# Semi-Annual Groundwater Sampling and Analysis Report

*Prepared for*

Yadkin County New Closed MSWLF and Closed C&D Landfill
Yadkinville, North Carolina

## August, 2006

**Permit Number: 99-02**
**MESCO Project Number: G06017.0**

Completed on January 11, 2007

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC
Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, North Carolina

OPERATION/CONSTRUCTION MANAGERS

**Municipal Services**

CIVIL/SANITARY ENGINEERS

**Engineering Company, P.A.**

January 12, 2007

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Groundwater Sampling and Analysis
Yadkin County New Closed Sanitary Landfill and C&D Landfill
Permit No. 99-02
MESCO Project No. G06017.0

Dear Ms. Drummond:

The Yadkin County New Closed unlined MSWLF and closed C&D Landfills were sampled for the Appendix I list of parameters by Municipal Engineering Services Company, P.A. (MESCO) on August 23, 2006. Environmental & Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina completed the laboratory analysis. The closed landfill is monitored by monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5S, MW-5D) and surface waters (SW-1 and SW-2). The closed C&D area is monitored by (MW-6, MW-7, and MW-8). All of the monitoring locations were sampled during this event. All detected constituents were analyzed for regulatory exceedance with reference to North Carolina Groundwater Standards. The results are shown in the enclosed table titled "Exceedance Scan". The following table summarizes the constituent that exceeded the Standard.

**Table 1.** Exceedance Summary

| Well | Chromium | Lead | 1,4-dichlorobenzene |
|---|---|---|---|
| MW-1 | x | | |
| MW-2 | | | x |
| MW-7 | | x | |
| MW-8 | | x | |

=concentration greater than NCGW2L Standard

Low levels of metals continue to be detected within a few monitoring wells with lead found above the Standard within the newest installed MW-7 and MW-8. Chromium was also found above the MCL within the background well MW-1. The presence of metals is very likely natural and not a product of leachate contamination.

Historically MW-2, located directly adjacent to the southern waste boundary, has consistently contained superelevated VOC concentrations. During this sampling event 1,4-dichlorobenzene was found for the first time within MW-2 and at levels above the MCL. MW-2 also continues to contain toluene and xylene in concentrations well below the Standard and within historically identified levels. The compliance wells MW-5S & MW-5D, located across the small stream from MW-2, were found to be free of all constituents indicating that the contaminants contained in the MW-2 region likely continue to be confined.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Closed C&D downgradient well MW-8 contained a single low level detection of toluene. MW-8 has been sampled 7 times over the past 3 years and this is the premier event that a VOC has been detected.

MW-4, located at the far southeast property corner, had contained several VOCs that previously appeared to be increasing in concentrations. However, no VOCs have been detected in this location during the last 5 sampling events.

MESCO completed the groundwater report including an exceedance scan, field data sheet, chain of custody sheets and laboratory results. A plate depicting the monitoring locations is also enclosed. If you have any questions or comments regarding this report, please contact me at (919) 772-5393 or at jpfohl@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Jonathan Pfohl
Environmental Specialist

Enclosures

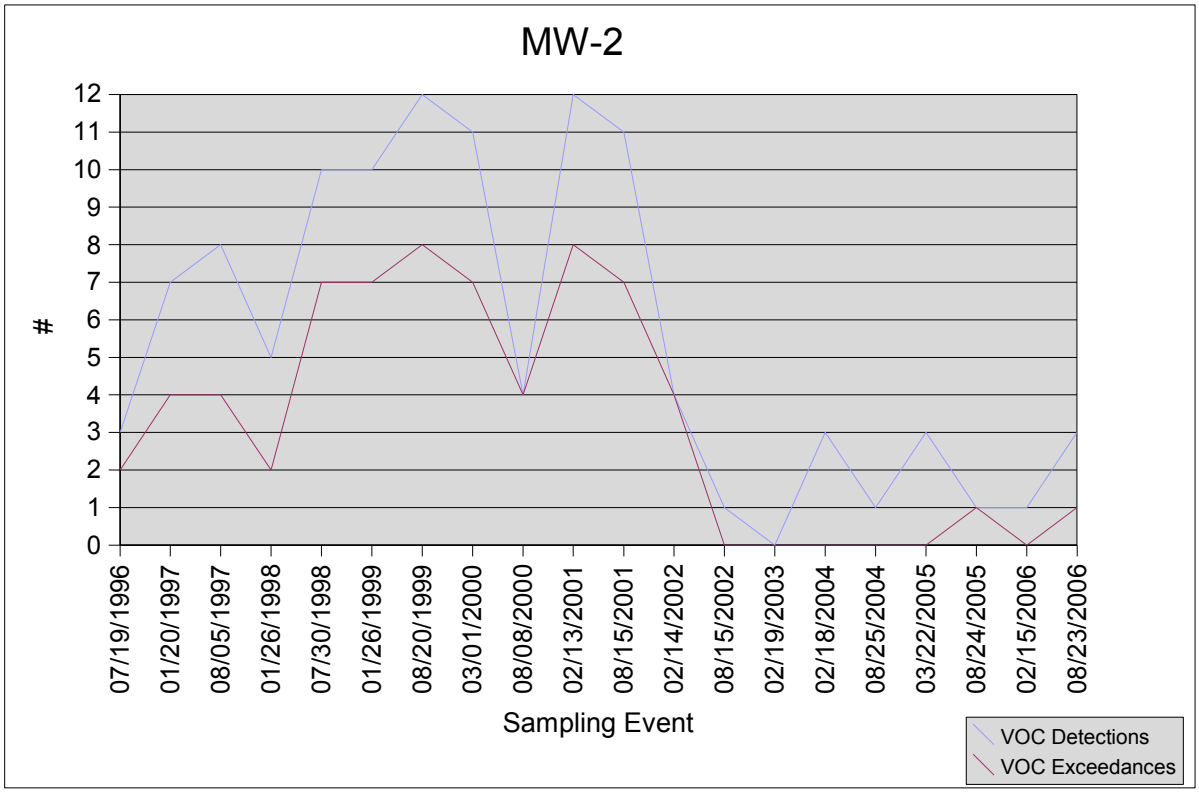
cc: Cheri Cranfill
Yadkin County

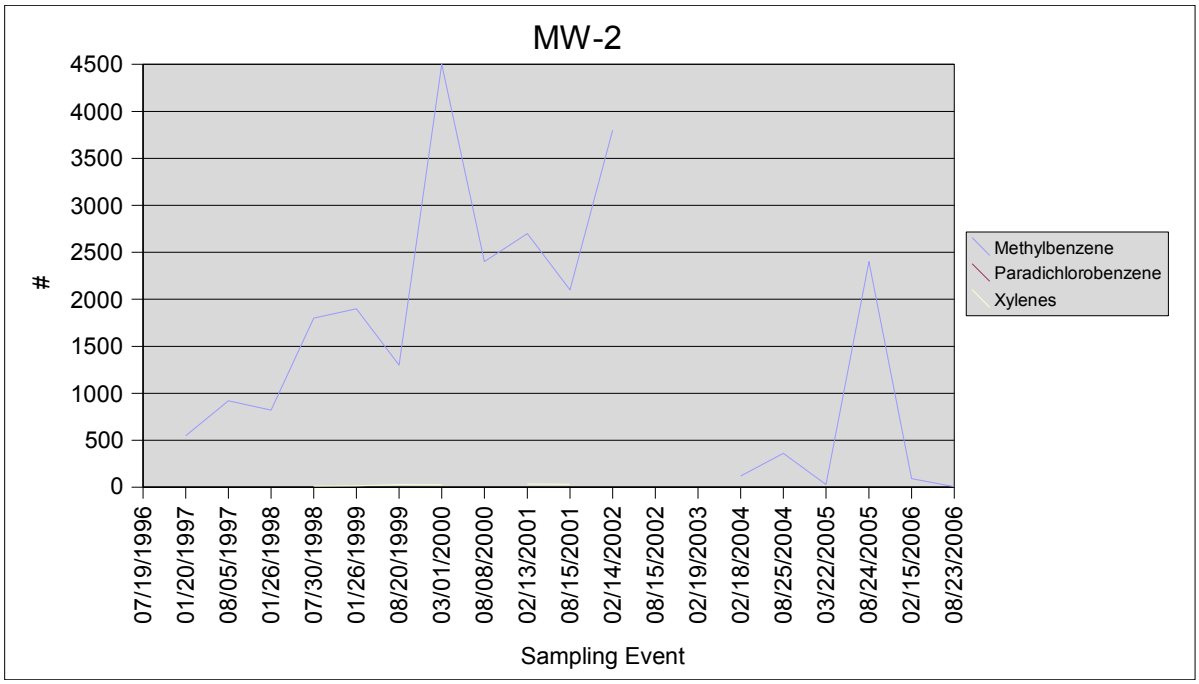
**Exceedance Scan**
**Yadkin County New Closed MSWLF and Closed C&D Landfill**

| Well ID | Parameter Name [1] | Sample Date | Result | Unit | PQL [2] | NCGW2L [3] | Exceedance |
|---|---|---|---|---|---|---|---|
| MW- 1 | Zinc | 08/23/2006 | 0.0936 | mg/L | 0.05 | 1.05 | |
| MW- 1 | Nickel | 08/23/2006 | 0.0575 | mg/L | 0.05 | 0.1 | |
| MW- 1 | Cobalt | 08/23/2006 | 0.035 | mg/L | 0.01 | | |
| **MW- 1** | **Chromium** | **08/23/2006** | **0.0759** | **mg/L** | **0.01** | **0.05** | **0.0259** |
| MW- 1 | Vanadium | 08/23/2006 | 0.118 | mg/L | 0.04 | | |
| MW- 3 | Cobalt | 08/23/2006 | 0.0215 | mg/L | 0.01 | | |
| MW- 3 | Zinc | 08/23/2006 | 0.0685 | mg/L | 0.05 | 1.05 | |
| MW- 4 | Cobalt | 08/23/2006 | 0.0265 | mg/L | 0.01 | | |
| MW- 5D | Cadmium | 08/23/2006 | 0.0016 | mg/L | 0.001 | 0.0018 | |
| MW- 5S | Cobalt | 08/23/2006 | 0.0116 | mg/L | 0.01 | | |
| MW- 5S | Chromium | 08/23/2006 | 0.0256 | mg/L | 0.01 | 0.05 | |
| MW- 5S | Zinc | 08/23/2006 | 0.0846 | mg/L | 0.05 | 1.05 | |
| MW- 7 | Chromium | 08/23/2006 | 0.0414 | mg/L | 0.01 | 0.05 | |
| MW- 7 | Beryllium | 08/23/2006 | 0.0033 | mg/L | 0.002 | | |
| MW- 7 | Zinc | 08/23/2006 | 0.166 | mg/L | 0.05 | 1.05 | |
| MW- 7 | Vanadium | 08/23/2006 | 0.0403 | mg/L | 0.04 | | |
| **MW- 7** | **Lead** | **08/23/2006** | **0.0716** | **mg/L** | **0.01** | **0.015** | **0.0566** |
| MW- 7 | Cobalt | 08/23/2006 | 0.0221 | mg/L | 0.01 | | |
| MW- 7 | Barium | 08/23/2006 | 0.516 | mg/L | 0.5 | 2 | |
| MW- 7 | Arsenic | 08/23/2006 | 0.0109 | mg/L | 0.01 | 0.05 | |
| MW- 8 | Barium | 08/23/2006 | 0.53 | mg/L | 0.5 | 2 | |
| MW- 8 | Beryllium | 08/23/2006 | 0.0022 | mg/L | 0.002 | | |
| MW- 8 | Chromium | 08/23/2006 | 0.0204 | mg/L | 0.01 | 0.05 | |
| MW- 8 | Cobalt | 08/23/2006 | 0.0195 | mg/L | 0.01 | | |
| **MW- 8** | **Lead** | **08/23/2006** | **0.0208** | **mg/L** | **0.01** | **0.015** | **0.0058** |
| MW- 8 | Zinc | 08/23/2006 | 0.148 | mg/L | 0.05 | 1.05 | |
| MW-2 | Zinc | 08/23/2006 | 0.202 | mg/L | 0.05 | 1.05 | |
| MW-2 | Lead | 08/23/2006 | 0.0102 | mg/L | 0.01 | 0.015 | |
| MW-2 | Cobalt | 08/23/2006 | 0.0452 | mg/L | 0.01 | | |
| MW- 8 | Toluene | 08/23/2006 | 10.3 | ug/L | 5 | 1000 | |
| MW-2 | Xylenes | 08/23/2006 | 10.5 | ug/L | 5 | 530 | |
| MW-2 | Toluene | 08/23/2006 | 5.5 | ug/L | 5 | 1000 | |
| **MW-2** | **1,4-Dichlorobenzene** | **08/23/2006** | **8.2** | **ug/L** | **5** | **1.4** | **6.8** |

[1] Table only contains detected constituents.
[2] PQL = Practical Quantitation Limit
[3] NCGW2L = North Carolina Ground Water 2L Standard

**Time Series Plots for Select Constituents (MW-2)**
**Yadkin County New Closed MSWLF and Closed C&D Landfill**



# Sampling Data Sheet

Project: Yadkin Co. New Closed LF & C&D LF

Samplers: J. Pfohl

| Monitoring Point | Sample Date | Sample Time | Sampling Parameters: Depth to Water (BTOP) Static | Depth to Water (BTOP) Sample Time | Volume Purged (Gal) | Sample Type | Sampling Depth (BGS) | Water Quality Parameters: pH | Temp. | Specific Cond. | Turbidity | Total Depth |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 8/23/06 | 11:30 | 8.38 | 0E-6R | PD | SS | | 5.8 | 16.8 | 1960 | ST | 18.5 |
| MW-5S | | 11:39 | 5.52 | | | SS | | 6.8 | 18.0 | 190 | MT | 20 |
| MW-5D | | 12:05 | 11.66 | | PD | PMDS | | 6.4 | 16.5 | 120 | C | 71 |
| MW-8 | | 1:05 | 41.35 | | PD | SS | | 6.9 | 16.9 | 100 | C | 45 |
| MW-6 | | 3:10 | 16.48 | | PD | P | | 6.8 | 16.6 | 90 | MT | 21 |
| MW-7 | | 3:00 | 40.68 | | PD | P | | 7.0 | 16.9 | 60 | MT | 45 |
| MW-1 | | 3:30 | 32.87 | | PD | P | | 6.6 | 16.6 | 50 | MT | 39.5 |
| MW-4 | | 4:05 | 7.99 | | PD | P | | 6.6 | 16.9 | 60 | C | 20.5 |
| SW-2 | | 4:15 | — | | -- | D/I | | 7.1 | 18.0 | 170 | C | — |
| MW-3 | | 4:50 | 8.08 | | PD | P | | 6.6 | 17.7 | 420 | MT | 21 |
| SW-1 | | 5:00 | -- | | | | | 6.8 | 18.1 | 150 | C | — |

Comments

SS Bailer=Stainless Steel Bailer, D Bailer=Disposable Bailer, PL=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

# ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Green Oak Dr.
Orlando, FL 32837
(407) 521-5114 Fax (407) 859-3945

4410 Executive Park Court, Suite 211
Jacksonville, FL 32210-7319
(904) 296-3007 Fax (904) 296-6210

1816 Pleasant Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-1676



| | |
|---|---|
| Client Name: Municipal Engineering Services (MU301) | Project Name: G06017.0 |
| Address: P.O. Box 97 | Project Location: Yadkin New Closed LF |
| City/ST/Zip: Garner, NC 27529 | PO# / Project #: |
| Tel: (919) 772-5393 Fax: (919) 772-1176 | Report To: J. Pfohl |
| Sampled by / Affiliate: J. Pfohl, MESCO | Ship To: |
| Bill To: J. Pfohl | Facility (if sampled): |

Requested Analyses: 8260B Appendix 1; Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn

Requested Turnaround Times: Note: Rush surcharges will only be applied to samples run by the lab. X Standard ___ Expedited Due ___/___/___

Lab Work order: C602706

Preservation (Use Codes): (Specify in Notes)

| Item # | Sample ID (Field Identifier) | Collection Date | Collection Time | Comp / Grab | Matrix (see codes) | # of Containers | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| | MW-2 MS/MSD | 8/23/06 | 11:00 | Grab | Water | 7 | X | X | |
| | MW-5S | | 11:20 | | Water | 4 | X | X | |
| | MW-5D | | 12:05 | | Water | 4 | X | X | |
| | MW-8 | | 1:05 | | Water | 4 | X | X | |
| | MW-6 | | 2:10 | | Water | 4 | X | X | |
| | MW-7 | | 3:00 | | Water | 4 | X | X | |
| | MW-1 | | 3:30 | | Water | 4 | X | X | |
| | MW-4 | | 4:05 | | Water | 4 | X | X | LOG INS BROKE + VOA |
| | ~~MW~~-SW-2 | | 4:15 | | Water | 4 | X | X | |
| | MW-3 | | 4:50 | | Water | 4 | X | X | |
| | ~~MW~~-SW-1 | | 5:00 | | Water | 4 | X | X | |
| | ~~MW~~- | | | | Water | 4 | X | X | |

Total # of Containers

| | | | | | |
|---|---|---|---|---|---|
| Sampled / Relinquished by: CARY | Date/Time: 8/8/06 | Received by: | Date/Time: 8/28/06 9:55 | Received by: | Date/Time: 8/28/06 9:55 |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Relinquished by: | Date/Time: |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Relinquished by: | Date/Time: |
| Cooler Temperature Record: 4° | | | | Condition upon Receipt: ___ Acceptable ___ Unacceptable | |

Comments:

Matrix: GW-Groundwater, SW-Surface Water, WW-Wastewater, A-Air, O-Other (Specify in comments)

Preservation: I-Ice, H-HCl, N-HNO3, S-H2SO4, O-Other (Specify in comments)

Note: All samples submitted to ECL are subject to our standard terms and conditions, which are available upon request.

# ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 878-5314 Fax (407) 851-9819

4810 Executive Park Court Suite 211 Jacksonville, FL 32210-6979 (904) 296-3007 Fax (904) 296-6210

915 Passport Way Cary, NC 27513 (919) 677-1669 Fax (919) 677-9560

Page 1 of 1

| | |
|---|---|
| Client Name: Municipal Engineering Services (MU001) | Project Number: G06017.0 |
| Address: P.O. Box 97 | Project Name/Desc: Yadkin Co. Landfills |
| City/ST/Zip: Garner, NC 27529 | PO # / Billing Info: |
| Tel: (919) 772-5393 Fax: (919) 772-1176 | Report to Contact: J. Phill |
| Sampler(s) Name & Affiliation: Jonathan Phill, MESCO | Billing Contact: |
| Sampler Signature: | Facility ID (if required): |

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times: Normal turnaround subject to acceptance by the facility

X Standard

Expedited

Due __/__/__

Lab Workorder: C602705

Preservation (See Codes) (Cards if as necessary)

| Lab # | Sample ID (Limit 20 characters) | Collection Date | Collection Time | Sampler Code | Matrix (see codes) | Total # Containers | 8260B Appendix 1 | | | | | | | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB | 8/23/06 | 10:35 | Grab | Water | 3 | X | | | | | | | | | |
| | FB | ↓ | 10:30 | ↓ | Water | 3 | X | | | | | | | | | |
| | TB | ↓ | 10:00 | ↓ | Water | 3 | X | | | | | | | | | |

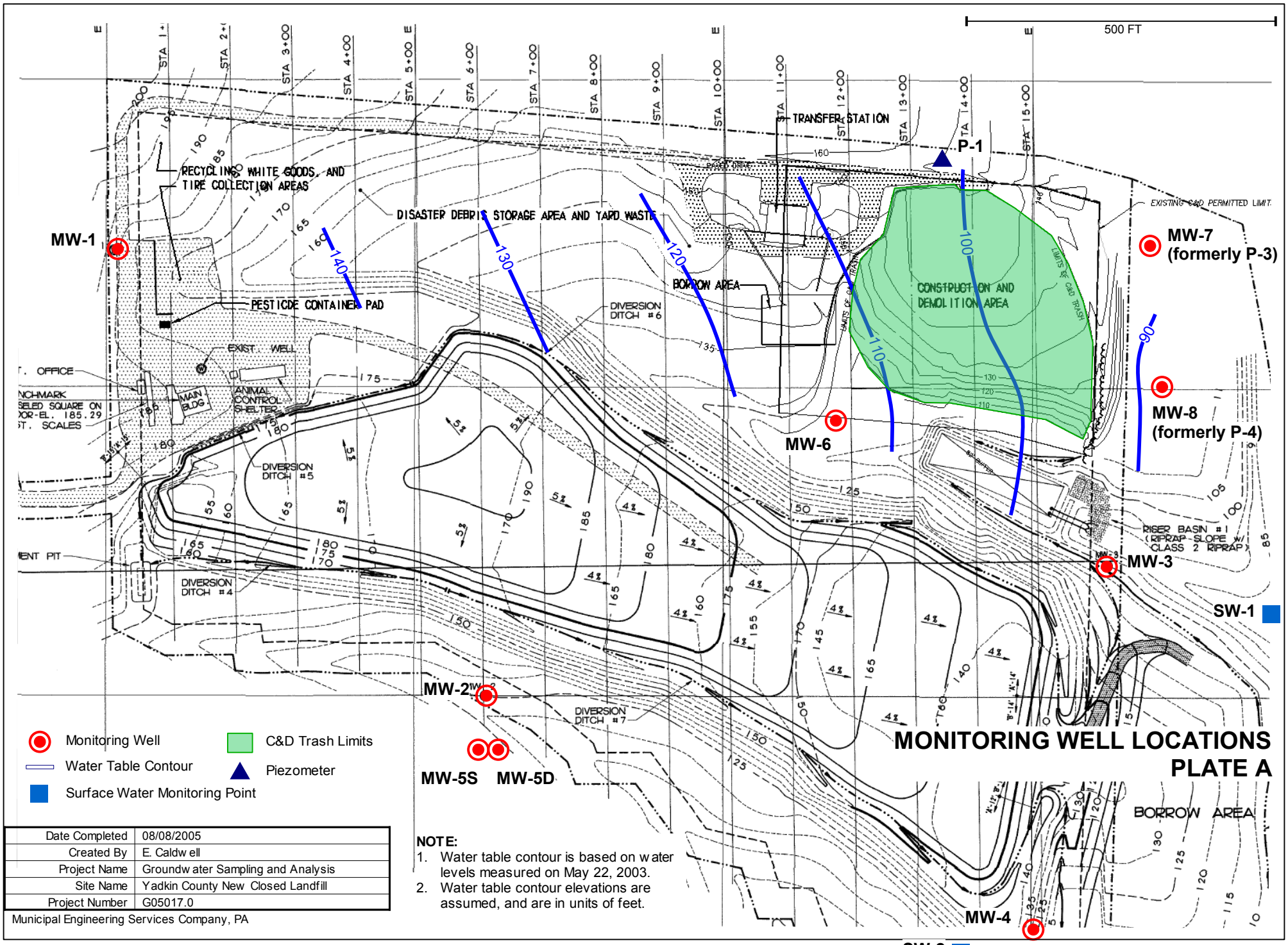
<-- Total # of Containers

| | | | | | |
|---|---|---|---|---|---|
| Sample Kit Prepared By: CRY | Date/Time: 8/8/06 | Relinquished By: | Date/Time: 8/28/06 9:55 | Received By: JONTHER | Date/Time: 8/28/06 9:52 |
| Comments: Fieldlin DI water SS Bailer for EB | | Relinquished By: | Date/Time: | Received By: | Date/Time: |
| | | Relinquished By: | Date/Time: | Received By: | Date/Time: |
| | | Cooler Box Temperature (Receipt): 4° | | Condition Upon Receipt: ___ Acceptable | Unacceptable |

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

Preservation: Use: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Other (note in comments)

Note: All services rendered by ENCO Laboratories in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.




# MONITORING WELL LOCATIONS
## PLATE A

| | |
|---|---|
| Date Completed | 08/08/2005 |
| Created By | E. Caldwell |
| Project Name | Groundwater Sampling and Analysis |
| Site Name | Yadkin County New Closed Landfill |
| Project Number | G05017.0 |

Municipal Engineering Services Company, PA

**NOTE:**
1. Water table contour is based on water levels measured on May 22, 2003.
2. Water table contour elevations are assumed, and are in units of feet.

# Laboratory Results

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

Thursday, August 31, 2006

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

**RE: Project Number: G06017.0, Project Name/Desc: Yadkin New Closed LF**
**ENCO Workorder: C602706**

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, August 28, 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,

Bob George For Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 43.

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## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID:** MW-2 MS/MSD **Lab ID:** C602706-01

**Sampled:** 08/23/06 11:00 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 10:36 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 12:06 |

**Client ID:** MW- 5S **Lab ID:** C602706-02

**Sampled:** 08/23/06 11:30 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 11:12 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 12:35 |

**Client ID:** MW- 5D **Lab ID:** C602706-03

**Sampled:** 08/23/06 12:05 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 11:19 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 13:02 |

**Client ID:** MW- 8 **Lab ID:** C602706-04

**Sampled:** 08/23/06 13:05 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 11:26 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 13:29 |

**Client ID:** MW- 6 **Lab ID:** C602706-05

**Sampled:** 08/23/06 14:10 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 11:33 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 13:56 |

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**Client ID:** MW- 7 **Lab ID:** C602706-06

**Sampled:** 08/23/06 15:00 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 11:57 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 14:24 |

**Client ID:** MW- 1 **Lab ID:** C602706-07

**Sampled:** 08/23/06 15:30 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 12:04 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 14:52 |

**Client ID:** MW- 4 **Lab ID:** C602706-08

**Sampled:** 08/23/06 16:05 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 12:11 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 15:20 |

**Client ID:** SW- 2 **Lab ID:** C602706-09

**Sampled:** 08/23/06 16:15 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 12:18 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 15:47 |

**Client ID:** MW- 3 **Lab ID:** C602706-10

**Sampled:** 08/23/06 16:50 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 12:25 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 16:16 |

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**Client ID:** SW- 1 **Lab ID:** C602706-11

**Sampled:** 08/23/06 17:00 **Received:** 08/28/06 09:55

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 6010B | 02/19/07 | 08/29/06 08:39 | 8/30/2006 12:32 |
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 16:45 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-2 MS/MSD | Project: | Yadkin New Closed LF |
| Lab #: | C602706-01 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 U | 1.0 | 5 | ug/L |
| **1,4-Dichlorobenzene** | 106-46-7 | **8.2** | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 U | 2.0 | 10 | ug/L |
| **m,p-Xylenes** | 108-38-3/106-42-3 | **10.5** | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-2 MS/MSD | Project: | Yadkin New Closed LF |
| Lab #: | C602706-01 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| **Toluene** | 108-88-3 | **5.5** | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 53.6 | 50.0 | 107 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 50.8 | 50.0 | 102 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.5 | 50.0 | 101 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW-2 MS/MSD | Project: | Yadkin New Closed LF |
| Lab #: | C602706-01 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0452** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Lead** | 7439-92-1 | **0.0102** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Zinc** | 7440-66-6 | **0.202** | | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 5S | Project: | Yadkin New Closed LF |
| Lab #: | C602706-02 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 5S | Project: | Yadkin New Closed LF |
| Lab #: | C602706-02 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 53.9 | 50.0 | 108 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 50.5 | 50.0 | 101 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 52.6 | 50.0 | 105 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 5S | Project: | Yadkin New Closed LF |
| Lab #: | C602706-02 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Chromium** | 7440-47-3 | **0.0256** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0116** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Zinc** | 7440-66-6 | **0.0846** | | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 5D | Project: | Yadkin New Closed LF |
| Lab #: | C602706-03 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 5D | Project: | Yadkin New Closed LF |
| Lab #: | C602706-03 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 50.8 | 50.0 | 102 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 49.2 | 50.0 | 98 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.1 | 50.0 | 100 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 5D | Project: | Yadkin New Closed LF |
| Lab #: | C602706-03 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cadmium** | 7440-43-9 | **0.00160** | | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cobalt | 7440-48-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Zinc | 7440-66-6 | 0.05 | U | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 8 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-04 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 8 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-04 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| **Toluene** | 108-88-3 | **10.3** | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 55.0 | 50.0 | 110 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 51.5 | 50.0 | 103 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 51.8 | 50.0 | 104 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 8 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-04 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Barium** | 7440-39-3 | **0.530** | | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Beryllium** | 7440-41-7 | **0.00220** | | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Chromium** | 7440-47-3 | **0.0204** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0195** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Lead** | 7439-92-1 | **0.0208** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Zinc** | 7440-66-6 | **0.148** | | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 6 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-05 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 6 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-05 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 52.2 | 50.0 | 104 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 52.2 | 50.0 | 104 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 51.2 | 50.0 | 102 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 6 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-05 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cobalt | 7440-48-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Zinc | 7440-66-6 | 0.05 | U | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 7 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-06 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 7 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-06 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 55.4 | 50.0 | 111 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 51.1 | 50.0 | 102 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 51.1 | 50.0 | 102 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 7 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-06 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Arsenic** | 7440-38-2 | **0.0109** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Barium** | 7440-39-3 | **0.516** | | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Beryllium** | 7440-41-7 | **0.00330** | | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Chromium** | 7440-47-3 | **0.0414** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0221** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Lead** | 7439-92-1 | **0.0716** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Vanadium** | 7440-62-2 | **0.0403** | | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Zinc** | 7440-66-6 | **0.166** | | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 1 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-07 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 1 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-07 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 55.0 | 50.0 | 110 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 51.8 | 50.0 | 104 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.2 | 50.0 | 100 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 1 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-07 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Chromium** | 7440-47-3 | **0.0759** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0350** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Nickel** | 7440-02-0 | **0.0575** | | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Vanadium** | 7440-62-2 | **0.118** | | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Zinc** | 7440-66-6 | **0.0936** | | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 4 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-08 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 4 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-08 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 51.1 | 50.0 | 102 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 51.1 | 50.0 | 102 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.5 | 50.0 | 101 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 4 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-08 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0265** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Zinc | 7440-66-6 | 0.05 | U | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW- 2 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-09 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW- 2 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-09 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 54.0 | 50.0 | 108 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 52.4 | 50.0 | 105 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 51.9 | 50.0 | 104 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW- 2 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-09 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cobalt | 7440-48-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Zinc | 7440-66-6 | 0.05 | U | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 3 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-10 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 3 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-10 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 52.3 | 50.0 | 105 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 51.4 | 50.0 | 103 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.2 | 50.0 | 100 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | MW- 3 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-10 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Cobalt** | 7440-48-4 | **0.0215** | | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| **Zinc** | 7440-66-6 | **0.0685** | | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW- 1 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-11 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 | U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 | U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 | U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 | U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 | U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 | U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 | U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 | U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 | U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 | U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 | U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 | U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 | U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 | U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 | U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 | U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 | U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 | U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 | U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 | U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 | U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 | U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 | U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 | U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 | U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 | U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 | U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 | U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 | U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 | U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 | U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW- 1 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-11 | Work Order #: | C602706 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Ground Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 52.2 | 50.0 | 104 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 51.3 | 50.0 | 103 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 52.2 | 50.0 | 104 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | SW- 1 | Project: | Yadkin New Closed LF |
| Lab #: | C602706-11 | Work Order #: | C602706 |
| | | Matrix: | Ground Water |

**Metals by EPA 6000/7000 Series Methods**

| Parameter | CAS Number | Analytical Results | | MRL | NC RDL | Units | Analysis Method | Prep Method | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 7440-36-0 | 0.03 | U | 0.0100 | 0.03 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Arsenic | 7440-38-2 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Barium | 7440-39-3 | 0.5 | U | 0.0200 | 0.5 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Beryllium | 7440-41-7 | 0.002 | U | 0.00100 | 0.002 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cadmium | 7440-43-9 | 0.001 | U | 0.00100 | 0.001 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Chromium | 7440-47-3 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Cobalt | 7440-48-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Copper | 7440-50-8 | 0.2 | U | 0.0100 | 0.2 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Lead | 7439-92-1 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Nickel | 7440-02-0 | 0.05 | U | 0.0500 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Selenium | 7782-49-2 | 0.02 | U | 0.0100 | 0.02 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Silver | 7440-22-4 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Thallium | 7440-28-0 | 0.01 | U | 0.0100 | 0.01 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Vanadium | 7440-62-2 | 0.04 | U | 0.0100 | 0.04 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |
| Zinc | 7440-66-6 | 0.05 | U | 0.0100 | 0.05 | mg/L | EPA 6010B | EPA 3005A | 6H29009 |

# QUALITY CONTROL

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

**Volatile Organic Compounds by GCMS - Quality Control**

*Batch 6H29008 - EPA 5030B_MS*

**Blank (6H29008-BLK1)** Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 09:48

| | | | |
|---|---|---|---|
| Acetone | 5.0 U | 5.0 | ug/L |
| Acrylonitrile | 5.0 U | 5.0 | ug/L |
| Benzene | 1.0 U | 1.0 | ug/L |
| 2-Butanone | 5.0 U | 5.0 | ug/L |
| 2-Hexanone | 5.0 U | 5.0 | ug/L |
| Iodomethane | 2.0 U | 2.0 | ug/L |
| Tetrachloroethene | 1.0 U | 1.0 | ug/L |
| 4-Methyl-2-pentanone | 5.0 U | 5.0 | ug/L |
| Bromochloromethane | 1.0 U | 1.0 | ug/L |
| Trichloroethene | 1.0 U | 1.0 | ug/L |
| Bromodichloromethane | 0.4 U | 0.4 | ug/L |
| Bromoform | 1.0 U | 1.0 | ug/L |
| Bromomethane | 1.0 U | 1.0 | ug/L |
| Carbon disulfide | 5.0 U | 5.0 | ug/L |
| Carbon tetrachloride | 1.0 U | 1.0 | ug/L |
| Chlorobenzene | 1.0 U | 1.0 | ug/L |
| Chloroethane | 1.0 U | 1.0 | ug/L |
| Chloroform | 1.0 U | 1.0 | ug/L |
| Chloromethane | 1.0 U | 1.0 | ug/L |
| Dibromochloromethane | 1.0 U | 1.0 | ug/L |
| 1,2-Dibromo-3-chloropropane | 1.0 U | 1.0 | ug/L |
| 1,2-Dibromoethane | 1.0 U | 1.0 | ug/L |
| Dibromomethane | 1.0 U | 1.0 | ug/L |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 | ug/L |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 | ug/L |
| trans-1,4-Dichloro-2-butene | 1.0 U | 1.0 | ug/L |
| 1,1-Dichloroethane | 1.0 U | 1.0 | ug/L |
| 1,2-Dichloroethane | 1.0 U | 1.0 | ug/L |
| 1,1-Dichloroethene | 1.0 U | 1.0 | ug/L |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | ug/L |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | ug/L |
| 1,2-Dichloropropane | 1.0 U | 1.0 | ug/L |
| cis-1,3-Dichloropropene | 0.2 U | 0.2 | ug/L |
| trans-1,3-Dichloropropene | 0.2 U | 0.2 | ug/L |
| Ethylbenzene | 1.0 U | 1.0 | ug/L |
| Methylene chloride | 2.0 U | 2.0 | ug/L |
| Styrene | 1.0 U | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | 1.0 U | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 | ug/L |
| Toluene | 1.0 U | 1.0 | ug/L |

# QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GCMS - Quality Control** | | | | | | | | | | |
| *Batch 6H29008 - EPA 5030B_MS* | | | | | | | | | | |
| **Blank (6H29008-BLK1) Continued** | | | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 09:48 | | | | | | |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Vinyl acetate | 2.0 U | 2.0 | ug/L | | | | | | | |
| Vinyl chloride | 1.0 U | 1.0 | ug/L | | | | | | | |
| m,p-Xylenes | 2.0 U | 2.0 | ug/L | | | | | | | |
| o-Xylene | 1.0 U | 1.0 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *52.0* | | *ug/L* | *50.0* | | *104* | *77-118* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *52.9* | | *ug/L* | *50.0* | | *106* | *70-130* | | | |
| *Surrogate: Dibromofluoromethane* | *50.8* | | *ug/L* | *50.0* | | *102* | *73-138* | | | |
| **LCS (6H29008-BS1)** | | | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 19:01 | | | | | | |
| Benzene | 8.99 | 1.0 | ug/L | 10.0 | | 90 | 69-115 | | | |
| Trichloroethene | 8.02 | 1.0 | ug/L | 10.0 | | 80 | 74-118 | | | |
| Chlorobenzene | 8.94 | 1.0 | ug/L | 10.0 | | 89 | 76-118 | | | |
| 1,1-Dichloroethene | 8.95 | 1.0 | ug/L | 10.0 | | 90 | 64-139 | | | |
| Toluene | 8.17 | 1.0 | ug/L | 10.0 | | 82 | 77-117 | | | |
| **Matrix Spike (6H29008-MS1)** | | **Source: C602706-01** | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 19:28 | | | | | | |
| Benzene | 22.5 | 1.0 | ug/L | 20.0 | 1.0 U | 112 | 53-150 | | | |
| Trichloroethene | 18.0 | 1.0 | ug/L | 20.0 | 0.970 | 85 | 64-124 | | | |
| Chlorobenzene | 18.2 | 1.0 | ug/L | 20.0 | 1.91 | 81 | 44-128 | | | |
| 1,1-Dichloroethene | 22.0 | 1.0 | ug/L | 20.0 | 1.0 U | 110 | 36-177 | | | |
| Toluene | 21.6 | 1.0 | ug/L | 20.0 | 5.54 | 80 | 40-161 | | | |
| **Matrix Spike Dup (6H29008-MSD1)** | | **Source: C602706-01** | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 19:55 | | | | | | |
| Benzene | 22.3 | 1.0 | ug/L | 20.0 | 1.0 U | 112 | 53-150 | 0.9 | 23 | |
| Trichloroethene | 18.4 | 1.0 | ug/L | 20.0 | 0.970 | 87 | 64-124 | 2 | 25 | |
| Chlorobenzene | 18.3 | 1.0 | ug/L | 20.0 | 1.91 | 82 | 44-128 | 0.5 | 22 | |
| 1,1-Dichloroethene | 22.0 | 1.0 | ug/L | 20.0 | 1.0 U | 110 | 36-177 | 0 | 30 | |
| Toluene | 21.7 | 1.0 | ug/L | 20.0 | 5.54 | 81 | 40-161 | 0.5 | 23 | |
| **Metals by EPA 6000/7000 Series Methods - Quality Control** | | | | | | | | | | |
| *Batch 6H29009 - EPA 3005A* | | | | | | | | | | |
| **Blank (6H29009-BLK1)** | | | | Prepared: 08/29/2006 08:39 Analyzed: 08/30/2006 10:21 | | | | | | |
| Antimony | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Arsenic | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Barium | 0.0200 U | 0.0200 | mg/L | | | | | | | |
| Beryllium | 0.00100 U | 0.00100 | mg/L | | | | | | | |
| Cadmium | 0.00100 U | 0.00100 | mg/L | | | | | | | |
| Chromium | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Cobalt | 0.0100 U | 0.0100 | mg/L | | | | | | | |

# QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals by EPA 6000/7000 Series Methods - Quality Control** | | | | | | | | | | |
| *Batch 6H29009 - EPA 3005A* | | | | | | | | | | |
| **Blank (6H29009-BLK1) Continued** | | | | Prepared: 08/29/2006 08:39 Analyzed: 08/30/2006 10:21 | | | | | | |
| Copper | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Lead | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Nickel | 0.0500 U | 0.0500 | mg/L | | | | | | | |
| Selenium | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Silver | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Thallium | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Vanadium | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| Zinc | 0.0100 U | 0.0100 | mg/L | | | | | | | |
| **LCS (6H29009-BS1)** | | | | Prepared: 08/29/2006 08:39 Analyzed: 08/30/2006 10:28 | | | | | | |
| Antimony | 0.530 | 0.0100 | mg/L | 0.500 | | 106 | 82-119 | | | |
| Arsenic | 1.06 | 0.0100 | mg/L | 1.00 | | 106 | 82-117 | | | |
| Barium | 1.05 | 0.0200 | mg/L | 1.00 | | 105 | 72-125 | | | |
| Beryllium | 0.542 | 0.00100 | mg/L | 0.500 | | 108 | 75-121 | | | |
| Cadmium | 0.538 | 0.00100 | mg/L | 0.500 | | 108 | 72-120 | | | |
| Chromium | 1.05 | 0.0100 | mg/L | 1.00 | | 105 | 78-119 | | | |
| Cobalt | 1.04 | 0.0100 | mg/L | 1.00 | | 104 | 76-117 | | | |
| Copper | 0.520 | 0.0100 | mg/L | 0.500 | | 104 | 80-117 | | | |
| Lead | 1.07 | 0.0100 | mg/L | 1.00 | | 107 | 72-121 | | | |
| Nickel | 1.06 | 0.0500 | mg/L | 1.00 | | 106 | 78-116 | | | |
| Selenium | 1.10 | 0.0100 | mg/L | 1.00 | | 110 | 82-127 | | | |
| Silver | 0.102 | 0.0100 | mg/L | 0.100 | | 102 | 80-128 | | | |
| Thallium | 0.532 | 0.0100 | mg/L | 0.500 | | 106 | 79-118 | | | |
| Vanadium | 0.519 | 0.0100 | mg/L | 0.500 | | 104 | 85-115 | | | |
| Zinc | 1.06 | 0.0100 | mg/L | 1.00 | | 106 | 80-120 | | | |
| **Matrix Spike (6H29009-MS1)** | | **Source: C602706-01** | | Prepared: 08/29/2006 08:39 Analyzed: 08/30/2006 10:43 | | | | | | |
| Antimony | 0.518 | 0.0100 | mg/L | 0.500 | 0.00490 | 103 | 38-138 | | | |
| Arsenic | 1.02 | 0.0100 | mg/L | 1.00 | 0.0100 U | 102 | 64-126 | | | |
| Barium | 1.24 | 0.0200 | mg/L | 1.00 | 0.200 | 104 | 74-119 | | | |
| Beryllium | 0.531 | 0.00100 | mg/L | 0.500 | 0.00100 U | 106 | 70-131 | | | |
| Cadmium | 0.503 | 0.00100 | mg/L | 0.500 | 0.00100 U | 101 | 68-121 | | | |
| Chromium | 1.01 | 0.0100 | mg/L | 1.00 | 0.0100 U | 101 | 73-120 | | | |
| Cobalt | 1.06 | 0.0100 | mg/L | 1.00 | 0.0452 | 101 | 76-120 | | | |
| Copper | 0.445 | 0.0100 | mg/L | 0.500 | 0.0100 U | 89 | 75-123 | | | |
| Lead | 1.04 | 0.0100 | mg/L | 1.00 | 0.0102 | 103 | 68-126 | | | |
| Nickel | 1.04 | 0.0500 | mg/L | 1.00 | 0.0239 | 102 | 64-126 | | | |
| Selenium | 1.02 | 0.0100 | mg/L | 1.00 | 0.0100 U | 102 | 65-129 | | | |
| Silver | 0.0890 | 0.0100 | mg/L | 0.100 | 0.0100 U | 89 | 69-121 | | | |
| Thallium | 0.508 | 0.0100 | mg/L | 0.500 | 0.0100 U | 102 | 67-135 | | | |
| Vanadium | 0.466 | 0.0100 | mg/L | 0.500 | 0.0100 U | 93 | 71-130 | | | |
| Zinc | 1.25 | 0.0100 | mg/L | 1.00 | 0.202 | 105 | 63-131 | | | |

# QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals by EPA 6000/7000 Series Methods - Quality Control** | | | | | | | | | | |
| *Batch 6H29009 - EPA 3005A* | | | | | | | | | | |
| **Matrix Spike Dup (6H29009-MSD1)** | | **Source: C602706-01** | | Prepared: 08/29/2006 08:39 Analyzed: 08/30/2006 10:50 | | | | | | |
| Antimony | 0.524 | 0.0100 | mg/L | 0.500 | 0.00490 | 104 | 38-138 | 1 | 30 | |
| Arsenic | 1.03 | 0.0100 | mg/L | 1.00 | 0.0100 U | 103 | 64-126 | 1 | 12 | |
| Barium | 1.25 | 0.0200 | mg/L | 1.00 | 0.200 | 105 | 74-119 | 0.8 | 11 | |
| Beryllium | 0.534 | 0.00100 | mg/L | 0.500 | 0.00100 U | 107 | 70-131 | 0.6 | 21 | |
| Cadmium | 0.507 | 0.00100 | mg/L | 0.500 | 0.00100 U | 101 | 68-121 | 0.8 | 12 | |
| Chromium | 1.02 | 0.0100 | mg/L | 1.00 | 0.0100 U | 102 | 73-120 | 1 | 10 | |
| Cobalt | 1.07 | 0.0100 | mg/L | 1.00 | 0.0452 | 102 | 76-120 | 0.9 | 17 | |
| Copper | 0.451 | 0.0100 | mg/L | 0.500 | 0.0100 U | 90 | 75-123 | 1 | 16 | |
| Lead | 1.06 | 0.0100 | mg/L | 1.00 | 0.0102 | 105 | 68-126 | 2 | 19 | |
| Nickel | 1.05 | 0.0500 | mg/L | 1.00 | 0.0239 | 103 | 64-126 | 1 | 12 | |
| Selenium | 1.04 | 0.0100 | mg/L | 1.00 | 0.0100 U | 104 | 65-129 | 2 | 10 | |
| Silver | 0.0932 | 0.0100 | mg/L | 0.100 | 0.0100 U | 93 | 69-121 | 5 | 12 | |
| Thallium | 0.512 | 0.0100 | mg/L | 0.500 | 0.0100 U | 102 | 67-135 | 0.8 | 13 | |
| Vanadium | 0.471 | 0.0100 | mg/L | 0.500 | 0.0100 U | 94 | 71-130 | 1 | 16 | |
| Zinc | 1.24 | 0.0100 | mg/L | 1.00 | 0.202 | 104 | 63-131 | 0.8 | 24 | |

**NOTES AND DEFINITIONS**

| | |
|---|---|
| U | Analyte included in the analysis, but not detected |

## Laboratory Certification Summary

| Analysis | Matrix | Cert ID | Cert Number |
|---|---|---|---|
| 8260B Appendix 1 | Water | NC | 591 |
| Antimony Total EPA 6010B | Water | NC | 591 |
| Arsenic Total EPA 6010B | Water | NC | 591 |
| Barium Total EPA 6010B | Water | NC | 591 |
| Beryllium Total EPA 6010B | Water | NC | 591 |
| Cadmium Total EPA 6010B | Water | NC | 591 |
| Chromium Total EPA 6010B | Water | NC | 591 |
| Cobalt Total EPA 6010B | Water | NC | 591 |
| Copper Total EPA 6010B | Water | NC | 591 |
| Lead Total EPA 6010B | Water | NC | 591 |
| Nickel Total EPA 6010B | Water | NC | 591 |
| Selenium Total EPA 6010B | Water | NC | 591 |
| Silver Total EPA 6010B | Water | NC | 591 |
| Thallium Total EPA 6010B | Water | NC | 591 |
| Vanadium Total EPA 6010B | Water | NC | 591 |
| Zinc Total EPA 6010B | Water | NC | 591 |

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

Wednesday, August 30, 2006

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

**RE: Project Number: G06017.0, Project Name/Desc: Yadkin Co. Landfills**
**ENCO Workorder: C602705**

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, August 28, 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,

Bob George For Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 12.

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## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID:** EB **Lab ID:** C602705-01

**Sampled:** 08/23/06 10:25 **Received:** 08/28/06 09:52

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 10:43 |

**Client ID:** FB **Lab ID:** C602705-02

**Sampled:** 08/23/06 10:30 **Received:** 08/28/06 09:52

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 11:12 |

**Client ID:** TB **Lab ID:** C602705-03

**Sampled:** 08/23/06 10:00 **Received:** 08/28/06 09:52

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|
| EPA 8260B | 09/06/06 | 08/29/06 08:38 | 8/29/2006 11:38 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | EB | Project: | Yadkin Co. Landfills |
| Lab #: | C602705-01 | Work Order #: | C602705 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | EB | Project: | Yadkin Co. Landfills |
| Lab #: | C602705-01 | Work Order #: | C602705 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 54.5 | 50.0 | 109 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 49.8 | 50.0 | 100 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.0 | 50.0 | 100 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | FB | Project: | Yadkin Co. Landfills |
| Lab #: | C602705-02 | Work Order #: | C602705 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | FB | Project: | Yadkin Co. Landfills |
| Lab #: | C602705-02 | Work Order #: | C602705 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 54.3 | 50.0 | 109 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 50.4 | 50.0 | 101 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.1 | 50.0 | 100 % | 77-118 |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | TB | Project: | Yadkin Co. Landfills |
| Lab #: | C602705-03 | Work Order #: | C602705 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,1-Trichloroethane | 71-55-6 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1,2-Trichloroethane | 79-00-5 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethane | 75-34-3 | 5 U | 1.0 | 5 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2,3-Trichloropropane | 96-18-4 | 15 U | 1.0 | 15 | ug/L |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 25 U | 1.0 | 25 | ug/L |
| 1,2-Dibromoethane | 106-93-4 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichlorobenzene | 95-50-1 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | 5 U | 1.0 | 5 | ug/L |
| 1,2-Dichloropropane | 78-87-5 | 5 U | 1.0 | 5 | ug/L |
| 1,4-Dichlorobenzene | 106-46-7 | 5 U | 1.0 | 5 | ug/L |
| 2-Butanone | 78-93-3 | 100 U | 5.0 | 100 | ug/L |
| 2-Hexanone | 591-78-6 | 50 U | 5.0 | 50 | ug/L |
| 4-Methyl-2-pentanone | 108-10-1 | 100 U | 5.0 | 100 | ug/L |
| Acetone | 67-64-1 | 100 U | 5.0 | 100 | ug/L |
| Acrylonitrile | 107-13-1 | 200 U | 5.0 | 200 | ug/L |
| Benzene | 71-43-2 | 5 U | 1.0 | 5 | ug/L |
| Bromochloromethane | 74-97-5 | 5 U | 1.0 | 5 | ug/L |
| Bromodichloromethane | 75-27-4 | 5 U | 0.4 | 5 | ug/L |
| Bromoform | 75-25-2 | 5 U | 1.0 | 5 | ug/L |
| Bromomethane | 74-83-9 | 10 U | 1.0 | 10 | ug/L |
| Carbon disulfide | 75-15-0 | 100 U | 5.0 | 100 | ug/L |
| Carbon tetrachloride | 56-23-5 | 10 U | 1.0 | 10 | ug/L |
| Chlorobenzene | 108-90-7 | 5 U | 1.0 | 5 | ug/L |
| Chloroethane | 75-00-3 | 10 U | 1.0 | 10 | ug/L |
| Chloroform | 67-66-3 | 5 U | 1.0 | 5 | ug/L |
| Chloromethane | 74-87-3 | 10 U | 1.0 | 10 | ug/L |
| cis-1,2-Dichloroethene | 156-59-2 | 5 U | 1.0 | 5 | ug/L |
| cis-1,3-Dichloropropene | 10061-01-5 | 10 U | 0.2 | 10 | ug/L |
| Dibromochloromethane | 124-48-1 | 5 U | 1.0 | 5 | ug/L |
| Dibromomethane | 74-95-3 | 10 U | 1.0 | 10 | ug/L |
| Ethylbenzene | 100-41-4 | 5 U | 1.0 | 5 | ug/L |
| Iodomethane | 74-88-4 | 10 U | 2.0 | 10 | ug/L |
| m,p-Xylenes | 108-38-3/106-42-3 | 5 U | 2.0 | 5 | ug/L |
| Methylene chloride | 75-09-2 | 10 U | 2.0 | 10 | ug/L |
| o-Xylene | 95-47-6 | 5 U | 1.0 | 5 | ug/L |
| Styrene | 100-42-5 | 10 U | 1.0 | 10 | ug/L |
| Tetrachloroethene | 127-18-4 | 5 U | 1.0 | 5 | ug/L |

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# ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| Sample ID: | TB | Project: | Yadkin Co. Landfills |
| Lab #: | C602705-03 | Work Order #: | C602705 |
| Prep. Method: | EPA 5030B_MS | Matrix: | Water |
| Analyzed: | 08/29/06 By: spf | Unit: | ug/L |
| Anal. Method: | EPA 8260B | Dilution Factor: | 1 |
| Anal. Batch: | | | |
| QC Batch: | 6H29008 | | |

**Volatile Organic Compounds by GCMS**

| Parameter | CAS Number | Analytical Results | MRL | NC RDL | Units |
|---|---|---|---|---|---|
| Toluene | 108-88-3 | 5 U | 1.0 | 5 | ug/L |
| trans-1,2-Dichloroethene | 156-60-5 | 5 U | 1.0 | 5 | ug/L |
| trans-1,3-Dichloropropene | 10061-02-6 | 10 U | 0.2 | 10 | ug/L |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 100 U | 1.0 | 100 | ug/L |
| Trichloroethene | 79-01-6 | 5 U | 1.0 | 5 | ug/L |
| Trichlorofluoromethane | 75-69-4 | 5 U | 1.0 | 5 | ug/L |
| Vinyl acetate | 108-05-4 | 50 U | 2.0 | 50 | ug/L |
| Vinyl chloride | 75-01-4 | 10 U | 1.0 | 10 | ug/L |

| Surrogate Recovery | | Result | Spike Level | % Recovery | % Recovery Limits |
|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 54.0 | 50.0 | 108 % | 70-130 |
| Dibromofluoromethane | 1868-53-7 | 53.4 | 50.0 | 107 % | 73-138 |
| Toluene-d8 | 2037-26-5 | 50.7 | 50.0 | 101 % | 77-118 |

## QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GCMS - Quality Control** | | | | | | | | | | |
| *Batch 6H29008 - EPA 5030B_MS* | | | | | | | | | | |
| **Blank (6H29008-BLK1)** | | | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 09:48 | | | | | | |
| Acetone | 5.0 U | 5.0 | ug/L | | | | | | | |
| Acrylonitrile | 5.0 U | 5.0 | ug/L | | | | | | | |
| Benzene | 1.0 U | 1.0 | ug/L | | | | | | | |
| 2-Butanone | 5.0 U | 5.0 | ug/L | | | | | | | |
| 2-Hexanone | 5.0 U | 5.0 | ug/L | | | | | | | |
| Iodomethane | 2.0 U | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | 1.0 U | 1.0 | ug/L | | | | | | | |
| 4-Methyl-2-pentanone | 5.0 U | 5.0 | ug/L | | | | | | | |
| Bromochloromethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Trichloroethene | 1.0 U | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | 0.4 U | 0.4 | ug/L | | | | | | | |
| Bromoform | 1.0 U | 1.0 | ug/L | | | | | | | |
| Bromomethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Carbon disulfide | 5.0 U | 5.0 | ug/L | | | | | | | |
| Carbon tetrachloride | 1.0 U | 1.0 | ug/L | | | | | | | |
| Chlorobenzene | 1.0 U | 1.0 | ug/L | | | | | | | |
| Chloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Chloroform | 1.0 U | 1.0 | ug/L | | | | | | | |
| Chloromethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Dibromochloromethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromoethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Dibromomethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 | ug/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethene | 1.0 U | 1.0 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | 1.0 U | 1.0 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | 0.2 U | 0.2 | ug/L | | | | | | | |
| trans-1,3-Dichloropropene | 0.2 U | 0.2 | ug/L | | | | | | | |
| Ethylbenzene | 1.0 U | 1.0 | ug/L | | | | | | | |
| Methylene chloride | 2.0 U | 2.0 | ug/L | | | | | | | |
| Styrene | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Toluene | 1.0 U | 1.0 | ug/L | | | | | | | |

## QUALITY CONTROL

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by GCMS - Quality Control** | | | | | | | | | | |
| *Batch 6H29008 - EPA 5030B_MS* | | | | | | | | | | |
| **Blank (6H29008-BLK1) Continued** | | | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 09:48 | | | | | | |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | 1.0 U | 1.0 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | 1.0 U | 1.0 | ug/L | | | | | | | |
| Vinyl acetate | 2.0 U | 2.0 | ug/L | | | | | | | |
| Vinyl chloride | 1.0 U | 1.0 | ug/L | | | | | | | |
| m,p-Xylenes | 2.0 U | 2.0 | ug/L | | | | | | | |
| o-Xylene | 1.0 U | 1.0 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *52.0* | | *ug/L* | *50.0* | | *104* | *77-118* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *52.9* | | *ug/L* | *50.0* | | *106* | *70-130* | | | |
| *Surrogate: Dibromofluoromethane* | *50.8* | | *ug/L* | *50.0* | | *102* | *73-138* | | | |
| **LCS (6H29008-BS1)** | | | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 19:01 | | | | | | |
| Benzene | 8.99 | 1.0 | ug/L | 10.0 | | 90 | 69-115 | | | |
| Trichloroethene | 8.02 | 1.0 | ug/L | 10.0 | | 80 | 74-118 | | | |
| Chlorobenzene | 8.94 | 1.0 | ug/L | 10.0 | | 89 | 76-118 | | | |
| 1,1-Dichloroethene | 8.95 | 1.0 | ug/L | 10.0 | | 90 | 64-139 | | | |
| Toluene | 8.17 | 1.0 | ug/L | 10.0 | | 82 | 77-117 | | | |
| **Matrix Spike (6H29008-MS1)** | | **Source: C602706-01** | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 19:28 | | | | | | |
| Benzene | 22.5 | 1.0 | ug/L | 20.0 | 1.0 U | 112 | 53-150 | | | |
| Trichloroethene | 18.0 | 1.0 | ug/L | 20.0 | 0.970 | 85 | 64-124 | | | |
| Chlorobenzene | 18.2 | 1.0 | ug/L | 20.0 | 1.91 | 81 | 44-128 | | | |
| 1,1-Dichloroethene | 22.0 | 1.0 | ug/L | 20.0 | 1.0 U | 110 | 36-177 | | | |
| Toluene | 21.6 | 1.0 | ug/L | 20.0 | 5.54 | 80 | 40-161 | | | |
| **Matrix Spike Dup (6H29008-MSD1)** | | **Source: C602706-01** | | Prepared: 08/29/2006 08:38 Analyzed: 08/29/2006 19:55 | | | | | | |
| Benzene | 22.3 | 1.0 | ug/L | 20.0 | 1.0 U | 112 | 53-150 | 0.9 | 23 | |
| Trichloroethene | 18.4 | 1.0 | ug/L | 20.0 | 0.970 | 87 | 64-124 | 2 | 25 | |
| Chlorobenzene | 18.3 | 1.0 | ug/L | 20.0 | 1.91 | 82 | 44-128 | 0.5 | 22 | |
| 1,1-Dichloroethene | 22.0 | 1.0 | ug/L | 20.0 | 1.0 U | 110 | 36-177 | 0 | 30 | |
| Toluene | 21.7 | 1.0 | ug/L | 20.0 | 5.54 | 81 | 40-161 | 0.5 | 23 | |

**NOTES AND DEFINITIONS**

| | |
|---|---|
| U | Analyte included in the analysis, but not detected |

## Laboratory Certification Summary

| Analysis | Matrix | Cert ID | Cert Number |
|---|---|---|---|
| 8260B Appendix 1 | Water | NC | 591 |