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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Waste Management

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

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Closed Butner Landfill	State Road 1004 Butner, NC	39-02	.0500	Dec. 18-19, 2008

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

G. Van Ness Burbach, Ph.D., PG — Technical Consultant — (336) 323-0092

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — 8/27/08 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

Revised 10/2006

Prepared for:

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JEI Project Number 660.06, Task 24

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2008
Waste
Management

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2007

BUTNER LANDFILL

GRANVILLE COUNTY, NORTH CAROLINA
PERMIT NO. 39-02

AUGUST 2008

Prepared by:

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Second Semiannual Groundwater Report of 2007
Butner Landfill – Permit No. 39-02
Granville County, North Carolina

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1.0 INTRODUCTION

The Butner Landfill is a closed municipal solid waste (MSW) landfill located off Route 1004 near the town of Butner, in Granville County, North Carolina (Figure 1). The site is currently in an Assessment Monitoring Program. A Nature and Extent Study and an Assessment of Corrective Measures have been initiated. The facility has been closed since August 1998.

The Butner Landfill lies within the Piedmont physiographic province. The topography of the area consists of rolling hills that support farmland and forest. Drainage from in the area is generally to the south towards a tributary of Picture Creek, which flows into Lake Butner and eventually into the Neuse River. The majority of the landfill area is underlain by Carolina Slate Belt felsic volcanic rocks, which have been metamorphosed into greenish grey foliated tuffs. The southeastern portion of the site is underlain by Triassic Sanford Formation, which unconformably overlies the Carolina Slate Belt felsic volcanic rocks. There is no exposure of the Sanford Formation at the site; however, float material consisting of grey, coarse-grained sandstone with quartz pebbles was observed. Geologic descriptions were taken from GAI Consultants-NC, Inc. December 1993 *Groundwater and Surface Water Monitoring System* report.

Following is a summary of the monitoring history for the Butner Landfill:

- **Dec. 1997** - The facility entered Assessment Monitoring.
- **June 2003** – NC 2L exceedances for heptachlor in MW-2R and MW-3R initiated an Assessment of Corrective Measures (ACM).
- **Dec. 2004 & June 2005** – There were no NC 2L exceedances, so DENR agreed to put the ACM on hold pending future monitoring results. At first, DENR said the facility needed deed restrictions on adjoining property owned by the County, but this was apparently based on false information (the County did not own the property) so the requirement for deed restrictions was dropped.
- **Dec. 2006** – Confirmed NC 2L exceedances for VOCs in MW-2R & MW-3R.
- **June 14, 2007** - Granville County and JEI met with DENR on to discuss a strategy for performing a Nature and Extent Study (NES) and an ACM.
- **Nov. 2007** – Nature & Extent well NES-1 installed downgradient of MW-2R & MW-3R.

2.0 MONITORING PROGRAM

Groundwater and surface water monitoring at the Butner Landfill is completed in accordance with North Carolina Solid Waste Management Regulations (NCSWMR) §1634 (Assessment Monitoring Program) and the Transition Plan for this facility. Groundwater samples are collected semiannually and analyzed for all constituents listed in NCSWMR Appendix I plus detected Appendix II constituents during the fall event, and all NCSWMR Appendix II constituents during the spring event. Surface water samples are collected and sampled for Appendix I constituents during each sampling event.

The groundwater monitoring network at the site consists of one upgradient well (MW-1R) and five downgradient monitoring wells (MW-2R, MW-3R, MW-4, MW-5, and MW-6), as shown on Drawing 1. An additional well, NES-1, was installed as part of a Nature and Extent Study on November 14, 2007.

Two surface water samples have also been collected semiannually since September 1994. The points SW-1 and SW-2 are located respectively upstream and downstream of the facility, along an unnamed tributary of Picture Creek.

3.0 SECOND SEMIANNUAL SAMPLING EVENT OF 2007

3.1 Field Work

The second semiannual sampling event of 2007 occurred on December 18-19, 2007. All compliance wells and surface water points, plus the new nature and extent well, NES-1, were sampled in accordance with the NCSWMR. The sampling event included: 1) measuring water levels at each of the compliance monitoring wells; 2) inspecting the condition of each well; 3) purging each well; 4) collecting groundwater and surface water samples; and 5) transmitting the samples under chain-of-custody to a state-certified laboratory for analysis. Field sampling forms are included in Appendix A.

3.2 Laboratory Analyses

The groundwater and surface water samples were delivered to Pace Analytical Services, Inc. in Huntersville, North Carolina. Groundwater samples were analyzed for NCSWMR Appendix I constituents plus detected Appendix II constituents (gamma-BHC, heptachlor, 2,4-D, & tin). Surface water samples were analyzed for NCSWMR Appendix I constituents. The complete laboratory analytical data packages and chains of custody are included in Appendix A.

4.0 DATA ANALYSIS

4.1 Laboratory Results

The results of organic analyses for samples collected from the groundwater monitoring network at the Butner Landfill in December 2007 indicated benzene, chlorobenzene, and 1,4-dichlorobenzene at concentrations above the North Carolina Solid Waste Section Limits (SWSL). Benzene in MW-2R and 1,4-dichlorobenzene in MW-2R and MW-3R were reported at concentrations above the NC 2L Groundwater Standards.

Inorganic constituents detected above the SWSL during the December 2007 event include barium, nickel, and selenium. None of these inorganic constituents were detected at concentrations above NC 2L Standards.

The detected constituents from the December 2007 sampling event are summarized below. Tables 1 and 2 present summaries of historically detected inorganic and organic constituents, respectively. These results are generally consistent with previous events.

Detected Inorganic Constituents

Parameter	SWSL	NC2L	MW1R	MW2R	MW3R	MW4	MW5	MW6	NES-1	SW1	SW2	Blank
Arsenic	10	50	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND
Barium	100	2000	2.8 B	99.2	50 B	1.4 J	49.6 B	1.7 B	87.8	52.6 B	149	11.5
Chromium	10	50	ND	2.0 B	ND	ND	ND	ND	1.1 B	2.2 B	2.6 B	1.4 J
Cobalt	10	70*	2.5 B	ND	ND	2.0 B	**103**	2.6 B	8.0 B	4.2 B	1.2 B	1.8 J
Copper	10	1000	2.0 B	ND	8.6 B	3.8 B	7.0 B	0.73 B	5.8 B	5.3 B	ND	9.7
Nickel	50	100	ND	83.4	23.7	11.0	18.3	ND	11.4	6.0	31.5	ND
Selenium	10	50	ND	11.5	ND	ND	ND	ND	ND	ND	ND	ND
Silver	10	17.5	ND	0.57 J	0.60 J	0.55 J	ND	0.33 J	ND	ND	0.34 J	ND
Thallium	5.5	0.28*	ND	4.0 J	ND	ND	ND	ND	ND	3.6 J	ND	ND
Tin	100	-	ND	33.6	7.4	ND	ND	ND	ND	-	-	ND
Vanadium	25	3.5*	2.2 B	2.2 B	ND	15.7	3.0 B	1.2 B	4.0 J	3.3 J	1.4 B	0.62 J
Zinc	10	1050	4.3 B	14.3 B	6.3 B	ND	ND	ND	2.4 B	24.6 B	ND	98.3

All values in µg/L. J = Estimated concentration below the SWSL. B = Blank qualified concentration. Bold = SWSL & NC2L exceedance.
* = No NC2L Std., Value is groundwater protection standard (GPS). - = No NC2L Std. or GPS.

Detected Organic Constituents

Parameter	SWSL	NC2L	MW1R	MW2R	MW3R	MW4	MW5	MW6	NES-1	SW1	SW2	Blank
Acetone	100	700	ND	ND	ND	ND	ND	ND	ND	12.7B	ND	4.5 J
Benzene	1	1	ND	**1.8**	0.48 J	0.26 J	ND	ND	ND	ND	ND	ND
Chlorobenzene	3	50	ND	17.3	16.9	4.7	ND	ND	ND	ND	ND	ND
Chloroethane	10	2800	ND	1.9	1.9	1.5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	24	ND	1.6	2.0	0.37 J	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1	1.4	ND	**3.0**	**2.7**	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	70	ND	ND	ND	0.57 J	ND	ND	ND	ND	ND	ND
Toluene	1	1000	ND	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	4	530	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND

All values in µg/L. J = Estimated concentration below the SWSL. B = Blank qualified concentration. Bold = SWSL & NC2L exceedance.

4.2 Statistical Analysis

Monitoring well MW-1R is designated as the background well for the facility. Facility background data used to evaluate the December 2007 groundwater monitoring data include all data collected for well MW-1R from September 1994 through this event.

The background data were evaluated through the use of the Shapiro-Wilk Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-Parametric Prediction Limits, and Poisson Prediction Limits as appropriate. Background data, tests for normality, outliers, Aitchison's adjustment, tolerance interval, or prediction limits are used, as appropriate based on the background data. The statistical test by which downgradient data are compared to facility background data is based upon the nature of the data and the number of data values that are less than the laboratory limit of detection. All statistical tests are evaluated at the 0.05 level of significance, 95% confidence level, and are conducted as one-tailed tests. Table 3

presents a summary of the statistical analysis results. The detailed statistical calculation sheets are included in Appendix B.

The results for samples collected from the groundwater monitoring network at the Butner Landfill in December 2007 were statistically compared to background data collected for the facility. The statistical analyses calculations and results for the December 2007 sampling event are summarized in Table 3 and details are presented in the *Statistical Analyses* section of this report. Results of the statistical analyses are discussed below.

4.2.1 Organic Constituents

Downgradient values were compared directly to the SWSL for each detected organic constituent in a non-statistical manner. Organic constituents detected above the SWSL include benzene, chlorobenzene, and 1, 4-dichlorobenzene. Benzene in MW-2R and 1, 4-dichlorobenzene in MW-2R and MW-3R were reported at concentrations above the NC 2L Groundwater Standards. No organic constituents were detected in surface water samples SW-1 and SW-2 above the method detection limits or SWSL.

4.2.2 Inorganic Constituents

Several inorganic constituents were detected during the December 2007 event. Background concentrations for inorganic constituents were determined using the statistical procedures as discussed above. Downgradient values were compared to upper tolerance limits, non-parametric prediction limits, or the Poisson prediction limit as summarized in Appendix B and in Table 3. Inorganic constituents barium, cobalt, nickel, and selenium were detected above the SWSL; however, none of these detections represent statistically significant increases (SSI's) over background. Vanadium and cobalt were the only inorganic constituents detected at concentrations above Groundwater Protection Standards (GPS).

5.0 SITE HYDROGEOLOGY

Depth to groundwater was measured in all compliance monitoring wells at the site prior to sampling. The groundwater elevations were calculated relative to the surveyed measuring point (top of casing) for each monitoring well. The groundwater elevations are summarized in Table 4.

The groundwater elevation contours shown in Drawing 1 are based on data from the December 2007 sampling event. Groundwater flow beneath the facility is primarily to the southeast. Horizontal groundwater gradients along representative flow paths were estimated from the December 2007 groundwater contours shown on Drawing 1 and are summarized in Table 5. Horizontal gradients across the site ranged from 0.0392 to 0.0565 ft/ft, with an average of approximately 0.0503 ft/ft. This is consistent with previous estimates.

Linear groundwater flow velocities for wells screened in saprolite were computed using the following modified Darcy equation: $V = Ki/n$, where V = average linear velocity (feet/year),

K = hydraulic conductivity (feet/day), ***i*** = horizontal hydraulic gradient, and ***n*** = effective porosity. The geometric mean of hydraulic conductivities from slug-tests conducted in 1995 (GAI, 1995) were used in these calculations, along with an estimated effective porosity of 0.3 (30%) for regolith. Although the regolith and bedrock are hydraulically connected, the effective porosity generally decreases with depth into the underlying fractured bedrock.

The average estimated linear groundwater flow velocity under the facility was calculated at approximately 3.43 feet/year (Table 5). The linear velocity equation and resulting rates make the simplified assumptions of a homogeneous and isotropic aquifer. This equation can over estimate velocity when applied to heterogeneous and/or anisotropic conditions such as are believed to exist at this site.

6.0 CONCLUSIONS

During the December 2007 sampling event, six organic and four inorganic constituents were detected in one or more of the downgradient compliance wells at concentrations above the SWSL. Benzene and 1,4-dichlorobenzene were reported at concentrations above the NC 2L Groundwater Standards. Vanadium and cobalt were the only inorganic constituents detected at concentrations above Groundwater Protection Standards. None of the inorganic detections were considered to be SSI's.

Analysis of groundwater elevations indicates a southeast groundwater flow consistent with previous events. The monitoring network remains sufficient to monitor groundwater flow at this site.

The Butner Landfill remains in Assessment Monitoring and Corrective Action. The next sampling event is scheduled for July 2008.

7.0 ACRONYMS

The following acronyms may or may not be used in the text.

ACM	Assessment of Corrective Measures (report)
AOC	Area of Concern
C&D	Construction and Demolition Waste
CAP	Corrective Action Plan (report)
CASE	Corrective Action Status Evaluation (report)
COC	Contaminant of Concern
DENR	North Carolina Department of Environment and Natural Resources
DL	Detection Limit (for laboratory data)
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
GPS	Groundwater Protection Standards
JEI	Joyce Engineering, Inc.
LFG	Landfill Gas
MNA	Monitored Natural Attenuation
MSW	Municipal Solid Waste
MW	Monitoring Well
NC-2B	North Carolina Surface Water Standards found in 15A NCAC 2B.0101
NC-2L	North Carolina Groundwater Standards found in 15A NCAC 2L.0202
NCAC	North Carolina Administrative Code
NCSWMR	North Carolina Solid Waste Management Regulations (15A NCAC 13B.1600)
ND	Not Detected (for laboratory data)
NES	Nature and Extent Study (report)
O&M	Operations and Maintenance
QL	Quantitation Limit (for laboratory data)
QRA	Quantitative Risk Assessment (report)
RL	Reporting Limit (for laboratory data)
SWQS	Surface Water Quality Standards
SWS	DENR Division of Waste Management, Solid Waste Section
SWSL	North Carolina Solid Waste Section Reporting Limits (for laboratory data)
VOC	Volatile Organic Compound
WQMP	Water Quality Monitoring Plan (report)

TABLE 2
Detected Organic Constituents

Constituent		Concentration (µg/L)										
NC 2L Standard (µg/L)	Date	RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Acetone	9/8/1994	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[700]	12/1/1994	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	100	244 B	109 B	ND	130 B	128 B	476 B	-	168 B	337 B	479
	6/13/2002	100	ND	ND	ND	ND	ND	ND	-	-	-	-
	6/13/2002	100	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	100	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	100	ND	ND	ND	ND	ND	ND	ND	12.9 B	ND	4.5 J
Benzene	9/8/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[1]	12/1/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	3	ND	1.5	ND	ND	ND	ND	-	ND	ND	ND
Resample:	2/23/2007	3	-	1.2	-	-	-	-	-	-	-	ND
	7/12/2007	1	ND	1.9	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	1	ND	1.8	0.48 J	0.26 J	ND	ND	ND	ND	ND	ND
Carbon Disulfide	9/8/1994	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[700]	12/1/1994	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	100	ND	64.0	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	100	ND	5.0	8.0	ND	ND	ND	-	ND	ND	-
	5/20/1998	100	ND	7.5	6.2	ND	ND	ND	-	ND	ND	-
	11/19/1998	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	100	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	9/8/1994	5	ND	10.0	7.0	ND	ND	ND	-	ND	ND	-
[50]	12/1/1994	5	ND	ND	7.0	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	13.0	8.0	6.0	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	12.0	9.0	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	14.0	8.0	9.0	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	15.0	9.0	10.0	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	15.0	ND	11.0	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	19.0	11.0	14.0	ND	ND	-	ND	ND	-
	12/1/1997	5	ND	17.0	9.0	14.0	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	20.0	8.6	12.0	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	17.2	9.2	10.0	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	14.0	10.0	11.0	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	16.0	10.0	8.0	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	17.0	11.0	10.0	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	16.0	12.0	9.0	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	16.0	13.0	6.0	ND	ND	-	ND	ND	-
	10/27/2001	0.5	ND	17.0	12.0	9.0	ND	ND	-	ND	ND	-
	6/13/2002	0.5	ND	16.0	11.0	8.0	ND	ND	-	-	-	-
	11/19/2002	0.5	ND	18.0	15.0	9.0	ND	ND	-	ND	ND	-
	6/27/2003	0.5	ND	17.7	13.3	7.4	ND	ND	-	ND	7.2	ND
	12/30/2003	5	ND	20.0	15.0	6.1	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	18.0	15.0	9.9	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	19.0	16.0	9.4	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	15.0	13.0	8.0	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	18.0	16.0	5.0	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	16.5	10.5	7.8	ND	ND	-	ND	ND	ND
	12/29/2006	3	ND	17.0	17.0	4.2	ND	ND	-	ND	ND	ND
	7/12/2007	3	ND	17.0	16.0	ND	ND	ND	-	ND	-	ND
	12/19/2007	3	ND	17.3	16.9	4.7	ND	ND	ND	ND	ND	ND

TABLE 2
Detected Organic Constituents

Constituent		Concentration (µg/L)										
NC 2L Standard (µg/L)	Date	RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Chloroethane	9/8/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[2800]	12/1/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	10	ND	5.0	2.0	2.0	ND	ND	-	ND	ND	-
	5/20/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	ND	2.2	1.9	ND	ND	ND	-	ND	ND	ND
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	10	ND	1.9	1.9	1.5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	9/8/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[24]	12/1/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	
	12/1/1997	5	ND	3.0	2.0	1.0	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	2.4	2.3	ND	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	5	ND	1.5	2.3	ND	ND	ND	-	ND	ND	ND
	7/12/2007	5	ND	1.4 J	1.7 J	0.31 J	ND	ND	-	ND	-	ND
	12/19/2007	5	ND	1.6	2.0	0.37 J	ND	ND	ND	ND	-	ND
1,4-Dichlorobenzene	9/8/1994	5	ND	ND	5.0	ND	ND	ND	-	ND	ND	-
[1.4]	12/1/1994	5	ND	ND	5.0	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	8.0	6.0	ND	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	7.0	6.0	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	7.0	6.0	ND	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	7.6	6.2	ND	ND	ND	-	ND	ND	-
	12/1/1997	5	ND	6.0	5.0	4.0	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	7.6	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	3.7	2.8	ND	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	5.0	6.0	ND	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	ND	5.0	6.0	ND	ND	-	ND	ND	-
	10/27/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	3	ND	3.0	3.3	ND	ND	ND	-	ND	ND	ND
Resample	2/23/2007	3	-	3.2	3.3	-	-	-	-	-	-	ND
	7/12/2007	1	ND	3.3	2.9	0.31 J	ND	ND	-	ND	-	ND
	12/19/2007	1	ND	3.0	2.7	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-Butene	9/8/1994	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[---]	12/1/1994	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	100	ND	ND	5.1	ND	ND	ND	-	ND	ND	-
	11/19/1998	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/2002	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	100	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2
Detected Organic Constituents

Constituent		Concentration (µg/L)										
NC 2L Standard (µg/L)	Date	RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
1,1-Dichloroethane	9/8/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[70]	12/1/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	5	ND	ND	1.0	ND	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	5	ND	ND	0.36 J	0.52 J	ND	ND	-	ND	ND	ND
	12/19/2007	5	ND	ND	ND	0.57 J	ND	ND	ND	ND	ND	ND
Toluene	9/8/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[1000]	12/1/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	ND	8.1	ND	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	1	ND	0.49 B	ND	ND	ND	ND	-	ND	-	0.34 J
	12/19/2007	1	ND	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	9/8/1994	10	ND	ND	12.0	ND	ND	ND	-	ND	ND	-
[0.015]	12/1/1994	10	ND	ND	13.0	ND	ND	ND	-	ND	ND	-
	2/9/1995	10	ND	ND	15.0	ND	ND	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	14.0	ND	ND	ND	-	ND	ND	-
	11/15/1995	10	ND	ND	11.0	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	10	ND	ND	7.0	4.0	ND	ND	-	ND	ND	-
	5/20/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	5.5	ND	ND	0.98 J	ND	ND	ND	-	ND	ND	ND
Resample:	2/23/2007	5.5	-	-	1.0	-	-	-	-	-	-	ND
	7/12/2007	1	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	9/8/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[530]	12/1/1994	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	5	ND	1.4	ND	ND	ND	ND	-	ND	-	ND
	7/12/2007	4	ND	1.2 J	ND	ND	ND	ND	-	ND	ND	ND
	12/19/2007	4	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2
Detected Organic Constituents

Constituent	Date	Concentration (µg/L)										
NC 2L Standard (µg/L)		RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Fluoride	12/1/1997	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[1.4]	11/19/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	10/26/2000	10	-	ND	ND	ND	ND	-	-	-	-	-
	4/18/2001	10	-	3.2	ND	ND	ND	-	-	-	-	-
	10/27/2001	5	ND	8.1	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	0.5	-	8.1	1.3	ND	ND	-	-	-	-	-
	6/13/2002	5	ND	ND	ND	ND	ND	ND	-	-	-	-
	6/13/2002	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	11/19/2002	5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	5	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	-	-	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2005	-	-	-	-	-	-	-	-	-	-	-
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2006	-	-	-	-	-	-	-	-	-	-	-
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	-	-	-	-	-	-	-	ND	-	-	-
Gamma-BHC	12/1/1997	0.05	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[0.2]	11/19/1998	0.05	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	0.05	ND	ND	ND	ND	ND	ND	-	-	-	-
	10/26/2000	0.05	-	ND	ND	ND	ND	-	-	-	-	-
	4/18/2001	0.05	-	ND	ND	ND	ND	-	-	-	-	-
	10/27/2001	-	-	-	-	-	-	-	-	-	-	-
	6/13/2002	0.05	ND	ND	ND	ND	ND	ND	-	-	-	-
	6/13/2002	0.05	-	ND	ND	ND	ND	-	-	-	-	-
	6/13/2002	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	11/19/2002	-	-	-	-	-	-	-	-	-	-	-
	6/27/2003	1.05	ND	0.085	ND	ND	ND	ND	-	-	-	ND
	12/30/2003	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	6/30/2004	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2004	0.05	ND	ND	ND	ND	ND	ND	-	NR	NR	ND
	6/29/2005	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2005	0.05	ND	ND	ND	ND	ND	ND	-	NR	NR	ND
	6/28/2006	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2006	0.05	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	0.05	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	12/1/1997	0.05	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[0.0078]	11/19/1998	0.05	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	0.05	ND	ND	ND	ND	ND	ND	-	-	-	-
	10/26/2000	0.05	-	ND	ND	ND	ND	-	-	-	-	-
	4/18/2001	0.05	-	ND	ND	ND	ND	-	-	-	-	-
	10/27/2001	-	-	-	-	-	-	-	-	-	-	-
	6/13/2002	1.05	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	-	-	-	-	-	-	-	-	-	-	-
	6/27/2003	1.05	ND	0.03	0.17	ND	ND	ND	-	-	-	ND
	12/30/2003	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	6/30/2004	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2004	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	6/29/2005	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2005	0.05	ND	ND	ND	ND	ND	ND	-	NR	NR	ND
	6/28/2006	0.05	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2006	0.05	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	0.05	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. RL = Reporting Limit (Laboratory Quantitation Limit for 09/08/94 - 06/27/03; NC PQL for 12/30/03 - 6/28/06; SWSL for 12/29/06 - present).
2. J = Estimated concentration below the RL.
3. B = Blank-qualified data
4. ND = not detected above method detection limit (after 12/29/06) or RL (prior to 12/29/06).
5. - = no sample for that date or data not available.
6. All concentrations are reported in micrograms per liter (µg/L) = parts per billion.
7. Shaded values are above the NC2L Groundwater Standards.
8. NC 2L = 15A NCAC 2L Groundwater Standards, updated for amended standards effective April 1, 2005
9. [---] = no NC 2L Standard listed for this constituent.
10. Results in parentheses represent results from a resampling event.
11. No sample was collected from surface point SW-2 during the July 2007 event due to dry conditions.

TABLE 1
Detected Inorganic Constituents

Constituent		Concentration (µg/L)										
NC 2L Standard (µg/L)	Date	RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Antimony	9/8/1994	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[---]	12/1/1994	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	30	ND	80.0	38.0	32.0	33.0	31.0	-	ND	ND	-
	10/26/2000	30	30.0	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	30	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	30	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	30	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	30	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	30	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	30	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	30	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	30	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	6	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	6	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	9/8/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[50]	12/1/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	10	6.0	15.0	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	10	ND	5.0	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	2.0 J	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	10	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND
Barium	9/8/1994	500	ND	270	ND	ND	830	860	-	ND	ND	-
[2000]	12/1/1994	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	500	ND	ND	ND	ND	510	ND	-	ND	ND	-
	3/2/1995	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	500	ND	82.0	30.0	ND	15.0	ND	-	37.0	37.0	-
	6/17/1997	500	200	320	37.0	17.0	210	31.0	-	37.0	62.0	-
	12/1/1997	500	61.0	180	43.0	46.0	220	33.0	-	53.0	45.0	-
	5/20/1998	500	30.0	150	45.0	13.0	180	22.0	-	24.0	69.0	-
	11/19/1998	500	48.0	120	42.0	ND	380	12.0	-	ND	100	-
	7/21/1999	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	500	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	500	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	500	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	500	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	500	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	500	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	500	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	500	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	100	5.2 J	120	64.9	1.5 J	64.1	1.8 J	-	37.5	40.6	0.20 J
	7/12/2007	100	2.5 J	129	65.7 J	1.1 J	77.0 J	1.3 J	-	33.3 J	-	ND
	12/19/2007	100	2.8 B	99.2	50.0 B	1.4 B	49.6 B	1.7 B	87.8	52.6 B	149	11.7
Beryllium	9/8/1994	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[---]	12/1/1994	2	ND	ND	ND	ND	4.0	ND	-	ND	ND	-
	2/9/1995	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	2	ND	ND	ND	ND	2.0	ND	-	ND	ND	-
	11/15/1995	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	2	ND	ND	ND	ND	6.0	ND	-	ND	ND	-
	11/22/1996	2	ND	ND	ND	ND	3.0	ND	-	ND	ND	-
	6/17/1997	2	2.0	3.0	ND	ND	1.0	ND	-	ND	ND	-
	12/1/1997	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	2	ND	ND	ND	ND	2.0	ND	-	ND	ND	-
	7/21/1999	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	2	ND	12.0	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	2	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	2	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	2	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	1	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1
Detected Inorganic Constituents

Constituent	Date	Concentration (µg/L)										
NC 2L Standard (µg/L)		RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Cadmium	9/8/1994	1	ND	ND	ND	ND	ND	4.0	-	ND	ND	-
[1.75]	12/1/1994	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	1	ND	3.0	1.0	ND	ND	ND	-	ND	ND	-
	12/1/1997	1	ND	2.0	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	1	ND	3.0	3.0	ND	2.0	ND	-	ND	ND	-
	5/10/2000	1	5.0	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	1	ND	2.0	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	1	ND	11.0	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	1	ND	2.0	ND	ND	ND	ND	-	-	-	-
	11/19/2002	1	2.0	2.0	ND	ND	2.0	ND	-	ND	ND	-
	6/27/2003	1	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	1	ND	1.0	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	1	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	1	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	9/8/1994	10	8.0	44.0	ND	6.0	48.0	80.0	-	ND	ND	-
[50]	12/1/1994	10	14.0	ND	ND	ND	18.0	ND	-	ND	ND	-
	2/9/1995	10	14.0	ND	ND	10.0	ND	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	10	13.0	13.0	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	33.0	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	10	3.0	ND	ND	ND	ND	3.0	-	ND	ND	-
	6/17/1997	10	57.0	43.0	ND	3.0	2.0	6.0	-	ND	3.0	-
	12/1/1997	10	29.0	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	10	10.0	3.0	ND	ND	12.0	ND	-	ND	ND	-
	11/19/1998	10	17.0	3.0	ND	ND	5.0	ND	-	ND	ND	-
	7/21/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	12.0	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	10	ND	2.0 B	ND	ND	ND	ND	1.1 B	2.2 B	2.6 B	1.4 J
Cobalt	9/8/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[70*]	12/1/1994	10	11.0	ND	13.0	16.0	22.0	ND	-	ND	ND	-
	2/9/1995	10	20.0	14.0	ND	48.0	39.0	ND	-	ND	ND	-
	3/2/1995	10	16.0	21.0	ND	29.0	121.0	ND	-	ND	ND	-
	11/15/1995	10	20.0	21.0	ND	ND	27.0	ND	-	ND	ND	-
	5/28/1996	10	30.0	16.0	ND	ND	122	ND	-	ND	ND	-
	11/22/1996	10	6.0	13.0	ND	4.7	93.0	ND	-	ND	ND	-
	6/17/1997	10	130	38.0	ND	6.0	45.0	3.0	-	ND	ND	-
	12/1/1997	10	32.0	21.0	ND	12.0	36.0	4.0	-	ND	ND	-
	5/20/1998	10	15.0	16.0	2.0	9.0	100	3.0	-	2.0	2.0	-
	11/19/1998	10	21.0	16.0	2.0	7.0	180	3.0	-	ND	3.0	-
	7/21/1999	10	ND	16.0	ND	ND	100	ND	-	ND	ND	-
	11/16/1999	10	ND	15.0	ND	ND	38.0	ND	-	ND	ND	-
	5/10/2000	10	ND	17.0	ND	ND	61.0	ND	-	ND	ND	-
	10/26/2000	10	ND	15.0	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	27.0	ND	ND	74.0	ND	-	ND	ND	-
	10/27/2001	10	ND	12.0	ND	ND	47.0	ND	-	ND	22.0	-
	6/13/2002	10	ND	14.0	ND	ND	251	ND	-	-	-	-
	11/19/2002	10	ND	10.0	ND	ND	57.0	ND	-	ND	ND	-
	6/27/2003	10	ND	15.0	ND	ND	75.0	ND	-	ND	10.0	-
	12/30/2003	10	ND	17.0	ND	ND	52.0	ND	-	ND	ND	ND
	6/30/2004	10	ND	16.0	ND	ND	31.0	ND	-	ND	ND	ND
	12/29/2004	10	ND	11.0	ND	ND	46.0	ND	-	ND	ND	ND
	6/29/2005	10	ND	11.0	ND	ND	43.0	ND	-	ND	ND	ND
	12/29/2005	10	ND	12.0	ND	ND	30.0	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	72.5	ND	-	ND	ND	ND
	12/29/2006	10	ND	11.4	ND	ND	37.5	ND	-	ND	ND	ND
	7/12/2007	10	ND	11.8	ND	2.7	58.4	ND	-	ND	-	ND
	12/19/2007	10	2.5 B	ND	ND	2.0	B [illegible] 103	2.6 B	8.0 B	4.2 B	1.2 B	1.8 J
Copper	9/8/1994	200	ND	ND	ND	ND	ND	660	-	ND	ND	-
[1000]	12/1/1994	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	200	ND	ND	32.0	13.0	100	ND	-	ND	ND	-
	6/17/1997	200	34.0	350	13.0	37.0	28.0	77.0	-	ND	ND	-
	12/1/1997	200	19.0	72.0	14.0	88.0	15.0	34.0	-	ND	ND	-
	5/20/1998	200	12.0	48.0	380	41.0	53.0	28.0	-	ND	ND	-
	11/19/1998	200	10.0	ND	410	28.0	53.0	14.0	-	ND	ND	-
	7/21/1999	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	200	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	200	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	200	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	200	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	200	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	200	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	200	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	200	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	ND	ND	11.3	5.50 J	10.4	1.99 B	-	1.30 B	1.10 B	0.60 J
	7/12/2007	10	ND	ND	13.4	7.90	2.6 J	ND	-	ND	-	ND
	12/19/2007	10	2.0 B	ND	8.6 B	3.8 B	7.0 B	0.73 B	5.8 B	5.3 B	ND	9.8

TABLE 1
Detected Inorganic Constituents

Constituent	Date	Concentration (µg/L)										
NC 2L Standard (µg/L)		RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Lead	9/8/1994	10	ND	13.0	ND	ND	30.0	36.0	-	ND	ND	-
[15]	12/1/1994	10	11.0	ND	ND	ND	36.0	ND	-	ND	ND	-
	2/9/1995	10	ND	ND	ND	10.0	37.0	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	ND	ND	44.0	ND	-	ND	ND	-
	11/15/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	ND	ND	ND	ND	42.0	ND	-	ND	ND	-
	11/22/1996	10	ND	ND	ND	ND	13.0	ND	-	ND	ND	-
	6/17/1997	10	20.0	29.0	ND	ND	13.0	ND	-	ND	ND	-
	12/1/1997	10	8.0	14.0	ND	5.0	14.0	ND	-	ND	ND	-
	5/20/1998	10	ND	6.0	ND	6.0	21.0	ND	-	ND	8	-
	11/19/1998	10	5.0	ND	ND	ND	58.0	ND	-	ND	ND	-
	7/21/1999	10	ND	12.0	14.0	ND	ND	ND	-	ND	10	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	11.0	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	12.0	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	ND	ND	ND	ND	ND	2.1 J	-	ND	ND	ND
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	12/1/1997	0.5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[1.05]	11/19/1998	0.5	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	0.5	ND	0.59	0.65	0.65	0.76	ND	-	-	-	-
	5/10/2000	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	10/26/2000	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	4/18/2001	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	6/13/2002	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	6/27/2003	0.5	-	ND	ND	ND	ND	-	-	-	-	-
	12/30/2003	0.5	-	-	-	-	-	-	-	-	-	-
	6/30/2004	0.5	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2004	-	-	-	-	-	-	-	-	-	-	-
	6/29/2005	0.5	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2005	-	-	-	-	-	-	-	-	-	-	-
	6/28/2006	2	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2006	-	-	-	-	-	-	-	-	-	-	-
	7/12/2007	0.2	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	-	-	-	-	-	-	-	ND	-	-	-
Nickel	9/8/1994	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[100]	12/1/1994	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	50	ND	72	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	50	ND	100	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	50	ND	61.0	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	50	ND	85.0	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	50	ND	72.0	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	50	75	98.0	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	50	ND	89.0	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	50	ND	91.0	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	50	ND	83.0	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	50	ND	109	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	50	ND	122	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	50	ND	104	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	50	ND	93.0	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	50	ND	107	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	50	ND	92.0	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	50	ND	98.0	ND	ND	ND	ND	-	-	-	-
	11/19/2002	50	ND	74.0	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	50	ND	85.0	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	50	ND	100	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	50	ND	120 (81.0)	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	50	ND	100	ND	ND	ND	ND	-	ND	50.0 (ND)	ND
	6/29/2005	50	ND	150 (92.0)	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	50	ND	96.0	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	50	ND	88.7	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	50	ND	94.7	30.1	14.2	8.9 J	ND	-	ND	2.9 J	ND
	7/12/2007	50	ND	99.0	30.6 J	13.9 J	13.7 J	ND	-	3.8 J	-	ND
	12/19/2007	50	ND	83.4	23.7	11.0	18.3	ND	11.4	6.0	31.5	ND
Selenium	9/8/1994	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[50]	12/1/1994	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	20	ND	ND	ND	ND	36.0	ND	-	ND	ND	-
	11/16/1999	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	20	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	20	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	20	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	20	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	20	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	20	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	20	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	20	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	10	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1
Detected Inorganic Constituents

Constituent		Concentration (µg/L)										
NC 2L Standard (µg/L)	Date	RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Silver	9/8/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[17.5]	12/1/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	10	ND	8.0	ND	ND	ND	3	-	ND	ND	-
	5/20/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	15.0	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	10	ND	ND	ND	ND	ND	ND	-	2.2 J	-	ND
	12/19/2007	10	ND	0.57 J	0.60 J	0.55 J	ND	0.33 J	ND	ND	0.34 J	ND
Thallium	9/8/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[0.28*]	12/1/1994	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	2/9/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/15/1995	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/17/1997	10	ND	3.0	ND	ND	ND	ND	-	ND	ND	-
	12/1/1997	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/20/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/19/1998	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	7/21/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	10	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	10	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	10	ND	10 J (ND)	ND	ND	ND	ND	-	ND	10.0 (ND)	ND
	6/29/2005	10	ND	22.0 (10.0)	13.0 (24.0)	ND	ND	ND	-	ND	ND	ND
	12/29/2005	10	ND	23.0	20.0	ND	ND	ND	-	ND	ND	ND
	6/28/2006	10	ND	25.7	12.6	ND	ND	ND	-	ND	ND	ND
	12/29/2006	6	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	7/12/2007	5.5	ND	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	5.5	ND	[illegible]	ND	ND	ND	ND	ND	5.6 J	ND	ND
Tin	12/1/1997	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
[-]	11/19/1998	100	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	100	ND	ND	ND	ND	ND	ND	-	-	-	-
	10/26/2000	100	-	ND	ND	ND	ND	-	-	-	-	-
	4/18/2001	100	-	ND	ND	ND	ND	-	-	-	-	-
	10/27/2001	100	-	-	-	-	-	-	-	-	-	-
	6/13/2002	100	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	100	-	-	-	-	-	-	-	-	-	-
	6/27/2003	100	ND	149	127	ND	ND	ND	-	ND	ND	-
	12/30/2003	100	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	100	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2004	100	ND	ND	ND	ND	ND	ND	-	-	-	ND
	6/29/2005	100	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2005	100	ND	ND	ND	ND	ND	ND	-	NR	NR	ND
	6/28/2006	100	ND	ND	ND	ND	ND	ND	-	-	-	ND
	12/29/2006	100	ND	41.1	14.4	3.2 J	ND	ND	-	-	-	ND
	7/12/2007	100	ND	35.2 J	13.9 J	5.2 J	ND	ND	-	ND	-	ND
	12/19/2007	100	ND	33.6	7.4	ND	ND	ND	ND	-	-	ND
Vanadium	9/8/1994	40	ND	ND	ND	ND	ND	130	-	ND	ND	-
[13.5*]	12/1/1994	40	63.0	ND	ND	45.0	ND	ND	-	ND	ND	-
	2/9/1995	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	3/2/1995	40	41.0	ND	ND	45.0	ND	ND	-	ND	ND	-
	11/15/1995	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	40	83.0	ND	ND	ND	ND	ND	-	ND	ND	-
	11/22/1996	40	7.0	17	ND	21.0	ND	ND	-	ND	ND	-
	6/17/1997	40	450	560	ND	19.0	ND	ND	-	ND	ND	-
	12/1/1997	40	62.0	88.0	ND	41.0	ND	10.0	-	ND	ND	-
	5/20/1998	40	25.0	15.0	ND	10.0	5.0	ND	-	ND	ND	-
	11/19/1998	40	33.0	29.0	5.0	16.0	9.0	5.0	-	ND	ND	-
	7/21/1999	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	40	ND	ND	ND	ND	ND	ND	-	-	-	-
	11/19/2002	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	40	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	40	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	40	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	40	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/29/2005	40	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2005	40	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	40	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	25	2.7 J	ND	ND	14.5	ND	1.0 J	-	1.6 J	2.0 J	ND
	7/12/2007	25	ND	ND	ND	19.4 J	ND	ND	-	4.6 J	-	ND
	12/19/2007	25	2.2 B	2.2 B	ND	15.7	3.0 B	1.2 B	4.0 J	3.3 J	1.4 B	0.62 J

TABLE 1
Detected Inorganic Constituents

Constituent	Date	Concentration (µg/L)										
NC 2L Standard (µg/L)		RL	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6	NES-1	SW-1	SW-2	Blanks
Zinc	9/8/1994	50	110	160	ND	ND	320	430	-	ND	ND	-
[1050]	12/1/1994	50	132	ND	ND	70	164	ND	-	ND	ND	-
	2/9/1995	50	144	89	ND	91	79	74	-	ND	ND	-
	3/2/1995	50	67	ND	ND	ND	111	ND	-	ND	ND	-
	11/15/1995	50	ND	50	ND	ND	ND	ND	-	ND	ND	-
	5/28/1996	50	136	ND	ND	ND	122	ND	-	ND	ND	-
	11/22/1996	50	79.0	48.0	28.0	ND	38.0	ND	-	11.0	ND	-
	6/17/1997	50	370	410	33.0	39.0	36.0	69.0	-	ND	ND	-
	12/1/1997	50	140	110	11.0	45.0	34.0	30.0	-	20.0	ND	-
	5/20/1998	50	70.0	63.0	23.0	31.0	47.0	34.0	-	20.0	28.0	-
	11/19/1998	50	61.0	33.0	21.0	17.0	53.0	10.0	-	ND	ND	-
	7/21/1999	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	11/16/1999	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	5/10/2000	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/26/2000	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	4/18/2001	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	10/27/2001	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/13/2002	50	ND	ND	ND	ND	382	ND	-	-	-	-
	11/19/2002	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	6/27/2003	50	ND	ND	ND	ND	ND	ND	-	ND	ND	-
	12/30/2003	50	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/30/2004	50	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2004	50	ND	ND	ND	66.0	ND	ND	-	ND	ND	ND
	6/29/2005	50	ND	54.0	56.0	ND	ND	ND	-	ND	ND	ND
	12/29/2005	50	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	6/28/2006	50	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
	12/29/2006	50	8.0 J	ND	ND	4.1 J	4.3 J	4.1 J	-	ND	ND	ND
	7/12/2007	10	9.6 J	ND	ND	ND	ND	ND	-	ND	-	ND
	12/19/2007	10	4.3 B	14.3 B	6.3 B	ND	ND	ND	2.4 B	24.6 B	ND	102

Notes:

1. RL = Reporting Limit (Laboratory Quantitation Limit for 09/08/94 - 06/27/03; NC PQL for 12/30/03 - 6/28/06; SWSL for 12/29/06 - present).
2. J = Estimated concentration below the RL.
3. B = Blank-qualified data.
4. ND = not detected above method detection limit (after 12/29/06) or RL (prior to 12/29/06).
5. - = no sample for that date or data not available.
6. All concentrations are reported in micrograms per liter (µg/L) = parts per billion.
7. Shaded values are above the NC2L Groundwater Standards.
8. NC 2L = 15A NCAC 2L Groundwater Standards, updated for amended standards effective April 1, 2005.
9. [n.n*] = no NC 2L Standard listed for this constituent - Value is NC Groundwater Protection Standard (GPS).
10. [-] = no NC 2L Standard or GPS listed for this constituent.
10. Results in parentheses represent results from a resampling event.
11. No sample was collected from surface point SW-2 during the July 2007 event due to dry conditions.

TABLE 3
Summary of Statistical Analyses
December 2007 Sampling Event

Analyte	Data Distribution	Statistical Method used to Establish Background	Background (µg/L)	NC2L (*GPS) (µg/L)	SSI above Background	Above NC 2L or GPS
Barium	79% Truncated	Nonparametric Prediction Limit	200	2000	None	None
Cobalt	64% Truncated	Nonparametric Prediction Limit	130	70 *	None	**MW-5**
Copper	# n/a	# n/a	# n/a	1000	None	None
Nickel	97% Truncated	Upper Poisson Prediction Limit	173	100	None	None
Silver	# n/a	# n/a	# n/a	17.5	None	None
Selenium	100% Truncated	Upper Poisson Prediction Limit	71	50	None	None
Tin	100% Truncated	Upper Poisson Prediction Limit	337	n/e	None	None
Vanadium	68% Truncated	Nonparametric Prediction Limit	450	3.5 *	None	**MW-4**
Zinc	# n/a	# n/a	# n/a	1050	None	None
Benzene	n/a	Compare Directly to SWSL	1	1	MW-2R	**MW-2R**
Chlorobenzene	n/a	Compare Directly to SWSL	3	50	MW-2R, MW-3R, MW-4	None
1,4-Dichlorobenzene	n/a	Compare Directly to SWSL	1	1	MW-2R, MW-3R	**MW-2R, MW-3R**
1,2-Dichlorobenzene	n/a	Compare Directly to SWSL	5	24	None	None
1,1-Dichloroethane	n/a	Compare Directly to SWSL	5	70	MW-2R, MW-3R	None
Xylenes	n/a	Compare Directly to SWSL	4	530	None	None

Notes:
SSI = Statistically Significant Increase
NC 2L = 15A NCAC 2L Groundwater Standard
GPS = Groundwater Protection Standard (indicated by * for constituents with no NC2L)
n/a = not applicable
n/e = No NC2L or GPS not established
µg/L = micrograms per liter = parts per billion
Statistical analyses not required for constituents with no quantified (and non-blank-qualified) down-gradient detections.

TABLE 4
Groundwater Elevation Data

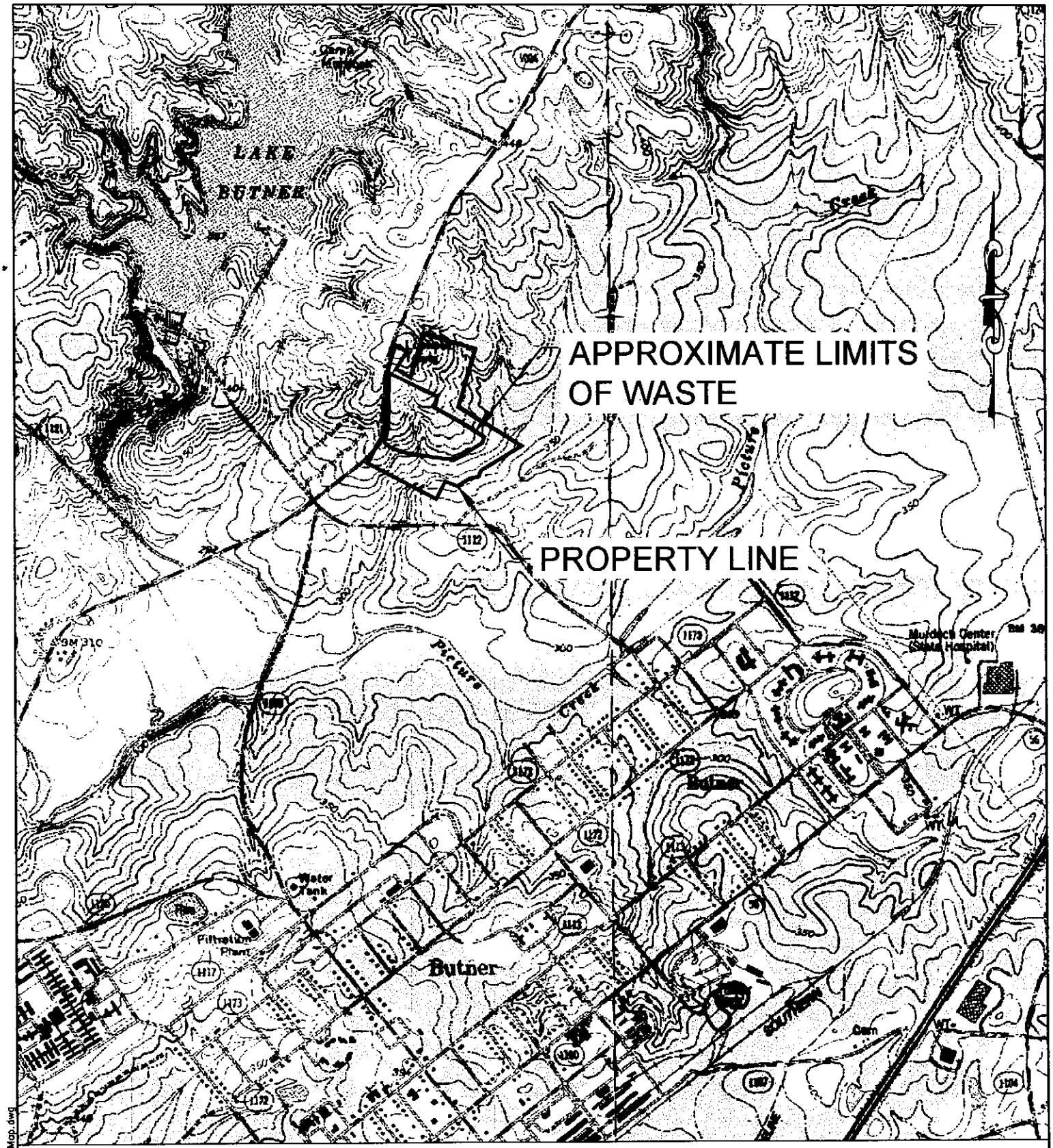
	WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)					
Well ID:	MW-1R	MW-2R	MW-3R	MW-4	MW-5	MW-6
TOC:	482.33	350.87	350.76	360.69	363.53	381.75
8/21/1999	440.50	348.40	347.86	350.39	350.48	371.32
11/16/1999	441.57	344.65	344.31	351.42	353.98	372.19
5/10/2000	446.35	348.87	348.63	354.04	354.14	374.94
10/26/2000	441.03	348.53	347.95	351.22	350.59	372.00
4/18/2001	440.58	348.69	348.43	353.46	354.01	373.44
10/26/2001	434.35	348.31	347.74	350.46	349.88	370.14
6/13/2002	435.52	347.65	347.21	350.10	349.94	370.26
11/19/2002	435.22	348.52	348.15	351.46	356.82	370.16
6/27/2003	445.43	348.84	348.73	354.13	353.64	374.43
12/29/2003	442.05	348.97	348.91	354.38	354.43	374.14
6/30/2004	440.63	348.65	348.28	352.15	351.04	372.32
12/28/2004	439.84	348.77	348.71	353.34	353.79	374.36
6/29/2005	440.63	348.37	349.06	351.51	350.55	371.98
12/29/2005	435.20	348.56	348.51	352.67	353.92	370.74
6/27/2006	436.57	348.44	348.20	352.07	353.21	372.65
12/28/2006	437.36	348.67	348.66	353.46	354.89	373.24
7/12/2007	438.64	347.96	347.77	351.20	350.17	371.52
12/18/2007	434.41	348.21	347.88	350.21	347.57	367.12

Notes:
1. TOC = top of casing
2. - = data not available
3. Water levels are measured from TOC.

TABLE 5
Estimated Hydraulic Gradients and Groundwater Flow Velocities

			December 18, 2007				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEVATION (feet)	HORIZ. GRADIENT, **i** (ft/ft)	HYDRAULIC CONDUCTIVITY, **K** (ft/day)	EFFECTIVE POROSITY **n**	LINEAR VELOCITY, **V** (ft/year)
i_1	1447	SE	440 360	0.0553	5.60E-02	0.30	3.77
i_2	1529	SE	420 360	0.0392	5.60E-02	0.30	2.68
i_3	1593	SSE	440 350	0.0565	5.60E-02	0.30	3.85
			Average i:	**0.0503**		**Average V:**	**3.43**

Notes:
1. Hydraulic conductivity (K) value is representative of a geometric mean of individual aquifer test values taken from GAI's April 1995 report.
2. Linear flow velocity = Ki/n, with an effective porosity (n) of 0.3 for regolith.
3. Refer to Drawling No. 1 for gradient calculation segments.



NOTE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES FOR LAKE MICHIE AND STEM, NORTH CAROLINA.

GRAPHIC SCALE

0 1000 2000 4000

(FEET)

FIGURE NO. 1	JOYCE ENGINEERING, INC. 2211 WEST MEADOWVIEW ROAD GREENSBORO, N.C. 27407 PHONE: (336) 323-0092 © 2008 Joyce Engineering, Inc. All rights reserved	SCALE 1"=2000'	PROJECT NO. 660.06.03	SITE LOCATION MAP BUTNER LANDFILL GRANVILLE COUNTY, NORTH CAROLINA

L:\Granville\dwg\Butner\Site Location Map.dwg

APPENDIX A

~~Laboratory Reports~~ CD at back of report
and Field Data

DATE: 12/18/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 660.06.24

Well ID: NES-1 **Sampler(s):** D. Girdner/R. Winfield

Well Location: Access road in hunting camp

Well Diameter: 2 inches

Initial Depth to Water (DTW): 21.86 feet

Depth to Bottom (DTB): 30.00 feet

Water Column Thickness (WCT): 8.14 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.33 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 3.98 gallons

Actual Amount Purged/Bailed : 3.98 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling : 21.74 feet

Gallons	Time	pH	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	Initials
0	17:16	8.16	14.3	279	-	69.9	95	RW
1.33	17:18	7.52	15.0	361	-	789	121	RW
2.66	17:20	6.82	15.1	413	-	>1000	139	RW
3.98	17:22	6.62	15.1	507	-	>1000	144	RW
	12/19/07							
Before Sampling	17:10	7.64	13.3	510	0.70	62.4	138	RW

Comments (weather conditions, odor, color, silt, etc.): Dusk, 40's

2nd & 3rd Well Volume turbidities are visual estimates, meter went out of calibration

12/19 – Dusk, 30's

Fe2+: 0.2 mg/L **CO2:** 60 mg/L

Signature: [signature] **Date:** 12-19-07

QA/QC Sign Off: Daniel J. Girdner **Date:** 12-21-07

DATE: 12/18/07

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 660.06.24

Well ID: MW-1R **Sampler(s):** D. Girdner/R. Winfield

Well Location: North of the entrance at the treeline under the tower

Well Diameter: 2 inches

Initial Depth to Water (DTW): 47.93 feet

Depth to Bottom (DTB): 53.50 feet

Water Column Thickness (WCT): 5.57 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.91 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 2.72 gallons

Actual Amount Purged/Bailed : 2.70 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling : 47.92 feet

Gallons	Time	pH	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	Initials
0	14:15	6.90	14.6	88.2	-	288	92	RW
0.91	14:17	6.54	15.4	96.3	-	389	135	RW
1.82	14:19	6.48	15.3	118.3	-	704	142	RW
DRY@2.70	-	-	-	-	-	-	-	RW
	12/19/07							
Before Sampling	12:15	6.89	12.3	96.4	-	52.7	146	DG

Comments (weather conditions, odor, color, silt, etc.): 12/18 Mostly sunny, 40's

New flush-mount casing, well depth has not been changed

12/19 – Cloudy, 40's

Fe2+: 0.0 mg/L **CO2:** 25 mg/L

Signature: Daniel S. Girdner **Date:** 12-19-07

QA/QC Sign Off: [illegible] **Date:** 12-21-07

DATE: 12/18/07

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 660.06.24

Well ID: MW-2R **Sampler(s):** D. Girdner/R. Winfield

Well Location: South side of fill, inside tree line and next to MW-3R

Well Diameter: 2 inches

Initial Depth to Water (DTW): 2.66 feet

Depth to Bottom (DTB): 18.85 feet

Water Column Thickness (WCT): 16.19 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.64 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 7.92 gallons

Actual Amount Purged/Bailed : 7.92 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling : 2.68 feet

Gallons	Time	pH	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	Initials
0	16:11	6.50	12.6	1999	-	165	53	RW
2.64	16:17	6.61	15.2	1954	-	23.8	32	DG
5.28	16:21	6.54	15.4	2090	-	36.3	15	DG
7.92	16:28	6.88	15.0	1911	-	37.4	21	DG
Before Sampling	12/19 15:35	6.90	12.5	1964	1.88	5.84	45	DG

Comments (weather conditions, odor, color, silt, etc.): 12/18 P. Cloudy, 40's

Well condition good, pad buried, paint peeling, surface rust on outer casing

12/19 – P. Cloudy, 40's

Fe2+: 7.2 mg/L **CO2:** 365 mg/L

Signature: Daniel A Girdner **Date:** 12-19-07

QA/QC Sign Off: [illegible] **Date:** 12-21-07

DATE: 12/18/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 660.06.24

Well ID: MW-3R **Sampler(s):** D. Girdner/R. Winfield

Well Location: Next to MW-2R, inside tree line

Well Diameter: 2 inches

Initial Depth to Water (DTW): 2.88 feet

Depth to Bottom (DTB): 35.83 feet

Water Column Thickness (WCT): 32.95 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 5.38 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 16.14 gallons

Actual Amount Purged/Bailed : 7.6 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling : 2.82 feet

Gallons	Time	pH	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	Initials
0	16:03	7.51	12.9	1270	-	12.43	-	RW
5.38	16:10	7.19	14.9	1461	-	13.36	11	RW
DRY @ 7.6	-	-	-	-	-	-	-	DG
Before Sampling	12/19 15:00	7.07	13.1	1591	1.44	6.75	142	RW

Comments (weather conditions, odor, color, silt, etc.): P. Cloudy, 40's

Missed ORP on 1st parameter set

Well good, outer casing paint peeling, some rust, pad covered by soil and leaves

12/19 – P. Cloudy, 49 °

Fe2+: 0 mg/L **CO2:** 175 mg/L

Signature: Daniel S. Girdner **Date:** 12-19-07

QA/QC Sign Off: [illegible] **Date:** 12-21-07

DATE: 12/18/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER, Granville Co. **Project No./Task No.:** 660.06.24

Well ID: MW-4 **Sampler(s):** D. Girdner/R. Winfield

Well Location: south of fill, just inside tree line

Well Diameter: 2 inches

Initial Depth to Water (DTW): 10.78 feet

Depth to Bottom (DTB): 31.43 feet

Water Column Thickness (WCT): 20.65 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.37 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 10.11 gallons

Actual Amount Purged/Bailed : 3.9 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling : 11.37 feet

Gallons	Time	pH	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	Initials
0	15:41	7.11	14.8	1236	-	5.57	154	DG
3.37	15:44	6.98	15.6	1244	-	35.4	105	RW
DRY@3.9	-	-	-	-	-	-	-	DG
	12/19/07							
Before Sampling	14:05	6.87	14.4	1245	3.21	125	134	DG

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

Mostly sunny, 45°

12/19 - Partly sunny, 40's

Fe2+: 0 mg/L **CO2:** 295 mg/L

Signature: Daniel A. Girdner **Date:** 12-19-07

QA/QC Sign Off: [illegible] **Date:** 12-21-07

DATE: 12/18/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER Granville Co. **Project No./Task No.:** 660.06.24

Well ID: MW-5 **Sampler(s):** D. Girdner/R. Winfield

Well Location: South side of old SED. pond, Basin in the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 15.96 feet

Depth to Bottom (DTB): 23.52 feet

Water Column Thickness (WCT): 7.56 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.23 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 3.70 gallons

Actual Amount Purged/Bailed : 2.50 gallons

Purged with: **Disposable Bailer**

Sampled with: **Disposable Bailer**

Depth to Water before Sampling : 17.07 feet

Gallons	Time	pH	Temp(°C)	Cond. (µS)	Turb.(ntu)	Initials
0	15:20	7.56	15.2	530	52.8	RW
1.23	15:22	7.48	15.6	521	113	RW
2.46	15:26	7.46	15.1	268	335	RW
DRY @ 2.50	-	-	-	-	-	RW
Before Sampling	12/19/07 13:25	7.39	14.9	480	57.0	RW

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

Mostly sunny, 40's

12/19 – P. cloudy, 40's

Signature: [signature] **Date:** 12-19-07

QA/QC Sign Off: Daniel J. Girdner **Date:** 12-21-07

DATE: 12/18/07

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: BUTNER Granville Co. **Project No./Task No.:** 660.06.24

Well ID: MW-6 **Sampler(s):** D. Girdner/R. Winfield

Well Location: other side of large mulch pile

Well Diameter: 2 inches

Initial Depth to Water (DTW): 14.63 feet

Depth to Bottom (DTB): 32.63 feet

Water Column Thickness (WCT): 18.00 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.94 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.82 gallons

Actual Amount Purged/Bailed : 6.1 gallons

Purged with: **Disposable Bailer**

Sampled with: **Disposable Bailer**

Depth to Water before Sampling : 14.61 feet

Gallons	Time	pH	Temp(°C)	Cond. (µS)	Turb.(ntu)	Initials
0	14:45	6.67	15.6	642	9.06	DG
2.94	14:51	7.02	15.6	676	55.8	DG
5.88	14:57	7.07	16.0	664	158	DG
DRY @ 6.1	-	-	-	-	-	DG
Before Sampling	12/19/07 13:00	6.67	14.4	640	30.4	DG

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

Sunny, 47°

12/19 – P. Cloudy 44°

Signature: Daniel S. Girdner **Date:** 12-19-07

QA/QC Sign Off: [illegible] **Date:** 12-21-07

DATE: 12/19/07

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: BUTNER, Granville Co. **Project/Task No.:** 660.06.24

Surface Point ID: SW-1 **Sampler(s):** D. Girdner/R. Winfield

Location: Near Sed. pond, Basin

Field Parameters:

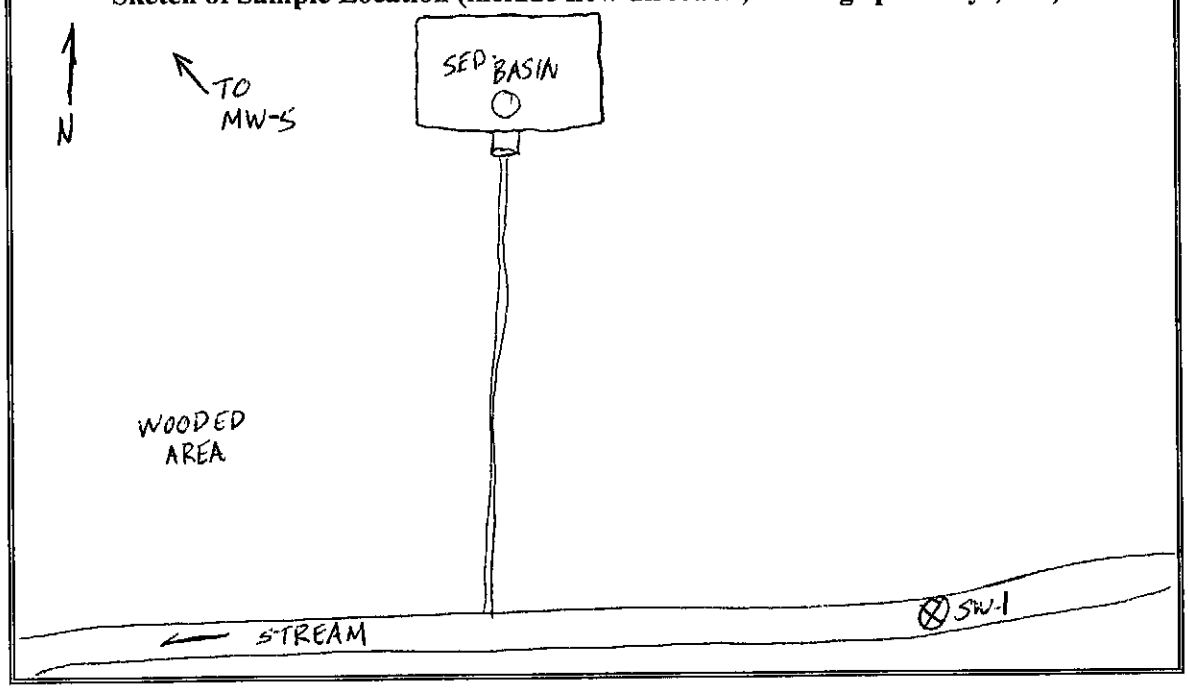
Time of Sampling:	13:40	
pH:	7.86	
Temperature :	3.8	**(°C)**
Conductivity :	332	**(µS)**
Turbidity :	7.02	**(ntu)**

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

P. cloudy, 40's

Water full of leaves, reddish in color, ice was on surface, little or no apparent stream flow

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



Signature: [signature] **Date:** 12-19-07

QA/QC Sign Off: Daniel S. Girdner **Date:** 12.21.07

DATE: 12/19/07

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: BUTNER, Granville Co. **Project/Task No.:** 660.06.24

Surface Point ID: SW-2 **Sampler(s):** D. Girdner/R. Winfield

Location: Down from MW-2R & MW-3R

Field Parameters:

Time of Sampling:	16:20	
pH:	7.34	
Temperature :	6.8	(°C)
Conductivity :	1902	(µS)
Turbidity :	1.12	(ntu)

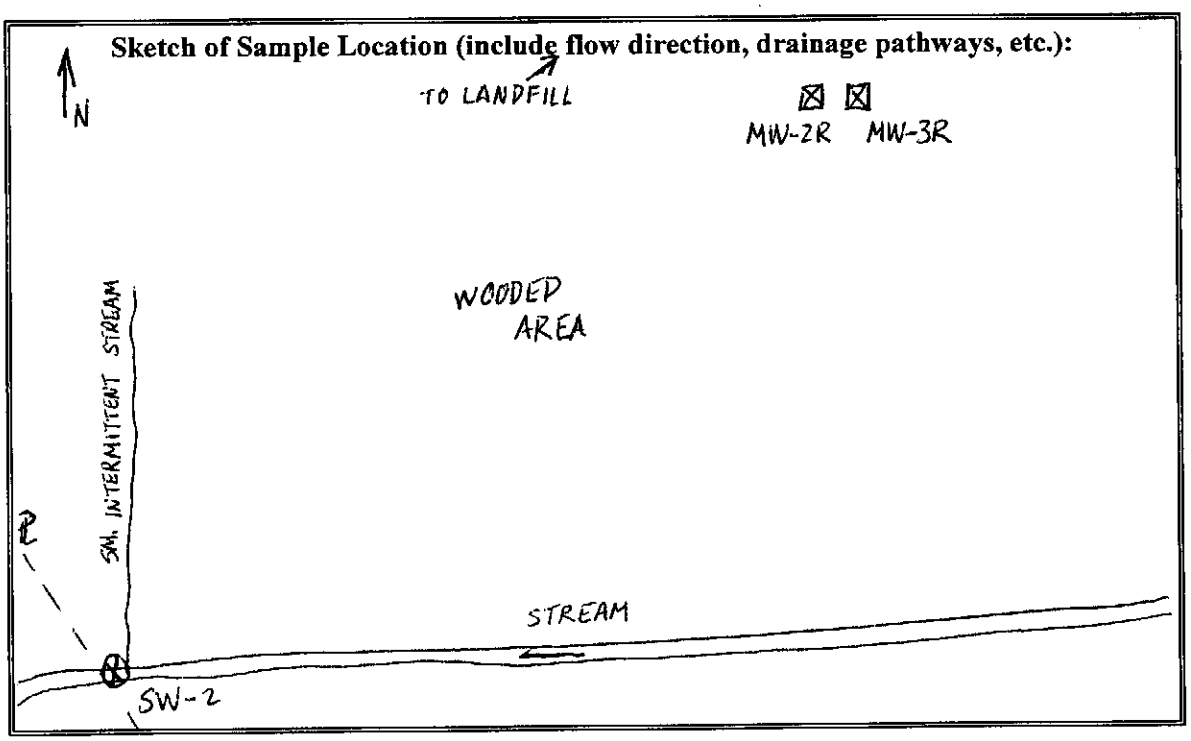
Comments/Sample Description(weather conditions, odor, color, silt, etc.):

Sunny, low 40's

Stream channel @ low water, full of leaves, slow flow

Difficulty removing all headspace, 1 bottle had small bubble (< pea size)

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



Signature: [signature] **Date:** 12-19-07

QA/QC Sign Off: Daniel J. Gardner **Date:** 12-21-07

APPENDIX B

Statistical Analyses

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Sample Date: **19-Dec-07**

Analyte: **Barium**

Sample No.	Sample Date	Location	Concentration	Qualifier	Sorted Conc.
1	9/8/1994	MW-1R	ND		200.0
2	12/1/1994	MW-1R	ND		61.0
3	2/9/1995	MW-1R	ND		48.0
4	3/2/1995	MW-1R	ND		30.0
5	11/15/1995	MW-1R	ND		5.2
6	5/28/1996	MW-1R	ND		2.5
7	11/22/1996	MW-1R	ND		
8	6/17/1997	MW-1R	200		
9	12/1/1997	MW-1R	61		
10	5/20/1998	MW-1R	30		
11	11/19/1998	MW-1R	48		
12	7/21/1999	MW-1R	ND		
13	11/16/1999	MW-1R	ND		
14	5/10/2000	MW-1R	ND		
15	10/26/2000	MW-1R	ND		
16	4/18/2001	MW-1R	ND		
17	10/27/2001	MW-1R	ND		
18	6/13/2002	MW-1R	ND		
19	11/19/2002	MW-1R	ND		
20	6/27/2003	MW-1R	ND		
21	12/30/2003	MW-1R	ND		
22	6/30/2004	MW-1R	ND		
23	12/29/2004	MW-1R	ND		
24	6/29/2005	MW-1R	ND		
25	12/29/2005	MW-1R	ND		
26	6/28/2006	MW-1R	ND		
27	12/29/2006	MW-1R	5.2	J	
28	7/12/2007	MW-1R	2.5	J	
29	12/19/2007	MW-1R	2.8	B	

Number of Samples:	28	
Number of truncated data (ND):	22	
Percent Truncated:	79%	
Non-parametric Prediction Limit:	**200**	**µg/L**

Notes:
- All concentrations in micrograms per liter (µg/L).
- Blank-qualified data are excluded from statistical calculations.

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Sample Date: **19-Dec-07**

Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration	Qualifier	Sorted Conc.
1	9/8/1994	MW-1R	ND		130.0
2	12/1/1994	MW-1R	11		32.0
3	2/9/1995	MW-1R	20		30.0
4	3/2/1995	MW-1R	16		21.0
5	11/15/1995	MW-1R	20		20.0
6	5/28/1996	MW-1R	30		20.0
7	11/22/1996	MW-1R	6		16.0
8	6/17/1997	MW-1R	130		15.0
9	12/1/1997	MW-1R	32		11.0
10	5/20/1998	MW-1R	15		6.0
11	11/19/1998	MW-1R	21		
12	7/21/1999	MW-1R	ND		
13	11/16/1999	MW-1R	ND		
14	5/10/2000	MW-1R	ND		
15	10/26/2000	MW-1R	ND		
16	4/18/2001	MW-1R	ND		
17	10/27/2001	MW-1R	ND		
18	6/13/2002	MW-1R	ND		
19	11/19/2002	MW-1R	ND		
20	6/27/2003	MW-1R	ND		
21	12/30/2003	MW-1R	ND		
22	6/30/2004	MW-1R	ND		
23	12/29/2004	MW-1R	ND		
24	6/29/2005	MW-1R	ND		
25	12/29/2005	MW-1R	ND		
26	6/28/2006	MW-1R	ND		
27	12/29/2006	MW-1R	ND		
28	7/12/2007	MW-1R	ND		
29	12/19/2008	MW-1R	2.5	B	

Number of Samples:	28
Number of truncated data (ND):	18
Percent Truncated:	64%

Non-parametric Prediction Limit: 130 µg/L

Notes:
- All concentrations in micrograms per liter (µg/L).
- Blank-qualified data are excluded from statistical calculations.

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Sample Date: **19-Dec-07**

Analyte: **Nickel**

Sample No.	Sample Date	Location	Concentration	Qualifier	Sorted Conc.
1	9/8/1994	MW-1R	ND		75.0
2	12/1/1994	MW-1R	ND		
3	2/9/1995	MW-1R	ND		
4	3/2/1995	MW-1R	ND		
5	11/15/1995	MW-1R	ND		
6	5/28/1996	MW-1R	ND		
7	11/22/1996	MW-1R	ND		
8	6/17/1997	MW-1R	75		
9	12/1/1997	MW-1R	ND		
10	5/20/1998	MW-1R	ND		
11	11/19/1998	MW-1R	ND		
12	7/21/1999	MW-1R	ND		
13	11/16/1999	MW-1R	ND		
14	5/10/2000	MW-1R	ND		
15	10/26/2000	MW-1R	ND		
16	4/18/2001	MW-1R	ND		
17	10/27/2001	MW-1R	ND		
18	6/13/2002	MW-1R	ND		
19	11/19/2002	MW-1R	ND		
20	6/27/2003	MW-1R	ND		
21	12/30/2003	MW-1R	ND		
22	6/30/2004	MW-1R	ND		
23	12/29/2004	MW-1R	ND		
24	6/29/2005	MW-1R	ND		
25	12/29/2005	MW-1R	ND		
26	6/28/2006	MW-1R	ND		
27	12/29/2006	MW-1R	ND		
28	7/12/2007	MW-1R	ND		
29	12/19/2007	MW-1R	ND		

Number of Samples:	29	
Number of truncated data (ND):	28	
Percent Truncated:	97%	
Poisson Prediction Interval:	**173**	**µg/L**

Notes: - All concentrations in micrograms per liter (µg/L).

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Date: **19-Dec-07**

Upper Poisson Prediction Limit

Analyte: **Nickel**

Background Data

Sample	Date	Location	Concentration	Reporting Limit	Half RL or Concent.	Discrete Poisson Count
1	9/8/1994	MW-1R	ND	50	25	25
2	12/1/1994	MW-1R	ND	50	25	25
3	2/9/1995	MW-1R	ND	50	25	25
4	3/2/1995	MW-1R	ND	50	25	25
5	11/15/1995	MW-1R	ND	50	25	25
6	5/28/1996	MW-1R	ND	50	25	25
7	11/22/1996	MW-1R	ND	50	25	25
8	6/17/1997	MW-1R	75	50	75	25
9	12/1/1997	MW-1R	ND	50	25	25
10	5/20/1998	MW-1R	ND	50	25	25
11	11/19/1998	MW-1R	ND	50	25	25
12	7/21/1999	MW-1R	ND	50	25	25
13	11/16/1999	MW-1R	ND	50	25	25
14	5/10/2000	MW-1R	ND	50	25	25
15	10/26/2000	MW-1R	ND	50	25	25
16	4/18/2001	MW-1R	ND	50	25	25
17	10/27/2001	MW-1R	ND	50	25	25
18	6/13/2002	MW-1R	ND	50	25	25
19	11/19/2002	MW-1R	ND	50	25	25
20	6/27/2003	MW-1R	ND	50	25	25
21	12/30/2003	MW-1R	ND	50	25	25
22	6/30/2004	MW-1R	ND	50	25	25
23	12/29/2004	MW-1R	ND	50	25	25
24	6/29/2005	MW-1R	ND	50	25	25
25	12/29/2005	MW-1R	ND	50	25	25
26	6/28/2006	MW-1R	ND	50	25	25
27	12/29/2006	MW-1R	ND	50	25	25
28	7/12/2007	MW-1R	ND	50	25	25
29	12/12/2007	MW-1R	ND	50	25	25

Poisson Discrete Distribution Ajustment Factor = 1

Note: All sample concentrations are micrograms per liter

Using the background data, the upper Poisson Prediction Limit, y*, is determined by:

$$y^* = c\,y + [(t^2)\,c / 2] + t\,c\,[y\,(1 + (1/c)) + ((t^2) / 4)]^{0.5}$$

where:
- c = k / n
- y = Poisson count
- t = t(n-1, 0.95), Student's t-distribution
- n-1 = degrees of freedom (number of samples - 1)
- k = number of downgradient samples per event
- .95 = confidence interval
- n = number of background samples

For:
- c = 0.207
- y = 725.00
- t = 1.701
- k = 6
- n = 29

y* = 173.19

Adjusted y* = 173.19 µg/L

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Sample Date: **19-Dec-07**

Analyte: **Selenium**

Sample No.	Sample Date	Location	Concentration	Qualifier	Sorted Conc.
1	9/8/1994	MW-1R	ND		
2	12/1/1994	MW-1R	ND		
3	2/9/1995	MW-1R	ND		
4	3/2/1995	MW-1R	ND		
5	11/15/1995	MW-1R	ND		
6	5/28/1996	MW-1R	ND		
7	11/22/1996	MW-1R	ND		
8	6/17/1997	MW-1R	ND		
9	12/1/1997	MW-1R	ND		
10	5/20/1998	MW-1R	ND		
11	11/19/1998	MW-1R	ND		
12	7/21/1999	MW-1R	ND		
13	11/16/1999	MW-1R	ND		
14	5/10/2000	MW-1R	ND		
15	10/26/2000	MW-1R	ND		
16	4/18/2001	MW-1R	ND		
17	10/27/2001	MW-1R	ND		
18	6/13/2002	MW-1R	ND		
19	11/19/2002	MW-1R	ND		
20	6/27/2003	MW-1R	ND		
21	12/30/2003	MW-1R	ND		
22	6/30/2004	MW-1R	ND		
23	12/29/2004	MW-1R	ND		
24	6/29/2005	MW-1R	ND		
25	12/29/2005	MW-1R	ND		
26	6/28/2006	MW-1R	ND		
27	12/29/2006	MW-1R	ND		
28	7/12/2007	MW-1R	ND		
29	12/19/2007	MW-1R	ND		

Number of Samples:	29	
Number of truncated data (ND):	28	
Percent Truncated:	97%	
Poisson Prediction Interval:	**71**	**µg/L**

Notes: - All concentrations in micrograms per liter (µg/L).

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Date: **19-Dec-07**

Upper Poisson Prediction Limit

Analyte: **Selenium**

Background Data

Sample	Date	Location	Concentration	Reporting Limit	Half RL or Concent.	Discrete Poisson Count
1	9/8/1994	MW-1R	ND	20	10	10
2	12/1/1994	MW-1R	ND	20	10	10
3	2/9/1995	MW-1R	ND	20	10	10
4	3/2/1995	MW-1R	ND	20	10	10
5	11/15/1995	MW-1R	ND	20	10	10
6	5/28/1996	MW-1R	ND	20	10	10
7	11/22/1996	MW-1R	ND	20	10	10
8	6/17/1997	MW-1R	ND	20	10	10
9	12/1/1997	MW-1R	ND	20	10	10
10	5/20/1998	MW-1R	ND	20	10	10
11	11/19/1998	MW-1R	ND	20	10	10
12	7/21/1999	MW-1R	ND	20	10	10
13	11/16/1999	MW-1R	ND	20	10	10
14	5/10/2000	MW-1R	ND	20	10	10
15	10/26/2000	MW-1R	ND	20	10	10
16	4/18/2001	MW-1R	ND	20	10	10
17	10/27/2001	MW-1R	ND	20	10	10
18	6/13/2002	MW-1R	ND	20	10	10
19	11/19/2002	MW-1R	ND	20	10	10
20	6/27/2003	MW-1R	ND	20	10	10
21	12/30/2003	MW-1R	ND	20	10	10
22	6/30/2004	MW-1R	ND	20	10	10
23	12/29/2004	MW-1R	ND	20	10	10
24	6/29/2005	MW-1R	ND	20	10	10
25	12/29/2005	MW-1R	ND	20	10	10
26	6/28/2006	MW-1R	ND	20	10	10
27	12/29/2006	MW-1R	ND	10	5	5
28	7/12/2007	MW-1R	ND	10	5	5
29	12/12/2007	MW-1R	ND	10	5	5

Poisson Discrete Distribution Ajustment Factor = 1

Note: All sample concentrations are micrograms per liter

Using the background data, the upper Poisson Prediction Limit, y*, is determined by:

$$y^* = c\,y + [(t^2)\,c / 2] + t\,c\,[y\,(1 + (1/c)) + ((t^2) / 4)]^{0.5}$$

where:
- c = k / n
- y = Poisson count
- t = t(n-1, 0.95), Student's t-distribution
- n-1 = degrees of freedom (number of samples - 1)
- k = number of downgradient samples per event
- .95 = confidence interval
- n = number of background samples

For:

c =	0.207
y =	275.00
t =	1.701
k =	6
n =	29
y* =	**71.29**
Adjusted y* =	**71.29** µg/L

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Sample Date: **19-Dec-07**

Analyte: **Tin**

Sample No.	Sample Date	Location	Concentration	Qualifier	Sorted Conc.
1	12/1/1997	MW-1R	ND		
2	11/19/1998	MW-1R	ND		
3	11/16/1999	MW-1R	ND		
4	6/13/2002	MW-1R	ND		
5	6/27/2003	MW-1R	ND		
6	12/30/2003	MW-1R	ND		
7	6/30/2004	MW-1R	ND		
8	12/29/2004	MW-1R	ND		
9	6/29/2005	MW-1R	ND		
10	12/29/2005	MW-1R	ND		
11	6/28/2006	MW-1R	ND		
12	12/29/2006	MW-1R	ND		
13	7/12/2007	MW-1R	ND		
14	12/19/2007	MW-1R	ND		

Number of Samples:	14	
Number of truncated data (ND):	14	
Percent Truncated:	100%	
Poisson Prediction Interval:	**337**	**µg/L**

Notes: - All concentrations in micrograms per liter (µg/L).

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Date: **19-Dec-07**

Upper Poisson Prediction Limit

Analyte: **Tin**

Background Data

Sample	Date	Location	Concentration	Reporting Limit	Half RL or Concent.	Discrete Poisson Count
1	12/1/1997	MW-1R	ND	100	50	50
2	11/19/1998	MW-1R	ND	100	50	50
3	11/16/1999	MW-1R	ND	100	50	50
4	6/13/2002	MW-1R	ND	100	50	50
5	6/27/2003	MW-1R	ND	100	50	50
6	12/30/2003	MW-1R	ND	100	50	50
7	6/30/2004	MW-1R	ND	100	50	50
8	12/29/2004	MW-1R	ND	100	50	50
9	6/29/2005	MW-1R	ND	100	50	50
10	12/29/2005	MW-1R	ND	100	50	50
11	6/28/2006	MW-1R	ND	100	50	50
12	12/29/2006	MW-1R	ND	100	50	50
13	7/12/2007	MW-1R	ND	100	50	50
14	12/19/2007	MW-1R	ND	100	50	50

Poisson Discrete Distribution Ajustment Factor = 1

Note: All sample concentrations are micrograms per liter

Using the background data, the upper Poisson Prediction Limit, y*, is determined by:

$$y^* = c\,y + [(t^2)\,c / 2] + t\,c\,[y\,(1 + (1/c)) + ((t^2) / 4)]^{0.5}$$

where:

c = k / n
y = Poisson count
t = t(n-1, 0.95), Student's t-distribution
n-1 = degrees of freedom (number of samples - 1)
k = number of downgradient samples per event
.95 = confidence interval
n = number of background samples

For:

c = 0.429
y = 700.00
t = 1.771
k = 6
n = 14

y* = 337.34
Adjusted y* = 337.34 µg/L

JEI Project: **Granville County - Butner Landfill**
Project No: **660.06.24**
Sample Date: **19-Dec-07**

Analyte: **Vanadium**

Sample No.	Sample Date	Location	Concentration	Qualifier	Sorted Conc.
1	9/8/1994	MW-1R	ND		450.0
2	12/1/1994	MW-1R	63		83.0
3	2/9/1995	MW-1R	ND		63.0
4	3/2/1995	MW-1R	41		62.0
5	11/15/1995	MW-1R	ND		41.0
6	5/28/1996	MW-1R	83		33.0
7	11/22/1996	MW-1R	7		25.0
8	6/17/1997	MW-1R	450		7.0
9	12/1/1997	MW-1R	62		2.7
10	5/20/1998	MW-1R	25		
11	11/19/1998	MW-1R	33		
12	7/21/1999	MW-1R	ND		
13	11/16/1999	MW-1R	ND		
14	5/10/2000	MW-1R	ND		
15	10/26/2000	MW-1R	ND		
16	4/18/2001	MW-1R	ND		
17	10/27/2001	MW-1R	ND		
18	6/13/2002	MW-1R	ND		
19	11/19/2002	MW-1R	ND		
20	6/27/2003	MW-1R	ND		
21	12/30/2003	MW-1R	ND		
22	6/30/2004	MW-1R	ND		
23	12/29/2004	MW-1R	ND		
24	6/29/2005	MW-1R	ND		
25	12/29/2005	MW-1R	ND		
26	6/28/2006	MW-1R	ND		
27	12/29/2006	MW-1R	2.7	J	
28	7/12/2007	MW-1R	ND		
29	12/19/2007	MW-1R	2.2	B	

Number of Samples:	28	
Number of truncated data (ND):	19	
Percent Truncated:	68%	
Non-parametric Prediction Limit:	**450**	**µg/L**

Notes:
- All concentrations in micrograms per liter (µg/L).
- Blank-qualified data are excluded from statistical calculations.

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 10, 2008

Mr. Van Burbach
Joyce Engineering-NC
2211 west Meadowview Rd
Suite 101
Greensboro, NC 27407

RE: Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Dear Mr. Burbach:
Enclosed are the analytical results for sample(s) received by the laboratory between December 20, 2007 and December 21, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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without the written consent of Pace Analytical Services, Inc..

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CERTIFICATIONS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9210386001	**3902-MW-1R**	Water	12/19/07 12:15	12/20/07 13:17
9210386002	**3902-MW-2R MS-MSD**	Water	12/19/07 15:35	12/20/07 13:17
9210386003	**3902-MW-3R**	Water	12/19/07 15:00	12/20/07 13:17
9210386004	**3902-MW-4**	Water	12/19/07 14:05	12/20/07 13:17
9210386005	**3902-MW-5**	Water	12/19/07 13:25	12/20/07 13:17
9210386006	**3902-MW-6**	Water	12/19/07 13:00	12/20/07 13:17
9210386007	**3902-NES-1**	Water	12/19/07 17:10	12/20/07 13:17
9210386008	**3902-SW-1**	Water	12/19/07 13:40	12/20/07 13:17
9210386009	**3902-SW-2**	Water	12/19/07 16:20	12/20/07 13:17
9210386010	**EQUIPMENT BLANK**	Water	12/19/07 18:10	12/21/07 13:17

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SAMPLE ANALYTE COUNT

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Lab ID	Sample ID	Method	Analytes Reported
9210386001	**3902-MW-1R**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386002	**3902-MW-2R MS-MSD**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386003	**3902-MW-3R**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386004	**3902-MW-4**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386005	**3902-MW-5**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386006	**3902-MW-6**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386007	**3902-NES-1**	EPA 6010 GW North Carolina	16
		EPA 8081	4
		EPA 8260	54
9210386008	**3902-SW-1**	EPA 6010 GW North Carolina	15
		EPA 8260	54
9210386009	**3902-SW-2**	EPA 6010 GW North Carolina	15
		EPA 8260	54
9210386010	**EQUIPMENT BLANK**	EPA 6010 GW North Carolina	16
		EPA 7470	1
		EPA 8081	5
		EPA 8260	54
		SM 4500-S2D	1

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-1R **Lab ID: 9210386001** Collected: 12/19/07 12:15 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/29/07 23:29	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/29/07 23:29	76-44-8	
Tetrachloro-m-xylene (S)	43	%		1	12/26/07 00:00	12/29/07 23:29	877-09-8	
Decachlorobiphenyl (S)	52	%		1	12/26/07 00:00	12/29/07 23:29	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-38-2	
Barium	**2.8J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:45	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-47-3	
Cobalt	**2.5J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-48-4	
Copper	**2.0J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-50-8	
Lead	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:45	7782-49-2	
Silver	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/26/07 09:49	01/01/08 23:45	7440-28-0	
Tin	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-31-5	
Vanadium	**2.2J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:45	7440-62-2	
Zinc	**4.3J**	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:45	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 04:37	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 04:37	107-13-1	
Benzene	ND	ug/L	1.0	1		01/02/08 04:37	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 04:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 04:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 04:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 04:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 04:37	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 04:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 04:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/02/08 04:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/02/08 04:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 04:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 04:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 04:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 04:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 04:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 04:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 04:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 04:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 04:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 04:37	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-1R **Lab ID: 9210386001** Collected: 12/19/07 12:15 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 04:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 04:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 04:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 04:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 04:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 04:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 04:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 04:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 04:37	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 04:37	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 04:37	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 04:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 04:37	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 04:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 04:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 04:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 04:37	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 04:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 04:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 04:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 04:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 04:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 04:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 04:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 04:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 04:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 04:37	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 04:37	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109	1		01/02/08 04:37	460-00-4	
Dibromofluoromethane (S)	96	%	85-115	1		01/02/08 04:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120	1		01/02/08 04:37	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		01/02/08 04:37	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-2R MS-MSD **Lab ID: 9210386002** Collected: 12/19/07 15:35 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/29/07 23:44	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/29/07 23:44	76-44-8	
Tetrachloro-m-xylene (S)	25	%		1	12/26/07 00:00	12/29/07 23:44	877-09-8	
Decachlorobiphenyl (S)	10	%		1	12/26/07 00:00	12/29/07 23:44	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-36-0	
Arsenic	**4.1J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-38-2	
Barium	**99.2**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/30/07 11:30	01/06/08 15:42	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/30/07 11:30	01/06/08 15:42	7440-43-9	
Chromium	**2.0J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-48-4	
Copper	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-50-8	
Lead	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7439-92-1	
Nickel	**83.4**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-02-0	
Selenium	**11.5**	ug/L	10.0	1	12/30/07 11:30	01/06/08 15:42	7782-49-2	
Silver	**0.57J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-22-4	
Thallium	**4.0J**	ug/L	5.5	1	12/30/07 11:30	01/06/08 15:42	7440-28-0	
Tin	**33.6**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-31-5	
Vanadium	**2.2J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 15:42	7440-62-2	
Zinc	**14.3**	ug/L	10.0	1	12/30/07 11:30	01/06/08 15:42	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 05:01	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 05:01	107-13-1	
Benzene	**1.8**	ug/L	1.0	1		01/02/08 05:01	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 05:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 05:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 05:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 05:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 05:01	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 05:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 05:01	56-23-5	
Chlorobenzene	**17.3**	ug/L	1.0	1		01/02/08 05:01	108-90-7	
Chloroethane	**1.9**	ug/L	1.0	1		01/02/08 05:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 05:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 05:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 05:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 05:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 05:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 05:01	74-95-3	
1,2-Dichlorobenzene	**1.6**	ug/L	1.0	1		01/02/08 05:01	95-50-1	
1,4-Dichlorobenzene	**3.0**	ug/L	1.0	1		01/02/08 05:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 05:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 05:01	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-2R MS-MSD **Lab ID: 9210386002** Collected: 12/19/07 15:35 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 05:01	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 05:01	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 05:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 05:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 05:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 05:01	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 05:01	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 05:01	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 05:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 05:01	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 05:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 05:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 05:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 05:01	127-18-4	
Toluene	**0.51J**	ug/L	1.0	1		01/02/08 05:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 05:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 05:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 05:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 05:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 05:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 05:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 05:01	75-01-4	
Xylene (Total)	**2.0**	ug/L	2.0	1		01/02/08 05:01	1330-20-7	
m&p-Xylene	**1.6J**	ug/L	2.0	1		01/02/08 05:01	1330-20-7	
o-Xylene	**0.41J**	ug/L	1.0	1		01/02/08 05:01	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109	1		01/02/08 05:01	460-00-4	
Dibromofluoromethane (S)	100	%	85-115	1		01/02/08 05:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120	1		01/02/08 05:01	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		01/02/08 05:01	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-3R **Lab ID: 9210386003** Collected: 12/19/07 15:00 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:00	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:00	76-44-8	
Tetrachloro-m-xylene (S)	63	%		1	12/26/07 00:00	12/30/07 00:00	877-09-8	
Decachlorobiphenyl (S)	49	%		1	12/26/07 00:00	12/30/07 00:00	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-38-2	
Barium	**50.0**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:49	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:49	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-47-3	
Cobalt	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-48-4	
Copper	**8.6**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-50-8	
Lead	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7439-92-1	
Nickel	**23.7**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:49	7782-49-2	
Silver	**0.60J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/26/07 09:49	01/01/08 23:49	7440-28-0	
Tin	**7.4**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-31-5	
Vanadium	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:49	7440-62-2	
Zinc	**6.3J**	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:49	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 05:24	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 05:24	107-13-1	
Benzene	**0.48J**	ug/L	1.0	1		01/02/08 05:24	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 05:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 05:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 05:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 05:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 05:24	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 05:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 05:24	56-23-5	
Chlorobenzene	**16.9**	ug/L	1.0	1		01/02/08 05:24	108-90-7	
Chloroethane	**1.9**	ug/L	1.0	1		01/02/08 05:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 05:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 05:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 05:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 05:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 05:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 05:24	74-95-3	
1,2-Dichlorobenzene	**2.0**	ug/L	1.0	1		01/02/08 05:24	95-50-1	
1,4-Dichlorobenzene	**2.7**	ug/L	1.0	1		01/02/08 05:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 05:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 05:24	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-3R **Lab ID: 9210386003** Collected: 12/19/07 15:00 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 05:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 05:24	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 05:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 05:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 05:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 05:24	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 05:24	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 05:24	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 05:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 05:24	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 05:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 05:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 05:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 05:24	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 05:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 05:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 05:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 05:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 05:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 05:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 05:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 05:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 05:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 05:24	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 05:24	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109	1		01/02/08 05:24	460-00-4	
Dibromofluoromethane (S)	99	%	85-115	1		01/02/08 05:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120	1		01/02/08 05:24	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		01/02/08 05:24	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-4 **Lab ID: 9210386004** Collected: 12/19/07 14:05 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:16	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:16	76-44-8	
Tetrachloro-m-xylene (S)	66	%		1	12/26/07 00:00	12/30/07 00:16	877-09-8	
Decachlorobiphenyl (S)	108	%		1	12/26/07 00:00	12/30/07 00:16	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-38-2	
Barium	**1.4J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:53	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:53	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-47-3	
Cobalt	**2.0J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-48-4	
Copper	**3.8J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-50-8	
Lead	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7439-92-1	
Nickel	**11.0**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:53	7782-49-2	
Silver	**0.55J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/26/07 09:49	01/01/08 23:53	7440-28-0	
Tin	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-31-5	
Vanadium	**15.7**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:53	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:53	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 05:48	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 05:48	107-13-1	
Benzene	**0.26J**	ug/L	1.0	1		01/02/08 05:48	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 05:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 05:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 05:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 05:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 05:48	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 05:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 05:48	56-23-5	
Chlorobenzene	**4.7**	ug/L	1.0	1		01/02/08 05:48	108-90-7	
Chloroethane	**1.5**	ug/L	1.0	1		01/02/08 05:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 05:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 05:48	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 05:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 05:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 05:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 05:48	74-95-3	
1,2-Dichlorobenzene	**0.37J**	ug/L	1.0	1		01/02/08 05:48	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 05:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 05:48	110-57-6	
1,1-Dichloroethane	**0.57J**	ug/L	1.0	1		01/02/08 05:48	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-4 **Lab ID: 9210386004** Collected: 12/19/07 14:05 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 05:48	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 05:48	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 05:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 05:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 05:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 05:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 05:48	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 05:48	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 05:48	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 05:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 05:48	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 05:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 05:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 05:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 05:48	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 05:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 05:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 05:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 05:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 05:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 05:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 05:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 05:48	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 05:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 05:48	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 05:48	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109	1		01/02/08 05:48	460-00-4	
Dibromofluoromethane (S)	98	%	85-115	1		01/02/08 05:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120	1		01/02/08 05:48	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		01/02/08 05:48	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-5 **Lab ID: 9210386005** Collected: 12/19/07 13:25 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:32	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:32	76-44-8	
Tetrachloro-m-xylene (S)	54	%		1	12/26/07 00:00	12/30/07 00:32	877-09-8	
Decachlorobiphenyl (S)	51	%		1	12/26/07 00:00	12/30/07 00:32	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-38-2	
Barium	**49.6**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:57	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/26/07 09:49	01/01/08 23:57	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-47-3	
Cobalt	**103**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-48-4	
Copper	**7.0**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-50-8	
Lead	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7439-92-1	
Nickel	**18.3**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:57	7782-49-2	
Silver	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/26/07 09:49	01/01/08 23:57	7440-28-0	
Tin	ND	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-31-5	
Vanadium	**3.0J**	ug/L	5.0	1	12/26/07 09:49	01/01/08 23:57	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/26/07 09:49	01/01/08 23:57	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 06:11	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 06:11	107-13-1	
Benzene	ND	ug/L	1.0	1		01/02/08 06:11	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 06:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 06:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 06:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 06:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 06:11	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 06:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 06:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/02/08 06:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/02/08 06:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 06:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 06:11	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 06:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 06:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 06:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 06:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 06:11	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 06:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 06:11	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 06:11	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-5 **Lab ID: 9210386005** Collected: 12/19/07 13:25 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 06:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 06:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 06:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 06:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 06:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 06:11	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 06:11	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 06:11	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 06:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 06:11	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 06:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 06:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 06:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 06:11	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 06:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 06:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 06:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 06:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 06:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 06:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 06:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 06:11	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 06:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 06:11	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 06:11	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109	1		01/02/08 06:11	460-00-4	
Dibromofluoromethane (S)	98	%	85-115	1		01/02/08 06:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120	1		01/02/08 06:11	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		01/02/08 06:11	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-6 **Lab ID: 9210386006** Collected: 12/19/07 13:00 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:48	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 00:48	76-44-8	
Tetrachloro-m-xylene (S)	54	%		1	12/26/07 00:00	12/30/07 00:48	877-09-8	
Decachlorobiphenyl (S)	53	%		1	12/26/07 00:00	12/30/07 00:48	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-38-2	
Barium	**1.7J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/26/07 09:49	01/02/08 00:01	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/26/07 09:49	01/02/08 00:01	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-47-3	
Cobalt	**2.6J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-48-4	
Copper	**0.73J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-50-8	
Lead	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7439-92-1	
Nickel	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/26/07 09:49	01/02/08 00:01	7782-49-2	
Silver	**0.33J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/26/07 09:49	01/02/08 00:01	7440-28-0	
Tin	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-31-5	
Vanadium	**1.2J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:01	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/26/07 09:49	01/02/08 00:01	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 06:35	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 06:35	107-13-1	
Benzene	ND	ug/L	1.0	1		01/02/08 06:35	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 06:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 06:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 06:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 06:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 06:35	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 06:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 06:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/02/08 06:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/02/08 06:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 06:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 06:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 06:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 06:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 06:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 06:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 06:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 06:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 06:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 06:35	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-MW-6 **Lab ID: 9210386006** Collected: 12/19/07 13:00 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 06:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 06:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 06:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 06:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 06:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 06:35	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 06:35	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 06:35	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 06:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 06:35	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 06:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 06:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 06:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 06:35	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 06:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 06:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 06:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 06:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 06:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 06:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 06:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 06:35	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 06:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 06:35	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 06:35	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109	1		01/02/08 06:35	460-00-4	
Dibromofluoromethane (S)	97	%	85-115	1		01/02/08 06:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120	1		01/02/08 06:35	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		01/02/08 06:35	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-NES-1 **Lab ID: 9210386007** Collected: 12/19/07 17:10 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 01:03	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	12/30/07 01:03	76-44-8	
Tetrachloro-m-xylene (S)	53	%		1	12/26/07 00:00	12/30/07 01:03	877-09-8	
Decachlorobiphenyl (S)	58	%		1	12/26/07 00:00	12/30/07 01:03	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-38-2	
Barium	**87.8**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/26/07 09:49	01/02/08 00:05	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/26/07 09:49	01/02/08 00:05	7440-43-9	
Chromium	**1.1J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-47-3	
Cobalt	**8.0**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-48-4	
Copper	**5.8**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-50-8	
Lead	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7439-92-1	
Nickel	**11.4**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/26/07 09:49	01/02/08 00:05	7782-49-2	
Silver	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/26/07 09:49	01/02/08 00:05	7440-28-0	
Tin	ND	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-31-5	
Vanadium	**4.0J**	ug/L	5.0	1	12/26/07 09:49	01/02/08 00:05	7440-62-2	
Zinc	**2.4J**	ug/L	10.0	1	12/26/07 09:49	01/02/08 00:05	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 06:58	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 06:58	107-13-1	
Benzene	ND	ug/L	1.0	1		01/02/08 06:58	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 06:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/02/08 06:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 06:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 06:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 06:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 06:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 06:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/02/08 06:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/02/08 06:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/02/08 06:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 06:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 06:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/02/08 06:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 06:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 06:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 06:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 06:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 06:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 06:58	75-34-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-NES-1 **Lab ID: 9210386007** Collected: 12/19/07 17:10 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 06:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 06:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 06:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 06:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 06:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 06:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 06:58	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 06:58	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 06:58	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 06:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 06:58	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 06:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 06:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 06:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 06:58	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 06:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 06:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 06:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 06:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 06:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 06:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 06:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 06:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 06:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 06:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 06:58	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109	1		01/02/08 06:58	460-00-4	
Dibromofluoromethane (S)	99	%	85-115	1		01/02/08 06:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120	1		01/02/08 06:58	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		01/02/08 06:58	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-SW-1 **Lab ID: 9210386008** Collected: 12/19/07 13:40 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina			Preparation Method: EPA 3010				
Antimony	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-38-2	
Barium	**52.6**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/30/07 11:30	01/06/08 16:04	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/30/07 11:30	01/06/08 16:04	7440-43-9	
Chromium	**2.2J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-47-3	
Cobalt	**4.2J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-48-4	
Copper	**5.3**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-50-8	
Lead	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7439-92-1	
Nickel	**6.0**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/30/07 11:30	01/06/08 16:04	7782-49-2	
Silver	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-22-4	
Thallium	**3.6J**	ug/L	5.4	1	12/30/07 11:30	01/06/08 16:04	7440-28-0	
Vanadium	**3.3J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:04	7440-62-2	
Zinc	**24.6**	ug/L	10.0	1	12/30/07 11:30	01/06/08 16:04	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**12.7J**	ug/L	25.0	1		01/01/08 03:04	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/01/08 03:04	107-13-1	
Benzene	ND	ug/L	1.0	1		01/01/08 03:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/01/08 03:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/01/08 03:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/01/08 03:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/01/08 03:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/01/08 03:04	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/01/08 03:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/01/08 03:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/01/08 03:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/01/08 03:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/01/08 03:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/01/08 03:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/01/08 03:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/01/08 03:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/01/08 03:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/01/08 03:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/01/08 03:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/01/08 03:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/01/08 03:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/01/08 03:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/01/08 03:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/01/08 03:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/01/08 03:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/01/08 03:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/01/08 03:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/01/08 03:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/01/08 03:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/01/08 03:04	10061-02-6	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-SW-1 **Lab ID: 9210386008** Collected: 12/19/07 13:40 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		01/01/08 03:04	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/01/08 03:04	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/01/08 03:04	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/01/08 03:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/01/08 03:04	108-10-1	
Styrene	ND	ug/L	1.0	1		01/01/08 03:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/01/08 03:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/01/08 03:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/01/08 03:04	127-18-4	
Toluene	ND	ug/L	1.0	1		01/01/08 03:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/01/08 03:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/01/08 03:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/01/08 03:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/01/08 03:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/01/08 03:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/01/08 03:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/01/08 03:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/01/08 03:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/01/08 03:04	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/01/08 03:04	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109	1		01/01/08 03:04	460-00-4	
Dibromofluoromethane (S)	99	%	85-115	1		01/01/08 03:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120	1		01/01/08 03:04	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		01/01/08 03:04	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-SW-2 **Lab ID: 9210386009** Collected: 12/19/07 16:20 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina			Preparation Method: EPA 3010				
Antimony	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-38-2	
Barium	**149**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-39-3	
Beryllium	ND	ug/L	1.0	1	12/30/07 11:30	01/06/08 16:08	7440-41-7	
Cadmium	ND	ug/L	1.0	1	12/30/07 11:30	01/06/08 16:08	7440-43-9	
Chromium	**2.6J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-47-3	
Cobalt	**1.2J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-48-4	
Copper	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-50-8	
Lead	ND	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7439-92-1	
Nickel	**31.5**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-02-0	
Selenium	ND	ug/L	10.0	1	12/30/07 11:30	01/06/08 16:08	7782-49-2	
Silver	**0.34J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-22-4	
Thallium	ND	ug/L	5.5	1	12/30/07 11:30	01/06/08 16:08	7440-28-0	
Vanadium	**1.4J**	ug/L	5.0	1	12/30/07 11:30	01/06/08 16:08	7440-62-2	
Zinc	ND	ug/L	10.0	1	12/30/07 11:30	01/06/08 16:08	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/01/08 03:28	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/01/08 03:28	107-13-1	
Benzene	ND	ug/L	1.0	1		01/01/08 03:28	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/01/08 03:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/01/08 03:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/01/08 03:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/01/08 03:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/01/08 03:28	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/01/08 03:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/01/08 03:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/01/08 03:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/01/08 03:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/01/08 03:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/01/08 03:28	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/01/08 03:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/01/08 03:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/01/08 03:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/01/08 03:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/01/08 03:28	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/01/08 03:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/01/08 03:28	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/01/08 03:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/01/08 03:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/01/08 03:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/01/08 03:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/01/08 03:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/01/08 03:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/01/08 03:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/01/08 03:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/01/08 03:28	10061-02-6	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: 3902-SW-2 **Lab ID: 9210386009** Collected: 12/19/07 16:20 Received: 12/20/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		01/01/08 03:28	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/01/08 03:28	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/01/08 03:28	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/01/08 03:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/01/08 03:28	108-10-1	
Styrene	ND	ug/L	1.0	1		01/01/08 03:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/01/08 03:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/01/08 03:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/01/08 03:28	127-18-4	
Toluene	ND	ug/L	1.0	1		01/01/08 03:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/01/08 03:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/01/08 03:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/01/08 03:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/01/08 03:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/01/08 03:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/01/08 03:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/01/08 03:28	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/01/08 03:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/01/08 03:28	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/01/08 03:28	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109	1		01/01/08 03:28	460-00-4	
Dibromofluoromethane (S)	99	%	85-115	1		01/01/08 03:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120	1		01/01/08 03:28	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		01/01/08 03:28	2037-26-5	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: EQUIPMENT BLANK **Lab ID: 9210386010** Collected: 12/19/07 18:10 Received: 12/21/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3535							
beta-BHC	ND	ug/L	0.050	1	12/26/07 00:00	01/07/08 21:57	319-85-7	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/26/07 00:00	01/07/08 21:57	58-89-9	
Heptachlor	ND	ug/L	0.050	1	12/26/07 00:00	01/07/08 21:57	76-44-8	
Tetrachloro-m-xylene (S)	50	%		1	12/26/07 00:00	01/07/08 21:57	877-09-8	
Decachlorobiphenyl (S)	61	%		1	12/26/07 00:00	01/07/08 21:57	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010							
Antimony	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-36-0	
Arsenic	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-38-2	
Barium	**11.5**	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-39-3	
Beryllium	ND	ug/L	1.0	1	01/07/08 11:30	01/07/08 15:08	7440-41-7	
Cadmium	ND	ug/L	1.0	1	01/07/08 11:30	01/07/08 15:08	7440-43-9	
Chromium	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-47-3	
Cobalt	**1.7J**	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-48-4	
Copper	**9.7**	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-50-8	
Lead	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-02-0	
Selenium	ND	ug/L	10.0	1	01/07/08 11:30	01/07/08 15:08	7782-49-2	
Silver	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-22-4	
Thallium	ND	ug/L	5.4	1	01/07/08 11:30	01/07/08 15:08	7440-28-0	
Tin	ND	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-31-5	
Vanadium	**0.62J**	ug/L	5.0	1	01/07/08 11:30	01/07/08 15:08	7440-62-2	
Zinc	**98.3**	ug/L	10.0	1	01/07/08 11:30	01/07/08 15:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	01/03/08 09:57	01/04/08 12:10	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/02/08 03:50	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1		01/02/08 03:50	107-13-1	
Benzene	ND	ug/L	1.0	1		01/02/08 03:50	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		01/02/08 03:50	74-97-5	
Bromodichloromethane	**15.1**	ug/L	1.0	1		01/02/08 03:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/02/08 03:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/02/08 03:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/02/08 03:50	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1		01/02/08 03:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/02/08 03:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/02/08 03:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/02/08 03:50	75-00-3	
Chloroform	**54.7**	ug/L	1.0	1		01/02/08 03:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/02/08 03:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	1		01/02/08 03:50	96-12-8	
Dibromochloromethane	**6.2**	ug/L	1.0	1		01/02/08 03:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/02/08 03:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/02/08 03:50	74-95-3	

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ANALYTICAL RESULTS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Sample: EQUIPMENT BLANK **Lab ID: 9210386010** Collected: 12/19/07 18:10 Received: 12/21/07 13:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 03:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/02/08 03:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1		01/02/08 03:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/02/08 03:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/02/08 03:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/02/08 03:50	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/02/08 03:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 03:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/02/08 03:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/02/08 03:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 03:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/02/08 03:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/02/08 03:50	100-41-4	
2-Hexanone	ND	ug/L	5.0	1		01/02/08 03:50	591-78-6	
Iodomethane	ND	ug/L	5.0	1		01/02/08 03:50	74-88-4	
Methylene Chloride	ND	ug/L	2.0	1		01/02/08 03:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/02/08 03:50	108-10-1	
Styrene	ND	ug/L	1.0	1		01/02/08 03:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 03:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/02/08 03:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/02/08 03:50	127-18-4	
Toluene	ND	ug/L	1.0	1		01/02/08 03:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/02/08 03:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/02/08 03:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/02/08 03:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/02/08 03:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/02/08 03:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/02/08 03:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/02/08 03:50	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/02/08 03:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/02/08 03:50	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		01/02/08 03:50	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109	1		01/02/08 03:50	460-00-4	
Dibromofluoromethane (S)	99	%	85-115	1		01/02/08 03:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120	1		01/02/08 03:50	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		01/02/08 03:50	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	**0.042J**	mg/L	0.050	1		12/23/20 07:20		

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: WET/2504
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 9210386010

METHOD BLANK: 57788
Associated Lab Samples: 9210386010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	ND	0.050	

LABORATORY CONTROL SAMPLE: 57789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	103	90-110	

MATRIX SPIKE SAMPLE: 57790

Parameter	Units	9210087003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	0.41	73	75-125	M1

SAMPLE DUPLICATE: 57791

Parameter	Units	9210296001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND	.2	20	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: OEXT/2058
QC Batch Method: EPA 3535
Analysis Method: EPA 8081
Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 9210386010

METHOD BLANK: 57900
Associated Lab Samples: 9210386010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
beta-BHC	ug/L	ND	0.050	
gamma-BHC (Lindane)	ug/L	ND	0.050	
Heptachlor	ug/L	ND	0.050	
Decachlorobiphenyl (S)	%	80		
Tetrachloro-m-xylene (S)	%	55		

LABORATORY CONTROL SAMPLE: 57901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
beta-BHC	ug/L	.16	0.13	79	20-137	
gamma-BHC (Lindane)	ug/L	.16	0.092	58	20-118	
Heptachlor	ug/L	.16	0.18	111	20-142	
Decachlorobiphenyl (S)	%			65		
Tetrachloro-m-xylene (S)	%			39		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 57902 57903

Parameter	Units	9210384005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
gamma-BHC (Lindane)	ug/L	ND	.16	.16	0.056	0.064	35	40	24-119	13	30	
Heptachlor	ug/L	ND	.16	.16	0.071	0.076	44	48	20-128	7	30	
Decachlorobiphenyl (S)	%						33	44				
Tetrachloro-m-xylene (S)	%						28	34				

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: OEXT/2061 Analysis Method: EPA 8081
QC Batch Method: EPA 3535 Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 9210386001, 9210386002, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

METHOD BLANK: 57910
Associated Lab Samples: 9210386001, 9210386002, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
gamma-BHC (Lindane)	ug/L	ND	0.050	
Heptachlor	ug/L	ND	0.050	
Decachlorobiphenyl (S)	%	42		
Tetrachloro-m-xylene (S)	%	30		

LABORATORY CONTROL SAMPLE: 57911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
gamma-BHC (Lindane)	ug/L	.16	0.089	56	20-118	
Heptachlor	ug/L	.16	0.14	88	20-142	
Decachlorobiphenyl (S)	%			47		
Tetrachloro-m-xylene (S)	%			34		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 57912 57913

Parameter	Units	9210386002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
gamma-BHC (Lindane)	ug/L	ND	.16	.16	0.17	0.11	105	69	24-119	41	30	R2
Heptachlor	ug/L	ND	.16	.16	0.25	0.11	154	67	20-128	79	30	1g,R2
Decachlorobiphenyl (S)	%						35	40				
Tetrachloro-m-xylene (S)	%						53	17				

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MPRP/1659 | Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9210386001, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

METHOD BLANK: 58037
Associated Lab Samples: 9210386001, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	0.40J	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Cobalt	ug/L	ND	5.0	
Copper	ug/L	4.3J	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	
Thallium	ug/L	ND	5.5	
Tin	ug/L	ND	5.0	
Vanadium	ug/L	ND	5.0	
Zinc	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 58038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	575	115	80-120	
Arsenic	ug/L	500	580	116	80-120	
Barium	ug/L	500	552	110	80-120	
Beryllium	ug/L	500	561	112	80-120	
Cadmium	ug/L	500	563	113	80-120	
Chromium	ug/L	500	576	115	80-120	
Cobalt	ug/L	500	561	112	80-120	
Copper	ug/L	500	570	114	80-120	
Lead	ug/L	500	566	113	80-120	
Nickel	ug/L	500	559	112	80-120	
Selenium	ug/L	500	579	116	80-120	
Silver	ug/L	250	286	114	80-120	
Thallium	ug/L	500	601	120	80-120	
Tin	ug/L	500	590	118	80-120	
Vanadium	ug/L	500	567	113	80-120	
Zinc	ug/L	500	573	115	80-120	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

MATRIX SPIKE SAMPLE: 58040

Parameter	Units	9210384005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	474	95	75-125	
Arsenic	ug/L	ND	500	485	97	75-125	
Barium	ug/L	64.9	500	488	85	75-125	
Beryllium	ug/L	ND	500	447	89	75-125	
Cadmium	ug/L	ND	500	456	91	75-125	
Chromium	ug/L	ND	500	444	89	75-125	
Cobalt	ug/L	ND	500	419	84	75-125	
Copper	ug/L	0.58J	500	442	88	75-125	
Lead	ug/L	ND	500	455	91	75-125	
Nickel	ug/L	ND	500	421	84	75-125	
Selenium	ug/L	ND	500	494	99	75-125	
Silver	ug/L	ND	250	255	102	75-125	
Thallium	ug/L	ND	500	505	101	75-125	
Tin	ug/L		500	479	96	75-125	
Vanadium	ug/L	0.93J	500	454	91	75-125	
Zinc	ug/L	ND	500	461	93	75-125	

SAMPLE DUPLICATE: 58039

Parameter	Units	9210131003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND	3	25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	183	184	.5	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	18.2	18.6	2	25	
Copper	ug/L	4.6J	4.3J	7	25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	3.9J	3.9J	0	25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	0.68J	0.63J	7	25	
Thallium	ug/L	ND	ND	95	25	
Tin	ug/L	2.0J	ND	86	25	
Vanadium	ug/L	0.81J	0.79J	2	25	
Zinc	ug/L	ND	2.3J		25	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MPRP/1682 | Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9210386002, 9210386008, 9210386009

METHOD BLANK: 59248
Associated Lab Samples: 9210386002, 9210386008, 9210386009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	1.4J	5.0	
Cobalt	ug/L	1.1J	5.0	
Copper	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	
Thallium	ug/L	ND	5.5	
Tin	ug/L	ND	5.0	
Vanadium	ug/L	ND	5.0	
Zinc	ug/L	1.0J	10.0	

LABORATORY CONTROL SAMPLE: 59249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	516	103	80-120	
Arsenic	ug/L	500	506	101	80-120	
Barium	ug/L	500	486	97	80-120	
Beryllium	ug/L	500	498	100	80-120	
Cadmium	ug/L	500	508	102	80-120	
Chromium	ug/L	500	508	102	80-120	
Cobalt	ug/L	500	499	100	80-120	
Copper	ug/L	500	486	97	80-120	
Lead	ug/L	500	502	100	80-120	
Nickel	ug/L	500	511	102	80-120	
Selenium	ug/L	500	496	99	80-120	
Silver	ug/L	250	258	103	80-120	
Thallium	ug/L	500	480	96	80-120	
Tin	ug/L	500	529	106	80-120	
Vanadium	ug/L	500	502	100	80-120	
Zinc	ug/L	500	494	99	80-120	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59250 59251

Parameter	Units	9210386002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	494	493	99	98	75-125	.2		
Arsenic	ug/L	4.1J	500	500	496	495	98	98	75-125	.2		
Barium	ug/L	99.2	500	500	517	516	84	83	75-125	.2		
Beryllium	ug/L	ND	500	500	453	453	91	91	75-125	0		
Cadmium	ug/L	ND	500	500	436	436	87	87	75-125	0		
Chromium	ug/L	2.0J	500	500	450	449	90	89	75-125	.2		
Cobalt	ug/L	ND	500	500	409	409	84	84	75-125	0		
Copper	ug/L	ND	500	500	446	446	90	90	75-125	0		
Lead	ug/L	ND	500	500	424	424	86	86	75-125	0		
Nickel	ug/L	83.4	500	500	506	505	85	84	75-125	.2		
Selenium	ug/L	11.5	500	500	498	498	97	97	75-125	0		
Silver	ug/L	0.57J	250	250	242	242	97	97	75-125	0		
Thallium	ug/L	4.0J	500	500	407	409	81	81	75-125	.5		
Tin	ug/L	33.6	500	500	506	506	94	94	75-125	0		
Vanadium	ug/L	2.2J	500	500	461	461	92	92	75-125	0		
Zinc	ug/L	14.3	500	500	460	464	89	90	75-125	.9		

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MSV/2189 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9210386001, 9210386002, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

METHOD BLANK: 59463
Associated Lab Samples: 9210386001, 9210386002, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

METHOD BLANK: 59463

Associated Lab Samples: 9210386001, 9210386002, 9210386003, 9210386004, 9210386005, 9210386006, 9210386007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	98	79-120	
4-Bromofluorobenzene (S)	%	102	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 59464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	83-125	
1,1,1-Trichloroethane	ug/L	50	56.9	114	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	44.1	88	73-127	
1,1,2-Trichloroethane	ug/L	50	55.5	111	77-123	
1,1-Dichloroethane	ug/L	50	56.6	113	76-129	
1,1-Dichloroethene	ug/L	50	52.6	105	78-146	
1,2,3-Trichloropropane	ug/L	50	52.6	105	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	81-125	
1,2-Dichlorobenzene	ug/L	50	53.0	106	82-126	
1,2-Dichloroethane	ug/L	50	52.6	105	72-126	
1,2-Dichloroethene (Total)	ug/L	100	99.5	100	50-150	
1,2-Dichloropropane	ug/L	50	55.5	111	80-127	
1,4-Dichlorobenzene	ug/L	50	51.4	103	79-125	
2-Butanone (MEK)	ug/L	100	105	105	50-134	
2-Hexanone	ug/L	100	118	118	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-131	
Acetone	ug/L	100	118	118	50-146	
Acrylonitrile	ug/L	250	224	90	66-124	
Benzene	ug/L	50	55.1	110	78-128	
Bromochloromethane	ug/L	50	55.0	110	73-124	
Bromodichloromethane	ug/L	50	59.6	119	81-125	
Bromoform	ug/L	50	51.7	103	71-125	
Bromomethane	ug/L	50	54.5	109	50-150	
Carbon disulfide	ug/L	50	53.8	108	54-150	
Carbon tetrachloride	ug/L	50	57.9	116	81-137	
Chlorobenzene	ug/L	50	55.1	110	82-126	
Chloroethane	ug/L	50	45.2	90	69-140	
Chloroform	ug/L	50	57.5	115	77-129	
Chloromethane	ug/L	50	46.1	92	54-139	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

LABORATORY CONTROL SAMPLE: 59464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	52.5	105	76-133	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	76-127	
Dibromochloromethane	ug/L	50	50.7	101	77-125	
Dibromomethane	ug/L	50	54.1	108	77-125	
Ethylbenzene	ug/L	50	54.2	108	80-127	
Iodomethane	ug/L	100	118	118	65-172	
m&p-Xylene	ug/L	100	109	109	82-127	
Methylene Chloride	ug/L	50	50.8	102	67-133	
o-Xylene	ug/L	50	54.9	110	83-124	
Styrene	ug/L	50	56.2	112	80-130	
Tetrachloroethene	ug/L	50	52.9	106	78-128	
Toluene	ug/L	50	54.0	108	76-126	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	78-134	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	45.9	92	51-140	
Trichloroethene	ug/L	50	58.5	117	79-127	
Trichlorofluoromethane	ug/L	50	62.6	125	76-148	
Vinyl acetate	ug/L	100	46.5	46	50-150	L0
Vinyl chloride	ug/L	50	63.4	127	67-143	
Xylene (Total)	ug/L	150	163	109	83-125	
1,2-Dichloroethane-d4 (S)	%			98	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59465 59466

Parameter	Units	9210386002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	43.0	41.0	86	82	60-150	5	30	
Benzene	ug/L	1.8	50	50	56.3	55.6	109	108	74-136	1	30	
Chlorobenzene	ug/L	17.3	50	50	74.2	72.7	114	111	79-135	2	30	
Toluene	ug/L	0.51J	50	50	54.6	54.2	108	107	73-131	.8	30	
Trichloroethene	ug/L	ND	50	50	52.0	50.8	104	102	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						97	95	79-120			
4-Bromofluorobenzene (S)	%						101	101	87-109			
Dibromofluoromethane (S)	%						98	96	85-115			
Toluene-d8 (S)	%						99	101	70-120			

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MSV/2194
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9210386008, 9210386009

METHOD BLANK: 59515
Associated Lab Samples: 9210386008, 9210386009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	4.5J	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

METHOD BLANK: 59515

Associated Lab Samples: 9210386008, 9210386009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	96	79-120	
4-Bromofluorobenzene (S)	%	100	87-109	
Dibromofluoromethane (S)	%	101	85-115	
Toluene-d8 (S)	%	100	70-120	

LABORATORY CONTROL SAMPLE: 59516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	109	83-125	
1,1,1-Trichloroethane	ug/L	50	56.0	112	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.5	105	73-127	
1,1,2-Trichloroethane	ug/L	50	49.8	100	77-123	
1,1-Dichloroethane	ug/L	50	59.0	118	76-129	
1,1-Dichloroethene	ug/L	50	58.6	117	78-146	
1,2,3-Trichloropropane	ug/L	50	55.7	111	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	56.8	114	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	81-125	
1,2-Dichlorobenzene	ug/L	50	59.0	118	82-126	
1,2-Dichloroethane	ug/L	50	56.3	113	72-126	
1,2-Dichloroethene (Total)	ug/L	100	111	111	50-150	
1,2-Dichloropropane	ug/L	50	59.6	119	80-127	
1,4-Dichlorobenzene	ug/L	50	56.5	113	79-125	
2-Butanone (MEK)	ug/L	100	104	104	50-134	
2-Hexanone	ug/L	100	104	104	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-131	
Acetone	ug/L	100	104	104	50-146	
Acrylonitrile	ug/L	250	297	119	66-124	
Benzene	ug/L	50	58.7	117	78-128	
Bromochloromethane	ug/L	50	58.1	116	73-124	
Bromodichloromethane	ug/L	50	59.9	120	81-125	
Bromoform	ug/L	50	56.7	113	71-125	
Bromomethane	ug/L	50	62.5	125	50-150	
Carbon disulfide	ug/L	50	60.9	122	54-150	
Carbon tetrachloride	ug/L	50	62.9	126	81-137	
Chlorobenzene	ug/L	50	58.2	116	82-126	
Chloroethane	ug/L	50	58.3	117	69-140	
Chloroform	ug/L	50	56.8	114	77-129	
Chloromethane	ug/L	50	57.2	114	54-139	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

LABORATORY CONTROL SAMPLE: 59516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	56.9	114	76-133	
cis-1,3-Dichloropropene	ug/L	50	55.6	111	76-127	
Dibromochloromethane	ug/L	50	55.3	111	77-125	
Dibromomethane	ug/L	50	58.8	118	77-125	
Ethylbenzene	ug/L	50	57.0	114	80-127	
Iodomethane	ug/L	100	117	117	65-172	
m&p-Xylene	ug/L	100	114	114	82-127	
Methylene Chloride	ug/L	50	56.2	112	67-133	
o-Xylene	ug/L	50	56.3	113	83-124	
Styrene	ug/L	50	52.6	105	80-130	
Tetrachloroethene	ug/L	50	55.2	110	78-128	
Toluene	ug/L	50	57.7	115	76-126	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	78-134	
trans-1,3-Dichloropropene	ug/L	50	56.3	113	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	47.5	95	51-140	
Trichloroethene	ug/L	50	59.6	119	79-127	
Trichlorofluoromethane	ug/L	50	60.4	121	76-148	
Vinyl acetate	ug/L	100	89.7	90	50-150	
Vinyl chloride	ug/L	50	61.4	123	67-143	
Xylene (Total)	ug/L	150	171	114	83-125	
1,2-Dichloroethane-d4 (S)	%			99	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59530 59531

Parameter	Units	9210356001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	51.6	44.0	103	88	60-150	16	30	
Benzene	ug/L	ND	50	50	60.3	52.2	121	104	74-136	14	30	
Chlorobenzene	ug/L	ND	50	50	61.7	54.0	123	108	79-135	13	30	
Toluene	ug/L	ND	50	50	59.7	51.9	119	104	73-131	14	30	
Trichloroethene	ug/L	ND	50	50	60.2	52.2	120	104	73-131	14	30	
1,2-Dichloroethane-d4 (S)	%						94	95	79-120			
4-Bromofluorobenzene (S)	%						99	100	87-109			
Dibromofluoromethane (S)	%						99	98	85-115			
Toluene-d8 (S)	%						99	99	70-120			

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MSV/2201
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9210386010

METHOD BLANK: 59592
Associated Lab Samples: 9210386010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

METHOD BLANK: 59592

Associated Lab Samples: 9210386010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	98	79-120	
4-Bromofluorobenzene (S)	%	102	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 59593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	83-125	
1,1,1-Trichloroethane	ug/L	50	56.9	114	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	44.1	88	73-127	
1,1,2-Trichloroethane	ug/L	50	55.5	111	77-123	
1,1-Dichloroethane	ug/L	50	56.6	113	76-129	
1,1-Dichloroethene	ug/L	50	52.6	105	78-146	
1,2,3-Trichloropropane	ug/L	50	52.6	105	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	81-125	
1,2-Dichlorobenzene	ug/L	50	53.0	106	82-126	
1,2-Dichloroethane	ug/L	50	52.6	105	72-126	
1,2-Dichloroethene (Total)	ug/L	100	99.5	100	50-150	
1,2-Dichloropropane	ug/L	50	55.5	111	80-127	
1,4-Dichlorobenzene	ug/L	50	51.4	103	79-125	
2-Butanone (MEK)	ug/L	100	105	105	50-134	
2-Hexanone	ug/L	100	118	118	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-131	
Acetone	ug/L	100	118	118	50-146	
Acrylonitrile	ug/L	250	224	90	66-124	
Benzene	ug/L	50	55.1	110	78-128	
Bromochloromethane	ug/L	50	55.0	110	73-124	
Bromodichloromethane	ug/L	50	59.6	119	81-125	
Bromoform	ug/L	50	51.7	103	71-125	
Bromomethane	ug/L	50	54.5	109	50-150	
Carbon disulfide	ug/L	50	53.8	108	54-150	
Carbon tetrachloride	ug/L	50	57.9	116	81-137	
Chlorobenzene	ug/L	50	55.1	110	82-126	
Chloroethane	ug/L	50	45.2	90	69-140	
Chloroform	ug/L	50	57.5	115	77-129	
Chloromethane	ug/L	50	46.1	92	54-139	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

LABORATORY CONTROL SAMPLE: 59593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	52.5	105	76-133	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	76-127	
Dibromochloromethane	ug/L	50	50.7	101	77-125	
Dibromomethane	ug/L	50	54.1	108	77-125	
Ethylbenzene	ug/L	50	54.2	108	80-127	
Iodomethane	ug/L	100	118	118	65-172	
m&p-Xylene	ug/L	100	109	109	82-127	
Methylene Chloride	ug/L	50	50.8	102	67-133	
o-Xylene	ug/L	50	54.9	110	83-124	
Styrene	ug/L	50	56.2	112	80-130	
Tetrachloroethene	ug/L	50	52.9	106	78-128	
Toluene	ug/L	50	54.0	108	76-126	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	78-134	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	45.9	92	51-140	
Trichloroethene	ug/L	50	58.5	117	79-127	
Trichlorofluoromethane	ug/L	50	62.6	125	76-148	
Vinyl acetate	ug/L	100	46.5	46	50-150	L0
Vinyl chloride	ug/L	50	63.4	127	67-143	
Xylene (Total)	ug/L	150	163	109	83-125	
1,2-Dichloroethane-d4 (S)	%			98	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			101	70-120	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MERP/1258
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9210386010

METHOD BLANK: 59673
Associated Lab Samples: 9210386010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 59674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE SAMPLE: 59675

Parameter	Units	9210384007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	105	75-125	

SAMPLE DUPLICATE: 59676

Parameter	Units	9210368003 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

QC Batch: MPRP/1708
QC Batch Method: EPA 3010
Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9210386010

METHOD BLANK: 61189
Associated Lab Samples: 9210386010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Cobalt	ug/L	1.8J	5.0	
Copper	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	
Thallium	ug/L	ND	5.4	
Tin	ug/L	ND	5.0	
Vanadium	ug/L	ND	5.0	
Zinc	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 61190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	522	104	80-120	
Arsenic	ug/L	500	526	105	80-120	
Barium	ug/L	500	508	102	80-120	
Beryllium	ug/L	500	518	104	80-120	
Cadmium	ug/L	500	521	104	80-120	
Chromium	ug/L	500	521	104	80-120	
Cobalt	ug/L	500	514	103	80-120	
Copper	ug/L	500	517	103	80-120	
Lead	ug/L	500	519	104	80-120	
Nickel	ug/L	500	522	104	80-120	
Selenium	ug/L	500	518	104	80-120	
Silver	ug/L	250	255	102	80-120	
Thallium	ug/L	500	506	101	80-120	
Tin	ug/L	500	523	105	80-120	
Vanadium	ug/L	500	522	104	80-120	
Zinc	ug/L	500	513	103	80-120	

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QUALITY CONTROL DATA

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

MATRIX SPIKE SAMPLE: 61191

Parameter	Units	9210368003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	484	97	75-125	
Arsenic	ug/L	ND	500	487	97	75-125	
Barium	ug/L	11.7	500	475	93	75-125	
Beryllium	ug/L	ND	500	475	95	75-125	
Cadmium	ug/L	ND	500	473	95	75-125	
Chromium	ug/L	ND	500	474	95	75-125	
Cobalt	ug/L	ND	500	475	95	75-125	
Copper	ug/L	9.8	500	484	95	75-125	
Lead	ug/L	ND	500	469	94	75-125	
Nickel	ug/L	ND	500	473	94	75-125	
Selenium	ug/L	ND	500	474	95	75-125	
Silver	ug/L	ND	250	234	94	75-125	
Thallium	ug/L	ND	500	459	92	75-125	
Tin	ug/L	ND	500	477	95	75-125	
Vanadium	ug/L	0.57J	500	478	95	75-125	
Zinc	ug/L	102	500	566	93	75-125	

SAMPLE DUPLICATE: 61192

Parameter	Units	9210386010 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND	179	25	
Barium	ug/L	11.5	11.8	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND	7	25	
Cobalt	ug/L	1.7J	ND		25	
Copper	ug/L	9.7	9.9	2	25	
Lead	ug/L	ND	ND	4	25	
Nickel	ug/L	ND	ND	6	25	
Selenium	ug/L	ND	ND	10	25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND	90	25	
Tin	ug/L	ND	ND	91	25	
Vanadium	ug/L	0.62J	0.58J	7	25	
Zinc	ug/L	98.3	100	2	25	

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QUALIFIERS

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R2	RPD value was outside control limits due to matrix interference
1g	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRANVILLE CO-BUTNER 660.06.24
Pace Project No.: 9210386

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9210386010	**EQUIPMENT BLANK**	SM 4500-S2D	WET/2504		
9210386010	**EQUIPMENT BLANK**	EPA 3535	OEXT/2058	EPA 8081	GCSV/1927
9210386001	**3902-MW-1R**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386002	**3902-MW-2R MS-MSD**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386003	**3902-MW-3R**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386004	**3902-MW-4**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386005	**3902-MW-5**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386006	**3902-MW-6**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386007	**3902-NES-1**	EPA 3535	OEXT/2061	EPA 8081	GCSV/1908
9210386001	**3902-MW-1R**	EPA 3010	MPRP/1659	EPA 6010 GW North Carolina	ICP/1638
9210386003	**3902-MW-3R**	EPA 3010	MPRP/1659	EPA 6010 GW North Carolina	ICP/1638
9210386004	**3902-MW-4**	EPA 3010	MPRP/1659	EPA 6010 GW North Carolina	ICP/1638
9210386005	**3902-MW-5**	EPA 3010	MPRP/1659	EPA 6010 GW North Carolina	ICP/1638
9210386006	**3902-MW-6**	EPA 3010	MPRP/1659	EPA 6010 GW North Carolina	ICP/1638
9210386007	**3902-NES-1**	EPA 3010	MPRP/1659	EPA 6010 GW North Carolina	ICP/1638
9210386002	**3902-MW-2R MS-MSD**	EPA 3010	MPRP/1682	EPA 6010 GW North Carolina	ICP/1656
9210386008	**3902-SW-1**	EPA 3010	MPRP/1682	EPA 6010 GW North Carolina	ICP/1656
9210386009	**3902-SW-2**	EPA 3010	MPRP/1682	EPA 6010 GW North Carolina	ICP/1656
9210386001	**3902-MW-1R**	EPA 8260	MSV/2189		
9210386002	**3902-MW-2R MS-MSD**	EPA 8260	MSV/2189		
9210386003	**3902-MW-3R**	EPA 8260	MSV/2189		
9210386004	**3902-MW-4**	EPA 8260	MSV/2189		
9210386005	**3902-MW-5**	EPA 8260	MSV/2189		
9210386006	**3902-MW-6**	EPA 8260	MSV/2189		
9210386007	**3902-NES-1**	EPA 8260	MSV/2189		
9210386008	**3902-SW-1**	EPA 8260	MSV/2194		
9210386009	**3902-SW-2**	EPA 8260	MSV/2194		
9210386010	**EQUIPMENT BLANK**	EPA 8260	MSV/2201		
9210386010	**EQUIPMENT BLANK**	EPA 7470	MERP/1258	EPA 7470	MERC/1258
9210386010	**EQUIPMENT BLANK**	EPA 3010	MPRP/1708	EPA 6010 GW North Carolina	ICP/1680

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Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386001 3902-MW 1 R
Project:	9210386	**Collection Date:**	12/19/2007 12:15:00 PM
Lab ID:	0712E13-001	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/27/2007 11:28 PM
Surr: DCAA	67.4	43-145		%REC	94766	1	12/27/2007 11:28 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386002 3902-MW 2 R
Project:	9210386	**Collection Date:**	12/19/2007 3:35:00 PM
Lab ID:	0712E13-002	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/27/2007 7:54 PM
Surr: DCAA	85.6	43-145		%REC	94766	1	12/27/2007 7:54 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386003 3902-MW 3 R
Project:	9210386	**Collection Date:**	12/19/2007 3:00:00 PM
Lab ID:	0712E13-003	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/27/2007 11:55 PM
Surr: DCAA	101	43-145		%REC	94766	1	12/27/2007 11:55 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386004 3902-MW 4
Project:	9210386	**Collection Date:**	12/19/2007 2:05:00 PM
Lab ID:	0712E13-004	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/28/2007 12:22 AM
Surr: DCAA	92.0	43-145		%REC	94766	1	12/28/2007 12:22 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386005 3902-MW-5
Project:	9210386	**Collection Date:**	12/19/2007 1:25:00 PM
Lab ID:	0712E13-005	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/28/2007 12:49 AM
Surr: DCAA	89.5	43-145		%REC	94766	1	12/28/2007 12:49 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386006 3902-MW-6
Project:	9210386	**Collection Date:**	12/19/2007 1:00:00 PM
Lab ID:	0712E13-006	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/28/2007 1:16 AM
Surr: DCAA	85.2	43-145		%REC	94766	1	12/28/2007 1:16 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *04-Jan-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	9210386007 3902-NES-1
Project:	9210386	**Collection Date:**	12/19/2007 5:10:00 PM
Lab ID:	0712E13-007	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
CHLORINATED HERBICIDES, APPENDIX II LIST		**SW8151A**			**(SW3510B)**		Analyst: **EI**
2,4-D	BRL	2.0		µg/L	94766	1	12/28/2007 1:42 AM
Surr: DCAA	101	43-145		%REC	94766	1	12/28/2007 1:42 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1136640

Section A Required Client Information:

Company: JOYCE ENGINEERING, INC. (JEI)
Address: 2211 W. MEADOWVIEW RD, STE 101
GREENSBORO, NC 27407
Email To: vburbach@joyceengineering.com
Phone: 336-323-0092 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:

Report To: VAN BURBACH
Copy To:
Purchase Order No.:
Project Name: GRANVILLE CO. - BUTNER
Project Number: 660.06.24

Section C Invoice Information:

Attention: JASON FALLS
Company Name: GRANVILLE CO.
Address:
Pace Quote Reference: K. DILLON'S PROP. TO JEI
Pace Project Manager: KEVIN GODWIN
Pace Profile #: 2327-5

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME (24 HR)	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOA 8260B (NC APPI)	METALS, total (NC APPI + Sn)	PEST. 8081 Detects	Semi-VOA 8270 Detects	PCBs 8082 Detects	HERB. 8151 Detects	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92103860
1	3902-MW-1R	WT	G			12-19-07	12:15	12.3	8	X		X	X					X	X	X	X	X	X		NC Appendix I, NC App II detects*
2	3902-MW-2R (MS/MSD)	WT	G			12-19-07	15:35	12.5	16	X		X	X					X	X	X	X	X	X		"
3	3902-MW-3R	"	"			"	15:00	13.1	8	"		"	"					X	X	X	X	X	X		
4	3902-MW-4						14:05	14.4	8									X	X	X	X	X	X		
5	3902-MW-5						13:25	14.9	"									X	X	X	X	X	X		
6	3902-MW-6						13:00	14.4										X	X	X	X	X	X		
7	3902-NES-1						17:10	13.3	8									X	X	X	X	X	X		
8	3902-SW-1						13:40	3.8	4									X	X						NC Appl Only (NOT IN)
9	3902-SW-2						16:20	6.8	4									X	X						NC Appl Only (NOT IN)
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NC App II DETECTS ONLY: Tin;	Daniel A. Girdner/JEI	12/20/07	06:30	pace	12/20/07	11:10				
gamma-BHC; Heptachlor; 2,4-D		12-20-07	13:17		12/20/07	13:17	4.2	yes	no	yes
Please include results from the TRIP BLANK and the										
EQUIPMENT BLANK on the OXFORD COC										
ON THE BUTNER REPORT ALSO							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DANIEL GIRDNER, ROBERT WINFIELD

SIGNATURE of SAMPLER: Daniel A. Girdner / RWF DATE Signed (MM/DD/YY): 12/19/07

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.