gardner **Date:** 12-13-06

QA/QC Sign Off: [illegible] **Date:** 1-2-07

GROUNDWATER MONITORING WELL MAINTENANCE RECORD

FACILITY: Material Recovery, LLC PERMIT NO. 92-31

LOCATION: MW-5 DATE: 12-13-2006

INSPECTOR: DAN GARDNER COMPANY: Joyce Engineering, Inc.

1. Is surface water diverted away from the well head? Yes
2. Is the concrete pad still intact and free of cracks? Yes
3. Has surface water runoff undercut the concrete pad? No
4. Is the outer casing still secure and locked? YES
5. Is the well identification tag present and is it legible? YES

   5a. Does the well identification tag provide the following information:

   - The well identification number? Yes MW-5
   - Drilling contractor name and registration number? Reg# 2865 only
   - Total depth of well? Yes 24'
   - Depth to screen? Yes 8.5'
   - A warning that the well is not for water supply and that the ground water may contain hazardous materials? Yes

6. Is the grout between the inner and outer well casings all the way to the ground surface? Yes
7. Is the inner casing firmly grouted in place? Yes
8. Are the inner and outer casings upright and unobstructed? Yes
9. Is water collecting in the outer casing? Does a weep hole need to be bored in the outer casing to provide drainage? No - No
10. Is the monitoring well accessible by a four-wheel drive vehicle? No (slope)
11. Have brush and weeds been trimmed so that the well is easy to locate and access? Yes
12. Does the inner well casing have a vented cap? Yes
13. Is the monitoring well visible and adequately protected from moving equipment? Yes

DATE: 12-13-06

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: Material Recovery, LLC **Project/Task No.:** 710.09

Surface Point ID: SW-1 **Sampler(s):** D. GIRDNER / E. FELTON

Location: Upstream of P-1S & P-1D northwest property boundary.

Field Parameters:

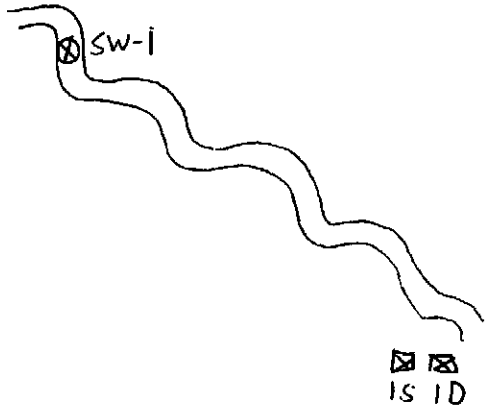
Time of Sampling:	15:50	
pH:	6.10	
Temperature :	12.8	(°C)
Conductivity :	183	(µS)
Turbidity :	4.24	(ntu)

Comments/Sample Description(weather conditions, odor, color, silt, etc.):

12-13-06 MOSTLY CLOUDY, MID-60s

→ FIELDBLANK @ 16:00

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: Daniel Girdner **Date:** 12/13/06

QA/QC Sign Off: [illegible] **Date:** 1-2-07

DATE: 12-13-06

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: Material Recovery, LLC **Project/Task No.:** 710.09

Surface Point ID: SW-2 **Sampler(s):** D. GIRDNER / E. FELTON

Location: Between MW-3 & MW-4 in woods.

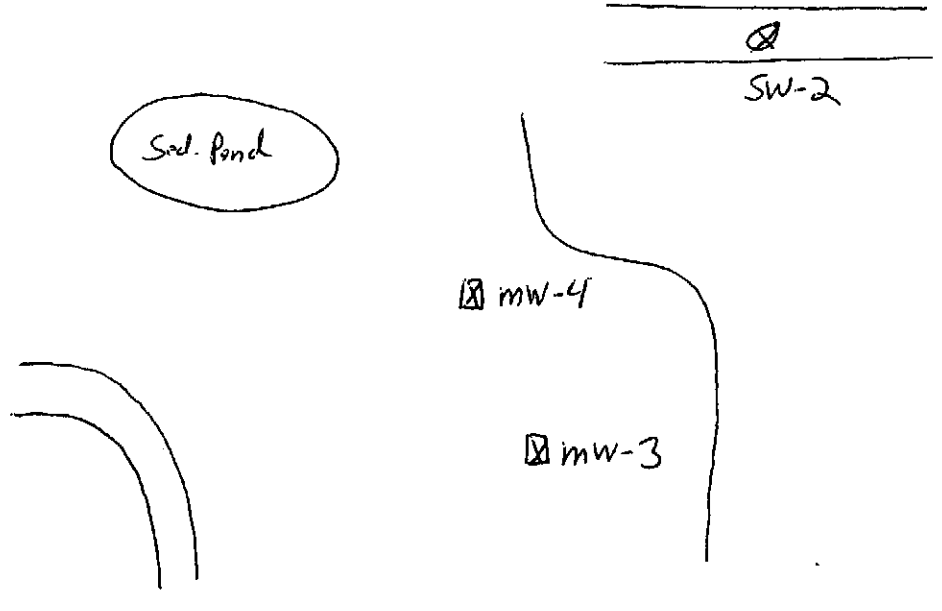
Field Parameters:

Time of Sampling:	15:15	
pH:	6.09	
Temperature :	10.6	(°C)
Conductivity :	113.2	(µS)
Turbidity :	11.4	(ntu)

Comments/Sample Description(weather conditions, odor, color, silt, etc.):

12-13-06 MOSTLY CLOUDY, MID 60's

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: [signature] **Date:** 12/13/06

QA/QC Sign Off: [signature] **Date:** 1-2-07

DATE: 12/13/06

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: Material Recovery, LLC **Project/Task No.:** 710.09

Surface Point ID: SW-3 **Sampler(s):** E. Felton / D. Girdner

Location: Stream past MW-2

Field Parameters:

Time of Sampling:	11:10	
pH:	5.90	
Temperature :	11.2	(°C)
Conductivity :	476	(µS)
Turbidity :	16.3	(ntu)

Comments/Sample Description(weather conditions, odor, color, silt, etc.):

12/13/06 Sunny Some Clouds 40°

Sketch of Sample Location (include flow direction, drainage pathways, etc.):

Signature: [signature] **Date:** 12/13/06

QA/QC Sign Off: [signature] **Date:** 1-2-07

NOTES:

1. DIGITAL MAPPING PROVIDED BY SPATIAL DATA CONSULTANTS, INC., OF HIGH POINT, NORTH CAROLINA. DATE OF AERIAL FLYOVER WAS MARCH 27, 2001.
2. SURFACE MONITORING POINT LOCATIONS ARE APPROXIMATE.

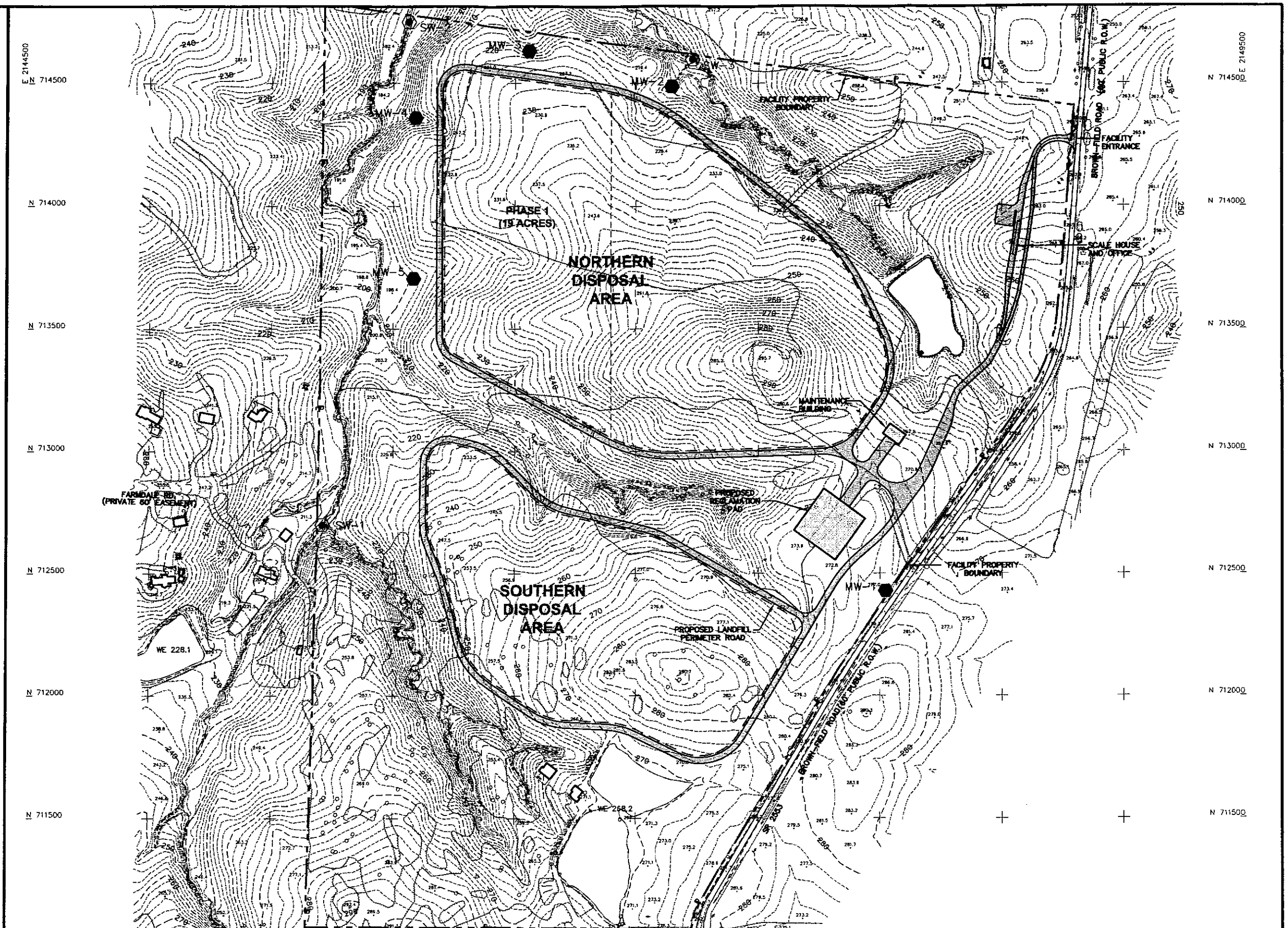
LEGEND:

EXISTING 10 FT. TOPOGRAPHIC CONTOUR	--260--
EXISTING 2 FT. TOPOGRAPHIC CONTOUR	----------
APPROXIMATE LIMITS OF WASTE	— — —
APPROXIMATE PROPERTY LINE	—℄—
ROAD	═══
APPROXIMATE CENTERLINE OF STREAM	—··—
GROUNDWATER MONITORING WELL LOCATION	● MW-1
SURFACE WATER MONITORING POINT LOCATION	◉ SW-1

GRAPHIC SCALE

0 200 400 800

(FEET)



DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED JJK
DRAWN CADD/JJK
CHECKED MB
APPROVED HK
DATE 03/29/07

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GREENSBORO, NC 27407
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SCALE: 1:400

PROJECT NO.: 710.09

MATERIAL RECOVERY, LLC, C&D LANDFILL
WAKE COUNTY, NORTH CAROLINA

SITE PLAN

DRAWING NO. 1

L:\Material Recovery Facility LLC\dwg\Task 07 GW Report\Site Plan June 2006.dwg