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):

Joyce Engineering, Inc.

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

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

E-mail: jkerly@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Coble's Sandrock, Inc. C&D Landfill	5833 Foster Store Road Liberty, NC 27298	01-05	.0500	October 11, 2007 December 28, 2007

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.

Jeremey J. Kerly	Project Consultant	(336) 323-0092
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature 2-27-08 Date

Affix NC Licensed Professional Geologist Seal

Revised 10/2006

Prepared for:

Coble's Sandrock
5833 Foster Store Road
Liberty, NC 27298

JEI Project Number 419.00, Task 28

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2007
COBLE'S SANDROCK WASTE MANAGEMENT FACILITY
ALAMANCE COUNTY, NORTH CAROLINA
PERMIT NUMBER 01-05

February 2008

Prepared by:

JOYCE
ENGINEERING, INC.

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Greensboro, North Carolina 27407
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Waste Industry Experts

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February 27, 2008

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

RE: Coble's Sandrock C&D Landfill
Permit No. 01-05
Second Semiannual Groundwater Monitoring Report of 2007
JEI Project No. 419.00, Task 28

Dear Ethan,

Enclosed is a report of the laboratory analytical results for the water quality monitoring that was conducted in October 2007 at the Coble's Sandrock C&D Landfill. In accordance with the revised Groundwater Monitoring Plan, approved May 20, 2003, monitoring wells MW-1, -2, -4, -6 and -7 and surface water points SW-1 and SW-2 were sampled on October 11, 2007. The samples were sent to Air, Water, and Soil Laboratories, Inc. and analyzed for the NC Appendix I list of volatile organic compounds and the eight RCRA metals.

A summary of the October 2007 detections for Coble's Sandrock is included as Table 1. A summary of historical detected constituents can be found in Table 2. Due to the dry weather conditions MW-1, SW-1, and SW-2 were unable to be sampled. Cis-1,2-Dichloroethylene was the only organic constituent detected above the laboratory detection limits during the second semiannual groundwater monitoring event of 2007 in MW-7. Barium was detected at estimated concentrations in MW-4 and MW-6, while barium was also detected at a quantified concentration in MW-2 and MW-7. Cadmium detected above the laboratory detection limits in MW-2. Chromium was detected in MW-2 and MW-7 at a quantified concentration and at an estimated concentration in MW-4 and MW-6. The chromium detection in MW-2 were greater than the NC 2L Standards and EPA MCL levels. MW-2 was resampled on December 28, 2007 and the chromium concentration was less than the NC 2L Standards and EPA MCL levels. A summary of recent groundwater elevations is included as Table 3. The laboratory data report, field information forms, a groundwater elevation contour map, and a compact disc containing the laboratory report for this event are also enclosed in this report.

The next semiannual monitoring event is scheduled to take place in April 2008. If you have any questions, please feel free to contact me or Michelle Brown at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING, INC.

Jeremey J. Kerly, P.G.
Project Consultant

Attachments:

Tables

Table 1 Summary of October 2007 Detected Constituents
Table 2 Summary of Historically Detected Constituents
Table 3 Summary of Groundwater Elevations

Laboratory Data Report and Field Information Forms

Drawing

Groundwater Elevation Contour Map – Drawing DH-1

C: Kent Coble - Coble's Sandrock C&D Landfill
File

Tables

Table 1 Summary of October 2007 Detected Constituents
Table 2 Summary of Historically Detected Constituents
Table 3 Summary of Groundwater Elevations

Table 1

Summary of October 2007 Detected Constituents

Constituent	DL	RL	MW-2	MW-4	MW-6	MW-7	Blanks
Barium	2.0	100	478	45.8 B	38.2 B	241	35.8 J
Cadmium	0.1	1	0.4 J	ND	ND	ND	ND
Chromium	2.0	10	121 (15.7)	5.8 J	1.7 J	12.7	ND
Cis-1,2-Dichloroethylene	0.2	1	ND	ND	ND	0.40 J	ND

Notes:

1. ND = Non detected above laboratory detection limit.
2. - = Not analyzed
3. B = Blank qualified detections.
4. DL = Laboratory detection limit.
5. RL = Laboratory reporting limit (NC SWSL {or lower} beginning in April 2007 to present).
6. J = Estimated value between the DL and the RL.
7. NC SWSL = North Carolina Solid Waste Section Limits.
8. ( ) = December 2007 resampling result.

TABLE 2

SUMMARY OF HISTORICALLY DETECTED CONSTITUENTS

PARAMETER (NC 2L Standard); {EPA MCL} in µg/L	Date	Concentrations (µg/L)																				Blanks	
		DL	RL	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		SW-1		SW-2			
Arsenic	Apr-00	8	10	ND		ND		10	J	ND		-		-		-		ND		ND		ND	
(50)	Nov-00	-	10	ND		ND		ND		ND		-		-		-		ND		ND		ND	
{10}	Apr-01	-	10	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Dec-01	-	10	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Apr-02	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-02	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Apr-03	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-03	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-04	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-04	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-05	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-05	-	10	-		ND		-		ND		-		ND		ND		ND		-		ND	
	Apr-06	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-06	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-07	2.0	10	ND		ND		-		2.0	B	-		ND		ND		ND		2.6	B	2.1	J
	Oct-07	3.0	10	-		ND		-		ND		-		ND		ND		-		-		ND	
Barium	Apr-00	2	8	240		180		340		ND		-		-		-		ND		ND		ND	
(2000)	Nov-00	-	500	ND		ND		ND		ND		-		-		-		ND		ND		ND	
{2000}	Apr-01	-	500	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Dec-01	-	500	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Apr-02	-	500	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-02	-	500	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Apr-03	-	500	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-03	-	500	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-04	-	500	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-04	-	500	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-05	-	500	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-05	-	500	-		ND		-		ND		-		ND		ND		ND		-		ND	
	Apr-06	-	500	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-06	-	500	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-07	0.20	100	19.4	J	66.0	J	-		24.9	J	-		58.8	J	140		28.1	J	40.7	J	0.30	J
	Oct-07	2.0	100	-		478		-		45.8	B	-		38.2	B	241		-		-		35.8	J
Cadmium	Apr-00	1	4	2	J	2	J	4		ND		-		-		-		ND		ND		ND	
(1.75)	Nov-00	-	1	2		ND		ND		ND		-		-		-		ND		ND		ND	
{5}	Apr-01	-	1	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Dec-01	-	1	3.5		1.0		ND		ND		-		-		-		1.4		ND		ND	
	Apr-02	-	1	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-02	-	1	1.3		ND		ND		1.2		1.0		-		-		ND		ND		ND	
	Apr-03	-	1	2.0		1.4		1.9		1.7		2.6		-		-		1.2		1.2		ND	
	Nov-03	-	1	3.2		1.1		-		1.4		-		ND		ND		ND		ND		ND	
	Apr-04	-	1	ND		1.7		-		ND		-		1.8		ND		ND		ND		ND	
	Oct-04	-	1	ND		ND		-		ND		-		1		ND		ND		ND		ND	
	Apr-05	-	1	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-05	-	1	-		ND		-		ND		-		ND		ND		ND		-		ND	
	Apr-06	-	1	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-06	-	1.00	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-07	0.50	1	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-07	0.1	1	-		0.4	J	-		ND		-		ND		ND		-		-		ND	
Chromium	Apr-00	3	12	36		30		76		10	J	-		-		-		ND		ND		ND	
(50)	Nov-00	-	10	15		ND		ND		ND		-		-		-		ND		ND		ND	
{100}	Apr-01	-	10	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Dec-01	-	10	31		10		ND		ND		-		-		-		ND		ND		ND	
	Apr-02	-	10	ND		ND		ND		ND		ND		-		-		ND		310		45	
	Nov-02	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Apr-03	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-03	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-04	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-04	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-05	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-05	-	10	-		14		-		ND		-		ND		ND		ND		-		ND	
	Apr-06	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-06	-	10.0	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-07	2.0	10	ND		10.9		-		3.8	J	-		ND		ND		ND		ND		ND	
	Oct-07	1.0	10	-		121		-		5.8	J	-		1.7	J	12.7		-		-		ND	
Resample	Dec-07	1.0	10	-		15.7		-		-		-		-		-		-		-		ND	
Lead	Apr-00	3	12	5	J	5	J	19		ND		-		-		-		ND		ND		ND	
(15)	Nov-00	-	10	ND		ND		ND		ND		-		-		-		ND		ND		ND	
{15}*	Apr-01	-	10	ND		ND		ND		ND		-		-		-		ND		ND		ND	
	Dec-01	-	10	11		ND		ND		ND		-		-		-		ND		ND		ND	
	Apr-02	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-02	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Apr-03	-	10	ND		ND		ND		ND		ND		-		-		ND		ND		ND	
	Nov-03	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-04	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-04	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-05	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-05	-	10	-		ND		-		ND		-		ND		ND		ND		-		ND	
	Apr-06	-	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-06	-	10.0	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Apr-07	2.0	10	ND		ND		-		ND		-		ND		ND		ND		ND		ND	
	Oct-07	6.0	10	-		ND		-		ND		-		ND		ND		-		-		ND	

TABLE 2

SUMMARY OF HISTORICALLY DETECTED CONSTITUENTS

PARAMETER (NC 2L Standard); {EPA MCL} in µg/L	Date	Concentrations (µg/L)																						Blanks	
		DL	RL	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		SW-1		SW-2					
Selenium	Apr-00	4	16	ND		ND		13	J	ND		-		-		-		ND		ND				ND	
(50)	Nov-00	-	20	ND		ND		ND		ND		-		-		-		ND		ND				ND	
{50}	Apr-01	-	20	ND		ND		ND		ND		-		-		-		ND		ND				ND	
	Dec-01	-	20	ND		ND		ND		ND		-		-		-		ND		ND				ND	
	Apr-02	-	20	ND		ND		ND		ND		ND		-		-		ND		ND				ND	
	Nov-02	-	20	ND		ND		ND		ND		ND		-		-		ND		ND				ND	
	Apr-03	-	20	ND		ND		ND		ND		ND		-		-		ND		ND				ND	
	Nov-03	-	20	ND		ND		-		ND		-		ND		ND		ND		ND				ND	
	Apr-04	-	20	ND		ND		-		ND		-		ND		ND		ND		ND				ND	
	Oct-04	-	20	ND		ND		-		ND		-		ND		ND		ND		ND				ND	
	Apr-05	-	20	ND		ND		-		ND		-		ND		ND		ND		ND				ND	
	Oct-05	-	20	-		ND		-		ND		-		ND		ND		ND		-				ND	
	Apr-06	-	20	ND		ND		-		ND		-		ND		ND		ND		ND				ND	
	Oct-06	-	20.0	ND		ND		-		ND		-		ND		ND		ND		ND				ND	
	Apr-07	2.0	10	ND		ND		-		ND		-		2.3	B	ND		ND		ND				3.5	J
	Oct-07	2.0	10	-		ND		-		ND		-		ND		ND		ND		ND				ND	
Cis-1,2-Dichloroethylene	Oct-07	0.2	5	-		ND		-		ND		-		ND		0.4	J	-		-				ND	
(10)																									
{70}																									

Notes:

1. All concentrations are in micrograms per liter (mg/L).
2. MW = Groundwater monitoring well.
3. SW = Surface water monitoring point.
4. RL = Laboratory reporting limit (NC SWSL {or lower} beginning in April 2007 to present).
5. DL = Laboratory detection limit.
6. ND = Not detected above laboratory reporting limit November 2000 to October 2006, not detected above laboratory detection limit April 2000 and April 2007 to present.
7. J = Estimated value between the DL and the RL April 2000 and the DL and NC SWSL (or lower) from April 2007 to present.
8. B = Blank qualified data.
9. NC 2L Standard = North Carolina's groundwater quality standard established under 15A NCAC 2L, .0202.
10. Shaded values are above the NC 2L Drinking Water Standards.
11. Bolded values are greater than the EPA's Maximum Contaminant Level.
12. * = Value is an EPA Action Level
13. # = Value is a secondary EPA MCL
14. Sampling of MW-3 and MW-5 was discontinued after the April 2003 event and replaced with MW-6 and MW-7 in response to a modification of the facility permit approved on May 20, 2003.
15. - = No data available/not reported.
16. NC SWSL = North Carolina Solid Waste Section limits.

TABLE 3

SUMMARY OF GROUNDWATER ELEVATIONS

Location	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
TOC Elevation	**602.46**	**582.31**	**613.05**	**582.64**	**577.41**	**652.56**	**583.33**
GW Elevation 04/20/00	569.59	569.81	579.91	569.07	N/I	N/A	N/I
GW Elevation 08/15/00	568.21	566.97	578.23	568.08	N/I	627.42	N/I
GW Elevation 10/15/00	569.30	568.55	578.25	568.81	N/I	N/A	N/I
GW Elevation 11/30/00	568.09	566.87	577.47	567.04	N/I	627.30	N/I
GW Elevation 04/10/01	571.48	569.72	578.67	569.06	N/I	627.17	N/I
GW Elevation 12/11/01	567.28	565.31	575.90	566.21	N/I	621.78	N/I
GW Elevation 04/30/02	568.17	567.84	576.09	568.21	569.32	623.94	N/I
GW Elevation 11/21/02	570.60	570.36	578.47	569.74	570.45	626.32	N/I
GW Elevation 04/29/03	571.66	569.18	579.70	568.84	570.32	633.40	574.38
GW Elevation 11/11/03	568.49	567.38	578.54	567.47	569.59	632.53	572.44
GW Elevation 04/20/04	568.54	568.44	578.92	567.83	569.86	630.13	573.63
GW Elevation 10/19/04	567.86	567.92	577.61	567.91	570.30	628.60	573.30
GW Elevation 04/19/05	568.90	568.69	578.54	568.16	570.76	630.65	574.54
GW-Elevation 10/20/05	567.16	565.52	576.33	566.43	569.12	625.65	571.24
GW-Elevation 04/27/06	567.84	569.36	-	569.34	-	624.46	572.77
GW-Elevation 10/11/06	567.91	567.22	577.59	568.29	570.11	624.45	571.77
GW-Elevation 04/19/07	570.33	570.04	-	569.38	571.49	629.42	574.94
GW-Elevation 10/11/07	566.74	563.35	-	564.43	-	624.91	570.18

Notes:

1. Water levels were measured to the nearest hundreth of a foot.
2. Water levels are measured from top of casing (TOC).
3. N/A = piezometer data were not available for sampling due to damaged casing.
4. N/I = not installed.
5. Piezometer P-3 was converted to monitoring well MW-6 before the November 2003 sampling event.
6. - = Not measured.

Laboratory Data Report and Field Information Forms

AIR WATER & SOIL LABORATORIES, INC.®
2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804) 358-8295 Fax: (804) 358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 07100227

Client Name:	Joyce Engineering, Inc.-Greensboro 2211 W Meadowview Rd. Suite 101 Greensboro,NC 27407	Date Issued:	February 11, 2008
Submitted To:	Jeremey Kerly	Project Number	419.00.28
Client Site I.D.:	Cobles Sandrock C&D	Purchase Order	NA

Laboratory Sample ID	Sample ID	Sample Date	Receive Date
07100227-001	0105-MW2	October 11, 2007	October 12, 2007
07100227-002	0105-MW4	October 11, 2007	October 12, 2007
07100227-003	0105-MW6	October 11, 2007	October 12, 2007
07100227-004	0105-MW7	October 11, 2007	October 12, 2007
07100227-005	Equipment Blank	October 11, 2007	October 12, 2007
07100227-006	Trip Blank	October 11, 2007	October 12, 2007

On October 12, 2007, five water samples and one trip blank were received via courier for analysis per the attached Chain-Of-Custody. The samples were received with sample containers intact by Georgianna Wenrich (AWS). Upon laboratory receipt, no deviations, discrepancies or irregularities were observed in sample condition, including holding times, temperature, containers or preservatives other than those notated on the chain-of-custody.

The samples were prepared and analyzed in accordance with SW-846 methodology. QA/QC results will be presented in a Level 2 Data Package to follow.

On February 11, 2008, Acetonitrile was removed and Acrylonitrile added.

Definition of Terms:
LOQ = Limit of Quantitation
LOD = Limit of Detection
BLOD = Below the Limit of Detection
J2 = Qualifier used if the reported concentration is less than the North Carolina SWSL but greater than the LOD.

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Certificate of Analysis

Final Report

Laboratory Order ID 07100227

Client Name:	Joyce Engineering, Inc.-Greensboro 2211 W Meadowview Rd. Suite 101 Greensboro,NC 27407	Date Issued:	February 11, 2008
Submitted To:	Jeremey Kerly	Project Number	419.00.28
Client Site I.D.:	Cobles Sandrock C&D	Purchase Order	NA

Ted Soyars
Laboratory Manager

Air Water & Soil Laboratories, Inc.
2109 A. North Hamilton Street
Richmond, Virginia 23230
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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Arsenic	7440-38-2	SW6010B	0105-MW2	07100227-001	10/11/07	10/17/07 19:22	BLOD		3.0	10.0	1	ug/L
Barium	7440-39-3	SW6010B	0105-MW2	07100227-001	10/11/07	10/17/07 19:22	478		2.0	10.0	1	ug/L
Cadmium	7440-43-9	SW7131A	0105-MW2	07100227-001	10/11/07	11/01/07 9:51	0.4	J2	0.1	0.3	1	ug/L
Chromium	7440-47-3	SW6010B	0105-MW2	07100227-001	10/11/07	10/17/07 19:22	121		1.0	10.0	1	ug/L
Lead	7439-92-1	SW6010B	0105-MW2	07100227-001	10/11/07	10/17/07 19:22	BLOD		6.0	10.0	1	ug/L
Mercury	7439-97-6	SW7470A	0105-MW2	07100227-001	10/11/07	10/16/07 12:14	BLOD		0.2	0.2	1	ug/L
Selenium	7782-49-2	SW7740	0105-MW2	07100227-001	10/11/07	10/30/07 11:00	BLOD		2.0	10.0	1	ug/L
Silver	7440-22-4	SW6010B	0105-MW2	07100227-001	10/11/07	10/17/07 19:22	BLOD		2.0	10.0	1	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.1	1.0	1	ug/L
1,1,1-Trichloroethane	71-55-6	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethane	75-34-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethylene	75-35-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
1,2,3-Trichloropropane	96-18-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.4	1.0	1	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.4	4.0	1	ug/L
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.4	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
1,2-Dichloroethane	107-06-2	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
2-Butanone (MEK)	78-93-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.7	10.0	1	ug/L
2-Hexanone (MBK)	591-78-6	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.7	10.0	1	ug/L
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.2	10.0	1	ug/L
Acetone	67-64-1	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		7.0	10.0	1	ug/L
Acrylonitrile	107-13-1	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.7	10.0	1	ug/L
Benzene	71-43-2	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Bromochloromethane	74-97-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.4	1.0	1	ug/L
Bromodichloromethane	75-27-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L

Air Water & Soil Laboratories, Inc.
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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Bromoform	75-25-2	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	1.0	1	ug/L
Bromomethane	74-83-9	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Carbon disulfide	75-15-0	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.0	10.0	1	ug/L
Carbon tetrachloride	56-23-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Chlorobenzene	108-90-7	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.1	1.0	1	ug/L
Chloroethane	75-00-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Chloroform	67-66-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Chloromethane	74-87-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	1.0	1	ug/L
cis-1,2-Dichloroethylene	156-59-2	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Dibromochloromethane	124-48-1	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Dibromomethane	74-95-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	1.0	1	ug/L
Ethylbenzene	100-41-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.1	1.0	1	ug/L
Iodomethane	74-88-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.7	10.0	1	ug/L
Methylene chloride	75-09-2	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.0	1.0	1	ug/L
Styrene	100-42-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.1	1.0	1	ug/L
Tetrachloroethylene (PCE)	127-18-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Toluene	108-88-3	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
trans-1,2-Dichloroethylene	156-60-5	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		1.1	4.0	1	ug/L
Trichloroethylene	79-01-6	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Vinyl acetate	108-05-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		2.2	10.0	1	ug/L
Vinyl chloride	75-01-4	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.2	1.0	1	ug/L
Xylenes, Total	1330-20-7	SW8260B	0105-MW2	07100227-001	10/11/07	10/23/07 4:14	BLOD		0.3	3.0	1	ug/L
Arsenic	7440-38-2	SW6010B	0105-MW4	07100227-002	10/11/07	10/17/07 19:33	BLOD		3.0	10.0	1	ug/L
Barium	7440-39-3	SW6010B	0105-MW4	07100227-002	10/11/07	10/17/07 19:33	45.8	J2	2.0	10.0	1	ug/L

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Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Cadmium	7440-43-9	SW7131A	0105-MW4	07100227-002	10/11/07	11/01/07 10:08	BLOD		0.1	0.3	1	ug/L
Chromium	7440-47-3	SW6010B	0105-MW4	07100227-002	10/11/07	10/17/07 19:33	5.8	J2	1.0	10.0	1	ug/L
Lead	7439-92-1	SW6010B	0105-MW4	07100227-002	10/11/07	10/17/07 19:33	BLOD		6.0	10.0	1	ug/L
Mercury	7439-97-6	SW7470A	0105-MW4	07100227-002	10/11/07	10/16/07 12:26	BLOD		0.2	0.2	1	ug/L
Selenium	7782-49-2	SW7740	0105-MW4	07100227-002	10/11/07	10/30/07 11:18	BLOD		2.0	10.0	1	ug/L
Silver	7440-22-4	SW6010B	0105-MW4	07100227-002	10/11/07	10/17/07 19:33	BLOD		2.0	10.0	1	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.1	1.0	1	ug/L
1,1,1-Trichloroethane	71-55-6	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethane	75-34-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethylene	75-35-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
1,2,3-Trichloropropane	96-18-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.4	1.0	1	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.4	4.0	1	ug/L
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.4	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
1,2-Dichloroethane	107-06-2	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
2-Butanone (MEK)	78-93-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.7	10.0	1	ug/L
2-Hexanone (MBK)	591-78-6	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.7	10.0	1	ug/L
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.2	10.0	1	ug/L
Acetone	67-64-1	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		7.0	10.0	1	ug/L
Acrylonitrile	107-13-1	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.7	10.0	1	ug/L
Benzene	71-43-2	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Bromochloromethane	74-97-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.4	1.0	1	ug/L
Bromodichloromethane	75-27-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Bromoform	75-25-2	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	1.0	1	ug/L
Bromomethane	74-83-9	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L

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Certificate of Analysis

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Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Carbon disulfide	75-15-0	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.0	10.0	1	ug/L
Carbon tetrachloride	56-23-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Chlorobenzene	108-90-7	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.1	1.0	1	ug/L
Chloroethane	75-00-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Chloroform	67-66-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Chloromethane	74-87-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	1.0	1	ug/L
cis-1,2-Dichloroethylene	156-59-2	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Dibromochloromethane	124-48-1	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Dibromomethane	74-95-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	1.0	1	ug/L
Ethylbenzene	100-41-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.1	1.0	1	ug/L
Iodomethane	74-88-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.7	10.0	1	ug/L
Methylene chloride	75-09-2	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.0	1.0	1	ug/L
Styrene	100-42-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.1	1.0	1	ug/L
Tetrachloroethylene (PCE)	127-18-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Toluene	108-88-3	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
trans-1,2-Dichloroethylene	156-60-5	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		1.1	4.0	1	ug/L
Trichloroethylene	79-01-6	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Vinyl acetate	108-05-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		2.2	10.0	1	ug/L
Vinyl chloride	75-01-4	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.2	1.0	1	ug/L
Xylenes, Total	1330-20-7	SW8260B	0105-MW4	07100227-002	10/11/07	10/23/07 4:41	BLOD		0.3	3.0	1	ug/L
Arsenic	7440-38-2	SW6010B	0105-MW6	07100227-003	10/11/07	10/17/07 19:36	BLOD		3.0	10.0	1	ug/L
Barium	7440-39-3	SW6010B	0105-MW6	07100227-003	10/11/07	10/17/07 19:36	38.2	J2	2.0	10.0	1	ug/L
Cadmium	7440-43-9	SW7131A	0105-MW6	07100227-003	10/11/07	11/01/07 10:26	BLOD		0.1	0.3	1	ug/L
Chromium	7440-47-3	SW6010B	0105-MW6	07100227-003	10/11/07	10/17/07 19:36	1.7	J2	1.0	10.0	1	ug/L

Air Water & Soil Laboratories, Inc.
2109 A. North Hamilton Street
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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Lead	7439-92-1	SW6010B	0105-MW6	07100227-003	10/11/07	10/17/07 19:36	BLOD		6.0	10.0	1	ug/L
Mercury	7439-97-6	SW7470A	0105-MW6	07100227-003	10/11/07	10/16/07 12:28	BLOD		0.2	0.2	1	ug/L
Selenium	7782-49-2	SW7740	0105-MW6	07100227-003	10/11/07	10/30/07 11:23	BLOD		2.0	10.0	1	ug/L
Silver	7440-22-4	SW6010B	0105-MW6	07100227-003	10/11/07	10/17/07 19:36	BLOD		2.0	10.0	1	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.1	1.0	1	ug/L
1,1,1-Trichloroethane	71-55-6	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethane	75-34-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethylene	75-35-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
1,2,3-Trichloropropane	96-18-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.4	1.0	1	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.4	4.0	1	ug/L
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.4	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
1,2-Dichloroethane	107-06-2	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
2-Butanone (MEK)	78-93-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.7	10.0	1	ug/L
2-Hexanone (MBK)	591-78-6	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.7	10.0	1	ug/L
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.2	10.0	1	ug/L
Acetone	67-64-1	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		7.0	10.0	1	ug/L
Acrylonitrile	107-13-1	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.7	10.0	1	ug/L
Benzene	71-43-2	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Bromochloromethane	74-97-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.4	1.0	1	ug/L
Bromodichloromethane	75-27-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Bromoform	75-25-2	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	1.0	1	ug/L
Bromomethane	74-83-9	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Carbon disulfide	75-15-0	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.0	10.0	1	ug/L
Carbon tetrachloride	56-23-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L

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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Chlorobenzene	108-90-7	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.1	1.0	1	ug/L
Chloroethane	75-00-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Chloroform	67-66-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Chloromethane	74-87-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	1.0	1	ug/L
cis-1,2-Dichloroethylene	156-59-2	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Dibromochloromethane	124-48-1	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Dibromomethane	74-95-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	1.0	1	ug/L
Ethylbenzene	100-41-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.1	1.0	1	ug/L
Iodomethane	74-88-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.7	10.0	1	ug/L
Methylene chloride	75-09-2	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.0	1.0	1	ug/L
Styrene	100-42-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.1	1.0	1	ug/L
Tetrachloroethylene (PCE)	127-18-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Toluene	108-88-3	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
trans-1,2-Dichloroethylene	156-60-5	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		1.1	4.0	1	ug/L
Trichloroethylene	79-01-6	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Vinyl acetate	108-05-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		2.2	10.0	1	ug/L
Vinyl chloride	75-01-4	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.2	1.0	1	ug/L
Xylenes, Total	1330-20-7	SW8260B	0105-MW6	07100227-003	10/11/07	10/23/07 5:07	BLOD		0.3	3.0	1	ug/L
Arsenic	7440-38-2	SW6010B	0105-MW7	07100227-004	10/11/07	10/17/07 19:45	BLOD		3.0	10.0	1	ug/L
Barium	7440-39-3	SW6010B	0105-MW7	07100227-004	10/11/07	10/17/07 19:45	241		2.0	10.0	1	ug/L
Cadmium	7440-43-9	SW7131A	0105-MW7	07100227-004	10/11/07	11/01/07 10:32	BLOD		0.1	0.3	1	ug/L
Chromium	7440-47-3	SW6010B	0105-MW7	07100227-004	10/11/07	10/17/07 19:45	12.7		1.0	10.0	1	ug/L
Lead	7439-92-1	SW6010B	0105-MW7	07100227-004	10/11/07	10/17/07 19:45	BLOD		6.0	10.0	1	ug/L
Mercury	7439-97-6	SW7470A	0105-MW7	07100227-004	10/11/07	10/16/07 12:31	BLOD		0.2	0.2	1	ug/L

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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Selenium	7782-49-2	SW7740	0105-MW7	07100227-004	10/11/07	10/30/07 11:29	BLOD		2.0	10.0	1	ug/L
Silver	7440-22-4	SW6010B	0105-MW7	07100227-004	10/11/07	10/17/07 19:45	BLOD		2.0	10.0	1	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.1	1.0	1	ug/L
1,1,1-Trichloroethane	71-55-6	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethane	75-34-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethylene	75-35-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
1,2,3-Trichloropropane	96-18-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.4	1.0	1	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.4	4.0	1	ug/L
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.4	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
1,2-Dichloroethane	107-06-2	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
2-Butanone (MEK)	78-93-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.7	10.0	1	ug/L
2-Hexanone (MBK)	591-78-6	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.7	10.0	1	ug/L
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.2	10.0	1	ug/L
Acetone	67-64-1	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		7.0	10.0	1	ug/L
Acrylonitrile	107-13-1	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.7	10.0	1	ug/L
Benzene	71-43-2	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Bromochloromethane	74-97-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.4	1.0	1	ug/L
Bromodichloromethane	75-27-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Bromoform	75-25-2	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	1.0	1	ug/L
Bromomethane	74-83-9	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Carbon disulfide	75-15-0	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.0	10.0	1	ug/L
Carbon tetrachloride	56-23-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Chlorobenzene	108-90-7	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.1	1.0	1	ug/L
Chloroethane	75-00-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L

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Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
Chloroform	67-66-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Chloromethane	74-87-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	1.0	1	ug/L
cis-1,2-Dichloroethylene	156-59-2	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	0.4	J2	0.2	1.0	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Dibromochloromethane	124-48-1	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Dibromomethane	74-95-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	1.0	1	ug/L
Ethylbenzene	100-41-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.1	1.0	1	ug/L
Iodomethane	74-88-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.7	10.0	1	ug/L
Methylene chloride	75-09-2	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.0	1.0	1	ug/L
Styrene	100-42-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.1	1.0	1	ug/L
Tetrachloroethylene (PCE)	127-18-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Toluene	108-88-3	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
trans-1,2-Dichloroethylene	156-60-5	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		1.1	4.0	1	ug/L
Trichloroethylene	79-01-6	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Vinyl acetate	108-05-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		2.2	10.0	1	ug/L
Vinyl chloride	75-01-4	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.2	1.0	1	ug/L
Xylenes, Total	1330-20-7	SW8260B	0105-MW7	07100227-004	10/11/07	10/23/07 5:34	BLOD		0.3	3.0	1	ug/L
Arsenic	7440-38-2	SW6010B	Equipment Blank	07100227-005	10/11/07	10/17/07 19:48	BLOD		3.0	10.0	1	ug/L
Barium	7440-39-3	SW6010B	Equipment Blank	07100227-005	10/11/07	10/17/07 19:48	35.8	J2	2.0	10.0	1	ug/L
Cadmium	7440-43-9	SW7131A	Equipment Blank	07100227-005	10/11/07	11/01/07 10:38	BLOD		0.1	0.3	1	ug/L
Chromium	7440-47-3	SW6010B	Equipment Blank	07100227-005	10/11/07	10/17/07 19:48	BLOD		1.0	10.0	1	ug/L
Lead	7439-92-1	SW6010B	Equipment Blank	07100227-005	10/11/07	10/17/07 19:48	BLOD		6.0	10.0	1	ug/L
Mercury	7439-97-6	SW7470A	Equipment Blank	07100227-005	10/11/07	10/16/07 12:33	BLOD		0.2	0.2	1	ug/L
Selenium	7782-49-2	SW7740	Equipment Blank	07100227-005	10/11/07	10/30/07 11:35	BLOD		2.0	10.0	1	ug/L
Silver	7440-22-4	SW6010B	Equipment Blank	07100227-005	10/11/07	10/17/07 19:48	BLOD		2.0	10.0	1	ug/L

Air Water & Soil Laboratories, Inc.
2109 A. North Hamilton Street
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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.1	1.0	1	ug/L
1,1,1-Trichloroethane	71-55-6	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethane	75-34-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethylene	75-35-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
1,2,3-Trichloropropane	96-18-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.4	1.0	1	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.4	4.0	1	ug/L
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.4	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
1,2-Dichloroethane	107-06-2	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
2-Butanone (MEK)	78-93-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.7	10.0	1	ug/L
2-Hexanone (MBK)	591-78-6	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.7	10.0	1	ug/L
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.2	10.0	1	ug/L
Acetone	67-64-1	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		7.0	10.0	1	ug/L
Acrylonitrile	107-13-1	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.7	10.0	1	ug/L
Benzene	71-43-2	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Bromochloromethane	74-97-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.4	1.0	1	ug/L
Bromodichloromethane	75-27-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Bromoform	75-25-2	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	1.0	1	ug/L
Bromomethane	74-83-9	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Carbon disulfide	75-15-0	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.0	10.0	1	ug/L
Carbon tetrachloride	56-23-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Chlorobenzene	108-90-7	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.1	1.0	1	ug/L
Chloroethane	75-00-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Chloroform	67-66-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Chloromethane	74-87-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	1.0	1	ug/L

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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
cis-1,2-Dichloroethylene	156-59-2	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Dibromochloromethane	124-48-1	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Dibromomethane	74-95-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	1.0	1	ug/L
Ethylbenzene	100-41-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.1	1.0	1	ug/L
Iodomethane	74-88-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.7	10.0	1	ug/L
Methylene chloride	75-09-2	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.0	1.0	1	ug/L
Styrene	100-42-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.1	1.0	1	ug/L
Tetrachloroethylene (PCE)	127-18-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Toluene	108-88-3	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
trans-1,2-Dichloroethylene	156-60-5	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		1.1	4.0	1	ug/L
Trichloroethylene	79-01-6	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Vinyl acetate	108-05-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		2.2	10.0	1	ug/L
Vinyl chloride	75-01-4	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.2	1.0	1	ug/L
Xylenes, Total	1330-20-7	SW8260B	Equipment Blank	07100227-005	10/11/07	10/23/07 3:47	BLOD		0.3	3.0	1	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.1	1.0	1	ug/L
1,1,1-Trichloroethane	71-55-6	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethane	75-34-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
1,1-Dichloroethylene	75-35-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
1,2,3-Trichloropropane	96-18-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.4	1.0	1	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.4	4.0	1	ug/L
1,2-Dibromoethane (EDB)	106-93-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.4	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L

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Certificate of Analysis

Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
1,2-Dichloroethane	107-06-2	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
2-Butanone (MEK)	78-93-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.7	10.0	1	ug/L
2-Hexanone (MBK)	591-78-6	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.7	10.0	1	ug/L
4-Methyl-2-pentanone (MIBK)	108-10-1	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.2	10.0	1	ug/L
Acetone	67-64-1	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		7.0	10.0	1	ug/L
Acrylonitrile	107-13-1	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.7	10.0	1	ug/L
Benzene	71-43-2	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Bromochloromethane	74-97-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.4	1.0	1	ug/L
Bromodichloromethane	75-27-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Bromoform	75-25-2	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	1.0	1	ug/L
Bromomethane	74-83-9	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Carbon disulfide	75-15-0	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.0	10.0	1	ug/L
Carbon tetrachloride	56-23-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Chlorobenzene	108-90-7	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.1	1.0	1	ug/L
Chloroethane	75-00-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Chloroform	67-66-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Chloromethane	74-87-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	1.0	1	ug/L
cis-1,2-Dichloroethylene	156-59-2	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Dibromochloromethane	124-48-1	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Dibromomethane	74-95-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	1.0	1	ug/L
Ethylbenzene	100-41-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.1	1.0	1	ug/L
Iodomethane	74-88-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.7	10.0	1	ug/L
Methylene chloride	75-09-2	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.0	1.0	1	ug/L
Styrene	100-42-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.1	1.0	1	ug/L
Tetrachloroethylene (PCE)	127-18-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Toluene	108-88-3	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L

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Client Name: Joyce Engineering, Inc.-Greensboro
Client Site ID: Cobles Sandrock C&D
Submitted To: Jeremey Kerly

Date Issued: 02/11/2008

Parameter	CAS	Reference Method	Client Sample ID	Laboratory Sample ID	Sample Date	Analysis Date/Time	Sample Results	Qual	LOD	LOQ	Dil. Factor	Units
trans-1,2-Dichloroethylene	156-60-5	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		1.1	4.0	1	ug/L
Trichloroethylene	79-01-6	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Vinyl acetate	108-05-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		2.2	10.0	1	ug/L
Vinyl chloride	75-01-4	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.2	1.0	1	ug/L
Xylenes, Total	1330-20-7	SW8260B	Trip Blank	07100227-006	10/11/07	10/23/07 2:54	BLOD		0.3	3.0	1	ug/L

AIR WATER & SOIL LABORATORIES, INC.
2109A NORTH HAMILTON STREET
RICHMOND, VIRGINIA 23230
(804) 358-8295 PHONE
(804)358-8297 FAX

CHAIN OF CUSTODY

CLIENT NAME: Joyce Engineering, Inc.	PROJECT NAME: Coble's Sandrock C&D
CLIENT CONTACT: Jeremiey Kerby	SITE NAME: Coble's Sandrock C&D
CLIENT ADDRESS: 2211 W. Meadowview Rd Ste. 101 GSO NC 27407	PROJECT NUMBER: 419.00.28
CLIENT PHONE NUMBER: 336-323-0092	P.O. NUMBER:
CLIENT FAX NUMBER: 336-323-0093	REGULATORY AUTHORITY:

Is sample for compliance reporting? (YES) NO | Is sample from a chlorinated supply? YES (NO) | PWS I.D. #:

SAMPLER NAME (PRINT): DAN GIRDNER/ROBERT WINFIELD SAMPLER SIGNATURE: [signature] **Turn Around Time:** 10 **Day(s)**

Have ammonia and TKN samples been verified to be dechlorinated at the time of sampling?: YES NO

CLIENT SAMPLE I.D.	Composite Start Date	Composite Start Time	Grab or Composite Stop Date	Grab or Composite Stop Time	Number of Containers	Grab	Composite	Field Filtered (Dissolved Metals)	MATRIX: Ground Water / Surface Water	Waste Water / Storm Water	Drinking Water	Soil	Solids	Other	ANALYSIS: NC APP. I VOC-8260 (HCL)	RCRA 8 Metals (HNO3)	COMMENTS
Quote I.D.:																	
1) ~~GW5-MW1~~									X						X	X	DRY WELL NO SAMPLE
2) GW5-MW2			10-11-07	14:10	10	X			X						X	X	MS/MSD
3) GW5-MW4			10-11-07	14:30	4	X			X						X	X	
4) GW5-MW6			"	13:45	4	X			X						X	X	
5) GW5-MW7			"	14:45	4	X			X						X	X	
6) ~~GW5-SW1~~									X						X	X	DRY NO SAMPLE
7) ~~GW5-SW2~~									X						X	X	DRY NO SAMPLE
8) Equipment Blank			10-11-07	15:00	4	X									X	X	
9) Trip Blank			10-11-07	15:00	2	X									X		
10)																	

RELINQUISHED:	DATE / TIME	RECEIVED	DATE / TIME
Daniel J. Girdner	10-11-07/17:00	[signature]	10/12/07 1000
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
- Level I ☐
- Level II ☑
- Level III ☐
- Level IV ☐

LAB USE ONLY **COOLER TEMP** 1.1 °C

AIR WATER & SOIL Laboratories, Inc.

2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804) 3

JEI-G
Cobles Sandrock C&D

07100227
DUE: 10 Days
Recd: 10/12/07

Sample Conditions Checklist

Opened by: (print) MW **Lab ID No.:** _____

Date Cooler Opened: 10/12/07 **(sign)** _____

		YES	NO	N/A
1.	Were custody seals on outside of cooler?	☑	☐	☐
2.	Were custody seals unbroken and intact at the date and time of arrival?	☑	☐	☐
3.	Was the project identifiable from custody papers and were the custody papers filled out completely and correctly?	☑	☐	☐
4.	Did all bottle labels agree with custody papers?	☑	☐	☐
5.	Was cooler recieved on ice? If yes, what type and temperature? 1.9	☑	☐	☐
6.	Was temperature check within acceptable limits?	☑	☐	☐
7.	Were all samples within holding time for requested tests?	☑	☐	☐
8.	Are all samples in propper bottles with appropriate preservative for the analysis requested?	☑	☐	☐
9.	Are all volatile organic bottles free of headspace?	☑	☐	☐

COMMENTS

AIR WATER & SOIL LABORATORIES, INC.®
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Data Package Case Narrative

Laboratory I.D. No.: **07100227**

Client Name:	Joyce Engineering, Inc. - Greensboro	Date Received:	October 12, 2007
Client Project I.D.:	Cobles Sandrock C & D	Date Issued:	November 01, 2007
Submitted to:	Jeremey Kerly	Date Final Issue:	November 07, 2007

On October 11, 2007, twenty-five water samples and one trip blank were received via courier for analysis per the attached Chain-of-Custody Record. All samples were received with sample containers intact by Georgianna Wenrich (AWS). Upon laboratory receipt, no deviations, discrepancies or irregularities were observed in sample condition, including holding times, temperature, containers or preservatives.

The samples were prepared and analyzed in accordance with SW-846 methodology. QC results are presented in the attached QA/QC Data Package.

SW-846 method 8260B

Five water samples and a trip blank were analyzed for NC Appendix I volatile organic compounds. No target compounds were detected in the method blank. Matrix spike and matrix spike duplicate were performed on samples 07100227-001. All LCS/LCSD and matrix spike recoveries were within acceptable QC limits with relative percent differences less than 20%. All surrogate recoveries were within historical acceptance criteria.

Metals

Five water samples were analyzed for RCRA 8 metals. The samples were digested for ICP and GFAA analysis on October 15, 2007. Silver was found in the method blank above the limit of detection. The concentration found did not inpact any of the samples. No other target analytes were detected in the method blanks. All reported laboratory control sample recoveries were within acceptable QC limits. Matrix spike and matrix spike duplicates were performed on sample 07100227-001. All matrix spike/matrix spike duplicate recoveries were within acceptance QC limits with relative percent differences less than 20%. Post digestion spike recoveries were reported for Selenium.

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Data Package Case Narrative

Laboratory I.D. No.: **07100227**

Client Name:	Joyce Engineering, Inc. - Greensboro	Date Received:	October 12, 2007
Client Project I.D.:	Cobles Sandrock C & D	Date Issued:	November 01, 2007
Submitted to:	Jeremey Kerly	Date Final Issue:	November 07, 2007

For questions or inquiries please contact Carmela Tombes at (804) 358-8295.

A cross reference of client sample I.D. vs. Laboratory I.D. follows:

Client Sample I.D.	Laboratory I.D.
0105-MW2	07100227-001
0105-MW4	07100227-002
0105-MW6	07100227-003
0105-MW7	07100227-004
Equipment Blank	07100227-005
Trip Blank	07100227-006

Definition of terms:
BLOD=Below Limit of Detection
LOD=Limit of Detection
LOQ=Limit of Quantification
J=Qualifier used if quantitation of analyte is less than the LOQ but greater than the LOD.
J2=Qualifier used if the reported concentration is less than the North Carolina SWSL but greater than the LOD.

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QC DATA PACKAGE

VOLATILE ANALYSIS

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Joyce Engineering, Inc. - Greensboro
Cobles Sandrock C & D
VOLATILE ANALYSIS
AWS Laboratory I.D.: 07100227

METHOD REAGENT BLANK 10-23-07 (07102231.D)

Parameter	EPA Method	Blank Concentration (ug/L)	Blank Acceptance Criteria (ug/L)	Date Analyzed	Analyst
2-Hexanone (MBK)	8260B	< 1.7	< 1.7	10-23-07	DMB
Acetone	8260B	< 7	< 7	10-23-07	DMB
Acetonitrile	8260B	< 5.9	< 5.9	10-23-07	DMB
Benzene	8260B	< 0.2	< 0.2	10-23-07	DMB
Bromochloromethane	8260B	< 0.4	< 0.4	10-23-07	DMB
Bromodichloromethane	8260B	< 0.2	< 0.2	10-23-07	DMB
Bromoform	8260B	< 0.3	< 0.3	10-23-07	DMB
Carbon disulfide	8260B	< 1	< 1	10-23-07	DMB
Carbon tetrachloride	8260B	< 0.2	< 0.2	10-23-07	DMB
Chlorobenzene	8260B	< 0.1	< 0.1	10-23-07	DMB
Chloroethane	8260B	< 0.2	< 0.2	10-23-07	DMB
cis-1,2-Dichloroethylene	8260B	< 0.2	< 0.2	10-23-07	DMB
Methylene chloride	8260B	< 1	< 1	10-23-07	DMB
o-Xylene	8260B	< 0.1	< 0.1	10-23-07	DMB
trans-1,4-Dichloro-2-butene	8260B	< 1.1	< 1.1	10-23-07	DMB
cis-1,3-Dichloropropene	8260B	< 0.2	< 0.2	10-23-07	DMB
1,1-Dichloroethane	8260B	< 0.2	< 0.2	10-23-07	DMB
1,2-Dichlorobenzene	8260B	< 0.2	< 0.2	10-23-07	DMB
1,1-Dichloroethylene	8260B	< 0.2	< 0.2	10-23-07	DMB
Chloroform	8260B	< 0.2	< 0.2	10-23-07	DMB
trans-1,2-Dichloroethylene	8260B	< 0.2	< 0.2	10-23-07	DMB
1,2-Dichloroethane	8260B	< 0.3	< 0.3	10-23-07	DMB
1,2-Dichloropropane	8260B	< 0.3	< 0.3	10-23-07	DMB
trans-1,3-Dichloropropene	8260B	< 0.2	< 0.2	10-23-07	DMB
Dibromochloromethane	8260B	< 0.2	< 0.2	10-23-07	DMB
m,p-Xylenes	8260B	< 0.2	< 0.2	10-23-07	DMB
Bromomethane	8260B	< 0.2	< 0.2	10-23-07	DMB
Chloromethane	8260B	< 0.3	< 0.3	10-23-07	DMB
2-Butanone (MEK)	8260B	< 1.7	< 1.7	10-23-07	DMB
Iodomethane	8260B	< 1.7	< 1.7	10-23-07	DMB
4-Methyl-2-pentanone (MIBK)	8260B	< 1.2	< 1.2	10-23-07	DMB
1,4-Dichlorobenzene	8260B	< 0.2	< 0.2	10-23-07	DMB
Dibromomethane	8260B	< 0.3	< 0.3	10-23-07	DMB

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VOLATILE ANALYSIS
AWS Laboratory I.D.: 07100227

METHOD REAGENT BLANK 10-23-07 (07102231.D)

Parameter	EPA Method	Blank Concentration (ug/L)	Blank Acceptance Criteria (ug/L)	Date Analyzed	Analyst
Styrene	8260B	< 0.1	< 0.1	10-23-07	DMB
1,1,1,2-Tetrachloroethane	8260B	< 0.1	< 0.1	10-23-07	DMB
1,1,2,2-Tetrachloroethane	8260B	< 0.3	< 0.3	10-23-07	DMB
Tetrachloroethylene (PCE)	8260B	< 0.2	< 0.2	10-23-07	DMB
Toluene	8260B	< 0.2	< 0.2	10-23-07	DMB
1,1,1-Trichloroethane	8260B	< 0.2	< 0.2	10-23-07	DMB
1,1,2-Trichloroethane	8260B	< 0.2	< 0.2	10-23-07	DMB
Trichloroethylene	8260B	< 0.2	< 0.2	10-23-07	DMB
Trichlorofluoromethane	8260B	< 0.2	< 0.2	10-23-07	DMB
1,2,3-Trichloropropane	8260B	< 0.4	< 0.4	10-23-07	DMB
Vinyl acetate	8260B	< 2.2	< 2.2	10-23-07	DMB
Vinyl chloride	8260B	< 0.2	< 0.2	10-23-07	DMB
Ethylbenzene	8260B	< 0.1	< 0.1	10-23-07	DMB
Xylenes, Total	8260B	< 0.3	< 0.3	10-23-07	DMB
1,2-Dibromo-3-chloropropane (DBCP)	8260B	< 0.4	< 0.4	10-23-07	DMB
1,2-Dibromoethane (EDB)	8260B	< 0.4	< 0.4	10-23-07	DMB

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LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE -10-23-07

Compound	Spike Conc (ug/L)	LCS Result (ug/L)	LCS % Rec	LCS Duplicate Result (ug/L)	LCS Dup % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	% RPD	RPD Limit	Date Analyzed	Analyst
1,1-Dichloroethene	50	55	110	55	110	80	120	0	20	10-23-07	DMB
Benzene	50	46	92	48	96	80	120	4	20	10-23-07	DMB
Trichloroethylene	50	51	102	53	106	80	120	4	20	10-23-07	DMB
Toluene	50	49	98	50	100	80	120	2	20	10-23-07	DMB
Chlorobenzene	50	56	112	57	114	80	120	2	20	10-23-07	DMB

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY -07100227-001

Compound	Spike Conc (ug/L)	Sample Result (ug/L)	Matrix Spike Result (ug/L)	Matrix Spike % Rec	Matrix Spike Duplicate Result (ug/L)	Matrix Spike Dup % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	% RPD	RPD Limit	Date Analyzed	Analyst
1,1-Dichloroethene	50	0	54	108	55	110	80	120	2	20	10-23-07	DMB
Benzene	50	0	45	90	44	88	80	120	2	20	10-23-07	DMB
Trichloroethylene	50	0	51	102	51	102	80	120	0	20	10-23-07	DMB
Toluene	50	0	48	96	49	98	80	120	2	20	10-23-07	DMB
Chlorobenzene	50	0	56	112	55	110	80	120	2	20	10-23-07	DMB

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VOLATILE ANALYSIS
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SURROGATE RECOVERY

Sample ID	Surrogate	Method	RT	Response	Surrogate % Recovery	Lower % Rec Control Limit	Upper % Rec Control Limit	Date Analyzed	Initials
CCV	Dibromofluoromethane	8260B	3.85	140954	99	86	118	10-23-07	DMB
07102226.D	1,2-Dichloroethane-d4		4.51	33303	98	80	120		
	Toluene-d8		8.24	535047	101	88	110		
	4-Bromofluorobenzene		11.27	196500	102	86	115		
LCS	Dibromofluoromethane	8260B	3.85	139578	101	86	118	10-23-07	DMB
07102228.D	1,2-Dichloroethane-d4		4.51	33633	102	80	120		
	Toluene-d8		8.24	528798	95	88	110		
	4-Bromofluorobenzene		11.27	190294	101	86	115		
LCSD	Dibromofluoromethane	8260B	3.85	139644	99	86	118	10-23-07	DMB
07102229.D	1,2-Dichloroethane-d4		4.51	33102	99	80	120		
	Toluene-d8		8.24	525916	95	88	110		
	4-Bromofluorobenzene		11.27	191498	103	86	115		
Method Blank	Dibromofluoromethane	8260B	3.85	131904	99	86	118	10-23-07	DMB
07102231.D	1,2-Dichloroethane-d4		4.51	35745	112	80	120		
	Toluene-d8		8.24	505022	92	88	110		
	4-Bromofluorobenzene		11.27	184754	102	86	115		
07100227-006	Dibromofluoromethane	8260B	3.85	132723	98	86	118	10-23-07	DMB
07102232.D	1,2-Dichloroethane-d4		4.52	32335	100	80	120		
	Toluene-d8		8.24	504717	93	88	110		
	4-Bromofluorobenzene		11.27	184719	103	86	115		
07100227-005	Dibromofluoromethane	8260B	3.85	132018	98	86	118	10-23-07	DMB
07102234.D	1,2-Dichloroethane-d4		4.52	31716	99	80	120		
	Toluene-d8		8.24	498458	94	88	110		
	4-Bromofluorobenzene		11.27	182980	103	86	115		
07100227-001	Dibromofluoromethane	8260B	3.85	133712	102	86	118	10-23-07	DMB
07102235.D	1,2-Dichloroethane-d4		4.51	30278	97	80	120		
	Toluene-d8		8.24	499013	94	88	110		
	4-Bromofluorobenzene		11.27	180392	102	86	115		
07100227-002	Dibromofluoromethane	8260B	3.85	133105	101	86	118	10-23-07	DMB
07102236.D	1,2-Dichloroethane-d4		4.51	30762	98	80	120		
	Toluene-d8		8.23	496751	94	88	110		
	4-Bromofluorobenzene		11.27	179323	101	86	115		

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SURROGATE RECOVERY

Sample ID	Surrogate	Method	RT	Response	Surrogate % Recovery	Lower % Rec Control Limit	Upper % Rec Control Limit	Date Analyzed	Initials
07100227-003	Dibromofluoromethane	8260B	3.85	130937	101	86	118	10-23-07	DMB
07102237.D	1,2-Dichloroethane-d4		4.51	29478	95	80	120		
	Toluene-d8		8.24	497859	94	88	110		
	4-Bromofluorobenzene		11.27	176730	101	86	115		
07100227-004	Dibromofluoromethane	8260B	3.85	132150	103	86	118	10-23-07	DMB
07102238.D	1,2-Dichloroethane-d4		4.51	32017	105	80	120		
	Toluene-d8		8.24	489424	94	88	110		
	4-Bromofluorobenzene		11.27	179443	102	86	115		
07100227-001 MS	Dibromofluoromethane	8260B	3.85	130934	99	86	118	10-23-07	DMB
07102248.D	1,2-Dichloroethane-d4		4.52	29661	94	80	120		
	Toluene-d8		8.24	489408	93	88	110		
	4-Bromofluorobenzene		11.27	183446	105	86	115		
07100227-001 MSD	Dibromofluoromethane	8260B	3.85	124404	96	86	118	10-23-07	DMB
07102249.D	1,2-Dichloroethane-d4		4.51	30290	98	80	120		
	Toluene-d8		8.24	492060	95	88	110		
	4-Bromofluorobenzene		11.27	178737	102	86	115		

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METALS ANALYSES

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METALS ANALYSES
AWS Laboratory I.D.: 07100227

METHOD/REAGENT BLANK 10-15-07 (ICP)

Parameter	EPA Method	Blank Concentration (ug/L)	Blank Acceptance Criteria (ug/L)	Date Analyzed	Analyst
Arsenic	6010B	< 3	< 3	10-17-07	DMH
Barium	6010B	< 2	< 2	10-17-07	DMH
Chromium	6010B	< 1	< 1	10-17-07	DMH
Lead	6010B	< 6	< 6	10-17-07	DMH
Silver	6010B	* 3	< 2	10-17-07	DMH

* = Analyte detected in the method blank above the reported detection limit.

METHOD/REAGENT BLANK 10-15-07 (GFAA)

Parameter	EPA Method	Blank Concentration (ug/L)	Blank Acceptance Criteria (ug/L)	Date Analyzed	Analyst
Cadmium	7131A	< 0.1	< 0.1	10-31-07	DMH
Selenium	7740	< 2	< 2	10-30-07	DMH

METHOD/REAGENT BLANK Miscellaneous

Parameter	EPA Method	Blank Concentration (ug/L)	Blank Acceptance Criteria (ug/L)	Date Analyzed	Analyst
Mercury	7470A	< 0.2	< 0.2	10-16-07	DMH

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METALS ANALYSES
AWS Laboratory I.D.: 07100227

LABORATORY CONTROL SAMPLE 10-15-07 (ICP)

Parameter	EPA Method	Spike Conc (ug/L)	LCS Result (ug/L)	LCS % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	Date Analyzed	Analyst
Arsenic	6010B	500	487	97	80	120	10-17-07	DMH
Barium	6010B	500	524	105	80	120	10-17-07	DMH
Chromium	6010B	500	517	103	80	120	10-17-07	DMH
Lead	6010B	500	518	104	80	120	10-17-07	DMH
Silver	6010B	100	102	102	80	120	10-17-07	DMH

LABORATORY CONTROL SAMPLE 10-15-07 (GFAA)

Parameter	EPA Method	Spike Conc (ug/L)	LCS Result (ug/L)	LCS % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	Date Analyzed	Analyst
Cadmium	7131A	2.00	2.33	117	80	120	10-31-07	DMH
Selenium	7740	20.0	21.1	106	80	120	10-30-07	DMH

LABORATORY CONTROL SAMPLE -Miscellaneous

Parameter	EPA Method	Spike Conc (ug/L)	LCS Result (ug/L)	LCS % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	Date Analyzed	Analyst
Mercury	7470A	2.50	2.35	94	80	120	10-16-07	DMH

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METALS ANALYSES
AWS Laboratory I.D.: 07100227

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY -07100227-001

Parameter	EPA Method	Spike Conc (ug/L)	Sample Result (ug/L)	Matrix Spike Result (ug/L)	Matrix Spike % Rec	Matrix Spike Duplicate Result (ug/L)	Matrix Spike Dup % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	% RPD	RPD Limit	Date Analyzed	Analyst
Arsenic	6010B	500	0	410	82	419	84	80	120	2	20	10-17-07	DMH
Barium	6010B	500	478	987	102	1011.5	107	80	120	2	20	10-17-07	DMH
Cadmium	7131A	2.00	0.44	2.75	116	2.74	115	80	120	0	20	10-31-07	DMH
Chromium	6010B	500	121	626	101	641	104	80	120	2	20	10-17-07	DMH
Lead	6010B	500	0	506	101	521	104	80	120	3	20	10-17-07	DMH
Mercury	7470A	2.50	0	2.35	94	2.38	95	80	120	1	20	10-16-07	DMH
Selenium*	7740	200.0	0	184.8	92	189.1	95	80	120	2	20	10-30-07	DMH
Silver	6010B	100	0	93.8	94	95.9	96	80	120	2	20	10-17-07	DMH

* = Post Digestion Spike Recovery

DATE: 10-11-2007

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.28

Well ID: 0105-MW1 **Sampler(s):** Dan Girdner, Robert Winfield

Well Location: backside of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 35.72 feet

Depth to Bottom (DTB): 35.85 feet

Water Column Thickness (WCT): 0.13 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.02 gallons

For 4" Well: WCT X 0.653 = --- gallons

For THREE Well Volumes: WV X 3 = 0.06 gallons

Actual Amount Purged/Bailed : 0 gallons

Purged with: disposable bailer

Sampled with: NA dry, no sample

Depth to Water before Sampling: --- feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
Before Sampling	---					

Comments (weather conditions, odor, color, silt, etc.): Sunny, breezy, mid-60's

Well too dry, NO SAMPLES TAKEN

Signature: Daniel S. Girdner **Date:** 10-11-2007

QA/QC Sign Off: Robert S. Winfield **Date:** 10-11-07

DATE: 10-11-2007

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.28

Well ID: 0105-MW2 **Sampler(s):** Dan Girdner, Robert Winfield

Well Location: near top of hill; west side of LF

Well Diameter: 2 inches

Initial Depth to Water (DTW): 18.96 feet

Depth to Bottom (DTB): 22.98 feet

Water Column Thickness (WCT): 4.02 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.66 gallons

For 4" Well: WCT X 0.653 = --- gallons

For THREE Well Volumes: WV X 3 = 1.97 gallons

Actual Amount Purged/Bailed : 2 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 19.04 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:55	15.6	6.15	85.8	249	DG
0.66	10:57	15.6	5.96	86.0	391	DG
1.32	10:58	15.8	5.85	84.9	653	DG
1.98	11:00	15.6	5.92	84.8	> 1000	DG
Before Sampling	14:10	15.9	5.98	86.0	934	DG

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

Sunny, breezy, 66° F

Took MS & MSD samples from –MW2

Signature: Daniel D. Girdner **Date:** 10-11-07

QA/QC Sign Off: [signature] **Date:** 10-11-07

DATE: 10-11-2007

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.28

Well ID: 0105-MW4 **Sampler(s):** Dan Girdner, Robert Winfield

Well Location: between MW-5 and MW-2

Well Diameter: 2 inches

Initial Depth to Water (DTW): 18.21 feet

Depth to Bottom (DTB): 24.22 feet

Water Column Thickness (WCT): 6.01 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.98 gallons

For 4" Well: WCT X 0.653 = --- gallons

For THREE Well Volumes: WV X 3 = 2.94 gallons

Actual Amount Purged/Bailed : 3 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 18.18 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:12	16.7	6.04	87.0	200	RW
0.98	11:14	16.6	5.88	89.1	246	RW
1.96	11:19	16.4	5.87	87.6	989	RW
2.94	11:22	16.1	5.83	89.4	985	RW
Before Sampling	14:30	17.5	5.83	88.4	421	RW

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

Sunny, breezy, 66° F

Signature: [signature] **Date:** 10-11-07

QA/QC Sign Off: Daniel S. Girdner **Date:** 10-11-07

DATE: 10-11-2007

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.28

Well ID: 0105-MW6 **Sampler(s):** Dan Girdner, Robert Winfield

Well Location: flush mount in field that is fenced before the fill area (former P-3)

Well Diameter: 2 inches

Initial Depth to Water (DTW): 27.65 feet

Depth to Bottom (DTB): 41.00 feet

Water Column Thickness (WCT): 13.35 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.18 gallons

For 4" Well: WCT X 0.653 = --- gallons

For THREE Well Volumes: WV X 3 = 6.53 gallons

Actual Amount Purged/Bailed : 6.75 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 27.65 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:24	15.6	7.54	165.7	4.38	RW
2.18	10:27	15.4	6.37	194.0	166	RW
4.36	10:33	15.3	6.40	208.0	496	RW
6.53	10:38	15.2	6.00	201.0	913	RW
Before Sampling	13:45	16.0	6.86	195.7	17.02	RW

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

Sunny, breezy, 65°F

Light brown sediment & mica

Signature: R. W. Winfield **Date:** 10-11-07

QA/QC Sign Off: Daniel A. Girdner **Date:** 10-11-2007

DATE: 10-11-2007

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.28

Well ID: 0105-MW7 **Sampler(s):** Dan Girdner, Robert Winfield

Well Location: Westside of the landfill near MW5

Well Diameter: 2 inches

Initial Depth to Water (DTW): 13.15 feet

Depth to Bottom (DTB): 16.00 feet

Water Column Thickness (WCT): 2.85 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.46 gallons

For 4" Well: WCT X 0.653 = --- gallons

For THREE Well Volumes: WV X 3 = 1.39 gallons

Actual Amount Purged/Bailed : 1.5 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 13.04 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:30	17.0	6.10	1279	7.23	DG
0.46	11:33	17.3	6.28	1390	107	DG
0.92	11:36	17.1	6.33	1402	236	DG
1.39	11:38	16.9	6.42	1463	429	DG
Before Sampling	14:45	17.3	6.27	1610	321	DG

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

Sunny, breezy, 66°F

Sample odor, gray sediment

EQUIPMENT BLANK sample time: 15:00

Signature: [signature] **Date:** 10-11-07

QA/QC Sign Off: Daniel S. Girdner **Date:** 10-11-07

DATE: 10/11/07

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: COBLE'S SANDROCK & LF **Project/Task No.:** 419.00.28

Surface Point ID: 0105-SW1 **Sampler(s):** Dan Girdner/Robert Winfield

Location: Stream near MW-4

Field Parameters:

Time of Sampling: _____

pH: _____

Temperature : _____ **(°C)**

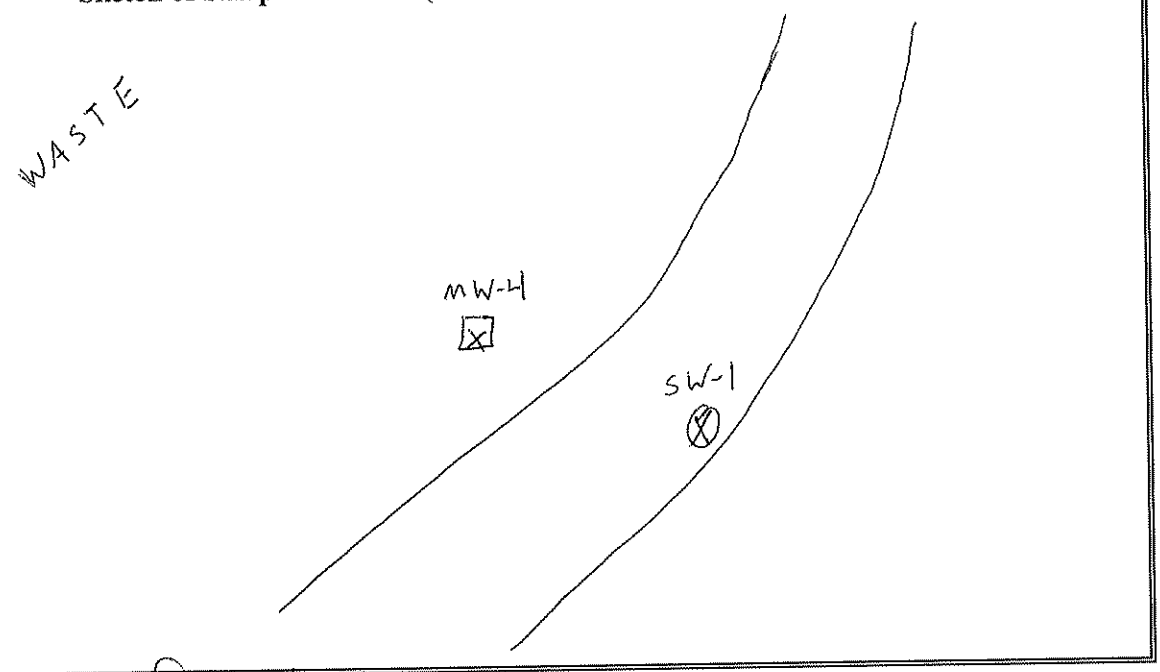
Conductivity : _____ **(µS)**

Turbidity : _____ **(ntu)**

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

DRY-No water to sample

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



Signature: Daniel Girdner **Date:** 10-11-07

QA/QC Sign Off: _____ **Date:** 2-27-08

DATE: 10/11/07

ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: COBLE'S SANDROCK & LF **Project/Task No.:** 419.00.28

Surface Point ID: 0105-SW2 **Sampler(s):** Dan Girdner/Robert Winfield

Location: Off bridge in woods

Field Parameters:

Time of Sampling: _____

pH: _____

Temperature : _____ **(°C)**

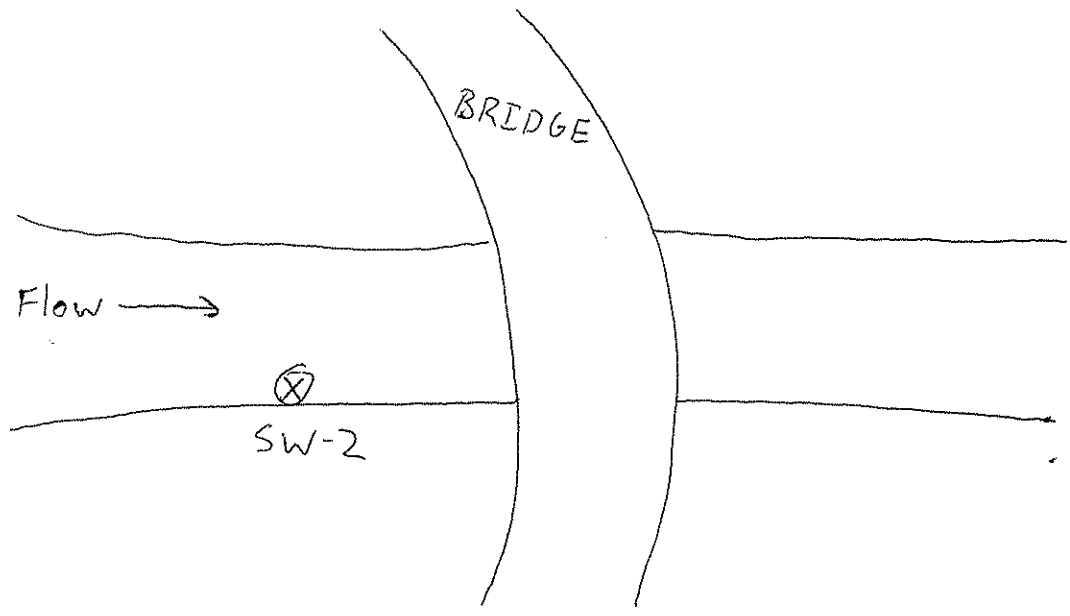
Conductivity : _____ **(µS)**

Turbidity : _____ **(ntu)**

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

DRY-No water to sample

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



Signature: Daniel Gardner **Date:** 10-11-07

QA/QC Sign Off: _____ **Date:** 2-27-08

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CERTIFICATE OF ANALYSIS

FINAL REPORT

LABORATORY ORDER ID

08010029

Client Name: Joyce Engineering, Inc.-Greensboro

Submitted to: Van Burbach
Client Site ID: Cobles Sandrock C&D

Date Sampled: December 28, 2007
Date Received: January 03, 2008
Date Issued: January 07, 2008
Date Final Issue: January 10, 2008

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Certificate of Analysis

Final Report

Laboratory Order ID 08010029

Client Name: Joyce Engineering, Inc.-Greensboro
2211 W Meadowview Rd.
Suite 101
Greensboro,NC 27407

Date Received: January 03, 2008
Date Issued: January 07, 2008

Submitted To: Van Burbach

Project Number: 419.00.26

Client Site I.D.: Cobles Sandrock C&D

Purchase Order NA

Sample I.D.: 0105-MW2 Laboratory Sample I.D.: 08010029-001

Date/Time Sampled: 12/28/07 12:25

Parameter	Method	Sample Results	Rep Limi	Analysis Date/Time	Analyst
Chromium	SW6010B	15.7 ug/L	10.0	01/04/08 15:00	CGT
Chromium, Dissolved	SW6010B	< 0.01 mg/L	0.010	01/04/08 15:03	CGT

Sample I.D.: 0105-Field Blank Laboratory Sample I.D.: 08010029-002

Date/Time Sampled: 12/28/07 12:35

Parameter	Method	Sample Results	Rep Limi	Analysis Date/Time	Analyst
Chromium	SW6010B	< 10 ug/L	10.0	01/04/08 15:12	CGT

Ted Soyars

Laboratory Manager

AIR WATER SOIL Laboratories, Inc.

2109A North Hamilton Street • Richmond, Virginia 23230 • Tel : (8(

JEI-G
Cobles Sandrock C&D

08010029
DUE: 10 Days
Recd: 01/03/08

Sample Conditions Chec

Opened by: (print) Ashley McGinley Lab ID No.: _____

(sign) A. McGinley Date Cooler Opened: 1-3-08

		YES	NO	N/A
1.	Are the samples relinquished by sampler?	☐	☑	☐
2.	If not, are custody seals used?	☑	☑	☐
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	☑	☐ AW	☑
4.	Are the custody papers filled out completely and correctly?	☑	☐	☐
5.	Do all container labels agree with custody papers?	☑	☐	☐
6.	Are the samples received on ice?	☑	☐	☐
7.	Is the temperature blank or representative sample within acceptable limits? (4 ± 2 °C)	☑	☐	☐
8.	Are all samples within holding time for requested tests?	☑	☐	☐
9.	Is a sufficient amount of sample provided to perform the tests indicated?	☑	☐	☐
10.	Are all samples in proper containers for the analyses requested?	☑	☐	☐
11.	Are all samples appropriately preserved for the analyses requested?	☑	☐	☐
12.	Are all volatile organic containers free of headspace?	☐	☐	☑

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

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Data Package Case Narrative

Laboratory I.D. No.: 08010029

Client Name:	Joyce Engineering, Inc. - Greensboro	Date Received:	January 03, 2008
Client Project I.D.:	Cobles Sandrock C & D	Date Issued:	January 07, 2008
Submitted to:	Van Burbach	Date Final Issue:	January 10, 2008

On January 03, 2008, two water samples were received via courier for analysis per the attached Chain-of-Custody Record. All samples were received with sample containers intact by Ashley McGinley (AWS). Upon laboratory receipt, no deviations, discrepancies or irregularities were observed in sample condition, including holding times, temperature, containers or preservatives.

The samples were prepared and analyzed in accordance with SW-846 methodology. QC results are presented in the attached QA/QC Data Package.

Metals

Two water samples were analyzed for total and dissolved Chromium. The samples were digested for ICP analysis on January 03, 2008. No target analytes were detected in the method blank. All reported laboratory control sample recoveries were within acceptable QC limits. Matrix spike and matrix spike duplicates were performed on sample 08010029-001. All matrix spike/matrix spike duplicate recoveries were within acceptance QC limits with relative percent differences less than 20%.

For questions or inquiries please contact Carmela Tombes at (804) 358-8295.

A cross reference of client sample I.D. vs. Laboratory I.D. follows:

Client Sample I.D.	Laboratory I.D.
0105-MW2	08010029-001
0105-Field Blank	08010029-002

Definition of terms:
BLOD=Below Limit of Detection
LOD=Limit of Detection
LOQ=Limit of Quantification
J=Qualifier used if quantitation of analyte is less than the LOQ but greater than the LOD.
J2=Qualifier used if the reported concentration is less than the North Carolina SWSL but greater than the LOD.

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QC DATA PACKAGE

METALS ANALYSIS

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Joyce Engineering, Inc. - Greensboro
Cobles Sandrock C&D
METALS ANALYSIS
AWS Laboratory I.D.: 08010029

METHOD/REAGENT BLANK 01-03-08 (ICP)

Parameter	EPA Method	Blank Concentration (ug/L)	Blank Acceptance Criteria (ug/L)	Date Analyzed	Analyst
Chromium	6010B	< 1	< 1	01-04-08	CGT

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Joyce Engineering, Inc. - Greensboro
Cobles Sandrock C&D
METALS ANALYSIS
AWS Laboratory I.D.: 08010029

LABORATORY CONTROL SAMPLE 01-03-08 (ICP)

Parameter	EPA Method	Spike Conc (ug/L)	LCS Result (ug/L)	LCS % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	Date Analyzed	Analyst
Chromium	6010B	500	522	104	80	120	01-04-08	CGT

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Joyce Engineering, Inc. - Greensboro
Cobles Sandrock C&D
METALS ANALYSIS
AWS Laboratory I.D.: 08010029

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY -08010029-001 DIS

Parameter	EPA Method	Spike Conc (ug/L)	Sample Result (ug/L)	Matrix Spike Result (ug/L)	Matrix Spike % Rec	Matrix Spike Duplicate Result (ug/L)	Matrix Spike Dup % Rec	Lower % Rec Control Limit	Upper % Rec Control Limit	% RPD	RPD Limit	Date Analyzed	Analyst
Chromium	6010B	500	0	529	106	525	105	80	120	1	20	01-04-08	CGT

AIR WATER & SOIL LABORATORIES, INC.
2109A NORTH HAMILTON STREET
RICHMOND, VIRGINIA 23230
(804) 358-8295 PHONE
(804)358-8297 FAX

CHAIN OF CUSTODY

PAGE 1 OF 1

CLIENT NAME: JOYCE ENGINEERING, INC.	PROJECT NAME: COBLE'S SANDROCK
CLIENT CONTACT: VAN BURBACH	SITE NAME: COBLE'S SANDROCK
CLIENT ADDRESS: 2211 W MEADOWVIEW RD, STE. 101, GREENSBORO, NC 27407	PROJECT NUMBER: ~~66-NR~~ 419.00.26
CLIENT PHONE NUMBER: 336-323-0092	P.O. NUMBER:
CLIENT FAX NUMBER: 336-323-0093	REGULATORY AUTHORITY: NC SWSL / RCRA
Is sample for compliance reporting? (YES) NO — Is sample from a chlorinated supply? YES (NO)	PWS I.D. #:
SAMPLER NAME (PRINT): DANIEL GIRDNER — SAMPLER SIGNATURE: Daniel Girdner	**Turn Around Time:** Day(s)

Have ammonia and TKN samples been verified to be dechlorinated at the time of sampling?: YES NO

CLIENT SAMPLE I.D.	Composite Start Date	Composite Start Time	Grab or Composite Stop Date	Grab or Composite Stop Time	Number of Containers	Grab	Composite	Field Filtered (Dissolved Metals)	MATRIX: Ground Water / Surface Water	Waste Water / Storm Water	Drinking Water	Soil	Solids	Other ____	ANALYSIS: CHROMIUM (TOTAL METALS DETECT, Cr)	DISSOLVED CHROMIUM (WAS FILTERED DURING SAMPLE)	COMMENTS: Quote I.D.: QT06022001 / PLEASE NOTE PRESERVATIVE(S) or PUMP RATE (L/min)
1) 0105-MW2			12-28-07	12:25	2	X			X						X	X	HNO_3
2) 0105-FIELD BLANK			12-28-07	12:35	1	X			X						X		HNO_3
3)																	
4)																	
5)																	
6)																	
7)																	
8)																	
9)																	
10)																	5.7°C

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
Daniel A. Girdner	1-2-08 17:00	N. McSwain	1-3-08 1407
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
Level I ☐
Level II ☒
Level III ☐
Level IV ☐

LAB USE ONLY **COOLER TEMP** 5.7 °C

AWS COC v070329.xls

DATE: 12-28-07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.26

Well ID: 0105-MW2 **Sampler(s):** Daniel Girdner

Well Location: near top of hill; west side of LF

Well Diameter: 2 inches

Initial Depth to Water (DTW): 16.06 feet

Depth to Bottom (DTB): 22.98 feet

Water Column Thickness (WCT): 6.92 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.13 gallons

For 4" Well: WCT X 0.653 = - gallons

For THREE Well Volumes: WV X 3 = 3.39 gallons

Actual Amount Purged/Bailed : 3.4 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: - feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	12:05	16.1	5.35	111.0	35.5	DG
1.13	12:12	16.1	5.64	97.9	176	DG
2.26	12:20	16.0	5.93	91.0	228	DG
3.39	12:25	16.0	5.84	88.1	313	DG
Before Sampling	12:25	16.0	5.84	88.1	313	DG

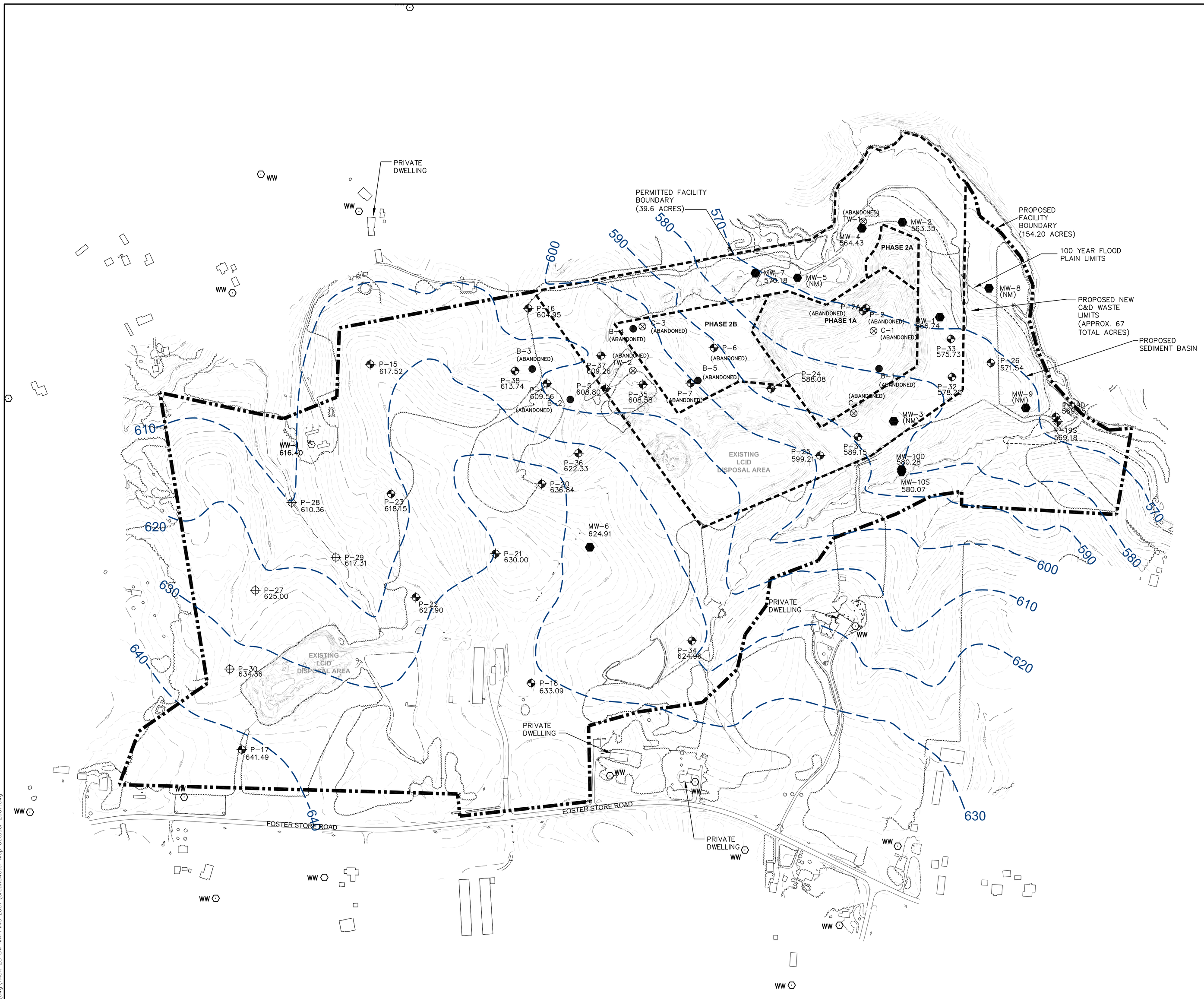
Comments (weather conditions, odor, color, silt, etc.): Mostly cloudy, 55°F. Light red brown , ultra fine sediment turbidity. Well pad is covered by leaves, dirt, and a tire. RESAMPLE for Chromium, total & dissolved. Dissolved sample field filtered. FIELD BLANK sampled at 12:35

Signature: Daniel J. Girdner **Date:** 12-28-07

QA/QC Sign Off: [signature] **Date:** 2-28-08

Drawing

Groundwater Elevation Contour Map – Drawing DH-1



LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- GROUNDWATER CONTOURS
- EXISTING CELL BOUNDARIES
- PIEZOMETER LOCATION AND IDENTIFICATION — P-32 578.20
- GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION — MW-10D 580.28
- BORING LOCATIONS AND IDENTIFICATION — B-5
- CORING LOCATION AND IDENTIFICATION — C-3
- HAND AUGER PIEZOMETER LOCATION — P-28
- RESIDENTIAL WELL LOCATION — WW-1
- CORING LOCATION WITH TEMPORARY WELL — TW-2

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 5 FEET.

GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED CM
DRAWN JK
CHECKED JK
APPROVED VB
DATE 02/22/08

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JOYCE ENGINEERING, INC.
2211 WEST MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 323-0092

COBLE'S SANDROCK, INC.
KIMESVILLE, NORTH CAROLINA

GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 11, 2007

PROJECT NO.
419.00.28

SCALE
1"=200'

DRAWING NO.
1

L:\Coble Sandrock\dwg\TASK 28 GW MAPPING 2007\Groundwater Map October 2007.dwg