Semi-Annual Groundwater Sampling and Analysis Report

Prepared for

Alexander County Closed MSWLF and Active C&D Landfill
Taylorsville, North Carolina

June, 2007

Permit Number: 02-01
MESCO Project Number: G07003.0

Completed on July 30, 2007

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

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

July 27, 2007

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

Re: Groundwater Assessment Monitoring Sampling and Analysis
Alexander County Closed MSWLF and active C&D Landfill
Permit No. 02-01 MESCO Project No. G07003.0

Dear Ms. Drummond:

Municipal Engineering Services Company, P.A. (MESCO), sampled the Alexander County Closed MSWLF and active C&D landfill for the Appendix I list of constituents on June 27 & 28, 2007. All of the monitoring locations contained in the sampling and analysis plan were sampled with the exception of MW-1A, and SW-3 which were dry. The supply well, which is not utilized as a potable source, was also sampled for the first time in order to better determine the water quality in the deeper aquifer. Monitoring wells MW-11, MW-12, MW-14, MW-15, and MW-17 were sampled for the complete Appendix II list of parameters since these particular wells have historically been found to contain parameters above the NCGW2L Standards. The monitoring wells downgradient of the C&D waste were analyzed for the complete list of C&D parameters. All of the remaining monitoring locations were analyzed for the Appendix I list of metals and VOCs. Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina completed the lab analyses, the results of which are included herein.

All detected constituents were analyzed for regulatory exceedance with reference to North Carolina Groundwater Standards. The analysis was completed and reported to the method detection limit (MDL). The results are shown in the enclosed tables titled "Detection Scan". Two separate detection scans are attached. One detection scan depicts all detections found above the MDL and the other shows only the parameters detected above the Standard (MCL) and the Solid Waste Section Reporting Limit (SWSL). The following tables summarize those constituents that exceeded the Standard.

Table 1. Exceedance Summary (Metals)

Well	Fe	Mn	Hg	Ni	Pb
MW-1	x	x			
MW-1B	x	x	x		
MW-2	x	x			
MW-3	x	x	x	x	x
MW-6	x	x			
MW-7	x	x			
MW-11	x	x			
MW-12	x	x			
MW-12D	x	x			
MW-13	x	x			
MW-17			x		

x = concentration greater than NCGW2L Standard

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

Table 2. Exceedance Summary (VOCs)

Well	Benzene	1,4-DCB	1,2-DCA	PCE	Pentachlorophenol	VC
MW-1	x	x				
MW-1B	x					
MW-2	x	x				
MW-3	x	x				x
MW-4R	x	x				
MW-5	x					
MW-7	x					
MW-10	x					
MW-11	x					x
MW-12	x	x		x		
MW-14	x	x			x	
MW-17	x					

x = concentration greater than NCGW2L Standard

Inorganic constituents detections continue to be detected within several of the monitoring locations with concentrations of the C&D parameters iron and manganese found above the Standard within several of the monitoring wells. The heavy metal mercury was also found within MW-1B, MW-3, and MW-17 above the MCL. However none of the detected metals were found in concentrations outside of their historical levels.

Volatile Organic Compounds (VOCs) were found within all of the monitoring locations with the exception of the deep monitoring well MW-12D, deep supply well, and the surface water sites SW-5 and SW-4R. The detected VOCs continue to be primarily low level chlorinated compounds such as 1,1-dichloroethane and it's isomer cis-1,2-Dichloroethene. Aromatic hydrocarbons including benzene also continue to be detected above the NCGW2L Standard within all of the monitoring wells with the exception of MW-6. As shown in the enclosed charts all parameters were found in concentrations below their respective historical levels with the exception of the premier detection of benzene within MW-10. It is important to note that the decrease in the detection limits is directly responsible for the proliferation of low level VOC detections which would have not been quantifiable in previous sampling events.

Water samples extracted from MW-12, located downgradient of the uncapped closed landfill portion, has continuously contained both purgeable aromatics and purgeable halocarbons since it was installed in 2000. Concentrations of the aromatic benzene have been found to have slightly increased during this event after exhibiting a slight decrease the previous event. However, MW-7 which is located hydraulically upgradient and closer to the waste boundary continues to yield VOC concentrations lower than MW-12 indicating that the leading edge of the plume has passed. MW-12D the deeper counterpart to MW-12 continues to lack VOC detections which indicates that the aquifer is only impacted in the upper portion in this region.

The water quality within the aquifer directly downgradient of the central portion of the closed landfill monitored by MW-3 and MW-11 also continues to exhibit degradation with concentrations of benzene and vinyl chloride detected above the Standard within MW-11. MW-3, which is located closer to the waste limit than MW-11 was found to contain a total of 8 VOCs above the SWSL with levels of benzene, 1,4-dichlorobenzene, and vinyl chloride found above the MCL.

The decrease of VOC detections within the downgradient wells MW-3 and MW-7 located closest to the waste boundary may be attributed to a decrease in leachate migration attributed to overland flow as a result of an improved cohesive clay barrier constructed by the county in the summer of 2003. Leachate plumes were identified in these regions in 2003 therefore the county placed compacted clay over the entire slopes, toes, and surface of the southeast portion of the Closed Landfill to provide a barrier to contain the leachate. The probable leachate origination areas have been inspected during each semi-annual site visit and it appears that no seeps or erosion features of any kind have returned. Therefore it is plausible that the improvement of the quality of the shallower aquifer that has been demonstrated during the previous 2 sampling events can be contributed to the improved clay barrier. Therefore groundwater within the aquifer monitored by MW-11 and MW-12 is expected to also improve as the residuals of the plume migrate and natural attenuation continues.

The northeast portion of the facility monitored by MW-2 and MW-14 also continues to be impacted by the aromatics benzene and 1,4-DCB. The concentrations of aromatics in the upper aquifer are higher closer to the waste boundary which is contrary to other regions of the facility. This indicates that the source still persists and MW-14 will likely continue to be impacted for the next several sampling events. MW-14 was the only monitoring well found to contain Appendix II parameters. Elevated concentrations of the pesticide/wood preservative pentachlorophenol were found within MW-14 along with a few other low level pesticides/herbicides. A large hydraulic gradient exists between MW-2 and MW-14 indicating a likely fracture orientation of ~23 degrees. The known impacted area is well within the compliance boundary with a stream located <200 feet downgradient that likely acts as a discharge feature. Therefore it is very unlikely that the groundwater has been impacted beyond the facility boundary in this region.

Evidence of leachate migration has also been found along the western portion of the facility. Concentrations of benzene above the MCL were found within MW-5 and MW-10. Downgradient well MW-10 is screened in rock >40 feet below the static potentiometric head and yielded concentrations of benzene above the Standard for the first time.

The background area, located at the north property line, was found to contain a few VOC detections with benzene found above the MCL within both MW-1 and MW-1B. Methane gas was detected within all of the background monitoring wells MW-1, MW-1A, MW-1B, and the methane probe closest to MW-1. Landfill gas (LFG) may be contributing to the VOCs detected within the groundwater within the north portion of the property.

MESCO completed the required potentiometric map with groundwater elevations on the day of sampling. The field data sheet and Chain of Custody sheets have also been included. The facility will continue assessment monitoring and will be sampled for the complete Appendix I list of constituents in December 2007. In the interim preliminary research is being conducted in order to determine the best course of action to take concerning the completion of the CAPs report which deadline has been extended into December 2007. If you have any questions or comments regarding this report, please contact me at (919) 772-5393 or by email at jpfohl@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Josh Mitchell
Alexander County

Detection Scan All Detections above SWSL and NCGW2L
Alexander County Closed MSWLF and Active C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-1	**Benzene**	**06/28/2007**	**5**	**ug/L**	**1**	**1**	**4**
MW-1	cis-1,2-Dichloroethene	06/28/2007	10	ug/L	5	70	
MW-1	Cobalt	06/28/2007	10	ug/L	10		
MW-1	**Iron**	**06/28/2007**	**12200**	**ug/L**	**300**	**300**	**11900**
MW-1	**Manganese**	**06/28/2007**	**764**	**ug/L**	**50**	**50**	**714**
MW-1	**1,4-Dichlorobenzene**	**06/28/2007**	**2**	**ug/L**	**1**	**1.4**	**0.6**
MW-1B	Cobalt	06/28/2007	42.6	ug/L	10		
MW-1B	**Iron**	**06/28/2007**	**6680**	**ug/L**	**300**	**300**	**6380**
MW-1B	**Benzene**	**06/28/2007**	**1.7**	**ug/L**	**1**	**1**	**0.7**
MW-1B	Copper	06/28/2007	12.1	ug/L	10	1000	
MW-1B	Zinc	06/28/2007	28.9	ug/L	10	1050	
MW-1B	**Manganese**	**06/28/2007**	**960**	**ug/L**	**50**	**50**	**910**
MW-1B	**Mercury**	**06/28/2007**	**1.21**	**ug/L**	**0.2**	**1.1**	**0.11**
MW-2	cis-1,2-Dichloroethene	06/28/2007	17	ug/L	5	70	
MW-2	Thallium	06/28/2007	18.7	ug/L	5.5		
MW-2	Trichloroethene	06/28/2007	1.4	ug/L	1	2.8	
MW-2	**Iron**	**06/28/2007**	**90700**	**ug/L**	**300**	**300**	**90400**
MW-2	Mercury	06/28/2007	0.3	ug/L	0.2	1.1	
MW-2	**1,4-Dichlorobenzene**	**06/28/2007**	**5.2**	**ug/L**	**1**	**1.4**	**3.8**
MW-2	Zinc	06/28/2007	674	ug/L	10	1050	
MW-2	**Manganese**	**06/28/2007**	**15500**	**ug/L**	**50**	**50**	**15450**
MW-2	**Benzene**	**06/28/2007**	**2.8**	**ug/L**	**1**	**1**	**1.8**
MW-2	Barium	06/28/2007	152	ug/L	100	2000	
MW-2	Cobalt	06/28/2007	548	ug/L	10		
MW-3	**Iron**	**06/27/2007**	**17600**	**ug/L**	**300**	**300**	**17300**
MW-3	Ethylbenzene	06/27/2007	2.3	ug/L	1	550	
MW-3	**Lead**	**06/27/2007**	**40.4**	**ug/L**	**10**	**15**	**25.4**
MW-3	**Benzene**	**06/27/2007**	**8**	**ug/L**	**1**	**1**	**7**
MW-3	**1,4-Dichlorobenzene**	**06/27/2007**	**5.8**	**ug/L**	**1**	**1.4**	**4.4**
MW-3	**Nickel**	**06/27/2007**	**162**	**ug/L**	**50**	**100**	**62**
MW-3	Barium	06/27/2007	160	ug/L	100	2000	
MW-3	cis-1,2-Dichloroethene	06/27/2007	8.3	ug/L	5	70	
MW-3	**Lead**	**06/27/2007**	**40.4**	**ug/L**	**10**	**15**	**25.4**
MW-3	Toluene	06/27/2007	3.2	ug/L	1	1000	
MW-3	**Nickel**	**06/27/2007**	**162**	**ug/L**	**50**	**100**	**62**
MW-3	**Manganese**	**06/27/2007**	**1450**	**ug/L**	**50**	**50**	**1400**
MW-3	Trichloroethene	06/27/2007	1.1	ug/L	1	2.8	
MW-3	**Vinyl chloride**	**06/27/2007**	**0.15**	**ug/L**	**1**	**0.015**	**0.135**
MW-3	Xylenes (Total)	06/27/2007	12	ug/L	4	530	
MW-3	Zinc	06/27/2007	29	ug/L	10	1050	
MW-4R	**1,4-Dichlorobenzene**	**06/27/2007**	**3.6**	**ug/L**	**1**	**1.4**	**2.2**
MW-4R	1,1-Dichloroethane	06/27/2007	6.2	ug/L	5	70	
MW-4R	Cobalt	06/27/2007	159	ug/L	10		
MW-4R	cis-1,2-Dichloroethene	06/27/2007	15	ug/L	5	70	
MW-4R	**Benzene**	**06/27/2007**	**2.8**	**ug/L**	**1**	**1**	**1.8**
MW-5	**Benzene**	**06/27/2007**	**3.2**	**ug/L**	**1**	**1**	**2.2**
MW-5	cis-1,2-Dichloroethene	06/27/2007	8.2	ug/L	5	70	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-6	Cobalt	06/28/2007	18.4	ug/L	10		
MW-6	**Manganese**	**06/28/2007**	**1000**	**ug/L**	**50**	**50**	**950**
MW-6	**Iron**	**06/28/2007**	**2220**	**ug/L**	**300**	**300**	**1920**
MW-6	Zinc	06/28/2007	18.3	ug/L	10	1050	
MW-7	1,4-Dichlorobenzene	06/27/2007	1.3	ug/L	1	1.4	
MW-7	**Benzene**	**06/27/2007**	**3.2**	**ug/L**	**1**	**1**	**2.2**
MW-7	**Manganese**	**06/27/2007**	**87.1**	**ug/L**	**50**	**50**	**37.1**
MW-7	**Iron**	**06/27/2007**	**10200**	**ug/L**	**300**	**300**	**9900**
MW-8	Mercury	06/28/2007	0.22	ug/L	0.2	1.1	
MW-9	cis-1,2-Dichloroethene	06/27/2007	10	ug/L	5	70	
MW-10	Copper	06/27/2007	47.2	ug/L	10	1000	
MW-10	**Benzene**	**06/27/2007**	**2.1**	**ug/L**	**1**	**1**	**1.1**
MW-10	Zinc	06/27/2007	43	ug/L	10	1050	
MW-11	**Vinyl chloride**	**06/27/2007**	**0.94**	**ug/L**	**1**	**0.015**	**0.925**
MW-11	Zinc	06/27/2007	40.7	ug/L	10	1050	
MW-11	**Benzene**	**06/27/2007**	**6**	**ug/L**	**1**	**1**	**5**
MW-11	Trichloroethene	06/27/2007	1.1	ug/L	1	2.8	
MW-11	**Manganese**	**06/27/2007**	**8180**	**ug/L**	**50**	**50**	**8130**
MW-11	**Iron**	**06/27/2007**	**19600**	**ug/L**	**300**	**300**	**19300**
MW-11	cis-1,2-Dichloroethene	06/27/2007	30	ug/L	5	70	
MW-11	Barium	06/27/2007	104	ug/L	100	2000	
MW-11	Cobalt	06/27/2007	98.9	ug/L	10		
MW-12	Trichloroethene	06/28/2007	2.4	ug/L	1	2.8	
MW-12	**1,4-Dichlorobenzene**	**06/28/2007**	**7.5**	**ug/L**	**1**	**1.4**	**6.1**
MW-12	**Benzene**	**06/28/2007**	**7.2**	**ug/L**	**1**	**1**	**6.2**
MW-12	**Tetrachloroethene**	**06/28/2007**	**1.3**	**ug/L**	**1**	**0.7**	**0.6**
MW-12	cis-1,2-Dichloroethene	06/28/2007	11	ug/L	5	70	
MW-12	**Iron**	**06/28/2007**	**308**	**ug/L**	**300**	**300**	**8**
MW-12	**Manganese**	**06/28/2007**	**232**	**ug/L**	**50**	**50**	**182**
MW-12	Methylene chloride	06/28/2007	1.8	ug/L	1	4.6	
MW-12D	**Manganese**	**06/28/2007**	**74.4**	**ug/L**	**50**	**50**	**24.4**
MW-12D	**Iron**	**06/28/2007**	**301**	**ug/L**	**300**	**300**	**1**
MW-13	**Manganese**	**06/28/2007**	**303**	**ug/L**	**50**	**50**	**253**
MW-13	**Iron**	**06/28/2007**	**21600**	**ug/L**	**300**	**300**	**21300**
MW-13	Zinc	06/28/2007	14.8	ug/L	10	1050	
MW-14	**1,4-Dichlorobenzene**	**06/28/2007**	**3.9**	**ug/L**	**1**	**1.4**	**2.5**
MW-14	**Pentachlorophenol**	**06/28/2007**	**1.3**	**ug/L**	**25.05**	**0.3**	**1**
MW-14	Mercury	06/28/2007	0.41	ug/L	0.2	1.1	
MW-14	**Benzene**	**06/28/2007**	**2**	**ug/L**	**1**	**1**	**1**
MW-14	Cobalt	06/28/2007	225	ug/L	10		
MW-14	Zinc	06/28/2007	21.8	ug/L	10	1050	
MW-14	cis-1,2-Dichloroethene	06/28/2007	14	ug/L	5	70	
MW-14	Barium	06/28/2007	100	ug/L	100	2000	
MW-14	Dinoseb	06/28/2007	2.3	ug/L	1	NE	
MW-15	**Benzene**	**06/28/2007**	**2.6**	**ug/L**	**1**	**1**	**1.6**
MW-15	cis-1,2-Dichloroethene	06/28/2007	6.6	ug/L	5	70	
MW-15	Methylene chloride	06/28/2007	1.8	ug/L	1	4.6	
MW-17	Methylene chloride	06/28/2007	1.2	ug/L	1	4.6	
MW-17	Cobalt	06/28/2007	23.7	ug/L	10		
MW-17	**Benzene**	**06/28/2007**	**1.4**	**ug/L**	**1**	**1**	**0.4**

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-17	Zinc	06/28/2007	10.8	ug/L	10	1050	
MW-17	Cadmium	06/28/2007	1.7	ug/L	1	1.75	
MW-17	**Mercury**	**06/28/2007**	**1.49**	**ug/L**	**0.2**	**1.1**	**0.39**
SUPPLY WELL	Zinc	06/28/2007	187	ug/L	10	1050	
MW-12	Methylene chloride	06/28/2007	1.8	ug/L	1	4.6	
MW-12D	**Manganese**	**06/28/2007**	**74.4**	**ug/L**	**50**	**50**	**24.4**
MW-12D	**Iron**	**06/28/2007**	**301**	**ug/L**	**300**	**300**	**1**
MW-13	**Manganese**	**06/28/2007**	**303**	**ug/L**	**50**	**50**	**253**
MW-13	**Iron**	**06/28/2007**	**21600**	**ug/L**	**300**	**300**	**21300**
MW-13	Zinc	06/28/2007	14.8	ug/L	10	1050	
MW-14	**1,4-Dichlorobenzene**	**06/28/2007**	**3.9**	**ug/L**	**1**	**1.4**	**2.5**
MW-14	**Pentachlorophenol**	**06/28/2007**	**1.3**	**ug/L**	**25.05**	**0.3**	**1**
MW-14	Mercury	06/28/2007	0.41	ug/L	0.2	1.1	
MW-14	**Benzene**	**06/28/2007**	**2**	**ug/L**	**1**	**1**	**1**
MW-14	Cobalt	06/28/2007	225	ug/L	10		
MW-14	Zinc	06/28/2007	21.8	ug/L	10	1050	
MW-14	cis-1,2-Dichloroethene	06/28/2007	14	ug/L	5	70	
MW-14	Barium	06/28/2007	100	ug/L	100	2000	
MW-14	Dinoseb	06/28/2007	2.3	ug/L	1	NE	
MW-15	**Benzene**	**06/28/2007**	**2.6**	**ug/L**	**1**	**1**	**1.6**
MW-15	cis-1,2-Dichloroethene	06/28/2007	6.6	ug/L	5	70	
MW-15	Methylene chloride	06/28/2007	1.8	ug/L	1	4.6	
MW-17	Methylene chloride	06/28/2007	1.2	ug/L	1	4.6	
MW-17	Cobalt	06/28/2007	23.7	ug/L	10		
MW-17	**Benzene**	**06/28/2007**	**1.4**	**ug/L**	**1**	**1**	**0.4**
MW-17	Zinc	06/28/2007	10.8	ug/L	10	1050	
MW-17	Cadmium	06/28/2007	1.7	ug/L	1	1.75	
MW-17	**Mercury**	**06/28/2007**	**1.49**	**ug/L**	**0.2**	**1.1**	**0.39**
SUPPLY WELL	Zinc	06/28/2007	187	ug/L	10	1050	

[1] Table only contains detected constituents.

[2] SWSL = Solid Waste Section Limit (Current as of sampling event)

[3] NCGW2L = North Carolina Ground Water 2L Standard

Detection Scan All Detections above MDL
Alexander County Closed MSWLF and Active C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
EB	Toluene	06/27/2007	0.15	ug/L	1	1000	
FB	Toluene	06/27/2007	0.15	ug/L	1	1000	
MW-1	1,1-Dichloroethane	06/28/2007	2.2	ug/L	5	70	
MW-1	**1,4-Dichlorobenzene**	**06/28/2007**	**2**	**ug/L**	**1**	**1.4**	**0.6**
MW-1	Acetone	06/28/2007	0.9	ug/L	100	700	
MW-1	Barium	06/28/2007	23.7	ug/L	100	2000	
MW-1	**Benzene**	**06/28/2007**	**5**	**ug/L**	**1**	**1**	**4**
MW-1	Carbon disulfide	06/28/2007	0.12	ug/L	100		
MW-1	Chloride	06/28/2007	2800	mg/L	NE		
MW-1	cis-1,2-Dichloroethene	06/28/2007	10	ug/L	5	70	
MW-1	Cobalt	06/28/2007	10	ug/L	10		
MW-1	**Iron**	**06/28/2007**	**12200**	**ug/L**	**300**	**300**	**11900**
MW-1	**Manganese**	**06/28/2007**	**764**	**ug/L**	**50**	**50**	**714**
MW-1	Sulfate	06/28/2007	22	mg/L	NE	250	
MW-1	Tetrachloroethene	06/28/2007	0.25	ug/L	1	0.7	
MW-1	Toluene	06/28/2007	0.15	ug/L	1	1000	
MW-1	Total Alkalinity	06/28/2007	170	mg/L	NE		
MW-1	Total Dissolved Solids	06/28/2007	260	mg/L	NE		
MW-1	Trichloroethene	06/28/2007	0.23	ug/L	1	2.8	
MW-1	Xylenes (Total)	06/28/2007	1.1	ug/L	4	530	
MW-1B	1,1-Dichloroethane	06/28/2007	1.8	ug/L	5	70	
MW-1B	Barium	06/28/2007	44.3	ug/L	100	2000	
MW-1B	**Benzene**	**06/28/2007**	**1.7**	**ug/L**	**1**	**1**	**0.7**
MW-1B	Carbon disulfide	06/28/2007	0.12	ug/L	100		
MW-1B	Chloride	06/28/2007	2000	mg/L	NE		
MW-1B	cis-1,2-Dichloroethene	06/28/2007	4.1	ug/L	5	70	
MW-1B	Cobalt	06/28/2007	42.6	ug/L	10		
MW-1B	Copper	06/28/2007	12.1	ug/L	10	1000	
MW-1B	Ethylbenzene	06/28/2007	0.17	ug/L	1	550	
MW-1B	**Iron**	**06/28/2007**	**6680**	**ug/L**	**300**	**300**	**6380**
MW-1B	Lead	06/28/2007	3.1	ug/L	10	15	
MW-1B	**Manganese**	**06/28/2007**	**960**	**ug/L**	**50**	**50**	**910**
MW-1B	**Mercury**	**06/28/2007**	**1.21**	**ug/L**	**0.2**	**1.1**	**0.11**
MW-1B	Methylene chloride	06/28/2007	0.088	ug/L	1	4.6	
MW-1B	Nickel	06/28/2007	1.3	ug/L	50	100	
MW-1B	Sulfate	06/28/2007	4.1	mg/L	NE	250	
MW-1B	Tetrachloroethene	06/28/2007	0.25	ug/L	1	0.7	
MW-1B	Thallium	06/28/2007	0.161	ug/L	5.5		
MW-1B	Total Alkalinity	06/28/2007	19	mg/L	NE		
MW-1B	Total Dissolved Solids	06/28/2007	78	mg/L	NE		
MW-1B	Trichloroethene	06/28/2007	0.23	ug/L	1	2.8	
MW-1B	Xylenes (Total)	06/28/2007	3.1	ug/L	4	530	
MW-1B	Zinc	06/28/2007	28.9	ug/L	10	1050	
MW-2	1,1-Dichloroethane	06/28/2007	1.9	ug/L	5	70	
MW-2	**1,4-Dichlorobenzene**	**06/28/2007**	**5.2**	**ug/L**	**1**	**1.4**	**3.8**
MW-2	Acetone	06/28/2007	0.9	ug/L	100	700	
MW-2	Barium	06/28/2007	152	ug/L	100	2000	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-2	**Benzene**	**06/28/2007**	**2.8**	**ug/L**	**1**	**1**	**1.8**
MW-2	Chloride	06/28/2007	45000	mg/L	NE		
MW-2	cis-1,2-Dichloroethene	06/28/2007	17	ug/L	5	70	
MW-2	Cobalt	06/28/2007	548	ug/L	10		
MW-2	**Iron**	**06/28/2007**	**90700**	**ug/L**	**300**	**300**	**90400**
MW-2	**Manganese**	**06/28/2007**	**15500**	**ug/L**	**50**	**50**	**15450**
MW-2	Mercury	06/28/2007	0.3	ug/L	0.2	1.1	
MW-2	Sulfate	06/28/2007	4.8	mg/L	NE	250	
MW-2	Thallium	06/28/2007	18.7	ug/L	5.5		
MW-2	Toluene	06/28/2007	0.15	ug/L	1	1000	
MW-2	Total Alkalinity	06/28/2007	180	mg/L	NE		
MW-2	Total Dissolved Solids	06/28/2007	330	mg/L	NE		
MW-2	Trichloroethene	06/28/2007	1.4	ug/L	1	2.8	
MW-2	Zinc	06/28/2007	674	ug/L	10	1050	
MW-3	1,1-Dichloroethane	06/27/2007	0.09	ug/L	5	70	
MW-3	1,2-Dichlorobenzene	06/27/2007	0.17	ug/L	5	620	
MW-3	**1,4-Dichlorobenzene**	**06/27/2007**	**5.8**	**ug/L**	**1**	**1.4**	**4.4**
MW-3	Acetone	06/27/2007	0.9	ug/L	100	700	
MW-3	Barium	06/27/2007	160	ug/L	100	2000	
MW-3	**Benzene**	**06/27/2007**	**8**	**ug/L**	**1**	**1**	**7**
MW-3	Carbon disulfide	06/27/2007	18	ug/L	100		
MW-3	Chloride	06/27/2007	7700	mg/L	NE		
MW-3	cis-1,2-Dichloroethene	06/27/2007	8.3	ug/L	5	70	
MW-3	Ethylbenzene	06/27/2007	2.3	ug/L	1	550	
MW-3	**Iron**	**06/27/2007**	**17600**	**ug/L**	**300**	**300**	**17300**
MW-3	**Lead**	**06/27/2007**	**40.4**	**ug/L**	**10**	**15**	**25.4**
MW-3	**Manganese**	**06/27/2007**	**1450**	**ug/L**	**50**	**50**	**1400**
MW-3	**Nickel**	**06/27/2007**	**162**	**ug/L**	**50**	**100**	**62**
MW-3	Sulfate	06/27/2007	0.78	mg/L	NE	250	
MW-3	Tetrachloroethene	06/27/2007	0.25	ug/L	1	0.7	
MW-3	Toluene	06/27/2007	3.2	ug/L	1	1000	
MW-3	Total Alkalinity	06/27/2007	200	mg/L	NE		
MW-3	Total Dissolved Solids	06/27/2007	310	mg/L	NE		
MW-3	Trichloroethene	06/27/2007	1.1	ug/L	1	2.8	
MW-3	**Vinyl chloride**	**06/27/2007**	**0.15**	**ug/L**	**1**	**0.015**	**0.135**
MW-3	Xylenes (Total)	06/27/2007	12	ug/L	4	530	
MW-3	Zinc	06/27/2007	29	ug/L	10	1050	
MW-4R	1,1-Dichloroethane	06/27/2007	6.2	ug/L	5	70	
MW-4R	**1,4-Dichlorobenzene**	**06/27/2007**	**3.6**	**ug/L**	**1**	**1.4**	**2.2**
MW-4R	Acetone	06/27/2007	0.9	ug/L	100	700	
MW-4R	Barium	06/27/2007	99.6	ug/L	100	2000	
MW-4R	**Benzene**	**06/27/2007**	**2.8**	**ug/L**	**1**	**1**	**1.8**
MW-4R	Chloroethane	06/27/2007	3	ug/L	10		
MW-4R	cis-1,2-Dichloroethene	06/27/2007	15	ug/L	5	70	
MW-4R	Cobalt	06/27/2007	159	ug/L	10		
MW-4R	Nickel	06/27/2007	1.3	ug/L	50	100	
MW-4R	Thallium	06/27/2007	0.043	ug/L	5.5		
MW-4R	Trichloroethene	06/27/2007	0.23	ug/L	1	2.8	
MW-5	1,1-Dichloroethane	06/27/2007	3.6	ug/L	5	70	
MW-5	1,4-Dichlorobenzene	06/27/2007	0.15	ug/L	1	1.4	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-5	2-Butanone	06/27/2007	0.56	ug/L	100	4200	
MW-5	Acetone	06/27/2007	0.9	ug/L	100	700	
MW-5	Barium	06/27/2007	59	ug/L	100	2000	
MW-5	**Benzene**	**06/27/2007**	**3.2**	**ug/L**	**1**	**1**	**2.2**
MW-5	Carbon disulfide	06/27/2007	0.12	ug/L	100		
MW-5	cis-1,2-Dichloroethene	06/27/2007	8.2	ug/L	5	70	
MW-5	Tetrachloroethene	06/27/2007	0.25	ug/L	1	0.7	
MW-5	Thallium	06/27/2007	0.054	ug/L	5.5		
MW-5	Toluene	06/27/2007	0.15	ug/L	1	1000	
MW-5	Trichloroethene	06/27/2007	0.23	ug/L	1	2.8	
MW-5	Zinc	06/27/2007	3.4	ug/L	10	1050	
MW-6	Barium	06/28/2007	32.9	ug/L	100	2000	
MW-6	Chloride	06/28/2007	4000	mg/L	NE		
MW-6	Cobalt	06/28/2007	18.4	ug/L	10		
MW-6	**Iron**	**06/28/2007**	**2220**	**ug/L**	**300**	**300**	**1920**
MW-6	**Manganese**	**06/28/2007**	**1000**	**ug/L**	**50**	**50**	**950**
MW-6	Nickel	06/28/2007	10.7	ug/L	50	100	
MW-6	Sulfate	06/28/2007	2.5	mg/L	NE	250	
MW-6	Thallium	06/28/2007	0.065	ug/L	5.5		
MW-6	Total Alkalinity	06/28/2007	14	mg/L	NE		
MW-6	Total Dissolved Solids	06/28/2007	58	mg/L	NE		
MW-6	Zinc	06/28/2007	18.3	ug/L	10	1050	
MW-7	1,1-Dichloroethane	06/27/2007	2.7	ug/L	5	70	
MW-7	1,4-Dichlorobenzene	06/27/2007	1.3	ug/L	1	1.4	
MW-7	Acetone	06/27/2007	8.3	ug/L	100	700	
MW-7	Barium	06/27/2007	1	ug/L	100	2000	
MW-7	**Benzene**	**06/27/2007**	**3.2**	**ug/L**	**1**	**1**	**2.2**
MW-7	Chloride	06/27/2007	7700	mg/L	NE		
MW-7	cis-1,2-Dichloroethene	06/27/2007	4.9	ug/L	5	70	
MW-7	**Iron**	**06/27/2007**	**10200**	**ug/L**	**300**	**300**	**9900**
MW-7	**Manganese**	**06/27/2007**	**87.1**	**ug/L**	**50**	**50**	**37.1**
MW-7	Sulfate	06/27/2007	1.7	mg/L	NE	250	
MW-7	Tetrachloroethene	06/27/2007	0.25	ug/L	1	0.7	
MW-7	Total Alkalinity	06/27/2007	210	mg/L	NE		
MW-7	Total Dissolved Solids	06/27/2007	320	mg/L	NE		
MW-7	Trichloroethene	06/27/2007	0.23	ug/L	1	2.8	
MW-8	1,1-Dichloroethane	06/28/2007	0.09	ug/L	5	70	
MW-8	1,4-Dichlorobenzene	06/28/2007	0.15	ug/L	1	1.4	
MW-8	Acetone	06/28/2007	0.9	ug/L	100	700	
MW-8	Barium	06/28/2007	43.9	ug/L	100	2000	
MW-8	Benzene	06/28/2007	0.12	ug/L	1	1	
MW-8	cis-1,2-Dichloroethene	06/28/2007	2.1	ug/L	5	70	
MW-8	Mercury	06/28/2007	0.22	ug/L	0.2	1.1	
MW-8	Nickel	06/28/2007	1.3	ug/L	50	100	
MW-8	Toluene	06/28/2007	0.15	ug/L	1	1000	
MW-8	Zinc	06/28/2007	3.4	ug/L	10	1050	
MW-9	1,1-Dichloroethane	06/27/2007	1.2	ug/L	5	70	
MW-9	1,4-Dichlorobenzene	06/27/2007	0.15	ug/L	1	1.4	
MW-9	Barium	06/27/2007	94.1	ug/L	100	2000	
MW-9	cis-1,2-Dichloroethene	06/27/2007	10	ug/L	5	70	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-9	Nickel	06/27/2007	10.7	ug/L	50	100	
MW-10	1,1-Dichloroethane	06/27/2007	0.09	ug/L	5	70	
MW-10	Acetone	06/27/2007	0.9	ug/L	100	700	
MW-10	Antimony	06/27/2007	1.11	ug/L	6		
MW-10	Arsenic	06/27/2007	3.6	ug/L	10	50	
MW-10	Barium	06/27/2007	25.5	ug/L	100	2000	
MW-10	**Benzene**	**06/27/2007**	**2.1**	**ug/L**	**1**	**1**	**1.1**
MW-10	cis-1,2-Dichloroethene	06/27/2007	3.6	ug/L	5	70	
MW-10	Copper	06/27/2007	47.2	ug/L	10	1000	
MW-10	Nickel	06/27/2007	1.3	ug/L	50	100	
MW-10	Zinc	06/27/2007	43	ug/L	10	1050	
MW-11	1,1-Dichloroethane	06/27/2007	1.4	ug/L	5	70	
MW-11	1,2-Dichlorobenzene	06/27/2007	0.47	ug/L	5	620	
MW-11	Barium	06/27/2007	104	ug/L	100	2000	
MW-11	**Benzene**	**06/27/2007**	**6**	**ug/L**	**1**	**1**	**5**
MW-11	Chloride	06/27/2007	7700	mg/L	NE		
MW-11	Chloroethane	06/27/2007	2	ug/L	10		
MW-11	cis-1,2-Dichloroethene	06/27/2007	30	ug/L	5	70	
MW-11	Cobalt	06/27/2007	98.9	ug/L	10		
MW-11	**Iron**	**06/27/2007**	**19600**	**ug/L**	**300**	**300**	**19300**
MW-11	**Manganese**	**06/27/2007**	**8180**	**ug/L**	**50**	**50**	**8130**
MW-11	Nickel	06/27/2007	30.4	ug/L	50	100	
MW-11	Sulfate	06/27/2007	2.7	mg/L	NE	250	
MW-11	Tetrachloroethene	06/27/2007	0.58	ug/L	1	0.7	
MW-11	Thallium	06/27/2007	0.205	ug/L	5.5		
MW-11	Toluene	06/27/2007	0.34	ug/L	1	1000	
MW-11	Total Alkalinity	06/27/2007	170	mg/L	NE		
MW-11	Total Dissolved Solids	06/27/2007	200	mg/L	NE		
MW-11	Trichloroethene	06/27/2007	1.1	ug/L	1	2.8	
MW-11	**Vinyl chloride**	**06/27/2007**	**0.94**	**ug/L**	**1**	**0.015**	**0.925**
MW-11	Xylenes (Total)	06/27/2007	0.43	ug/L	4	530	
MW-11	Zinc	06/27/2007	40.7	ug/L	10	1050	
MW-12	1,1-Dichloroethane	06/28/2007	2.9	ug/L	5	70	
MW-12	**1,4-Dichlorobenzene**	**06/28/2007**	**7.5**	**ug/L**	**1**	**1.4**	**6.1**
MW-12	Barium	06/28/2007	96.9	ug/L	100	2000	
MW-12	**Benzene**	**06/28/2007**	**7.2**	**ug/L**	**1**	**1**	**6.2**
MW-12	Chloride	06/28/2007	4300	mg/L	NE		
MW-12	Chloroethane	06/28/2007	2.8	ug/L	10		
MW-12	cis-1,2-Dichloroethene	06/28/2007	11	ug/L	5	70	
MW-12	**Iron**	**06/28/2007**	**308**	**ug/L**	**300**	**300**	**8**
MW-12	**Manganese**	**06/28/2007**	**232**	**ug/L**	**50**	**50**	**182**
MW-12	Methylene chloride	06/28/2007	1.8	ug/L	1	4.6	
MW-12	Nickel	06/28/2007	1.3	ug/L	50	100	
MW-12	Sulfate	06/28/2007	1.1	mg/L	NE	250	
MW-12	**Tetrachloroethene**	**06/28/2007**	**1.3**	**ug/L**	**1**	**0.7**	**0.6**
MW-12	Thallium	06/28/2007	0.071	ug/L	5.5		
MW-12	Toluene	06/28/2007	0.33	ug/L	1	1000	
MW-12	Total Alkalinity	06/28/2007	61	mg/L	NE		
MW-12	Total Dissolved Solids	06/28/2007	110	mg/L	NE		
MW-12	Trichloroethene	06/28/2007	2.4	ug/L	1	2.8	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-12	Zinc	06/28/2007	3.4	ug/L	10	1050	
MW-12D	1,1-Dichloroethane	06/28/2007	0.09	ug/L	5	70	
MW-12D	Acetone	06/28/2007	0.9	ug/L	100	700	
MW-12D	Barium	06/28/2007	1	ug/L	100	2000	
MW-12D	Benzene	06/28/2007	0.12	ug/L	1	1	
MW-12D	Carbon disulfide	06/28/2007	0.12	ug/L	100		
MW-12D	Chloride	06/28/2007	32000	mg/L	NE		
MW-12D	cis-1,2-Dichloroethene	06/28/2007	0.14	ug/L	5	70	
MW-12D	**Iron**	**06/28/2007**	**301**	**ug/L**	**300**	**300**	**1**
MW-12D	**Manganese**	**06/28/2007**	**74.4**	**ug/L**	**50**	**50**	**24.4**
MW-12D	Sulfate	06/28/2007	1.7	mg/L	NE	250	
MW-12D	Toluene	06/28/2007	0.15	ug/L	1	1000	
MW-12D	Total Alkalinity	06/28/2007	220	mg/L	NE		
MW-12D	Total Dissolved Solids	06/28/2007	430	mg/L	NE		
MW-12D	Zinc	06/28/2007	3.4	ug/L	10	1050	
MW-13	1,1-Dichloroethane	06/28/2007	0.09	ug/L	5	70	
MW-13	1,4-Dichlorobenzene	06/28/2007	0.15	ug/L	1	1.4	
MW-13	Barium	06/28/2007	27.3	ug/L	100	2000	
MW-13	Benzene	06/28/2007	0.12	ug/L	1	1	
MW-13	Chloride	06/28/2007	2100	mg/L	NE		
MW-13	cis-1,2-Dichloroethene	06/28/2007	0.14	ug/L	5	70	
MW-13	**Iron**	**06/28/2007**	**21600**	**ug/L**	**300**	**300**	**21300**
MW-13	**Manganese**	**06/28/2007**	**303**	**ug/L**	**50**	**50**	**253**
MW-13	Nickel	06/28/2007	1.3	ug/L	50	100	
MW-13	Sulfate	06/28/2007	27	mg/L	NE	250	
MW-13	Thallium	06/28/2007	0.084	ug/L	5.5		
MW-13	Total Alkalinity	06/28/2007	56	mg/L	NE		
MW-13	Total Dissolved Solids	06/28/2007	170	mg/L	NE		
MW-13	Zinc	06/28/2007	14.8	ug/L	10	1050	
MW-14	1,1-Dichloroethane	06/28/2007	1.3	ug/L	5	70	
MW-14	**1,4-Dichlorobenzene**	**06/28/2007**	**3.9**	**ug/L**	**1**	**1.4**	**2.5**
MW-14	2,4-D	06/28/2007	1.2	ug/L	2	70	
MW-14	2,4,5-T	06/28/2007	1.1	ug/L	2		
MW-14	2,4,5-TP (Silvex)	06/28/2007	1.1	ug/L	2	50	
MW-14	Barium	06/28/2007	100	ug/L	100	2000	
MW-14	**Benzene**	**06/28/2007**	**2**	**ug/L**	**1**	**1**	**1**
MW-14	Chloroethane	06/28/2007	2.2	ug/L	10		
MW-14	cis-1,2-Dichloroethene	06/28/2007	14	ug/L	5	70	
MW-14	Cobalt	06/28/2007	225	ug/L	10		
MW-14	Copper	06/28/2007	1.8	ug/L	10	1000	
MW-14	Dinoseb	06/28/2007	2.3	ug/L	1		
MW-14	Mercury	06/28/2007	0.41	ug/L	0.2	1.1	
MW-14	Naphthalene	06/28/2007	3.5	ug/L	10	21	
MW-14	Nickel	06/28/2007	11	ug/L	50	100	
MW-14	**Pentachlorophenol**	**06/28/2007**	**1.3**	**ug/L**	**25.05**	**0.3**	**1**
MW-14	Thallium	06/28/2007	0.136	ug/L	5.5		
MW-14	Trichloroethene	06/28/2007	0.86	ug/L	1	2.8	
MW-14	Zinc	06/28/2007	21.8	ug/L	10	1050	
MW-15	1,1-Dichloroethane	06/28/2007	4.2	ug/L	5	70	
MW-15	1,4-Dichlorobenzene	06/28/2007	0.48	ug/L	1	1.4	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-15	Barium	06/28/2007	14.6	ug/L	100	2000	
MW-15	**Benzene**	**06/28/2007**	**2.6**	**ug/L**	**1**	**1**	**1.6**
MW-15	cis-1,2-Dichloroethene	06/28/2007	6.6	ug/L	5	70	
MW-15	Mercury	06/28/2007	0.15	ug/L	0.2	1.1	
MW-15	Methylene chloride	06/28/2007	1.8	ug/L	1	4.6	
MW-15	Toluene	06/28/2007	0.73	ug/L	1	1000	
MW-15	Trichloroethene	06/28/2007	0.58	ug/L	1	2.8	
MW-15	Zinc	06/28/2007	3.4	ug/L	10	1050	
MW-17	1,1-Dichloroethane	06/28/2007	3	ug/L	5	70	
MW-17	1,4-Dichlorobenzene	06/28/2007	0.32	ug/L	1	1.4	
MW-17	Acetone	06/28/2007	3.5	ug/L	100	700	
MW-17	Barium	06/28/2007	61.5	ug/L	100	2000	
MW-17	**Benzene**	**06/28/2007**	**1.4**	**ug/L**	**1**	**1**	**0.4**
MW-17	Cadmium	06/28/2007	1.7	ug/L	1	1.75	
MW-17	cis-1,2-Dichloroethene	06/28/2007	2.4	ug/L	5	70	
MW-17	Cobalt	06/28/2007	23.7	ug/L	10		
MW-17	Copper	06/28/2007	1.8	ug/L	10	1000	
MW-17	**Mercury**	**06/28/2007**	**1.49**	**ug/L**	**0.2**	**1.1**	**0.39**
MW-17	Methylene chloride	06/28/2007	1.2	ug/L	1	4.6	
MW-17	Nickel	06/28/2007	1.3	ug/L	50	100	
MW-17	Tetrachloroethene	06/28/2007	0.47	ug/L	1	0.7	
MW-17	Thallium	06/28/2007	0.085	ug/L	5.5		
MW-17	Trichloroethene	06/28/2007	0.72	ug/L	1	2.8	
MW-17	Zinc	06/28/2007	10.8	ug/L	10	1050	
SUPPLY WELL	Barium	06/28/2007	1	ug/L	100	2000	
SUPPLY WELL	Copper	06/28/2007	1.8	ug/L	10	1000	
SUPPLY WELL	Lead	06/28/2007	3.1	ug/L	10	15	
SUPPLY WELL	Zinc	06/28/2007	187	ug/L	10	1050	
SW-4R	Acetone	06/28/2007	0.9	ug/L	100	700	
SW-4R	Barium	06/28/2007	17	ug/L	100	2000	
SW-5	Acetone	06/27/2007	0.9	ug/L	100	700	
SW-5	Barium	06/27/2007	25.8	ug/L	100	2000	
SW-5	Cobalt	06/27/2007	2.5	ug/L	10		
TB	Toluene	06/27/2007	0.15	ug/L	1	1000	

[1] Table only contains detected constituents.

[2] SWSL = Solid Waste Section Limit (Current as of sampling event)

[3] NCGW2L = North Carolina Ground Water 2L Standard

NE = Not Established as of time of sampling event

Hydrologic Properties at Monitoring Well Locations
Alexander County Closed MSWLF and Active C&D Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-1	5.60E-05	1%	0.13	768	S59W	36.21	1044.33
MW-1B	-	-	0.15	-	N25W	44.81	1037.75
MW-2	-	-	0.01	-	N84W	27.2	977.28
MW-3	3.90E-06	1%	0.19	75	S10W	25.49	999.24
MW-4R	4.90E-04	15%	0.05	179	S8W	16.71	995.93
MW-5	6.40E-05	15%	0.04	19	S0E	42.12	1009.14
MW-6	2.40E-05	1%	0.11	268	S28W	26.27	984.52
MW-7	1.60E-06	1%	0.05	8	S37W	41.82	967.42
MW-8	1.30E-05	1%	0.33	442	N33W	14.44	1007.57
MW-9	-	-	0.08	-	S2W	12.85	983.42
MW-10	-	-	0.06	-	S28W	37.8	1003
MW-11	-	-	0.15	-	S16W	42.41	969.55
MW-12	-	-	0.06	-	S27W	52.54	954.81
MW-13	-	-	0.05	-	S26W	39.46	965.1
MW-14	-	-	0.17	-	N87W	39.55	957.89
MW-15	-	-	0.03	-	N76W	25.37	998.07
MW-17	-	-	0.02	-	N47W	10.13	981.03

NOTE: All values for hydraulic conductivity obtained from GAI Consultants Sampling Report (April, 1995).
Hydrologic Gradient taken from the June 27 & 28, 2007 sampling event.
Flow rate (Q) is defined by the equation:

where

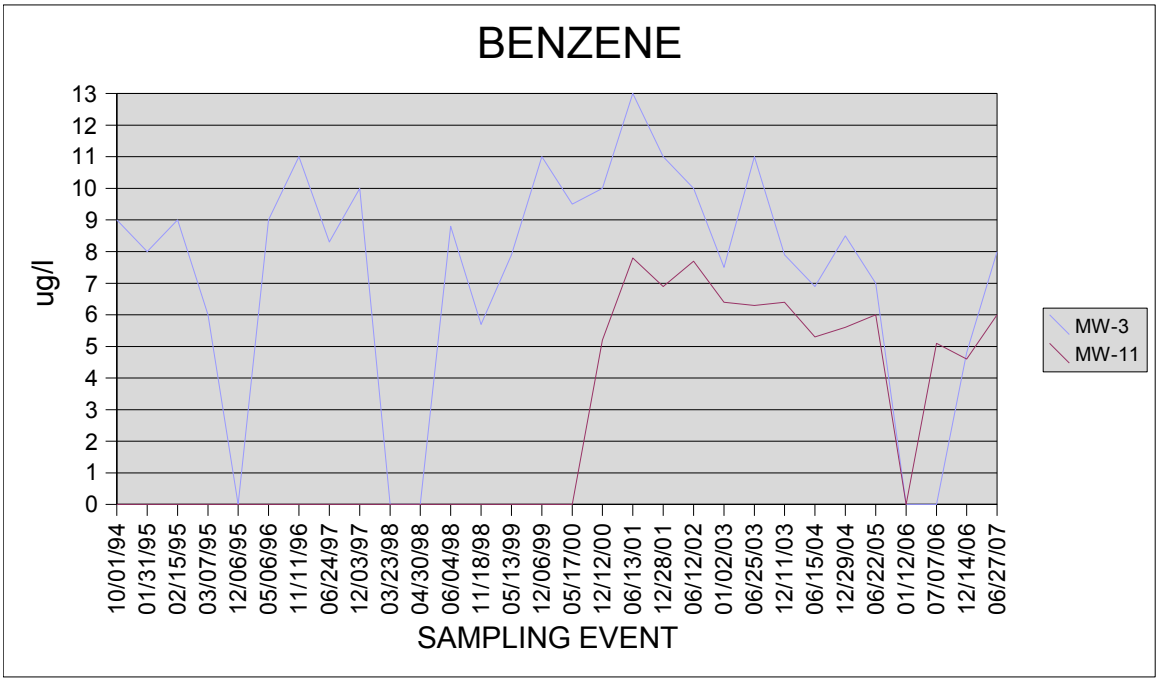
$$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

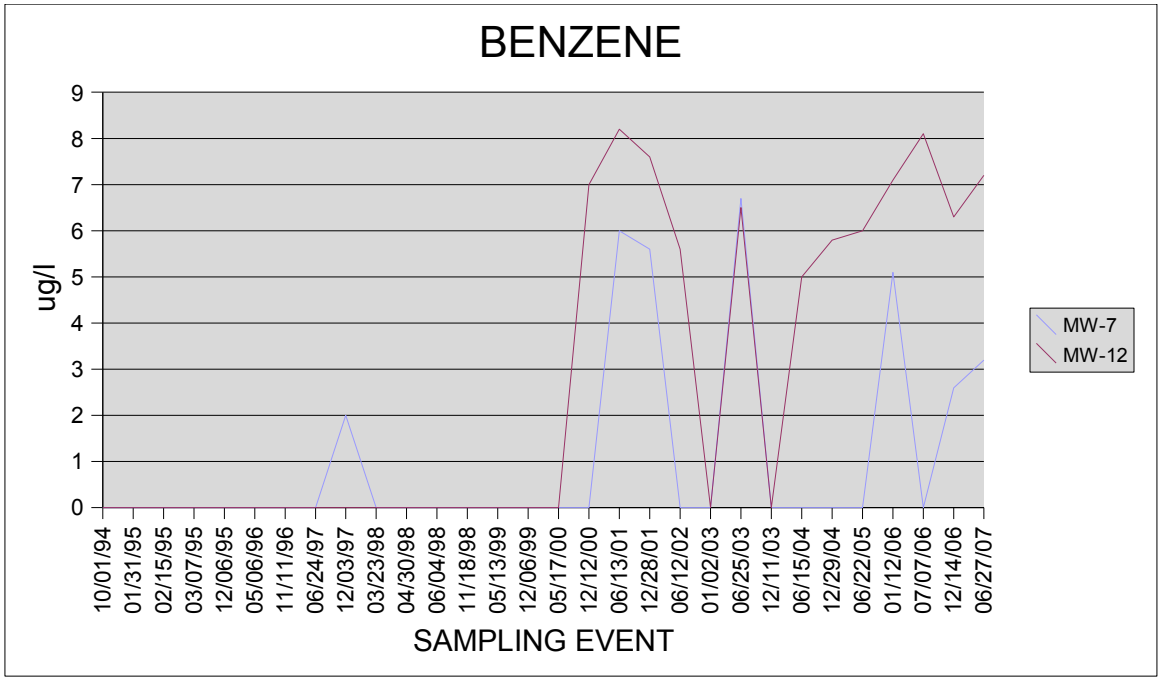
K= hydraulic conductivity
n_e = effective porosity
dh= head difference
dl= horizontal distance

Water Level Elevations at Monitoring Well Locations
Alexander County Closed MSWLF and Active C&D Landfill
June 27 & 28 Sampling Event

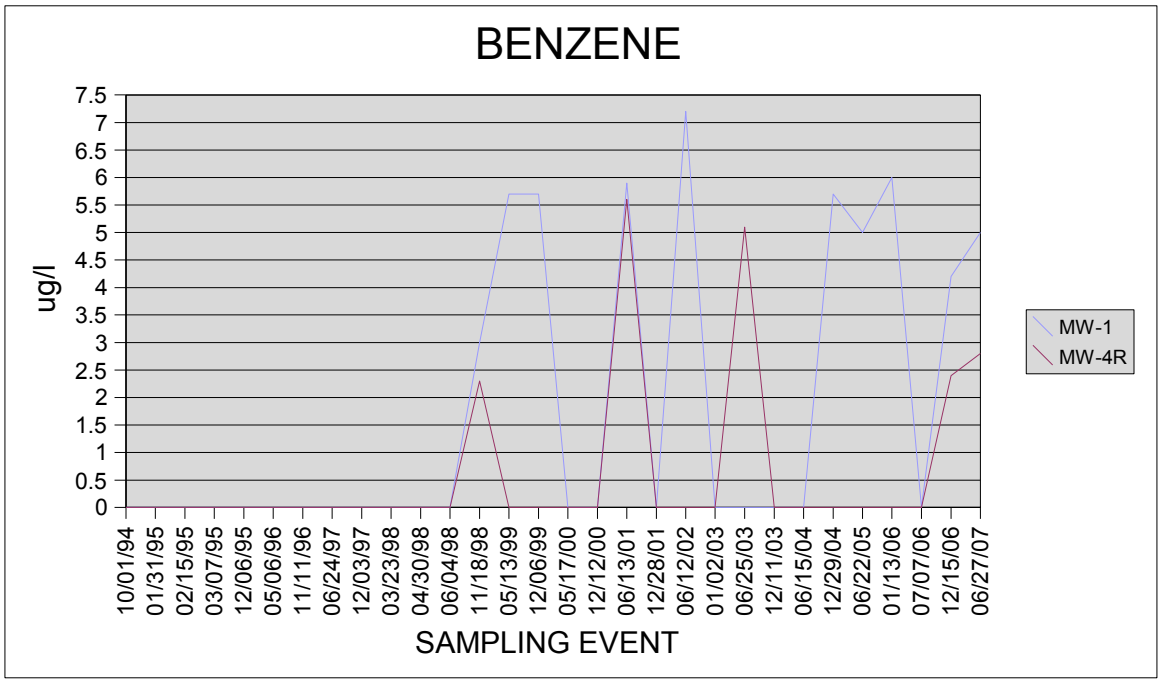
WELL #	TOP OF PIPE ELEVATION (FT)	WATER TABLE DEPTH (FT)	WATER TABLE ELEVATION (FT)
MW-1	1080.54	36.21	1044.33
MW-1A	1085.36	DRY	NA
MW-2	1004.48	27.2	977.28
MW-1B	1082.56	44.81	1037.75
MW-3	1024.73	25.49	999.24
MW-4R	1012.64	16.71	995.93
MW-5	1051.26	42.12	1009.14
MW-6	1010.79	33.43	977.36
MW-7	1009.24	41.82	967.42
MW-8	1022.01	14.44	1007.57
MW-9	996.27	12.85	983.42
MW-10	1040.8	37.8	1003.00
MW-11	1011.96	42.41	969.55
MW-12	1007.35	52.54	954.81
MW-12D	1008.46	61.17	947.29
MW-13	1004.56	39.46	965.10
MW-14	997.44	39.55	957.89
MW-15	1023.44	25.37	998.07
MW-17	991.16	10.13	981.03

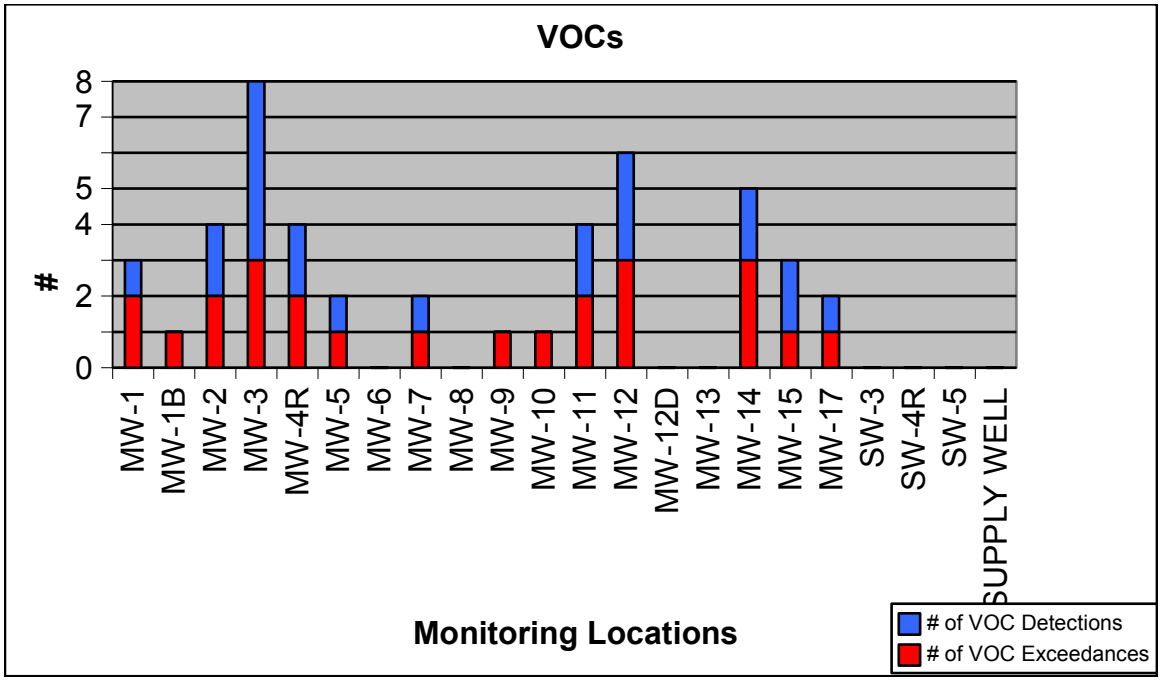
Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill



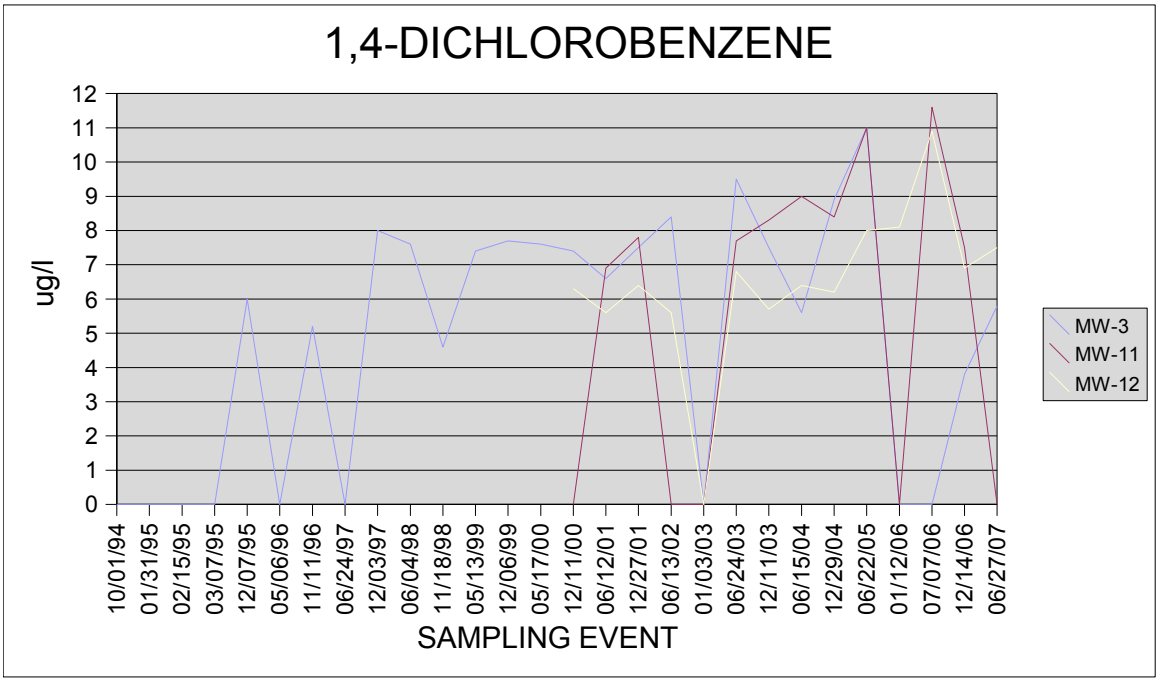


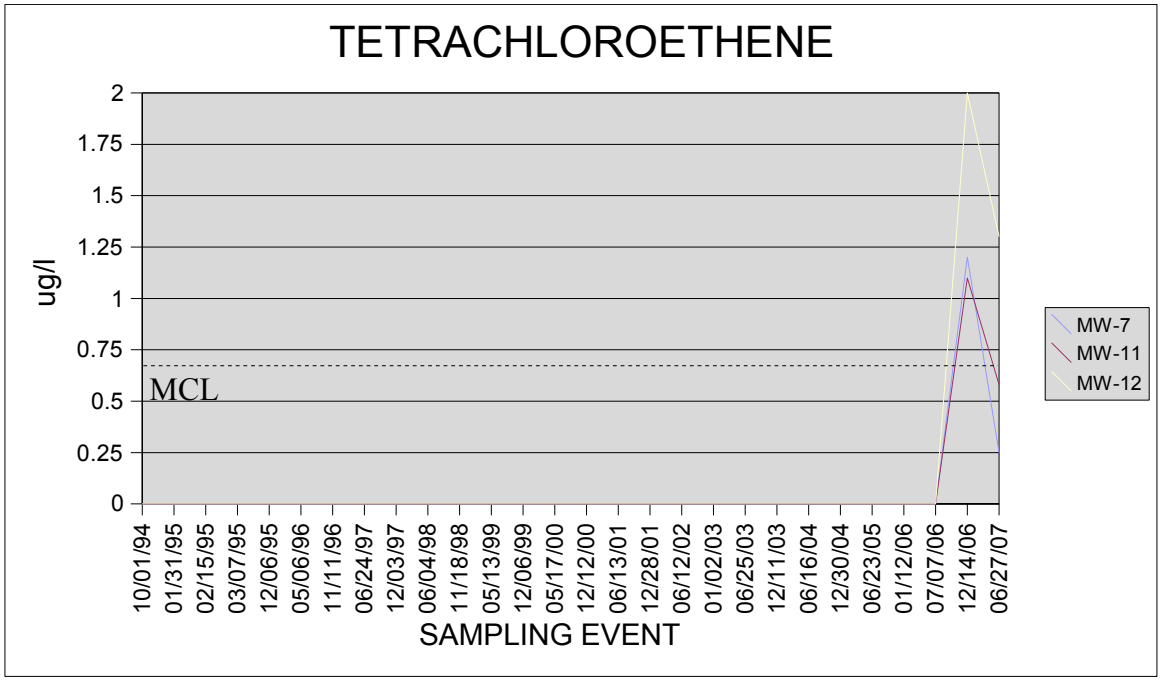
Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill





Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill





Sampling Data Sheet

Project: ~~Surry Co. Subtitle D Lined Landfill~~
Alexander Co. closed MSWLF & C&D LF

Samplers: J. Pfohl

P1 of 2

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Depth to Water (BTOP) Sample Time	Volume Purged (Gal)	Sample Type	Sampling Depth (BGS)	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth
MW-7	6/27/07	10:30	41.82	C&D	PD	P&D	•	6.4	14.6	90	C	54 ~~32.75~~
MW-5		11:15	40.12	I	PD	P&D Baler	•	6.4	14.7	110	C	49.1
MW-10		12:00	37.80	I	PD	P&D Baler	•	6.5	14.1	40	C	91
SW-5		12:20	—	I	—	Dip	•	6.9	23.1	30	C	—
MW-4R		1:00	16.71	I	7	P&D Baler	•	6.8	14.3	130	C	21.5
MW-9	↓	1:40	12.85	I	PD	P&D	•	6.9	14.7	190	C	31.5
SW-3	NS	~~[illegible]~~	DRY	—	—	—	—	—	—	—	—	—
NS/NS MW-11	6/27/07	2:50	42.41	II	7	P&D Baler	•	6.4	14.3	180	ST	56
MW-3	6/27/07	4:10	25.49	C&D	PD easily	D Baler	•	6.3	14.1	420	ST	33
MW-13	6/28/07	8:35	39.46	CD	PD	P&D Baler	•				C	60.5
MW-6		9:05	33.43	CD	7	P&D Baler	•	6.5	14.2	190	C	42
MW-2		9:50	27.20	CD	PD	D Baler	•	6.2	14.5	290	C	30
MW-14		10:35	39.55	II	PD	D Baler	•	6.1	14.4	610	C	40.5
MW-15		11:05	25.37	II	PD	P&D Baler	•	6.4	14.3	170	C	35
MW-17		12:00	10.13	II	PD	D Baler	•				C	22.3
MW-8		12:40	14.44	I & Measuring	PD	P&D Baler	•				C	28.5
MW-12D		1:35	61.17	CD	PD	P&D Baler	•	6.5	14.1	80	C	102.5
MW-12	↓	2:00	50.54	II	7		•	6.1	14.5	380	C	66.5

in weed

Comments ~~Confirmation resample event after 5/9/07 Results questionable.~~

SS Baler=Stainless Steel Baler, D Baler=Disposable Baler, P=Low flow Pump, PD=Purged Dry

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

Sampling Data Sheet

Project: Alexander Co. Closed MSWLF and Active C&D LF

Samplers: J. Pfohl P. 2 of 2

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Comments	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth
MW-1B	6/28/07	3:00	44.81	C&D	PD	P&DBaler		6.7	14.7	90	C	61
MW-1	6/28/07	3:40	36.21	C&D	PD	"		6.3	14.8	80	C	40
MW-1A	NS	–	DRY	–		-						
SW-4R	6/28/07	4:00	–	I	–	Dip		7.0	23.2	30	C	-
Food Lion DI H2O FB	6/27/07	10:00	-	I								
EB	↓	10:15	-	I								

Comments

SS Baler=Stainless Steel Baler, D Baler=Disposable Baler, P=Low flow Pump, PD=Purged Dry

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G07003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed C&D
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C707153

Requested Analyses

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	80B1A Appendix 2,8082 Appendix 2,8151A Appendix 2,8270C Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.1,Sulfate 375.4	Chloride 325.3	Cyanide Total 335.2	Sulfide 376.1	Sample Comments
	MW-11 MS/MSD	6/27/07	2:50	Grab	Water	21	X		X	X			X	X	X	X	
	MW-14	6/28/07	10:35		Water	11	X		X	X			X	X	X	X	ONLY RECEIVED 1 8260 VOA JWL *
	MW-15	6/28/07	11:05		Water	11	X		X	X			X	X	X	X	
	MW-17	6/28/07	12:00		Water	11	X		X	X			X	X	X	X	1 VOA ARRIVED BROKEN JWL
	MW-12	6/28/07	2:00		Water	11	X		X	X			X	X	X	X	
	MW-5	6/27/07	11:15		Water	4		X				X					
	MW-10	6/27/07	12:00		Water	4		X				X					
	SW-5	6/27/07	12:20		Water	4		X				X					VOA'S LABELED JWL WRONG FROM C
	MW-4R	6/27/07	1:00		Water	4		X				X					
	MW-9	6/27/07	1:40		Water	4		X				X					
	SUPPLY WELL	6/28/07	2:30		Water	4		X				X					
	SW-4R	6/28/07	4:00		Water	4		X				X					

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARY	6/22/07	MESCO	6/30/07 11:25		6/30/07 1125
Comments: MW-14 (Limited Sample) Do not analyze samples MW-14 MW-15 & MW-17 for C&D parameters per J. Pfohl. CS 7/5/7		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 4.1		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G07003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed C&D
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C707153

Requested Analyses — Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081A Appendix 2, 8082 Appendix 2, 8151A Appendix 2, 8270C Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.1, Sulfate 375.4	Chloride 325.3	Cyanide Total 335.2	Sulfide 376.1	Sample Comments
	~~SUPPLY WELL~~	~~6/28/07~~	~~2:30~~	~~Grab~~	~~Water~~	~~4~~		~~X~~				~~X~~					ADDED SAMPLE
	MW-8	6/28/07	12:40		Water	4		X				X ← include Hg					
	MW-7	6/27/07	10:30	Grab	Water	6		X			X		X	X			
	MW-3	6/27/07	4:10		Water	6		X			X		X	X			
	MW-13	6/28/07	8:35		Water	6		X			X		X	X			
	MW-6	6/28/07	9:05		Water	6		X			X		X	X			
	MW-2	6/28/07	9:50		Water	6		X			X		X	X			
	MW-12D	6/28/07	1:35		Water	6		X			X		X	X			
	MW-1B	6/28/07	3:00		Water	6		X			X		X	X			
	MW-1	6/28/07	3:40	✓	Water	6		X			X		X	X			
	~~MW-~~				Water	6		X			X		X	X			
	~~MW-~~				Water	6		X			X		X	X			

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 6/26/07	Relinquished By: [signature], MESCO	Date/Time: 6/30/07 11:05	Received By: [signature]	Date/Time: 6/30/07 11:25
Comments: SW-3 DRY		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 4.1		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G07003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed C&D
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C707153

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081A Appendix 2,8082 Appendix 2,8151A Appendix 2,8270C Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.1,Sulfate 375.4	Chloride 325.3	Cyanide Total 335.2	Sulfide 376.1	Sample Comments
	TB	6/27/07	ENCO Fill	Grab	Water	3		X									
	EB	↓	10:15	↓	Water	4		X				X					Metals not received
	FB	↓	10:00	↓	Water	4		X				X					↓
																	CS 7/15/07

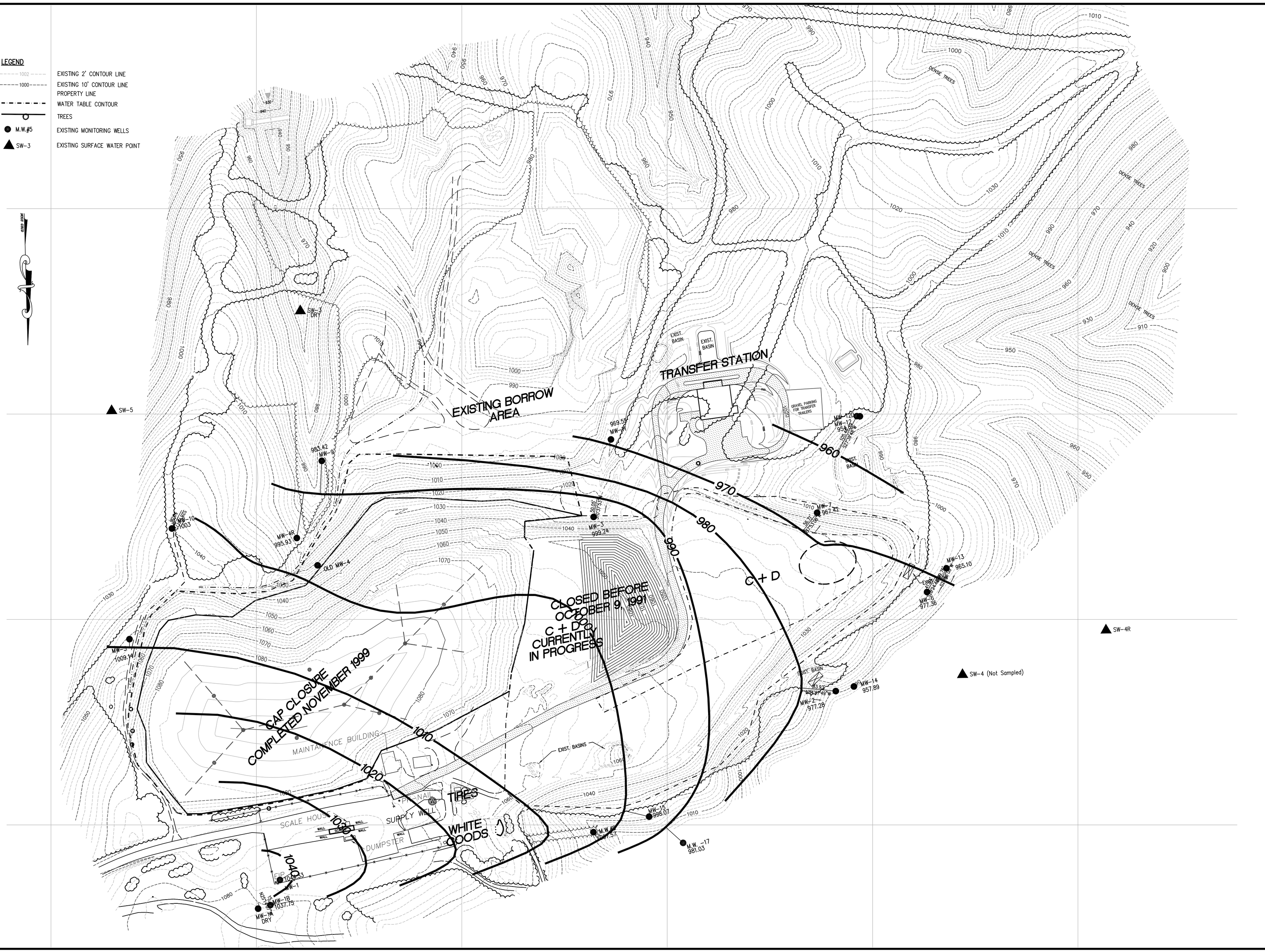
<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARY	6/26/07	[signature], MESCO	6/30/07 11:25	[signature]	6/30/07 1125
Comments: EB - Disposable Bailer Feed/ion DI H_2O		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 4, 1		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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



Municipal Services Engineering Company, P.A.

P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393

P.O. BOX 349 BOONE, N.C. 28607 (828) 262-7767

ALEXANDER COUNTY
CONSTRUCTION AND DEMOLITION LANDFILL
ALEXANDER COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP
JUNE 27, 2007

SCALE:	1" = 100'
DATE:	5/23/02
DRWN. BY:	L. HAMPTON
CHKD. BY:	J. WOODIE
PROJECT NUMBER	G02052.6
DRAWING NO.	C1
SHEET NO.	3 OF

Laboratory Results

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

Monday, July 30, 2007

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Project Number: G07003.0, Project Name/Desc: Alexander Co. Closed C&D
ENCO Workorder: C707153

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, June 30, 2007.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 162.

CASE NARRATIVE

Date: July 20, 2007

Client: Municipal Engineering

Project #: Alexander County Closed C&D

Lab ID: C707153

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

QC samples were spiked at a level equivalent to the high calibration standard of 50 ppb due to analyst error. An E flag (estimated value) is automatically generated on final reports from the LIMS system when a result exceeds the high calibration standard. In this case, some recoveries exceeded the high calibration standard by a nominal amount. Based upon QC recoveries well within the method acceptance ranges, it is apparent there is no effect on the associated data quality as a result of recoveries that were nominally over 100%. ENCO policy is to spike QC samples at or near the mid-point of the caliabration curve, and corrective action has been taken in this case to eliminate the potential of E-values for QC samples in the future.

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative. Should there be any questions regarding this package, please feel free to contact the undersigned for additional information.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-11 MS/MSD **Lab ID:** C707153-01

Sampled: 06/27/07 14:50 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/04/07		07/03/07 08:12	7/5/2007 13:35
EPA 300.0	07/25/07		07/12/07 14:50	7/12/2007 21:45
EPA 310.2	07/11/07		07/05/07 10:15	7/5/2007 14:07
EPA 335.2	07/11/07		07/11/07 09:19	7/14/2007 13:17
EPA 376.1	07/04/07		07/03/07 15:00	7/3/2007 15:30
EPA 6010B	12/24/07		07/05/07 12:51	7/17/2007 14:41
EPA 6020	12/24/07		07/12/07 13:31	7/13/2007 11:18
EPA 7470A	07/25/07		07/03/07 09:57	7/3/2007 17:25
EPA 8081A	07/04/07	08/12/07	07/03/07 09:03	7/4/2007 00:30
EPA 8082	07/04/07	08/12/07	07/03/07 09:03	7/4/2007 00:30
EPA 8151A	07/04/07	08/12/07	07/03/07 14:04	7/8/2007 01:29
EPA 8260B	07/11/07		07/10/07 16:48	7/11/2007 03:28
EPA 8270C	07/04/07	08/12/07	07/03/07 13:01	7/5/2007 23:11

Client ID: MW- 14 **Lab ID:** C707153-02

Sampled: 06/28/07 10:35 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 335.2	07/12/07		07/11/07 09:19	7/14/2007 13:17
EPA 376.1	07/05/07		07/03/07 15:00	7/3/2007 15:30
EPA 6010B	12/25/07		07/05/07 12:51	7/17/2007 15:06
EPA 6020	12/25/07		07/12/07 13:31	7/13/2007 11:25
EPA 7470A	07/26/07		07/03/07 09:57	7/3/2007 17:49
EPA 8081A	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 02:04
EPA 8082	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 02:04
EPA 8151A	07/05/07	08/12/07	07/03/07 14:04	7/12/2007 05:20
EPA 8260B	07/12/07		07/10/07 16:48	7/11/2007 08:16
EPA 8270C	07/05/07	08/12/07	07/03/07 13:01	7/5/2007 23:37

www.encolabs.com

Client ID: MW- 15 **Lab ID:** C707153-03

Sampled: 06/28/07 11:05 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 335.2	07/12/07		07/11/07 09:19	7/14/2007 13:17
EPA 376.1	07/05/07		07/03/07 15:00	7/3/2007 15:30
EPA 6010B	12/25/07		07/05/07 12:51	7/17/2007 15:26
EPA 6020	12/25/07		07/12/07 13:31	7/13/2007 11:28
EPA 7470A	07/26/07		07/03/07 09:57	7/3/2007 17:51
EPA 8081A	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 02:28
EPA 8082	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 02:28
EPA 8151A	07/05/07	08/12/07	07/03/07 14:04	7/8/2007 03:06
EPA 8260B	07/12/07		07/10/07 16:48	7/11/2007 08:42
EPA 8270C	07/05/07	08/12/07	07/03/07 13:01	7/6/2007 00:03

Client ID: MW- 17 **Lab ID:** C707153-04

Sampled: 06/28/07 12:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 335.2	07/12/07		07/11/07 09:19	7/14/2007 13:17
EPA 376.1	07/05/07		07/03/07 15:00	7/3/2007 15:30
EPA 6010B	12/25/07		07/05/07 12:51	7/17/2007 15:33
EPA 6020	12/25/07		07/12/07 13:44	7/13/2007 12:52
EPA 7470A	07/26/07		07/03/07 09:57	7/3/2007 17:54
EPA 8081A	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 02:52
EPA 8082	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 02:52
EPA 8151A	07/05/07	08/12/07	07/03/07 14:04	7/8/2007 03:39
EPA 8260B	07/12/07		07/10/07 16:48	7/11/2007 09:08
EPA 8270C	07/05/07	08/12/07	07/03/07 13:01	7/6/2007 00:29

www.encolabs.com

Client ID: MW- 12 **Lab ID:** C707153-05

Sampled: 06/28/07 14:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07		07/03/07 08:12	7/5/2007 13:35
EPA 300.0	07/26/07		07/12/07 14:50	7/12/2007 22:02
EPA 310.2	07/12/07		07/05/07 10:15	7/5/2007 14:09
EPA 335.2	07/12/07		07/11/07 09:19	7/14/2007 13:17
EPA 376.1	07/05/07		07/03/07 15:00	7/3/2007 15:30
EPA 6010B	12/25/07		07/05/07 12:51	7/17/2007 15:43
EPA 6020	12/25/07		07/12/07 13:44	7/13/2007 12:55
EPA 7470A	07/26/07		07/03/07 09:57	7/3/2007 17:57
EPA 8081A	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 03:15
EPA 8082	07/05/07	08/12/07	07/03/07 09:03	7/4/2007 03:15
EPA 8151A	07/05/07	08/12/07	07/03/07 14:04	7/8/2007 04:11
EPA 8260B	07/12/07		07/10/07 16:48	7/11/2007 14:27
EPA 8270C	07/05/07	08/12/07	07/03/07 13:01	7/6/2007 00:56

Client ID: MW- 5 **Lab ID:** C707153-06

Sampled: 06/27/07 11:15 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 15:50
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 12:57
EPA 8260B	07/11/07	07/09/07 08:02	7/10/2007 18:07

Client ID: MW- 10 **Lab ID:** C707153-07

Sampled: 06/27/07 12:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 16:11
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 13:05
EPA 8260B	07/11/07	07/09/07 08:02	7/10/2007 19:27

www.encolabs.com

Client ID: SW - 5 **Lab ID:** C707153-08

Sampled: 06/27/07 12:20 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 16:18
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 13:07
EPA 8260B	07/11/07	07/09/07 08:02	7/10/2007 18:34

Client ID: MW- 4R **Lab ID:** C707153-09

Sampled: 06/27/07 13:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 16:25
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 13:10
EPA 8260B	07/11/07	07/09/07 08:02	7/10/2007 19:00

Client ID: MW- 9 **Lab ID:** C707153-10

Sampled: 06/27/07 13:40 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 16:32
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 13:12
EPA 8260B	07/11/07	07/10/07 16:48	7/11/2007 14:54

Client ID: SUPPLY WELL **Lab ID:** C707153-11

Sampled: 06/28/07 14:30 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 16:39
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:15
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 16:42

Client ID: SW - 4R **Lab ID:** C707153-12

Sampled: 06/28/07 16:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 16:46
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:17
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 17:44

www.encolabs.com

Client ID: MW- 8 **Lab ID:** C707153-13

Sampled: 06/28/07 12:40 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 16:53
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:19
EPA 7470A	07/26/07	07/03/07 09:57	7/3/2007 17:59
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 18:11

Client ID: MW- 7 **Lab ID:** C707153-14

Sampled: 06/27/07 10:30 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/04/07	07/03/07 08:22	7/6/2007 13:15
EPA 310.2	07/11/07	07/10/07 11:23	7/10/2007 15:59
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 17:00
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 13:22
EPA 7470A	07/25/07	07/09/07 11:07	7/10/2007 12:05
EPA 8260B	07/11/07	07/10/07 16:48	7/11/2007 15:21

Client ID: MW- 7 **Lab ID:** C707153-14RE1

Sampled: 06/27/07 10:30 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	07/25/07	07/12/07 14:50	7/16/2007 15:04

Client ID: MW- 3 **Lab ID:** C707153-15

Sampled: 06/27/07 16:10 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/04/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/25/07	07/12/07 14:50	7/12/2007 22:35
EPA 310.2	07/11/07	07/10/07 11:23	7/10/2007 16:01
EPA 6010B	12/24/07	07/05/07 12:51	7/17/2007 17:07
EPA 6020	12/24/07	07/12/07 13:44	7/13/2007 13:24
EPA 7470A	07/25/07	07/09/07 11:07	7/10/2007 12:08
EPA 8260B	07/11/07	07/10/07 16:48	7/11/2007 15:48

www.encolabs.com

Client ID: MW- 13 **Lab ID:** C707153-16

Sampled: 06/28/07 08:35 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/26/07	07/12/07 14:50	7/12/2007 22:52
EPA 310.2	07/12/07	07/05/07 10:15	7/5/2007 14:12
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 17:14
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:27
EPA 7470A	07/26/07	07/09/07 11:07	7/10/2007 12:10
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 18:38

Client ID: MW- 6 **Lab ID:** C707153-17

Sampled: 06/28/07 09:05 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/26/07	07/12/07 14:50	7/12/2007 23:42
EPA 310.2	07/12/07	07/05/07 10:15	7/5/2007 14:13
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 17:35
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:34
EPA 7470A	07/26/07	07/09/07 11:07	7/10/2007 12:13
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 19:05

Client ID: MW- 2 **Lab ID:** C707153-18

Sampled: 06/28/07 09:50 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/26/07	07/12/07 14:50	7/12/2007 23:59
EPA 310.2	07/12/07	07/05/07 10:15	7/5/2007 14:14
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 17:42
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:39
EPA 7470A	07/26/07	07/09/07 11:07	7/10/2007 12:16
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 19:34

www.encolabs.com

Client ID: MW- 12D **Lab ID:** C707153-19

Sampled: 06/28/07 13:35 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/26/07	07/12/07 14:50	7/13/2007 00:16
EPA 310.2	07/12/07	07/10/07 11:23	7/10/2007 16:02
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 17:49
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:42
EPA 7470A	07/26/07	07/09/07 11:07	7/10/2007 12:18
EPA 8260B	07/12/07	07/09/07 11:41	7/11/2007 20:04

Client ID: MW- 1B **Lab ID:** C707153-20

Sampled: 06/28/07 15:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/26/07	07/12/07 14:50	7/13/2007 00:33
EPA 310.2	07/12/07	07/05/07 10:15	7/5/2007 14:17
EPA 6010B	12/25/07	07/05/07 12:51	7/17/2007 17:56
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:44
EPA 7470A	07/26/07	07/09/07 11:07	7/10/2007 12:21
EPA 8260B	07/12/07	07/11/07 13:54	7/12/2007 00:28

Client ID: MW- 1 **Lab ID:** C707153-21

Sampled: 06/28/07 15:40 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/05/07	07/03/07 08:22	7/6/2007 13:15
EPA 300.0	07/26/07	07/12/07 14:50	7/13/2007 00:50
EPA 310.2	07/12/07	07/05/07 10:15	7/5/2007 14:18
EPA 6010B	12/25/07	07/11/07 14:08	7/13/2007 11:31
EPA 6020	12/25/07	07/12/07 13:44	7/13/2007 13:47
EPA 7470A	07/26/07	07/09/07 11:07	7/10/2007 12:23
EPA 8260B	07/12/07	07/11/07 13:54	7/12/2007 00:54

www.encolabs.com

Client ID: TB **Lab ID:** C707153-22

Sampled: 06/27/07 00:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/11/07	07/10/07 16:48	7/11/2007 07:50

Client ID: EB **Lab ID:** C707153-23

Sampled: 06/27/07 10:15 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/11/07	07/10/07 16:48	7/11/2007 07:23

Client ID: FB **Lab ID:** C707153-24

Sampled: 06/27/07 10:00 **Received:** 06/30/07 11:25

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/11/07	07/10/07 16:48	7/11/2007 06:57

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-11 MS/MSD **Lab ID:** C707153-01

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	1.4	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,2-Dichlorobenzene	0.47	J	1	0.17	1.0	5	ug/L	EPA 8260B
Barium	104		1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	6.0		1	0.12	1.0	1	ug/L	EPA 8260B
Chloride	7.7		1	0.05	1.0	NE	mg/L	EPA 300.0
Chloroethane	2.0	J	1	0.40	1.0	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	30		1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	98.9		1	2.5	10.0	10	ug/L	EPA 6010B
Iron	19600		1	15	50	300	ug/L	EPA 6010B
m,p-Xylenes	0.43	J	1	0.21	2.0	NE	ug/L	EPA 8260B
Manganese	8180		1	1.4	10.0	50	ug/L	EPA 6010B
Nickel	30.4	J	1	1.3	10.0	50	ug/L	EPA 6010B
Sulfate	2.7		1	0.03	2.0	NE	mg/L	EPA 300.0
Tetrachloroethene	0.58	J	1	0.25	1.0	1	ug/L	EPA 8260B
Thallium	0.205	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Toluene	0.34	J	1	0.15	1.0	1	ug/L	EPA 8260B
Total Alkalinity	170		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	200		1	10	10	NE	mg/L	EPA 160.1
Trichloroethene	1.1		1	0.23	1.0	1	ug/L	EPA 8260B
Vinyl chloride	0.94	J	1	0.15	1.0	1	ug/L	EPA 8260B
Zinc	40.7		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 14 **Lab ID:** C707153-02

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	1.3	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	3.9		1	0.15	1.0	1	ug/L	EPA 8260B
Barium	100		1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	2.0		1	0.12	1.0	1	ug/L	EPA 8260B
Chloroethane	2.2	J	1	0.40	1.0	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	14		1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	225		1	2.5	10.0	10	ug/L	EPA 6010B
Mercury	0.41		1	0.11	0.20	0.2	ug/L	EPA 7470A
Naphthalene	3.5	J	1	0.25	1.0	10	ug/L	EPA 8260B
Nickel	11.0	J	1	1.3	10.0	50	ug/L	EPA 6010B
Thallium	0.136	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Trichloroethene	0.86	J	1	0.23	1.0	1	ug/L	EPA 8260B
Zinc	21.8		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 15 **Lab ID:** C707153-03

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	4.2	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	0.48	J	1	0.15	1.0	1	ug/L	EPA 8260B
Barium	14.6	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	2.6		1	0.12	1.0	1	ug/L	EPA 8260B
cis-1,2-Dichloroethene	6.6		1	0.14	1.0	5	ug/L	EPA 8260B
Mercury	0.15	J	1	0.11	0.20	0.2	ug/L	EPA 7470A
Methylene chloride	1.8	J	1	0.088	2.0	1	ug/L	EPA 8260B

Client ID: MW- 15 **Lab ID:** C707153-03

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Toluene	0.73	J	1	0.15	1.0	1	ug/L	EPA 8260B
Trichloroethene	0.58	J	1	0.23	1.0	1	ug/L	EPA 8260B

Client ID: MW- 17 **Lab ID:** C707153-04

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	3.0	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	0.32	J	1	0.15	1.0	1	ug/L	EPA 8260B
Acetone	3.5	J	1	0.90	5.0	100	ug/L	EPA 8260B
Barium	61.5	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	1.4		1	0.12	1.0	1	ug/L	EPA 8260B
Cadmium	1.70		1	0.38	1.00	1	ug/L	EPA 6010B
cis-1,2-Dichloroethene	2.4	J	1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	23.7		1	2.5	10.0	10	ug/L	EPA 6010B
Mercury	1.49		1	0.11	0.20	0.2	ug/L	EPA 7470A
Methylene chloride	1.2	J	1	0.088	2.0	1	ug/L	EPA 8260B
Tetrachloroethene	0.47	J	1	0.25	1.0	1	ug/L	EPA 8260B
Thallium	0.085	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Trichloroethene	0.72	J	1	0.23	1.0	1	ug/L	EPA 8260B
Zinc	10.8		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 12 **Lab ID:** C707153-05

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	2.9	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	7.5		1	0.15	1.0	1	ug/L	EPA 8260B
Barium	96.9	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	7.2		1	0.12	1.0	1	ug/L	EPA 8260B
Chloride	4.3		1	0.05	1.0	NE	mg/L	EPA 300.0
Chloroethane	2.8	J	1	0.40	1.0	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	11		1	0.14	1.0	5	ug/L	EPA 8260B
Iron	308		1	15	50	300	ug/L	EPA 6010B
Manganese	232		1	1.4	10.0	50	ug/L	EPA 6010B
Methylene chloride	1.8	J	1	0.088	2.0	1	ug/L	EPA 8260B
Sulfate	1.1	J	1	0.03	2.0	NE	mg/L	EPA 300.0
Tetrachloroethene	1.3		1	0.25	1.0	1	ug/L	EPA 8260B
Thallium	0.071	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Toluene	0.33	J	1	0.15	1.0	1	ug/L	EPA 8260B
Total Alkalinity	61		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	110		1	10	10	NE	mg/L	EPA 160.1
Trichloroethene	2.4		1	0.23	1.0	1	ug/L	EPA 8260B

Client ID: MW- 5 **Lab ID:** C707153-06

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	3.6	J	1	0.090	1.0	5	ug/L	EPA 8260B
Barium	59.0	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	3.2		1	0.12	1.0	1	ug/L	EPA 8260B
cis-1,2-Dichloroethene	8.2		1	0.14	1.0	5	ug/L	EPA 8260B
Thallium	0.054	J	1	0.036	0.050	5.5	ug/L	EPA 6020

Client ID: MW- 10 **Lab ID:** C707153-07

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Antimony	1.11	J	1	0.68	2.00	6	ug/L	EPA 6020

Client ID: MW- 10 **Lab ID:** C707153-07

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	25.5	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	2.1		1	0.12	1.0	1	ug/L	EPA 8260B
cis-1,2-Dichloroethene	3.6	J	1	0.14	1.0	5	ug/L	EPA 8260B
Copper	47.2		1	1.80	10.0	10	ug/L	EPA 6010B
Zinc	43.0		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: SW - 5 **Lab ID:** C707153-08

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	25.8	J	1	1.00	10.0	100	ug/L	EPA 6010B

Client ID: MW- 4R **Lab ID:** C707153-09

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	6.2		1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	3.6		1	0.15	1.0	1	ug/L	EPA 8260B
Barium	99.6	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	2.8		1	0.12	1.0	1	ug/L	EPA 8260B
Chloroethane	3.0	J	1	0.40	1.0	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	15		1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	159		1	2.5	10.0	10	ug/L	EPA 6010B
Thallium	0.043	J	1	0.036	0.050	5.5	ug/L	EPA 6020

Client ID: MW- 9 **Lab ID:** C707153-10

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	1.2	J	1	0.090	1.0	5	ug/L	EPA 8260B
Barium	94.1	J	1	1.00	10.0	100	ug/L	EPA 6010B
cis-1,2-Dichloroethene	10		1	0.14	1.0	5	ug/L	EPA 8260B
Nickel	10.7	J	1	1.3	10.0	50	ug/L	EPA 6010B

Client ID: SUPPLY WELL **Lab ID:** C707153-11

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Zinc	187		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: SW - 4R **Lab ID:** C707153-12

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	17.0	J	1	1.00	10.0	100	ug/L	EPA 6010B

Client ID: MW- 8 **Lab ID:** C707153-13

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	43.9	J	1	1.00	10.0	100	ug/L	EPA 6010B
cis-1,2-Dichloroethene	2.1	J	1	0.14	1.0	5	ug/L	EPA 8260B
Mercury	0.22		1	0.11	0.20	0.2	ug/L	EPA 7470A

Client ID: MW- 7 **Lab ID:** C707153-14

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	2.7	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	1.3		1	0.15	1.0	1	ug/L	EPA 8260B
Acetone	8.3	J	1	0.90	5.0	100	ug/L	EPA 8260B
Benzene	3.2		1	0.12	1.0	1	ug/L	EPA 8260B
cis-1,2-Dichloroethene	4.9	J	1	0.14	1.0	5	ug/L	EPA 8260B
Iron	10200		1	15	50	300	ug/L	EPA 6010B
Manganese	87.1		1	1.4	10.0	50	ug/L	EPA 6010B
Total Alkalinity	210	E	1	5.2	15	NE	mg/L	EPA 310.2

Client ID: MW- 7 **Lab ID:** C707153-14

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Total Dissolved Solids	320		1	10	10	NE	mg/L	EPA 160.1

Client ID: MW- 7 **Lab ID:** C707153-14RE1

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Chloride	7.7		1	0.05	1.0	NE	mg/L	EPA 300.0
Sulfate	1.7	J	1	0.03	2.0	NE	mg/L	EPA 300.0

Client ID: MW- 3 **Lab ID:** C707153-15

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,4-Dichlorobenzene	5.8		1	0.15	1.0	1	ug/L	EPA 8260B
Barium	160		1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	8.0		1	0.12	1.0	1	ug/L	EPA 8260B
Carbon disulfide	18	J	1	0.12	5.0	100	ug/L	EPA 8260B
Chloride	7.7		1	0.05	1.0	NE	mg/L	EPA 300.0
cis-1,2-Dichloroethene	8.3		1	0.14	1.0	5	ug/L	EPA 8260B
Ethylbenzene	2.3		1	0.17	1.0	1	ug/L	EPA 8260B
Iron	17600		1	15	50	300	ug/L	EPA 6010B
Lead	40.4		1	3.1	10.0	10	ug/L	EPA 6010B
Manganese	1450		1	1.4	10.0	50	ug/L	EPA 6010B
Nickel	162		1	1.3	10.0	50	ug/L	EPA 6010B
Sulfate	0.78	J	1	0.03	2.0	NE	mg/L	EPA 300.0
Toluene	3.2		1	0.15	1.0	1	ug/L	EPA 8260B
Total Alkalinity	200		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	310		1	10	10	NE	mg/L	EPA 160.1
Trichloroethene	1.1		1	0.23	1.0	1	ug/L	EPA 8260B
Xylenes (Total)	12		1	0.21	1.0	4	ug/L	EPA 8260B
Zinc	29.0		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 13 **Lab ID:** C707153-16

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	27.3	J	1	1.00	10.0	100	ug/L	EPA 6010B
Chloride	2.1		1	0.05	1.0	NE	mg/L	EPA 300.0
Iron	21600		1	15	50	300	ug/L	EPA 6010B
Manganese	303		1	1.4	10.0	50	ug/L	EPA 6010B
Sulfate	27		1	0.03	2.0	NE	mg/L	EPA 300.0
Thallium	0.084	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Total Alkalinity	56		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	170		1	10	10	NE	mg/L	EPA 160.1
Zinc	14.8		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 6 **Lab ID:** C707153-17

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Barium	32.9	J	1	1.00	10.0	100	ug/L	EPA 6010B
Chloride	4.0		1	0.05	1.0	NE	mg/L	EPA 300.0
Cobalt	18.4		1	2.5	10.0	10	ug/L	EPA 6010B
Iron	2220		1	15	50	300	ug/L	EPA 6010B
Manganese	1000		1	1.4	10.0	50	ug/L	EPA 6010B
Nickel	10.7	J	1	1.3	10.0	50	ug/L	EPA 6010B
Sulfate	2.5		1	0.03	2.0	NE	mg/L	EPA 300.0
Thallium	0.065	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Total Alkalinity	14	J	1	5.2	15	NE	mg/L	EPA 310.2

Client ID: MW- 6 **Lab ID:** C707153-17

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Total Dissolved Solids	58		1	10	10	NE	mg/L	EPA 160.1
Zinc	18.3		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 2 **Lab ID:** C707153-18

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	1.9	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	5.2		1	0.15	1.0	1	ug/L	EPA 8260B
Barium	152		1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	2.8		1	0.12	1.0	1	ug/L	EPA 8260B
Chloride	45		1	0.05	1.0	NE	mg/L	EPA 300.0
cis-1,2-Dichloroethene	17		1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	548		1	2.5	10.0	10	ug/L	EPA 6010B
Iron	90700		1	15	50	300	ug/L	EPA 6010B
Manganese	15500		1	1.4	10.0	50	ug/L	EPA 6010B
Mercury	0.30		1	0.11	0.20	0.2	ug/L	EPA 7470A
Sulfate	4.8		1	0.03	2.0	NE	mg/L	EPA 300.0
Thallium	18.7		1	0.036	0.050	5.5	ug/L	EPA 6020
Total Alkalinity	180		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	330		1	10	10	NE	mg/L	EPA 160.1
Trichloroethene	1.4		1	0.23	1.0	1	ug/L	EPA 8260B
Zinc	674		1	3.4	10.0	10	ug/L	EPA 6010B

Client ID: MW- 12D **Lab ID:** C707153-19

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
Chloride	32		1	0.05	1.0	NE	mg/L	EPA 300.0
Iron	301		1	15	50	300	ug/L	EPA 6010B
Manganese	74.4		1	1.4	10.0	50	ug/L	EPA 6010B
Sulfate	1.7	J	1	0.03	2.0	NE	mg/L	EPA 300.0
Total Alkalinity	220	E	1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	430		1	10	10	NE	mg/L	EPA 160.1

Client ID: MW- 1B **Lab ID:** C707153-20

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	1.8	J	1	0.090	1.0	5	ug/L	EPA 8260B
Barium	44.3	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	1.7		1	0.12	1.0	1	ug/L	EPA 8260B
Chloride	2.0		1	0.05	1.0	NE	mg/L	EPA 300.0
cis-1,2-Dichloroethene	4.1	J	1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	42.6		1	2.5	10.0	10	ug/L	EPA 6010B
Copper	12.1		1	1.80	10.0	10	ug/L	EPA 6010B
Iron	6680		1	15	50	300	ug/L	EPA 6010B
Manganese	960		1	1.4	10.0	50	ug/L	EPA 6010B
Mercury	1.21		1	0.11	0.20	0.2	ug/L	EPA 7470A
Sulfate	4.1		1	0.03	2.0	NE	mg/L	EPA 300.0
Thallium	0.161	J	1	0.036	0.050	5.5	ug/L	EPA 6020
Total Alkalinity	19		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	78		1	10	10	NE	mg/L	EPA 160.1
Xylenes (Total)	3.1	J	1	0.21	1.0	4	ug/L	EPA 8260B
Zinc	28.9		1	3.4	10.0	10	ug/L	EPA 6010B

www.encolabs.com

Client ID: **MW- 1** **Lab ID:** **C707153-21**

Analyte	Results/Qual		DF	MDL	MRL	NC SWSL	Units	Method
1,1-Dichloroethane	2.2	J	1	0.090	1.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	2.0		1	0.15	1.0	1	ug/L	EPA 8260B
Barium	23.7	J	1	1.00	10.0	100	ug/L	EPA 6010B
Benzene	5.0		1	0.12	1.0	1	ug/L	EPA 8260B
Chloride	2.8		1	0.05	1.0	NE	mg/L	EPA 300.0
cis-1,2-Dichloroethene	10		1	0.14	1.0	5	ug/L	EPA 8260B
Cobalt	10.0		1	2.5	10.0	10	ug/L	EPA 6010B
Iron	12200		1	15	50	300	ug/L	EPA 6010B
Manganese	764		1	1.4	10.0	50	ug/L	EPA 6010B
Sulfate	22		1	0.03	2.0	NE	mg/L	EPA 300.0
Total Alkalinity	170		1	5.2	15	NE	mg/L	EPA 310.2
Total Dissolved Solids	260		1	10	10	NE	mg/L	EPA 160.1
Xylenes (Total)	1.1	J	1	0.21	1.0	4	ug/L	EPA 8260B

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.4** J	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	10	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	**0.47** J	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	5	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	1	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	15	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
3-Chloropropene	107-05-1	0.20 U	0.20	1.0	10	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acetonitrile	75-05-8	1.8 U	1.8	10	55	ug/L
Acrolein	107-02-8	2.1 U	2.1	10	52.5	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	**6.0**	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	**2.0** J	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Chloroprene	126-99-8	0.19 U	0.19	1.0	20	ug/L
cis-1,2-Dichloroethene	156-59-2	**30**	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	5	ug/L
Ethyl Methacrylate	97-63-2	0.17 U	0.17	2.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Isobutyl alcohol	78-83-1	8.4 U	8.4	20	100	ug/L
m,p-Xylenes	108-38-3/106-42-3	**0.43** J	0.21	2.0	NE	ug/L
Methacrylonitrile	126-98-7	0.69 U	0.69	10	100	ug/L
Methyl Methacrylate	80-62-6	0.38 U	0.38	1.0	30	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	1	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	10	ug/L
o-Xylene	95-47-6	0.14 U	0.14	1.0	NE	ug/L
Propionitrile	107-12-0	1.6 U	1.6	10	150	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L
Tetrachloroethene	127-18-4	**0.58** J	0.25	1.0	1	ug/L
Toluene	108-88-3	**0.34** J	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**1.1**	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	**0.94** J	0.15	1.0	1	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	89 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	85 %	69-111
Toluene-d8	2037-26-5	47	50.0	93 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/05/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7 U	1.7	10	10	ug/L
1,3,5-Trinitrobenzene	99-35-4	1.4 U	1.4	10	10	ug/L
1,3-Dinitrobenzene	99-65-0	1.0 U	1.0	10	20	ug/L
1,4-Naphthoquinone	130-15-4	3.0 U	3.0	10	10	ug/L
1,4-Phenylenediamine	106-50-3	4.0 U	4.0	10	10	ug/L
1-Naphthylamine	134-32-7	2.5 U	2.5	10	10	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	1.0 U	1.0	10	10	ug/L
2,4,5-Trichlorophenol	95-95-4	1.1 U	1.1	10	10	ug/L
2,4,6-Trichlorophenol	88-06-2	1.4 U	1.4	10	10	ug/L
2,4-Dichlorophenol	120-83-2	1.6 U	1.6	10	10	ug/L
2,4-Dimethylphenol	105-67-9	3.0 U	3.0	10	10	ug/L
2,4-Dinitrophenol	51-28-5	1.7 U	1.7	10	50	ug/L
2,4-Dinitrotoluene	121-14-2	1.2 U	1.2	10	10	ug/L
2,6-Dichlorophenol	87-65-0	1.7 U	1.7	10	10	ug/L
2,6-Dinitrotoluene	606-20-2	1.0 U	1.0	10	10	ug/L
2-Acetylaminofluorene	53-96-3	1.3 U	1.3	10	20	ug/L
2-Chloronaphthalene	91-58-7	1.6 U	1.6	10	10	ug/L
2-Chlorophenol	95-57-8	2.0 U	2.0	10	10	ug/L
2-Methyl-4,6-dinitrophenol	534-52-1	1.4 U	1.4	10	50	ug/L
2-Methylnaphthalene	91-57-6	2.0 U	2.0	10	10	ug/L
2-Methylphenol	95-48-7	2.0 U	2.0	10	10	ug/L
2-Naphthylamine	91-59-8	4.0 U	4.0	10	10	ug/L
2-Nitroaniline	88-74-4	1.2 U	1.2	10	50	ug/L
2-Nitrophenol	88-75-5	1.8 U	1.8	10	10	ug/L
3 & 4-Methylphenol		1.9 U	1.9	20	10	ug/L
3,3'-Dichlorobenzidine	91-94-1	1.8 U	1.8	10	20	ug/L
3,3'-Dimethylbenzidine	119-93-7	3.0 U	3.0	10	10	ug/L
3-Methylcholanthrene	56-49-5	1.3 U	1.3	10	10	ug/L
3-Nitroaniline	99-09-2	1.6 U	1.6	10	50	ug/L
4-Aminobiphenyl	92-67-1	3.1 U	3.1	10	15	ug/L
4-Bromophenyl-phenylether	101-55-3	1.2 U	1.2	10	10	ug/L
4-Chloro-3-methylphenol	59-50-7	1.4 U	1.4	10	20	ug/L
4-Chloroaniline	106-47-8	1.6 U	1.6	10	20	ug/L
4-Chlorophenyl-phenylether	7005-72-3	1.2 U	1.2	10	10	ug/L
4-Nitroaniline	100-01-6	1.4 U	1.4	10	20	ug/L
4-Nitrophenol	100-02-7	1.2 U	1.2	10	50	ug/L
5-Nitro-o-toluidine	99-55-8	0.60 U	0.60	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/05/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
7,12-Dimethylbenz(a)anthracene	57-97-6	1.1 U	1.1	10	10	ug/L
Acenaphthene	83-32-9	1.4 U	1.4	10	10	ug/L
Acenaphthylene	208-96-8	1.4 U	1.4	10	10	ug/L
Acetophenone	98-86-2	2.0 U	2.0	10	10	ug/L
Anthracene	120-12-7	0.90 U	0.90	10	10	ug/L
Benzo(a)anthracene	56-55-3	1.0 U	1.0	10	10	ug/L
Benzo(a)pyrene	50-32-8	1.1 U	1.1	10	10	ug/L
Benzo(b)fluoranthene	205-99-2	0.70 U	0.70	10	10	ug/L
Benzo(g,h,i)perylene	191-24-2	1.2 U	1.2	10	10	ug/L
Benzo(k)fluoranthene	207-08-9	1.4 U	1.4	10	10	ug/L
Benzyl alcohol	100-51-6	1.0 U	1.0	10	20	ug/L
Bis(2-chloroethoxy)methane	111-91-1	2.0 U	2.0	10	10	ug/L
Bis(2-chloroethyl)ether	111-44-4	2.1 U	2.1	10	10	ug/L
Bis(2-chloroisopropyl)ether	108-60-1	2.2 U	2.2	10	10	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	1.9 U	1.9	10	15	ug/L
Butylbenzylphthalate	85-68-7	1.4 U	1.4	10	10	ug/L
Chlorobenzilate	510-15-6	1.1 U	1.1	10	10	ug/L
Chrysene	218-01-9	1.0 U	1.0	10	10	ug/L
Diallate	2303-16-4	1.3 U	1.3	10	10	ug/L
Dibenzo(a,h)anthracene	53-70-3	1.0 U	1.0	10	10	ug/L
Dibenzofuran	132-64-9	1.3 U	1.3	10	10	ug/L
Diethylphthalate	84-66-2	1.3 U	1.3	10	10	ug/L
Dimethoate	60-51-5	1.0 U	1.0	10	20	ug/L
Dimethylphthalate	131-11-3	1.1 U	1.1	10	10	ug/L
Di-n-butylphthalate	84-74-2	1.0 U	1.0	10	10	ug/L
Di-n-octylphthalate	117-84-0	2.0 U	2.0	10	10	ug/L
Disulfoton	298-04-4	1.0 U	1.0	10	10	ug/L
Ethyl methanesulfonate	62-50-0	1.1 U	1.1	10	20	ug/L
Famphur	52-85-7	1.8 U	1.8	10	20	ug/L
Fluoranthene	206-44-0	1.1 U	1.1	10	10	ug/L
Fluorene	86-73-7	1.1 U	1.1	10	10	ug/L
Hexachlorobenzene	118-74-1	1.1 U	1.1	10	10	ug/L
Hexachlorobutadiene	87-68-3	2.0 U	2.0	10	10	ug/L
Hexachlorocyclopentadiene	77-47-4	2.0 U	2.0	10	10	ug/L
Hexachloroethane	67-72-1	2.4 U	2.4	10	10	ug/L
Hexachloropropene	1888-71-7	1.1 U	1.1	10	10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	1.2 U	1.2	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/05/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Isodrin	465-73-6	1.0 U	1.0	10	20	ug/L
Isophorone	78-59-1	1.8 U	1.8	10	10	ug/L
Isosafrole	120-58-1	1.3 U	1.3	10	10	ug/L
Kepone	143-50-0	1.5 U	1.5	20	20	ug/L
Methapyrilene	91-80-5	3.8 U	3.8	10	100	ug/L
Methyl Methanesulfonate	66-27-3	2.0 U	2.0	10	10	ug/L
Methyl parathion	298-00-0	1.2 U	1.2	10	10	ug/L
Nitrobenzene	98-95-3	1.9 U	1.9	10	10	ug/L
N-Nitrosodiethylamine	55-18-5	1.9 U	1.9	10	20	ug/L
N-Nitrosodimethylamine	62-75-9	1.9 U	1.9	10	10	ug/L
N-Nitrosodi-n-butylamine	924-16-3	1.0 U	1.0	10	10	ug/L
N-Nitroso-di-n-propylamine	621-64-7	2.1 U	2.1	10	10	ug/L
N-Nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	1.1 U	1.1	10	10	ug/L
N-Nitrosomethylethylamine	10595-95-6	1.9 U	1.9	10	10	ug/L
N-Nitrosopiperidine	100-75-4	1.5 U	1.5	10	20	ug/L
N-Nitrosopyrrolidine	930-55-2	1.9 U	1.9	10	10	ug/L
O,O,O-Triethyl phosphorothioate	126-68-1	2.0 U	2.0	10	10	ug/L
o-Toluidine	95-53-4	1.5 U	1.5	10	10	ug/L
Parathion	56-38-2	1.2 U	1.2	10	10	ug/L
p-Dimethylaminoazobenzene	60-11-7	1.2 U	1.2	10	10	ug/L
Pentachlorobenzene	608-93-5	1.2 U	1.2	10	10	ug/L
Pentachloronitrobenzene	82-68-8	1.1 U	1.1	10	20	ug/L
Phenacetin	62-44-2	1.0 U	1.0	10	20	ug/L
Phenanthrene	85-01-8	0.90 U	0.90	10	10	ug/L
Phenol	108-95-2	1.5 U	1.5	10	10	ug/L
Phorate	298-02-2	4.1 U	4.1	10	10	ug/L
Pronamide	23950-58-5	1.0 U	1.0	10	10	ug/L
Pyrene	129-00-0	1.3 U	1.3	10	10	ug/L
Safrole	94-59-7	1.9 U	1.9	10	10	ug/L
Thionazin	297-97-2	1.2 U	1.2	10	20	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,6-Tribromophenol	118-79-6	120	100	119 %	55-159
2-Fluorobiphenyl	321-60-8	37	50.0	75 %	44-131
2-Fluorophenol	367-12-4	57	100	57 %	30-114
Nitrobenzene-d5	NA	34	50.0	69 %	39-131
Phenol-d5	NA	45	100	45 %	12-122
Terphenyl-d14	NA	59	50.0	119 %	47-160

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8081A	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Organochlorine Pesticides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
4,4'-DDD	72-54-8	0.0050 U	0.0050	0.050	0.1	ug/L
4,4'-DDE	72-55-9	0.0060 U	0.0060	0.050	0.1	ug/L
4,4'-DDT	50-29-3	0.0050 U	0.0050	0.050	0.1	ug/L
Aldrin	309-00-2	0.0030 U	0.0030	0.050	0.05	ug/L
alpha-BHC	319-84-6	0.0010 U	0.0010	0.050	0.05	ug/L
beta-BHC	319-85-7	0.0030 U	0.0030	0.050	0.05	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
delta-BHC	319-86-8	0.0020 U	0.0020	0.050	0.05	ug/L
Dieldrin	60-57-1	0.0060 U	0.0060	0.050	0.075	ug/L
Endosulfan I	959-98-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan II	33213-65-9	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan sulfate	1031-07-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin	72-20-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin aldehyde	7421-93-4	0.0040 U	0.0040	0.050	0.1	ug/L
gamma-BHC	58-89-9	0.0020 U	0.0020	0.050	0.05	ug/L
Heptachlor	76-44-8	0.0030 U	0.0030	0.050	0.05	ug/L
Heptachlor epoxide	1024-57-3	0.0040 U	0.0040	0.050	0.075	ug/L
Methoxychlor	72-43-5	0.0060 U	0.0060	0.050	1	ug/L
Toxaphene	8001-35-2	0.67 U	0.67	1.0	1.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.95	1.00	95 %	27-125
DBC	NA	1.0	1.00	102 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8082	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Polychlorinated Biphenyls by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
PCB-1016/1242	12674-11-2/53469-21-	0.34 U	0.34	1.0		ug/L
PCB-1221	11104-28-2	0.70 U	0.70	1.0	NE	ug/L
PCB-1232	11141-16-5	0.80 U	0.80	1.0	NE	ug/L
PCB-1248	12672-29-6	0.70 U	0.70	1.0	NE	ug/L
PCB-1254	11097-69-1	0.50 U	0.50	1.0	NE	ug/L
PCB-1260	11096-82-5	0.21 U	0.21	1.0	NE	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.95	1.00	95 %	27-125
DBC	NA	1.0	1.00	102 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW-11 MS/MSD
Lab #: C707153-01

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12031
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**104**	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**98.9**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**19600**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**8180**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G03008
Nickel	7440-02-0	**30.4** J	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.205** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12031
Tin	7440-31-5	3.6 U	1	3.6	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**40.7**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW-11 MS/MSD
Lab #: C707153-01

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Cyanide (total)	57-12-5	0.010 U	1	0.010	0.040	10	mg/L	EPA 335.2	NO PREP	7G11009
Sulfide	18496-25-8	0.50 U	1	0.50	1.0	1	mg/L	EPA 376.1	NO PREP	7G10003
Total Alkalinity	NA	**170**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**200**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G03002

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW-11 MS/MSD	Project:	Alexander Co. Closed C&D
Lab #:	C707153-01	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/08/07 By: RB/	Unit:	ug/L
Anal. Method:	EPA 8151A	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G03016		

Chlorinated Herbicides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
2,4,5-T	93-76-5	0.11 U	0.11	0.30	2	ug/L
2,4,5-TP (Silvex)	93-72-1	0.11 U	0.11	0.30	2	ug/L
2,4-D	94-75-7	0.12 U	0.12	0.30	2	ug/L
Dinoseb	88-85-7	0.23 U	0.23	0.30	1	ug/L
Pentachlorophenol	87-86-5	0.13 U	0.13	0.30	25.05	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4-DCAA	94-75-7	2.7	2.00	133 %	77-191

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW-11 MS/MSD
Lab #: C707153-01

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**7.7**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**2.7**	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.3** J	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	10	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	5	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**3.9**	0.15	1.0	1	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	15	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
3-Chloropropene	107-05-1	0.20 U	0.20	1.0	10	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acetonitrile	75-05-8	1.8 U	1.8	10	55	ug/L
Acrolein	107-02-8	2.1 U	2.1	10	52.5	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	**2.0**	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	**2.2** J	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Chloroprene	126-99-8	0.19 U	0.19	1.0	20	ug/L
cis-1,2-Dichloroethene	156-59-2	**14**	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	5	ug/L
Ethyl Methacrylate	97-63-2	0.17 U	0.17	2.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Isobutyl alcohol	78-83-1	8.4 U	8.4	20	100	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.21 U	0.21	2.0	NE	ug/L
Methacrylonitrile	126-98-7	0.69 U	0.69	10	100	ug/L
Methyl Methacrylate	80-62-6	0.38 U	0.38	1.0	30	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	1	ug/L
Naphthalene	91-20-3	**3.5** J	0.25	1.0	10	ug/L
o-Xylene	95-47-6	0.14 U	0.14	1.0	NE	ug/L
Propionitrile	107-12-0	1.6 U	1.6	10	150	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**0.86** J	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	42	50.0	85 %	67-125
Dibromofluoromethane	1868-53-7	36	50.0	71 %	69-111
Toluene-d8	2037-26-5	45	50.0	90 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/05/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7 U	1.7	10	10	ug/L
1,3,5-Trinitrobenzene	99-35-4	1.4 U	1.4	10	10	ug/L
1,3-Dinitrobenzene	99-65-0	1.0 U	1.0	10	20	ug/L
1,4-Naphthoquinone	130-15-4	3.0 U	3.0	10	10	ug/L
1,4-Phenylenediamine	106-50-3	4.0 U	4.0	10	10	ug/L
1-Naphthylamine	134-32-7	2.5 U	2.5	10	10	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	1.0 U	1.0	10	10	ug/L
2,4,5-Trichlorophenol	95-95-4	1.1 U	1.1	10	10	ug/L
2,4,6-Trichlorophenol	88-06-2	1.4 U	1.4	10	10	ug/L
2,4-Dichlorophenol	120-83-2	1.6 U	1.6	10	10	ug/L
2,4-Dimethylphenol	105-67-9	3.0 U	3.0	10	10	ug/L
2,4-Dinitrophenol	51-28-5	1.7 U	1.7	10	50	ug/L
2,4-Dinitrotoluene	121-14-2	1.2 U	1.2	10	10	ug/L
2,6-Dichlorophenol	87-65-0	1.7 U	1.7	10	10	ug/L
2,6-Dinitrotoluene	606-20-2	1.0 U	1.0	10	10	ug/L
2-Acetylaminofluorene	53-96-3	1.3 U	1.3	10	20	ug/L
2-Chloronaphthalene	91-58-7	1.6 U	1.6	10	10	ug/L
2-Chlorophenol	95-57-8	2.0 U	2.0	10	10	ug/L
2-Methyl-4,6-dinitrophenol	534-52-1	1.4 U	1.4	10	50	ug/L
2-Methylnaphthalene	91-57-6	2.0 U	2.0	10	10	ug/L
2-Methylphenol	95-48-7	2.0 U	2.0	10	10	ug/L
2-Naphthylamine	91-59-8	4.0 U	4.0	10	10	ug/L
2-Nitroaniline	88-74-4	1.2 U	1.2	10	50	ug/L
2-Nitrophenol	88-75-5	1.8 U	1.8	10	10	ug/L
3 & 4-Methylphenol		1.9 U	1.9	20	10	ug/L
3,3'-Dichlorobenzidine	91-94-1	1.8 U	1.8	10	20	ug/L
3,3'-Dimethylbenzidine	119-93-7	3.0 U	3.0	10	10	ug/L
3-Methylcholanthrene	56-49-5	1.3 U	1.3	10	10	ug/L
3-Nitroaniline	99-09-2	1.6 U	1.6	10	50	ug/L
4-Aminobiphenyl	92-67-1	3.1 U	3.1	10	15	ug/L
4-Bromophenyl-phenylether	101-55-3	1.2 U	1.2	10	10	ug/L
4-Chloro-3-methylphenol	59-50-7	1.4 U	1.4	10	20	ug/L
4-Chloroaniline	106-47-8	1.6 U	1.6	10	20	ug/L
4-Chlorophenyl-phenylether	7005-72-3	1.2 U	1.2	10	10	ug/L
4-Nitroaniline	100-01-6	1.4 U	1.4	10	20	ug/L
4-Nitrophenol	100-02-7	1.2 U	1.2	10	50	ug/L
5-Nitro-o-toluidine	99-55-8	0.60 U	0.60	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/05/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
7,12-Dimethylbenz(a)anthracene	57-97-6	1.1 U	1.1	10	10	ug/L
Acenaphthene	83-32-9	1.4 U	1.4	10	10	ug/L
Acenaphthylene	208-96-8	1.4 U	1.4	10	10	ug/L
Acetophenone	98-86-2	2.0 U	2.0	10	10	ug/L
Anthracene	120-12-7	0.90 U	0.90	10	10	ug/L
Benzo(a)anthracene	56-55-3	1.0 U	1.0	10	10	ug/L
Benzo(a)pyrene	50-32-8	1.1 U	1.1	10	10	ug/L
Benzo(b)fluoranthene	205-99-2	0.70 U	0.70	10	10	ug/L
Benzo(g,h,i)perylene	191-24-2	1.2 U	1.2	10	10	ug/L
Benzo(k)fluoranthene	207-08-9	1.4 U	1.4	10	10	ug/L
Benzyl alcohol	100-51-6	1.0 U	1.0	10	20	ug/L
Bis(2-chloroethoxy)methane	111-91-1	2.0 U	2.0	10	10	ug/L
Bis(2-chloroethyl)ether	111-44-4	2.1 U	2.1	10	10	ug/L
Bis(2-chloroisopropyl)ether	108-60-1	2.2 U	2.2	10	10	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	1.9 U	1.9	10	15	ug/L
Butylbenzylphthalate	85-68-7	1.4 U	1.4	10	10	ug/L
Chlorobenzilate	510-15-6	1.1 U	1.1	10	10	ug/L
Chrysene	218-01-9	1.0 U	1.0	10	10	ug/L
Diallate	2303-16-4	1.3 U	1.3	10	10	ug/L
Dibenzo(a,h)anthracene	53-70-3	1.0 U	1.0	10	10	ug/L
Dibenzofuran	132-64-9	1.3 U	1.3	10	10	ug/L
Diethylphthalate	84-66-2	1.3 U	1.3	10	10	ug/L
Dimethoate	60-51-5	1.0 U	1.0	10	20	ug/L
Dimethylphthalate	131-11-3	1.1 U	1.1	10	10	ug/L
Di-n-butylphthalate	84-74-2	1.0 U	1.0	10	10	ug/L
Di-n-octylphthalate	117-84-0	2.0 U	2.0	10	10	ug/L
Disulfoton	298-04-4	1.0 U	1.0	10	10	ug/L
Ethyl methanesulfonate	62-50-0	1.1 U	1.1	10	20	ug/L
Famphur	52-85-7	1.8 U	1.8	10	20	ug/L
Fluoranthene	206-44-0	1.1 U	1.1	10	10	ug/L
Fluorene	86-73-7	1.1 U	1.1	10	10	ug/L
Hexachlorobenzene	118-74-1	1.1 U	1.1	10	10	ug/L
Hexachlorobutadiene	87-68-3	2.0 U	2.0	10	10	ug/L
Hexachlorocyclopentadiene	77-47-4	2.0 U	2.0	10	10	ug/L
Hexachloroethane	67-72-1	2.4 U	2.4	10	10	ug/L
Hexachloropropene	1888-71-7	1.1 U	1.1	10	10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	1.2 U	1.2	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/05/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Isodrin	465-73-6	1.0 U	1.0	10	20	ug/L
Isophorone	78-59-1	1.8 U	1.8	10	10	ug/L
Isosafrole	120-58-1	1.3 U	1.3	10	10	ug/L
Kepone	143-50-0	1.5 U	1.5	20	20	ug/L
Methapyrilene	91-80-5	3.8 U	3.8	10	100	ug/L
Methyl Methanesulfonate	66-27-3	2.0 U	2.0	10	10	ug/L
Methyl parathion	298-00-0	1.2 U	1.2	10	10	ug/L
Nitrobenzene	98-95-3	1.9 U	1.9	10	10	ug/L
N-Nitrosodiethylamine	55-18-5	1.9 U	1.9	10	20	ug/L
N-Nitrosodimethylamine	62-75-9	1.9 U	1.9	10	10	ug/L
N-Nitrosodi-n-butylamine	924-16-3	1.0 U	1.0	10	10	ug/L
N-Nitroso-di-n-propylamine	621-64-7	2.1 U	2.1	10	10	ug/L
N-Nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	1.1 U	1.1	10	10	ug/L
N-Nitrosomethylethylamine	10595-95-6	1.9 U	1.9	10	10	ug/L
N-Nitrosopiperidine	100-75-4	1.5 U	1.5	10	20	ug/L
N-Nitrosopyrrolidine	930-55-2	1.9 U	1.9	10	10	ug/L
O,O,O-Triethyl phosphorothioate	126-68-1	2.0 U	2.0	10	10	ug/L
o-Toluidine	95-53-4	1.5 U	1.5	10	10	ug/L
Parathion	56-38-2	1.2 U	1.2	10	10	ug/L
p-Dimethylaminoazobenzene	60-11-7	1.2 U	1.2	10	10	ug/L
Pentachlorobenzene	608-93-5	1.2 U	1.2	10	10	ug/L
Pentachloronitrobenzene	82-68-8	1.1 U	1.1	10	20	ug/L
Phenacetin	62-44-2	1.0 U	1.0	10	20	ug/L
Phenanthrene	85-01-8	0.90 U	0.90	10	10	ug/L
Phenol	108-95-2	1.5 U	1.5	10	10	ug/L
Phorate	298-02-2	4.1 U	4.1	10	10	ug/L
Pronamide	23950-58-5	1.0 U	1.0	10	10	ug/L
Pyrene	129-00-0	1.3 U	1.3	10	10	ug/L
Safrole	94-59-7	1.9 U	1.9	10	10	ug/L
Thionazin	297-97-2	1.2 U	1.2	10	20	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,6-Tribromophenol	118-79-6	110	100	114 %	55-159
2-Fluorobiphenyl	321-60-8	36	50.0	71 %	44-131
2-Fluorophenol	367-12-4	50	100	50 %	30-114
Nitrobenzene-d5	NA	31	50.0	63 %	39-131
Phenol-d5	NA	37	100	37 %	12-122
Terphenyl-d14	NA	53	50.0	105 %	47-160

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8081A	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Organochlorine Pesticides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
4,4'-DDD	72-54-8	0.0050 U	0.0050	0.050	0.1	ug/L
4,4'-DDE	72-55-9	0.0060 U	0.0060	0.050	0.1	ug/L
4,4'-DDT	50-29-3	0.0050 U	0.0050	0.050	0.1	ug/L
Aldrin	309-00-2	0.0030 U	0.0030	0.050	0.05	ug/L
alpha-BHC	319-84-6	0.0010 U	0.0010	0.050	0.05	ug/L
beta-BHC	319-85-7	0.0030 U	0.0030	0.050	0.05	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
delta-BHC	319-86-8	0.0020 U	0.0020	0.050	0.05	ug/L
Dieldrin	60-57-1	0.0060 U	0.0060	0.050	0.075	ug/L
Endosulfan I	959-98-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan II	33213-65-9	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan sulfate	1031-07-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin	72-20-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin aldehyde	7421-93-4	0.0040 U	0.0040	0.050	0.1	ug/L
gamma-BHC	58-89-9	0.0020 U	0.0020	0.050	0.05	ug/L
Heptachlor	76-44-8	0.0030 U	0.0030	0.050	0.05	ug/L
Heptachlor epoxide	1024-57-3	0.0040 U	0.0040	0.050	0.075	ug/L
Methoxychlor	72-43-5	0.0060 U	0.0060	0.050	1	ug/L
Toxaphene	8001-35-2	0.67 U	0.67	1.0	1.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.84	1.00	84 %	27-125
DBC	NA	0.94	1.00	94 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8082	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Polychlorinated Biphenyls by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
PCB-1016/1242	12674-11-2/53469-21-	0.34 U	0.34	1.0		ug/L
PCB-1221	11104-28-2	0.70 U	0.70	1.0	NE	ug/L
PCB-1232	11141-16-5	0.80 U	0.80	1.0	NE	ug/L
PCB-1248	12672-29-6	0.70 U	0.70	1.0	NE	ug/L
PCB-1254	11097-69-1	0.50 U	0.50	1.0	NE	ug/L
PCB-1260	11096-82-5	0.21 U	0.21	1.0	NE	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.84	1.00	84 %	27-125
DBC	NA	0.94	1.00	94 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 14
Lab #: C707153-02

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12031
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**100**	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**225**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	**0.41**	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G03008
Nickel	7440-02-0	**11.0** J	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.136** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12031
Tin	7440-31-5	3.6 U	1	3.6	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**21.8**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 14
Lab #: C707153-02

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Cyanide (total)	57-12-5	0.010 U	1	0.010	0.040	10	mg/L	EPA 335.2	NO PREP	7G11009
Sulfide	18496-25-8	0.50 U	1	0.50	1.0	1	mg/L	EPA 376.1	NO PREP	7G10003

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 14	Project:	Alexander Co. Closed C&D
Lab #:	C707153-02	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/12/07 By: RG/	Unit:	ug/L
Anal. Method:	EPA 8151A	Dilution Factor:	10
Anal. Batch:	AA01177		
QC Batch:	7G03016		

Chlorinated Herbicides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
2,4,5-T	93-76-5	1.1 U, D	1.1	3.0	2	ug/L
2,4,5-TP (Silvex)	93-72-1	1.1 U, D	1.1	3.0	2	ug/L
2,4-D	94-75-7	1.2 U, D	1.2	3.0	2	ug/L
Dinoseb	88-85-7	2.3 U, D	2.3	3.0	1	ug/L
Pentachlorophenol	87-86-5	1.3 U, D	1.3	3.0	25.05	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4-DCAA	94-75-7	12 S-06	2.00	607 %	77-191

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**4.2** J	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	10	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	5	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**0.48** J	0.15	1.0	1	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	15	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
3-Chloropropene	107-05-1	0.20 U	0.20	1.0	10	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acetonitrile	75-05-8	1.8 U	1.8	10	55	ug/L
Acrolein	107-02-8	2.1 U	2.1	10	52.5	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	**2.6**	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Chloroprene	126-99-8	0.19 U	0.19	1.0	20	ug/L
cis-1,2-Dichloroethene	156-59-2	**6.6**	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	5	ug/L
Ethyl Methacrylate	97-63-2	0.17 U	0.17	2.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Isobutyl alcohol	78-83-1	8.4 U	8.4	20	100	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.21 U	0.21	2.0	NE	ug/L
Methacrylonitrile	126-98-7	0.69 U	0.69	10	100	ug/L
Methyl Methacrylate	80-62-6	0.38 U	0.38	1.0	30	ug/L
Methylene chloride	75-09-2	**1.8** J	0.088	2.0	1	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	10	ug/L
o-Xylene	95-47-6	0.14 U	0.14	1.0	NE	ug/L
Propionitrile	107-12-0	1.6 U	1.6	10	150	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	1	ug/L
Toluene	108-88-3	**0.73** J	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**0.58** J	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	42	50.0	85 %	67-125
Dibromofluoromethane	1868-53-7	36	50.0	72 %	69-111
Toluene-d8	2037-26-5	44	50.0	87 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7 U	1.7	10	10	ug/L
1,3,5-Trinitrobenzene	99-35-4	1.4 U	1.4	10	10	ug/L
1,3-Dinitrobenzene	99-65-0	1.0 U	1.0	10	20	ug/L
1,4-Naphthoquinone	130-15-4	3.0 U	3.0	10	10	ug/L
1,4-Phenylenediamine	106-50-3	4.0 U	4.0	10	10	ug/L
1-Naphthylamine	134-32-7	2.5 U	2.5	10	10	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	1.0 U	1.0	10	10	ug/L
2,4,5-Trichlorophenol	95-95-4	1.1 U	1.1	10	10	ug/L
2,4,6-Trichlorophenol	88-06-2	1.4 U	1.4	10	10	ug/L
2,4-Dichlorophenol	120-83-2	1.6 U	1.6	10	10	ug/L
2,4-Dimethylphenol	105-67-9	3.0 U	3.0	10	10	ug/L
2,4-Dinitrophenol	51-28-5	1.7 U	1.7	10	50	ug/L
2,4-Dinitrotoluene	121-14-2	1.2 U	1.2	10	10	ug/L
2,6-Dichlorophenol	87-65-0	1.7 U	1.7	10	10	ug/L
2,6-Dinitrotoluene	606-20-2	1.0 U	1.0	10	10	ug/L
2-Acetylaminofluorene	53-96-3	1.3 U	1.3	10	20	ug/L
2-Chloronaphthalene	91-58-7	1.6 U	1.6	10	10	ug/L
2-Chlorophenol	95-57-8	2.0 U	2.0	10	10	ug/L
2-Methyl-4,6-dinitrophenol	534-52-1	1.4 U	1.4	10	50	ug/L
2-Methylnaphthalene	91-57-6	2.0 U	2.0	10	10	ug/L
2-Methylphenol	95-48-7	2.0 U	2.0	10	10	ug/L
2-Naphthylamine	91-59-8	4.0 U	4.0	10	10	ug/L
2-Nitroaniline	88-74-4	1.2 U	1.2	10	50	ug/L
2-Nitrophenol	88-75-5	1.8 U	1.8	10	10	ug/L
3 & 4-Methylphenol		1.9 U	1.9	20	10	ug/L
3,3'-Dichlorobenzidine	91-94-1	1.8 U	1.8	10	20	ug/L
3,3'-Dimethylbenzidine	119-93-7	3.0 U	3.0	10	10	ug/L
3-Methylcholanthrene	56-49-5	1.3 U	1.3	10	10	ug/L
3-Nitroaniline	99-09-2	1.6 U	1.6	10	50	ug/L
4-Aminobiphenyl	92-67-1	3.1 U	3.1	10	15	ug/L
4-Bromophenyl-phenylether	101-55-3	1.2 U	1.2	10	10	ug/L
4-Chloro-3-methylphenol	59-50-7	1.4 U	1.4	10	20	ug/L
4-Chloroaniline	106-47-8	1.6 U	1.6	10	20	ug/L
4-Chlorophenyl-phenylether	7005-72-3	1.2 U	1.2	10	10	ug/L
4-Nitroaniline	100-01-6	1.4 U	1.4	10	20	ug/L
4-Nitrophenol	100-02-7	1.2 U	1.2	10	50	ug/L
5-Nitro-o-toluidine	99-55-8	0.60 U	0.60	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
7,12-Dimethylbenz(a)anthracene	57-97-6	1.1 U	1.1	10	10	ug/L
Acenaphthene	83-32-9	1.4 U	1.4	10	10	ug/L
Acenaphthylene	208-96-8	1.4 U	1.4	10	10	ug/L
Acetophenone	98-86-2	2.0 U	2.0	10	10	ug/L
Anthracene	120-12-7	0.90 U	0.90	10	10	ug/L
Benzo(a)anthracene	56-55-3	1.0 U	1.0	10	10	ug/L
Benzo(a)pyrene	50-32-8	1.1 U	1.1	10	10	ug/L
Benzo(b)fluoranthene	205-99-2	0.70 U	0.70	10	10	ug/L
Benzo(g,h,i)perylene	191-24-2	1.2 U	1.2	10	10	ug/L
Benzo(k)fluoranthene	207-08-9	1.4 U	1.4	10	10	ug/L
Benzyl alcohol	100-51-6	1.0 U	1.0	10	20	ug/L
Bis(2-chloroethoxy)methane	111-91-1	2.0 U	2.0	10	10	ug/L
Bis(2-chloroethyl)ether	111-44-4	2.1 U	2.1	10	10	ug/L
Bis(2-chloroisopropyl)ether	108-60-1	2.2 U	2.2	10	10	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	1.9 U	1.9	10	15	ug/L
Butylbenzylphthalate	85-68-7	1.4 U	1.4	10	10	ug/L
Chlorobenzilate	510-15-6	1.1 U	1.1	10	10	ug/L
Chrysene	218-01-9	1.0 U	1.0	10	10	ug/L
Diallate	2303-16-4	1.3 U	1.3	10	10	ug/L
Dibenzo(a,h)anthracene	53-70-3	1.0 U	1.0	10	10	ug/L
Dibenzofuran	132-64-9	1.3 U	1.3	10	10	ug/L
Diethylphthalate	84-66-2	1.3 U	1.3	10	10	ug/L
Dimethoate	60-51-5	1.0 U	1.0	10	20	ug/L
Dimethylphthalate	131-11-3	1.1 U	1.1	10	10	ug/L
Di-n-butylphthalate	84-74-2	1.0 U	1.0	10	10	ug/L
Di-n-octylphthalate	117-84-0	2.0 U	2.0	10	10	ug/L
Disulfoton	298-04-4	1.0 U	1.0	10	10	ug/L
Ethyl methanesulfonate	62-50-0	1.1 U	1.1	10	20	ug/L
Famphur	52-85-7	1.8 U	1.8	10	20	ug/L
Fluoranthene	206-44-0	1.1 U	1.1	10	10	ug/L
Fluorene	86-73-7	1.1 U	1.1	10	10	ug/L
Hexachlorobenzene	118-74-1	1.1 U	1.1	10	10	ug/L
Hexachlorobutadiene	87-68-3	2.0 U	2.0	10	10	ug/L
Hexachlorocyclopentadiene	77-47-4	2.0 U	2.0	10	10	ug/L
Hexachloroethane	67-72-1	2.4 U	2.4	10	10	ug/L
Hexachloropropene	1888-71-7	1.1 U	1.1	10	10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	1.2 U	1.2	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Isodrin	465-73-6	1.0 U	1.0	10	20	ug/L
Isophorone	78-59-1	1.8 U	1.8	10	10	ug/L
Isosafrole	120-58-1	1.3 U	1.3	10	10	ug/L
Kepone	143-50-0	1.5 U	1.5	20	20	ug/L
Methapyrilene	91-80-5	3.8 U	3.8	10	100	ug/L
Methyl Methanesulfonate	66-27-3	2.0 U	2.0	10	10	ug/L
Methyl parathion	298-00-0	1.2 U	1.2	10	10	ug/L
Nitrobenzene	98-95-3	1.9 U	1.9	10	10	ug/L
N-Nitrosodiethylamine	55-18-5	1.9 U	1.9	10	20	ug/L
N-Nitrosodimethylamine	62-75-9	1.9 U	1.9	10	10	ug/L
N-Nitrosodi-n-butylamine	924-16-3	1.0 U	1.0	10	10	ug/L
N-Nitroso-di-n-propylamine	621-64-7	2.1 U	2.1	10	10	ug/L
N-Nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	1.1 U	1.1	10	10	ug/L
N-Nitrosomethylethylamine	10595-95-6	1.9 U	1.9	10	10	ug/L
N-Nitrosopiperidine	100-75-4	1.5 U	1.5	10	20	ug/L
N-Nitrosopyrrolidine	930-55-2	1.9 U	1.9	10	10	ug/L
O,O,O-Triethyl phosphorothioate	126-68-1	2.0 U	2.0	10	10	ug/L
o-Toluidine	95-53-4	1.5 U	1.5	10	10	ug/L
Parathion	56-38-2	1.2 U	1.2	10	10	ug/L
p-Dimethylaminoazobenzene	60-11-7	1.2 U	1.2	10	10	ug/L
Pentachlorobenzene	608-93-5	1.2 U	1.2	10	10	ug/L
Pentachloronitrobenzene	82-68-8	1.1 U	1.1	10	20	ug/L
Phenacetin	62-44-2	1.0 U	1.0	10	20	ug/L
Phenanthrene	85-01-8	0.90 U	0.90	10	10	ug/L
Phenol	108-95-2	1.5 U	1.5	10	10	ug/L
Phorate	298-02-2	4.1 U	4.1	10	10	ug/L
Pronamide	23950-58-5	1.0 U	1.0	10	10	ug/L
Pyrene	129-00-0	1.3 U	1.3	10	10	ug/L
Safrole	94-59-7	1.9 U	1.9	10	10	ug/L
Thionazin	297-97-2	1.2 U	1.2	10	20	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,6-Tribromophenol	118-79-6	110	100	106 %	55-159
2-Fluorobiphenyl	321-60-8	37	50.0	74 %	44-131
2-Fluorophenol	367-12-4	53	100	53 %	30-114
Nitrobenzene-d5	NA	33	50.0	66 %	39-131
Phenol-d5	NA	39	100	39 %	12-122
Terphenyl-d14	NA	54	50.0	108 %	47-160

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8081A	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Organochlorine Pesticides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
4,4'-DDD	72-54-8	0.0050 U	0.0050	0.050	0.1	ug/L
4,4'-DDE	72-55-9	0.0060 U	0.0060	0.050	0.1	ug/L
4,4'-DDT	50-29-3	0.0050 U	0.0050	0.050	0.1	ug/L
Aldrin	309-00-2	0.0030 U	0.0030	0.050	0.05	ug/L
alpha-BHC	319-84-6	0.0010 U	0.0010	0.050	0.05	ug/L
beta-BHC	319-85-7	0.0030 U	0.0030	0.050	0.05	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
delta-BHC	319-86-8	0.0020 U	0.0020	0.050	0.05	ug/L
Dieldrin	60-57-1	0.0060 U	0.0060	0.050	0.075	ug/L
Endosulfan I	959-98-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan II	33213-65-9	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan sulfate	1031-07-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin	72-20-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin aldehyde	7421-93-4	0.0040 U	0.0040	0.050	0.1	ug/L
gamma-BHC	58-89-9	0.0020 U	0.0020	0.050	0.05	ug/L
Heptachlor	76-44-8	0.0030 U	0.0030	0.050	0.05	ug/L
Heptachlor epoxide	1024-57-3	0.0040 U	0.0040	0.050	0.075	ug/L
Methoxychlor	72-43-5	0.0060 U	0.0060	0.050	1	ug/L
Toxaphene	8001-35-2	0.67 U	0.67	1.0	1.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.80	1.00	80 %	27-125
DBC	NA	0.90	1.00	90 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8082	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Polychlorinated Biphenyls by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
PCB-1016/1242	12674-11-2/53469-21-	0.34 U	0.34	1.0		ug/L
PCB-1221	11104-28-2	0.70 U	0.70	1.0	NE	ug/L
PCB-1232	11141-16-5	0.80 U	0.80	1.0	NE	ug/L
PCB-1248	12672-29-6	0.70 U	0.70	1.0	NE	ug/L
PCB-1254	11097-69-1	0.50 U	0.50	1.0	NE	ug/L
PCB-1260	11096-82-5	0.21 U	0.21	1.0	NE	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.80	1.00	80 %	27-125
DBC	NA	0.90	1.00	90 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 15
Lab #: C707153-03

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12031
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**14.6** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	**0.15** J	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G03008
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12031
Tin	7440-31-5	3.6 U	1	3.6	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
		Matrix:	Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Cyanide (total)	57-12-5	0.010 U	1	0.010	0.040	10	mg/L	EPA 335.2	NO PREP	7G11009
Sulfide	18496-25-8	0.50 U	1	0.50	1.0	1	mg/L	EPA 376.1	NO PREP	7G10003

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 15	Project:	Alexander Co. Closed C&D
Lab #:	C707153-03	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/08/07 By: RB/	Unit:	ug/L
Anal. Method:	EPA 8151A	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G03016		

Chlorinated Herbicides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
2,4,5-T	93-76-5	0.11 U	0.11	0.30	2	ug/L
2,4,5-TP (Silvex)	93-72-1	0.11 U	0.11	0.30	2	ug/L
2,4-D	94-75-7	0.12 U	0.12	0.30	2	ug/L
Dinoseb	88-85-7	0.23 U	0.23	0.30	1	ug/L
Pentachlorophenol	87-86-5	0.13 U	0.13	0.30	25.05	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4-DCAA	94-75-7	2.1	2.00	106 %	77-191

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**3.0** J	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	10	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	5	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**0.32** J	0.15	1.0	1	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	15	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
3-Chloropropene	107-05-1	0.20 U	0.20	1.0	10	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	**3.5** J	0.90	5.0	100	ug/L
Acetonitrile	75-05-8	1.8 U	1.8	10	55	ug/L
Acrolein	107-02-8	2.1 U	2.1	10	52.5	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	**1.4**	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Chloroprene	126-99-8	0.19 U	0.19	1.0	20	ug/L
cis-1,2-Dichloroethene	156-59-2	**2.4** J	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	5	ug/L
Ethyl Methacrylate	97-63-2	0.17 U	0.17	2.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Isobutyl alcohol	78-83-1	8.4 U	8.4	20	100	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.21 U	0.21	2.0	NE	ug/L
Methacrylonitrile	126-98-7	0.69 U	0.69	10	100	ug/L
Methyl Methacrylate	80-62-6	0.38 U	0.38	1.0	30	ug/L
Methylene chloride	75-09-2	**1.2** J	0.088	2.0	1	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	10	ug/L
o-Xylene	95-47-6	0.14 U	0.14	1.0	NE	ug/L
Propionitrile	107-12-0	1.6 U	1.6	10	150	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L
Tetrachloroethene	127-18-4	**0.47** J	0.25	1.0	1	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**0.72** J	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	42	50.0	84 %	67-125
Dibromofluoromethane	1868-53-7	36	50.0	72 %	69-111
Toluene-d8	2037-26-5	45	50.0	90 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7 U	1.7	10	10	ug/L
1,3,5-Trinitrobenzene	99-35-4	1.4 U	1.4	10	10	ug/L
1,3-Dinitrobenzene	99-65-0	1.0 U	1.0	10	20	ug/L
1,4-Naphthoquinone	130-15-4	3.0 U	3.0	10	10	ug/L
1,4-Phenylenediamine	106-50-3	4.0 U	4.0	10	10	ug/L
1-Naphthylamine	134-32-7	2.5 U	2.5	10	10	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	1.0 U	1.0	10	10	ug/L
2,4,5-Trichlorophenol	95-95-4	1.1 U	1.1	10	10	ug/L
2,4,6-Trichlorophenol	88-06-2	1.4 U	1.4	10	10	ug/L
2,4-Dichlorophenol	120-83-2	1.6 U	1.6	10	10	ug/L
2,4-Dimethylphenol	105-67-9	3.0 U	3.0	10	10	ug/L
2,4-Dinitrophenol	51-28-5	1.7 U	1.7	10	50	ug/L
2,4-Dinitrotoluene	121-14-2	1.2 U	1.2	10	10	ug/L
2,6-Dichlorophenol	87-65-0	1.7 U	1.7	10	10	ug/L
2,6-Dinitrotoluene	606-20-2	1.0 U	1.0	10	10	ug/L
2-Acetylaminofluorene	53-96-3	1.3 U	1.3	10	20	ug/L
2-Chloronaphthalene	91-58-7	1.6 U	1.6	10	10	ug/L
2-Chlorophenol	95-57-8	2.0 U	2.0	10	10	ug/L
2-Methyl-4,6-dinitrophenol	534-52-1	1.4 U	1.4	10	50	ug/L
2-Methylnaphthalene	91-57-6	2.0 U	2.0	10	10	ug/L
2-Methylphenol	95-48-7	2.0 U	2.0	10	10	ug/L
2-Naphthylamine	91-59-8	4.0 U	4.0	10	10	ug/L
2-Nitroaniline	88-74-4	1.2 U	1.2	10	50	ug/L
2-Nitrophenol	88-75-5	1.8 U	1.8	10	10	ug/L
3 & 4-Methylphenol		1.9 U	1.9	20	10	ug/L
3,3'-Dichlorobenzidine	91-94-1	1.8 U	1.8	10	20	ug/L
3,3'-Dimethylbenzidine	119-93-7	3.0 U	3.0	10	10	ug/L
3-Methylcholanthrene	56-49-5	1.3 U	1.3	10	10	ug/L
3-Nitroaniline	99-09-2	1.6 U	1.6	10	50	ug/L
4-Aminobiphenyl	92-67-1	3.1 U	3.1	10	15	ug/L
4-Bromophenyl-phenylether	101-55-3	1.2 U	1.2	10	10	ug/L
4-Chloro-3-methylphenol	59-50-7	1.4 U	1.4	10	20	ug/L
4-Chloroaniline	106-47-8	1.6 U	1.6	10	20	ug/L
4-Chlorophenyl-phenylether	7005-72-3	1.2 U	1.2	10	10	ug/L
4-Nitroaniline	100-01-6	1.4 U	1.4	10	20	ug/L
4-Nitrophenol	100-02-7	1.2 U	1.2	10	50	ug/L
5-Nitro-o-toluidine	99-55-8	0.60 U	0.60	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
7,12-Dimethylbenz(a)anthracene	57-97-6	1.1 U	1.1	10	10	ug/L
Acenaphthene	83-32-9	1.4 U	1.4	10	10	ug/L
Acenaphthylene	208-96-8	1.4 U	1.4	10	10	ug/L
Acetophenone	98-86-2	2.0 U	2.0	10	10	ug/L
Anthracene	120-12-7	0.90 U	0.90	10	10	ug/L
Benzo(a)anthracene	56-55-3	1.0 U	1.0	10	10	ug/L
Benzo(a)pyrene	50-32-8	1.1 U	1.1	10	10	ug/L
Benzo(b)fluoranthene	205-99-2	0.70 U	0.70	10	10	ug/L
Benzo(g,h,i)perylene	191-24-2	1.2 U	1.2	10	10	ug/L
Benzo(k)fluoranthene	207-08-9	1.4 U	1.4	10	10	ug/L
Benzyl alcohol	100-51-6	1.0 U	1.0	10	20	ug/L
Bis(2-chloroethoxy)methane	111-91-1	2.0 U	2.0	10	10	ug/L
Bis(2-chloroethyl)ether	111-44-4	2.1 U	2.1	10	10	ug/L
Bis(2-chloroisopropyl)ether	108-60-1	2.2 U	2.2	10	10	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	1.9 U	1.9	10	15	ug/L
Butylbenzylphthalate	85-68-7	1.4 U	1.4	10	10	ug/L
Chlorobenzilate	510-15-6	1.1 U	1.1	10	10	ug/L
Chrysene	218-01-9	1.0 U	1.0	10	10	ug/L
Diallate	2303-16-4	1.3 U	1.3	10	10	ug/L
Dibenzo(a,h)anthracene	53-70-3	1.0 U	1.0	10	10	ug/L
Dibenzofuran	132-64-9	1.3 U	1.3	10	10	ug/L
Diethylphthalate	84-66-2	1.3 U	1.3	10	10	ug/L
Dimethoate	60-51-5	1.0 U	1.0	10	20	ug/L
Dimethylphthalate	131-11-3	1.1 U	1.1	10	10	ug/L
Di-n-butylphthalate	84-74-2	1.0 U	1.0	10	10	ug/L
Di-n-octylphthalate	117-84-0	2.0 U	2.0	10	10	ug/L
Disulfoton	298-04-4	1.0 U	1.0	10	10	ug/L
Ethyl methanesulfonate	62-50-0	1.1 U	1.1	10	20	ug/L
Famphur	52-85-7	1.8 U	1.8	10	20	ug/L
Fluoranthene	206-44-0	1.1 U	1.1	10	10	ug/L
Fluorene	86-73-7	1.1 U	1.1	10	10	ug/L
Hexachlorobenzene	118-74-1	1.1 U	1.1	10	10	ug/L
Hexachlorobutadiene	87-68-3	2.0 U	2.0	10	10	ug/L
Hexachlorocyclopentadiene	77-47-4	2.0 U	2.0	10	10	ug/L
Hexachloroethane	67-72-1	2.4 U	2.4	10	10	ug/L
Hexachloropropene	1888-71-7	1.1 U	1.1	10	10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	1.2 U	1.2	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Isodrin	465-73-6	1.0 U	1.0	10	20	ug/L
Isophorone	78-59-1	1.8 U	1.8	10	10	ug/L
Isosafrole	120-58-1	1.3 U	1.3	10	10	ug/L
Kepone	143-50-0	1.5 U	1.5	20	20	ug/L
Methapyrilene	91-80-5	3.8 U	3.8	10	100	ug/L
Methyl Methanesulfonate	66-27-3	2.0 U	2.0	10	10	ug/L
Methyl parathion	298-00-0	1.2 U	1.2	10	10	ug/L
Nitrobenzene	98-95-3	1.9 U	1.9	10	10	ug/L
N-Nitrosodiethylamine	55-18-5	1.9 U	1.9	10	20	ug/L
N-Nitrosodimethylamine	62-75-9	1.9 U	1.9	10	10	ug/L
N-Nitrosodi-n-butylamine	924-16-3	1.0 U	1.0	10	10	ug/L
N-Nitroso-di-n-propylamine	621-64-7	2.1 U	2.1	10	10	ug/L
N-Nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	1.1 U	1.1	10	10	ug/L
N-Nitrosomethylethylamine	10595-95-6	1.9 U	1.9	10	10	ug/L
N-Nitrosopiperidine	100-75-4	1.5 U	1.5	10	20	ug/L
N-Nitrosopyrrolidine	930-55-2	1.9 U	1.9	10	10	ug/L
O,O,O-Triethyl phosphorothioate	126-68-1	2.0 U	2.0	10	10	ug/L
o-Toluidine	95-53-4	1.5 U	1.5	10	10	ug/L
Parathion	56-38-2	1.2 U	1.2	10	10	ug/L
p-Dimethylaminoazobenzene	60-11-7	1.2 U	1.2	10	10	ug/L
Pentachlorobenzene	608-93-5	1.2 U	1.2	10	10	ug/L
Pentachloronitrobenzene	82-68-8	1.1 U	1.1	10	20	ug/L
Phenacetin	62-44-2	1.0 U	1.0	10	20	ug/L
Phenanthrene	85-01-8	0.90 U	0.90	10	10	ug/L
Phenol	108-95-2	1.5 U	1.5	10	10	ug/L
Phorate	298-02-2	4.1 U	4.1	10	10	ug/L
Pronamide	23950-58-5	1.0 U	1.0	10	10	ug/L
Pyrene	129-00-0	1.3 U	1.3	10	10	ug/L
Safrole	94-59-7	1.9 U	1.9	10	10	ug/L
Thionazin	297-97-2	1.2 U	1.2	10	20	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,6-Tribromophenol	118-79-6	96	100	96 %	55-159
2-Fluorobiphenyl	321-60-8	30	50.0	60 %	44-131
2-Fluorophenol	367-12-4	44	100	44 %	30-114
Nitrobenzene-d5	NA	27	50.0	53 %	39-131
Phenol-d5	NA	34	100	34 %	12-122
Terphenyl-d14	NA	47	50.0	95 %	47-160

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8081A	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Organochlorine Pesticides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
4,4'-DDD	72-54-8	0.0050 U	0.0050	0.050	0.1	ug/L
4,4'-DDE	72-55-9	0.0060 U	0.0060	0.050	0.1	ug/L
4,4'-DDT	50-29-3	0.0050 U	0.0050	0.050	0.1	ug/L
Aldrin	309-00-2	0.0030 U	0.0030	0.050	0.05	ug/L
alpha-BHC	319-84-6	0.0010 U	0.0010	0.050	0.05	ug/L
beta-BHC	319-85-7	0.0030 U	0.0030	0.050	0.05	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
delta-BHC	319-86-8	0.0020 U	0.0020	0.050	0.05	ug/L
Dieldrin	60-57-1	0.0060 U	0.0060	0.050	0.075	ug/L
Endosulfan I	959-98-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan II	33213-65-9	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan sulfate	1031-07-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin	72-20-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin aldehyde	7421-93-4	0.0040 U	0.0040	0.050	0.1	ug/L
gamma-BHC	58-89-9	0.0020 U	0.0020	0.050	0.05	ug/L
Heptachlor	76-44-8	0.0030 U	0.0030	0.050	0.05	ug/L
Heptachlor epoxide	1024-57-3	0.0040 U	0.0040	0.050	0.075	ug/L
Methoxychlor	72-43-5	0.0060 U	0.0060	0.050	1	ug/L
Toxaphene	8001-35-2	0.67 U	0.67	1.0	1.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.63	1.00	63 %	27-125
DBC	NA	0.60	1.00	60 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8082	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Polychlorinated Biphenyls by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
PCB-1016/1242	12674-11-2/53469-21-	0.34 U	0.34	1.0		ug/L
PCB-1221	11104-28-2	0.70 U	0.70	1.0	NE	ug/L
PCB-1232	11141-16-5	0.80 U	0.80	1.0	NE	ug/L
PCB-1248	12672-29-6	0.70 U	0.70	1.0	NE	ug/L
PCB-1254	11097-69-1	0.50 U	0.50	1.0	NE	ug/L
PCB-1260	11096-82-5	0.21 U	0.21	1.0	NE	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.63	1.00	63 %	27-125
DBC	NA	0.60	1.00	60 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 17
Lab #: C707153-04

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**61.5** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	**1.70**	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**23.7**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	**1.49**	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G03008
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.085** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Tin	7440-31-5	3.6 U	1	3.6	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**10.8**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 17
Lab #: C707153-04

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Cyanide (total)	57-12-5	0.010 U	1	0.010	0.040	10	mg/L	EPA 335.2	NO PREP	7G11009
Sulfide	18496-25-8	0.50 U	1	0.50	1.0	1	mg/L	EPA 376.1	NO PREP	7G10003

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 17	Project:	Alexander Co. Closed C&D
Lab #:	C707153-04	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/08/07 By: RB/	Unit:	ug/L
Anal. Method:	EPA 8151A	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G03016		

Chlorinated Herbicides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
2,4,5-T	93-76-5	0.11 U	0.11	0.30	2	ug/L
2,4,5-TP (Silvex)	93-72-1	0.11 U	0.11	0.30	2	ug/L
2,4-D	94-75-7	0.12 U	0.12	0.30	2	ug/L
Dinoseb	88-85-7	0.23 U	0.23	0.30	1	ug/L
Pentachlorophenol	87-86-5	0.13 U	0.13	0.30	25.05	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4-DCAA	94-75-7	1.9	2.00	96 %	77-191

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**2.9** J	0.090	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	5	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	1	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	10	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	1	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	5	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**7.5**	0.15	1.0	1	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	15	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	100	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	50	ug/L
3-Chloropropene	107-05-1	0.20 U	0.20	1.0	10	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	100	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	100	ug/L
Acetonitrile	75-05-8	1.8 U	1.8	10	55	ug/L
Acrolein	107-02-8	2.1 U	2.1	10	52.5	ug/L
Acrylonitrile	107-13-1	2.0 U	2.0	5.0	200	ug/L
Benzene	71-43-2	**7.2**	0.12	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	1	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	3	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	3	ug/L
Chloroethane	75-00-3	**2.8** J	0.40	1.0	10	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	5	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Chloroprene	126-99-8	0.19 U	0.19	1.0	20	ug/L
cis-1,2-Dichloroethene	156-59-2	**11**	0.14	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	1	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	10	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	5	ug/L
Ethyl Methacrylate	97-63-2	0.17 U	0.17	2.0	10	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	1	ug/L
Iodomethane	74-88-4	0.23 U	0.23	2.0	10	ug/L
Isobutyl alcohol	78-83-1	8.4 U	8.4	20	100	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.21 U	0.21	2.0	NE	ug/L
Methacrylonitrile	126-98-7	0.69 U	0.69	10	100	ug/L
Methyl Methacrylate	80-62-6	0.38 U	0.38	1.0	30	ug/L
Methylene chloride	75-09-2	**1.8** J	0.088	2.0	1	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	10	ug/L
o-Xylene	95-47-6	0.14 U	0.14	1.0	NE	ug/L
Propionitrile	107-12-0	1.6 U	1.6	10	150	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	1	ug/L
Tetrachloroethene	127-18-4	**1.3**	0.25	1.0	1	ug/L
Toluene	108-88-3	**0.33** J	0.15	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	0.60	1.0	100	ug/L
Trichloroethene	79-01-6	**2.4**	0.23	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	0.19	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	1	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	44	50.0	87 %	67-125
Dibromofluoromethane	1868-53-7	38	50.0	76 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7 U	1.7	10	10	ug/L
1,3,5-Trinitrobenzene	99-35-4	1.4 U	1.4	10	10	ug/L
1,3-Dinitrobenzene	99-65-0	1.0 U	1.0	10	20	ug/L
1,4-Naphthoquinone	130-15-4	3.0 U	3.0	10	10	ug/L
1,4-Phenylenediamine	106-50-3	4.0 U	4.0	10	10	ug/L
1-Naphthylamine	134-32-7	2.5 U	2.5	10	10	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	1.0 U	1.0	10	10	ug/L
2,4,5-Trichlorophenol	95-95-4	1.1 U	1.1	10	10	ug/L
2,4,6-Trichlorophenol	88-06-2	1.4 U	1.4	10	10	ug/L
2,4-Dichlorophenol	120-83-2	1.6 U	1.6	10	10	ug/L
2,4-Dimethylphenol	105-67-9	3.0 U	3.0	10	10	ug/L
2,4-Dinitrophenol	51-28-5	1.7 U	1.7	10	50	ug/L
2,4-Dinitrotoluene	121-14-2	1.2 U	1.2	10	10	ug/L
2,6-Dichlorophenol	87-65-0	1.7 U	1.7	10	10	ug/L
2,6-Dinitrotoluene	606-20-2	1.0 U	1.0	10	10	ug/L
2-Acetylaminofluorene	53-96-3	1.3 U	1.3	10	20	ug/L
2-Chloronaphthalene	91-58-7	1.6 U	1.6	10	10	ug/L
2-Chlorophenol	95-57-8	2.0 U	2.0	10	10	ug/L
2-Methyl-4,6-dinitrophenol	534-52-1	1.4 U	1.4	10	50	ug/L
2-Methylnaphthalene	91-57-6	2.0 U	2.0	10	10	ug/L
2-Methylphenol	95-48-7	2.0 U	2.0	10	10	ug/L
2-Naphthylamine	91-59-8	4.0 U	4.0	10	10	ug/L
2-Nitroaniline	88-74-4	1.2 U	1.2	10	50	ug/L
2-Nitrophenol	88-75-5	1.8 U	1.8	10	10	ug/L
3 & 4-Methylphenol		1.9 U	1.9	20	10	ug/L
3,3'-Dichlorobenzidine	91-94-1	1.8 U	1.8	10	20	ug/L
3,3'-Dimethylbenzidine	119-93-7	3.0 U	3.0	10	10	ug/L
3-Methylcholanthrene	56-49-5	1.3 U	1.3	10	10	ug/L
3-Nitroaniline	99-09-2	1.6 U	1.6	10	50	ug/L
4-Aminobiphenyl	92-67-1	3.1 U	3.1	10	15	ug/L
4-Bromophenyl-phenylether	101-55-3	1.2 U	1.2	10	10	ug/L
4-Chloro-3-methylphenol	59-50-7	1.4 U	1.4	10	20	ug/L
4-Chloroaniline	106-47-8	1.6 U	1.6	10	20	ug/L
4-Chlorophenyl-phenylether	7005-72-3	1.2 U	1.2	10	10	ug/L
4-Nitroaniline	100-01-6	1.4 U	1.4	10	20	ug/L
4-Nitrophenol	100-02-7	1.2 U	1.2	10	50	ug/L
5-Nitro-o-toluidine	99-55-8	0.60 U	0.60	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
7,12-Dimethylbenz(a)anthracene	57-97-6	1.1 U	1.1	10	10	ug/L
Acenaphthene	83-32-9	1.4 U	1.4	10	10	ug/L
Acenaphthylene	208-96-8	1.4 U	1.4	10	10	ug/L
Acetophenone	98-86-2	2.0 U	2.0	10	10	ug/L
Anthracene	120-12-7	0.90 U	0.90	10	10	ug/L
Benzo(a)anthracene	56-55-3	1.0 U	1.0	10	10	ug/L
Benzo(a)pyrene	50-32-8	1.1 U	1.1	10	10	ug/L
Benzo(b)fluoranthene	205-99-2	0.70 U	0.70	10	10	ug/L
Benzo(g,h,i)perylene	191-24-2	1.2 U	1.2	10	10	ug/L
Benzo(k)fluoranthene	207-08-9	1.4 U	1.4	10	10	ug/L
Benzyl alcohol	100-51-6	1.0 U	1.0	10	20	ug/L
Bis(2-chloroethoxy)methane	111-91-1	2.0 U	2.0	10	10	ug/L
Bis(2-chloroethyl)ether	111-44-4	2.1 U	2.1	10	10	ug/L
Bis(2-chloroisopropyl)ether	108-60-1	2.2 U	2.2	10	10	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	1.9 U	1.9	10	15	ug/L
Butylbenzylphthalate	85-68-7	1.4 U	1.4	10	10	ug/L
Chlorobenzilate	510-15-6	1.1 U	1.1	10	10	ug/L
Chrysene	218-01-9	1.0 U	1.0	10	10	ug/L
Diallate	2303-16-4	1.3 U	1.3	10	10	ug/L
Dibenzo(a,h)anthracene	53-70-3	1.0 U	1.0	10	10	ug/L
Dibenzofuran	132-64-9	1.3 U	1.3	10	10	ug/L
Diethylphthalate	84-66-2	1.3 U	1.3	10	10	ug/L
Dimethoate	60-51-5	1.0 U	1.0	10	20	ug/L
Dimethylphthalate	131-11-3	1.1 U	1.1	10	10	ug/L
Di-n-butylphthalate	84-74-2	1.0 U	1.0	10	10	ug/L
Di-n-octylphthalate	117-84-0	2.0 U	2.0	10	10	ug/L
Disulfoton	298-04-4	1.0 U	1.0	10	10	ug/L
Ethyl methanesulfonate	62-50-0	1.1 U	1.1	10	20	ug/L
Famphur	52-85-7	1.8 U	1.8	10	20	ug/L
Fluoranthene	206-44-0	1.1 U	1.1	10	10	ug/L
Fluorene	86-73-7	1.1 U	1.1	10	10	ug/L
Hexachlorobenzene	118-74-1	1.1 U	1.1	10	10	ug/L
Hexachlorobutadiene	87-68-3	2.0 U	2.0	10	10	ug/L
Hexachlorocyclopentadiene	77-47-4	2.0 U	2.0	10	10	ug/L
Hexachloroethane	67-72-1	2.4 U	2.4	10	10	ug/L
Hexachloropropene	1888-71-7	1.1 U	1.1	10	10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	1.2 U	1.2	10	10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	07/06/07 By: DFM	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:	CA00903		
QC Batch:	7G03019		

Semivolatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
Isodrin	465-73-6	1.0 U	1.0	10	20	ug/L
Isophorone	78-59-1	1.8 U	1.8	10	10	ug/L
Isosafrole	120-58-1	1.3 U	1.3	10	10	ug/L
Kepone	143-50-0	1.5 U	1.5	20	20	ug/L
Methapyrilene	91-80-5	3.8 U	3.8	10	100	ug/L
Methyl Methanesulfonate	66-27-3	2.0 U	2.0	10	10	ug/L
Methyl parathion	298-00-0	1.2 U	1.2	10	10	ug/L
Nitrobenzene	98-95-3	1.9 U	1.9	10	10	ug/L
N-Nitrosodiethylamine	55-18-5	1.9 U	1.9	10	20	ug/L
N-Nitrosodimethylamine	62-75-9	1.9 U	1.9	10	10	ug/L
N-Nitrosodi-n-butylamine	924-16-3	1.0 U	1.0	10	10	ug/L
N-Nitroso-di-n-propylamine	621-64-7	2.1 U	2.1	10	10	ug/L
N-Nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	1.1 U	1.1	10	10	ug/L
N-Nitrosomethylethylamine	10595-95-6	1.9 U	1.9	10	10	ug/L
N-Nitrosopiperidine	100-75-4	1.5 U	1.5	10	20	ug/L
N-Nitrosopyrrolidine	930-55-2	1.9 U	1.9	10	10	ug/L
O,O,O-Triethyl phosphorothioate	126-68-1	2.0 U	2.0	10	10	ug/L
o-Toluidine	95-53-4	1.5 U	1.5	10	10	ug/L
Parathion	56-38-2	1.2 U	1.2	10	10	ug/L
p-Dimethylaminoazobenzene	60-11-7	1.2 U	1.2	10	10	ug/L
Pentachlorobenzene	608-93-5	1.2 U	1.2	10	10	ug/L
Pentachloronitrobenzene	82-68-8	1.1 U	1.1	10	20	ug/L
Phenacetin	62-44-2	1.0 U	1.0	10	20	ug/L
Phenanthrene	85-01-8	0.90 U	0.90	10	10	ug/L
Phenol	108-95-2	1.5 U	1.5	10	10	ug/L
Phorate	298-02-2	4.1 U	4.1	10	10	ug/L
Pronamide	23950-58-5	1.0 U	1.0	10	10	ug/L
Pyrene	129-00-0	1.3 U	1.3	10	10	ug/L
Safrole	94-59-7	1.9 U	1.9	10	10	ug/L
Thionazin	297-97-2	1.2 U	1.2	10	20	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,6-Tribromophenol	118-79-6	100	100	103 %	55-159
2-Fluorobiphenyl	321-60-8	35	50.0	70 %	44-131
2-Fluorophenol	367-12-4	48	100	48 %	30-114
Nitrobenzene-d5	NA	30	50.0	60 %	39-131
Phenol-d5	NA	36	100	36 %	12-122
Terphenyl-d14	NA	53	50.0	106 %	47-160

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8081A	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Organochlorine Pesticides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
4,4'-DDD	72-54-8	0.0050 U	0.0050	0.050	0.1	ug/L
4,4'-DDE	72-55-9	0.0060 U	0.0060	0.050	0.1	ug/L
4,4'-DDT	50-29-3	0.0050 U	0.0050	0.050	0.1	ug/L
Aldrin	309-00-2	0.0030 U	0.0030	0.050	0.05	ug/L
alpha-BHC	319-84-6	0.0010 U	0.0010	0.050	0.05	ug/L
beta-BHC	319-85-7	0.0030 U	0.0030	0.050	0.05	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
Chlordane-gamma	NA	0.0050 U	0.0050	0.050	NE	ug/L
delta-BHC	319-86-8	0.0020 U	0.0020	0.050	0.05	ug/L
Dieldrin	60-57-1	0.0060 U	0.0060	0.050	0.075	ug/L
Endosulfan I	959-98-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan II	33213-65-9	0.0040 U	0.0040	0.050	0.1	ug/L
Endosulfan sulfate	1031-07-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin	72-20-8	0.0040 U	0.0040	0.050	0.1	ug/L
Endrin aldehyde	7421-93-4	0.0040 U	0.0040	0.050	0.1	ug/L
gamma-BHC	58-89-9	0.0020 U	0.0020	0.050	0.05	ug/L
Heptachlor	76-44-8	0.0030 U	0.0030	0.050	0.05	ug/L
Heptachlor epoxide	1024-57-3	0.0040 U	0.0040	0.050	0.075	ug/L
Methoxychlor	72-43-5	0.0060 U	0.0060	0.050	1	ug/L
Toxaphene	8001-35-2	0.67 U	0.67	1.0	1.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.92	1.00	92 %	27-125
DBC	NA	0.95	1.00	95 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/04/07 By: JHH	Unit:	ug/L
Anal. Method:	EPA 8082	Dilution Factor:	1
Anal. Batch:	CA00900		
QC Batch:	7G03005		

Polychlorinated Biphenyls by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
PCB-1016/1242	12674-11-2/53469-21-	0.34 U	0.34	1.0		ug/L
PCB-1221	11104-28-2	0.70 U	0.70	1.0	NE	ug/L
PCB-1232	11141-16-5	0.80 U	0.80	1.0	NE	ug/L
PCB-1248	12672-29-6	0.70 U	0.70	1.0	NE	ug/L
PCB-1254	11097-69-1	0.50 U	0.50	1.0	NE	ug/L
PCB-1260	11096-82-5	0.21 U	0.21	1.0	NE	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.92	1.00	92 %	27-125
DBC	NA	0.95	1.00	95 %	46-130

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 12
Lab #: C707153-05

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**96.9** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**308**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**232**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G03008
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.071** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Tin	7440-31-5	3.6 U	1	3.6	10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 12
Lab #: C707153-05

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Cyanide (total)	57-12-5	0.010 U	1	0.010	0.040	10	mg/L	EPA 335.2	NO PREP	7G11009
Sulfide	18496-25-8	0.50 U	1	0.50	1.0	1	mg/L	EPA 376.1	NO PREP	7G10003
Total Alkalinity	NA	**61**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**110**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G03002

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12	Project:	Alexander Co. Closed C&D
Lab #:	C707153-05	Work Order #:	C707153
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	07/08/07 By: RB/	Unit:	ug/L
Anal. Method:	EPA 8151A	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G03016		

Chlorinated Herbicides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	NC SWSL	Units
2,4,5-T	93-76-5	0.11 U	0.11	0.30	2	ug/L
2,4,5-TP (Silvex)	93-72-1	0.11 U	0.11	0.30	2	ug/L
2,4-D	94-75-7	0.12 U	0.12	0.30	2	ug/L
Dinoseb	88-85-7	0.23 U	0.23	0.30	1	ug/L
Pentachlorophenol	87-86-5	0.13 U	0.13	0.30	25.05	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4-DCAA	94-75-7	2.4	2.00	121 %	77-191

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 12
Lab #: C707153-05

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**4.3**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**1.1** J	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 5	Project:	Alexander Co. Closed C&D
Lab #:	C707153-06	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**3.6**	J	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**3.2**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**8.2**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 5	Project:	Alexander Co. Closed C&D
Lab #:	C707153-06	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	88 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 5
Lab #: C707153-06

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**59.0** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.054** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 10	Project:	Alexander Co. Closed C&D
Lab #:	C707153-07	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**2.1**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.6**	J	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 10	Project:	Alexander Co. Closed C&D
Lab #:	C707153-07	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	46	50.0	91 %	67-125
Dibromofluoromethane	1868-53-7	47	50.0	93 %	69-111
Toluene-d8	2037-26-5	47	50.0	93 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 10
Lab #: C707153-07

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	**1.11** J	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**25.5** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	**47.2**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**43.0**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	SW - 5	Project:	Alexander Co. Closed C&D
Lab #:	C707153-08	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	SW - 5	Project:	Alexander Co. Closed C&D
Lab #:	C707153-08	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	91 %	67-125
Dibromofluoromethane	1868-53-7	45	50.0	91 %	69-111
Toluene-d8	2037-26-5	46	50.0	93 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: SW - 5
Lab #: C707153-08

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**25.8** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 4R	Project:	Alexander Co. Closed C&D
Lab #:	C707153-09	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**6.2**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**3.6**		1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**2.8**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	**3.0**	J	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**15**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 4R	Project:	Alexander Co. Closed C&D
Lab #:	C707153-09	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/10/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G09003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	67-125
Dibromofluoromethane	1868-53-7	45	50.0	90 %	69-111
Toluene-d8	2037-26-5	47	50.0	94 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 4R
Lab #: C707153-09

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**99.6** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**159**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.043** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 9	Project:	Alexander Co. Closed C&D
Lab #:	C707153-10	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.2**	J	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**10**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 9	Project:	Alexander Co. Closed C&D
Lab #:	C707153-10	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	44	50.0	88 %	67-125
Dibromofluoromethane	1868-53-7	38	50.0	76 %	69-111
Toluene-d8	2037-26-5	45	50.0	91 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 9
Lab #: C707153-10

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**94.1** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	**10.7** J	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	SUPPLY WELL	Project:	Alexander Co. Closed C&D
Lab #:	C707153-11	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	SUPPLY WELL	Project:	Alexander Co. Closed C&D
Lab #:	C707153-11	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	67-125
Dibromofluoromethane	1868-53-7	42	50.0	84 %	69-111
Toluene-d8	2037-26-5	45	50.0	90 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: SUPPLY WELL
Lab #: C707153-11

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	1.00 U	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**187**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	SW - 4R	Project:	Alexander Co. Closed C&D
Lab #:	C707153-12	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	SW - 4R	Project:	Alexander Co. Closed C&D
Lab #:	C707153-12	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	46	50.0	92 %	67-125
Dibromofluoromethane	1868-53-7	41	50.0	83 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: SW - 4R
Lab #: C707153-12

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**17.0** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 8	Project:	Alexander Co. Closed C&D
Lab #:	C707153-13	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**2.1**	J	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 8	Project:	Alexander Co. Closed C&D
Lab #:	C707153-13	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	47	50.0	95 %	67-125
Dibromofluoromethane	1868-53-7	45	50.0	89 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 8
Lab #: C707153-13

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**43.9** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	**0.22**	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G03008
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 7	Project:	Alexander Co. Closed C&D
Lab #:	C707153-14	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**2.7**	J	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**1.3**		1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	**8.3**	J	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**3.2**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**4.9**	J	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 7	Project:	Alexander Co. Closed C&D
Lab #:	C707153-14	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	89 %	67-125
Dibromofluoromethane	1868-53-7	40	50.0	79 %	69-111
Toluene-d8	2037-26-5	46	50.0	91 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 7
Lab #: C707153-14

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	1.00 U	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**10200**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**87.1**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 7
Lab #: C707153-14

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**210** E	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G10011
Total Dissolved Solids	NA	**320**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 7
Lab #: C707153-14RE1

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**7.7**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**1.7** J	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 3	Project:	Alexander Co. Closed C&D
Lab #:	C707153-15	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**5.8**		1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**8.0**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	**18**	J	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**8.3**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	**2.3**		1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 3	Project:	Alexander Co. Closed C&D
Lab #:	C707153-15	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	**3.2**	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	**1.1**	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	**12**	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	91 %	67-125
Dibromofluoromethane	1868-53-7	40	50.0	80 %	69-111
Toluene-d8	2037-26-5	45	50.0	90 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 3
Lab #: C707153-15

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**160**	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**17600**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	**40.4**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**1450**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	**162**	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**29.0**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 3
Lab #: C707153-15

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**200**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G10011
Total Dissolved Solids	NA	**310**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 3
Lab #: C707153-15

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**7.7**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**0.78** J	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 13	Project:	Alexander Co. Closed C&D
Lab #:	C707153-16	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 13	Project:	Alexander Co. Closed C&D
Lab #:	C707153-16	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	46	50.0	92 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	46	50.0	93 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 13
Lab #: C707153-16

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**27.3** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**21600**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**303**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.084** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**14.8**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 13
Lab #: C707153-16

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**56**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**170**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 13
Lab #: C707153-16

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**2.1**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**27**	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 6	Project:	Alexander Co. Closed C&D
Lab #:	C707153-17	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 6	Project:	Alexander Co. Closed C&D
Lab #:	C707153-17	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	44	50.0	88 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	47	50.0	94 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 6
Lab #: C707153-17

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**32.9** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**18.4**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**2220**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**1000**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	**10.7** J	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.065** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**18.3**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 6
Lab #: C707153-17

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**14** J	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**58**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 6
Lab #: C707153-17

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**4.0**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**2.5**	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 2	Project:	Alexander Co. Closed C&D
Lab #:	C707153-18	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.9**	J	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**5.2**		1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**2.8**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**17**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 2	Project:	Alexander Co. Closed C&D
Lab #:	C707153-18	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	**1.4**	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	87 %	69-111
Toluene-d8	2037-26-5	45	50.0	89 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 2
Lab #: C707153-18

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**152**	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**548**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**90700**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**15500**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	**0.30**	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**18.7**	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**674**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 2
Lab #: C707153-18

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**180**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**330**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 2
Lab #: C707153-18

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**45**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**4.8**	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12D	Project:	Alexander Co. Closed C&D
Lab #:	C707153-19	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 12D	Project:	Alexander Co. Closed C&D
Lab #:	C707153-19	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	46	50.0	92 %	67-125
Dibromofluoromethane	1868-53-7	44	50.0	88 %	69-111
Toluene-d8	2037-26-5	46	50.0	93 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 12D
Lab #: C707153-19

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	1.00 U	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	2.5 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**301**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**74.4**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 12D
Lab #: C707153-19

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**220** E	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G10011
Total Dissolved Solids	NA	**430**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 12D
Lab #: C707153-19

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**32**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**1.7** J	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 1B	Project:	Alexander Co. Closed C&D
Lab #:	C707153-20	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/12/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G11024		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.8**	J	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**1.7**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**4.1**	J	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 1B	Project:	Alexander Co. Closed C&D
Lab #:	C707153-20	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/12/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G11024		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
Tetrachloroethene	127-18-4	0.25	U	1.0	1	ug/L
Toluene	108-88-3	0.15	U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60	U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23	U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16	U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19	U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15	U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	**3.1**	J	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	45	50.0	90 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	87 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 1B
Lab #: C707153-20

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Barium	7440-39-3	**44.3** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G05017
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G05017
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Cobalt	7440-48-4	**42.6**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Copper	7440-50-8	**12.1**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Iron	7439-89-6	**6680**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G05017
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Manganese	7439-96-5	**960**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Mercury	7439-97-6	**1.21**	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G05017
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017
Thallium	7440-28-0	**0.161** J	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G05017
Zinc	7440-66-6	**28.9**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G05017

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 1B
Lab #: C707153-20

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**19**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**78**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 1B
Lab #: C707153-20

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**2.0**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**4.1**	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 1	Project:	Alexander Co. Closed C&D
Lab #:	C707153-21	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/12/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G11024		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**2.2**	J	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	**2.0**		1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	**5.0**		1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	**10**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MW- 1	Project:	Alexander Co. Closed C&D
Lab #:	C707153-21	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	07/12/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G11024		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWSL	Units
Tetrachloroethene	127-18-4	0.25	U	1.0	1	ug/L
Toluene	108-88-3	0.15	U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60	U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23	U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16	U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19	U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15	U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	**1.1**	J	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	47	50.0	94 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	86 %	69-111
Toluene-d8	2037-26-5	46	50.0	92 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 1
Lab #: C707153-21

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.68 U	1	0.68	2.00	6	ug/L	EPA 6020	EPA 200.8	7G12032
Arsenic	7440-38-2	3.6 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Barium	7440-39-3	**23.7** J	1		10.0	100	ug/L	EPA 6010B	EPA 3005A	7G11027
Beryllium	7440-41-7	0.19 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11027
Cadmium	7440-43-9	0.38 U	1		1.00	1	ug/L	EPA 6010B	EPA 3005A	7G11027
Chromium	7440-47-3	1.7 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Cobalt	7440-48-4	**10.0**	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Copper	7440-50-8	1.80 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Iron	7439-89-6	**12200**	1	15	50	300	ug/L	EPA 6010B	EPA 3005A	7G11027
Lead	7439-92-1	3.1 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Manganese	7439-96-5	**764**	1	1.4	10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11027
Mercury	7439-97-6	0.11 U	1	0.11	0.20	0.2	ug/L	EPA 7470A	EPA 7470A	7G09009
Nickel	7440-02-0	1.3 U	1		10.0	50	ug/L	EPA 6010B	EPA 3005A	7G11027
Selenium	7782-49-2	2.8 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Silver	7440-22-4	2.0 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027
Thallium	7440-28-0	0.036 U	1	0.036	0.050	5.5	ug/L	EPA 6020	EPA 200.8	7G12032
Vanadium	7440-62-2	1.7 U	1		10.0	25	ug/L	EPA 6010B	EPA 3005A	7G11027
Zinc	7440-66-6	3.4 U	1		10.0	10	ug/L	EPA 6010B	EPA 3005A	7G11027

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 1
Lab #: C707153-21

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Total Alkalinity	NA	**170**	1	5.2	15	NE	mg/L	EPA 310.2	NO PREP	7G05013
Total Dissolved Solids	NA	**260**	1	10	10	NE	mg/L	EPA 160.1	NO PREP	7G05006

www.encolabs.com

ANALYTICAL REPORT

Sample ID: MW- 1
Lab #: C707153-21

Project: Alexander Co. Closed C&D
Work Order #: C707153
Matrix: Ground Water

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	DF	MDL	MRL	NC SWSL	Units	Analysis Method	Prep Method	Analytical Batch
Chloride	16887-00-6	**2.8**	1	0.05	1.0	NE	mg/L	EPA 300.0	NA	7G12013
Sulfate	14808-79-8	**22**	1	0.03	2.0	NE	mg/L	EPA 300.0	NA	7G12013

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	TB	Project:	Alexander Co. Closed C&D
Lab #:	C707153-22	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	TB	Project:	Alexander Co. Closed C&D
Lab #:	C707153-22	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	41	50.0	83 %	67-125
Dibromofluoromethane	1868-53-7	36	50.0	72 %	69-111
Toluene-d8	2037-26-5	45	50.0	91 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	EB	Project:	Alexander Co. Closed C&D
Lab #:	C707153-23	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	EB	Project:	Alexander Co. Closed C&D
Lab #:	C707153-23	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	39	50.0	79 %	67-125
Dibromofluoromethane	1868-53-7	34	50.0	69 %	69-111
Toluene-d8	2037-26-5	44	50.0	89 %	85-120

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	FB	Project:	Alexander Co. Closed C&D
Lab #:	C707153-24	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	0.24	U	1.0	1	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	1.0	1	ug/L
1,1,2-Trichloroethane	79-00-5	0.24	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	0.090	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	0.14	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	0.32	U	1.0	1	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19	U	1.0	1	ug/L
1,2-Dibromoethane	106-93-4	0.19	U	1.0	1	ug/L
1,2-Dichlorobenzene	95-50-1	0.17	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	0.36	U	1.0	1	ug/L
1,2-Dichloropropane	78-87-5	0.18	U	1.0	1	ug/L
1,4-Dichlorobenzene	106-46-7	0.15	U	1.0	1	ug/L
2-Butanone	78-93-3	0.56	U	5.0	100	ug/L
2-Hexanone	591-78-6	0.24	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	0.36	U	5.0	100	ug/L
Acetone	67-64-1	0.90	U	5.0	100	ug/L
Acrylonitrile	107-13-1	2.0	U	5.0	200	ug/L
Benzene	71-43-2	0.12	U	1.0	1	ug/L
Bromochloromethane	74-97-5	0.19	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.19	U	0.40	1	ug/L
Bromoform	75-25-2	0.36	U	1.0	3	ug/L
Bromomethane	74-83-9	0.21	U	1.0	10	ug/L
Carbon disulfide	75-15-0	0.12	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	0.38	U	1.0	1	ug/L
Chlorobenzene	108-90-7	0.16	U	1.0	3	ug/L
Chloroethane	75-00-3	0.40	U	1.0	10	ug/L
Chloroform	67-66-3	0.16	U	1.0	5	ug/L
Chloromethane	74-87-3	0.18	U	1.0	1	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.20	1	ug/L
Dibromochloromethane	124-48-1	0.18	U	1.0	1	ug/L
Dibromomethane	74-95-3	0.14	U	1.0	10	ug/L
Ethylbenzene	100-41-4	0.17	U	1.0	1	ug/L
Iodomethane	74-88-4	0.23	U	2.0	10	ug/L
Methylene chloride	75-09-2	0.088	U	2.0	1	ug/L
Styrene	100-42-5	0.12	U	1.0	1	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	FB	Project:	Alexander Co. Closed C&D
Lab #:	C707153-24	Work Order #:	C707153
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	07/11/07 By: jkg	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7G10021		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWSL	Units
Tetrachloroethene	127-18-4	0.25 U	1.0	1	ug/L
Toluene	108-88-3	0.15 U	1.0	1	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.20	1	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.60 U	1.0	100	ug/L
Trichloroethene	79-01-6	0.23 U	1.0	1	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	1.0	1	ug/L
Vinyl acetate	108-05-4	0.19 U	2.0	50	ug/L
Vinyl chloride	75-01-4	0.15 U	1.0	1	ug/L
Xylenes (Total)	1330-20-7	0.21 U	1.0	4	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	41	50.0	83 %	67-125
Dibromofluoromethane	1868-53-7	36	50.0	71 %	69-111
Toluene-d8	2037-26-5	45	50.0	90 %	85-120

QUALITY CONTROL

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

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G09003 - EPA 5030B_MS

Blank (7G09003-BLK1) Prepared: 07/09/2007 08:02 Analyzed: 07/10/2007 10:25

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

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G09003 - EPA 5030B_MS										
Blank (7G09003-BLK1) Continued				Prepared: 07/09/2007 08:02 Analyzed: 07/10/2007 10:25						
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							
Xylenes (Total)	1.0 U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*43*		*ug/L*	*50.0*		*85*	*69-111*			
Surrogate: Toluene-d8	*47*		*ug/L*	*50.0*		*94*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*44*		*ug/L*	*50.0*		*88*	*67-125*			
LCS (7G09003-BS1)				Prepared: 07/09/2007 08:02 Analyzed: 07/10/2007 10:52						
1,1-Dichloroethene	18	1.0	ug/L	20.0		89	57-141			
Benzene	21	1.0	ug/L	20.0		103	76-116			
Trichloroethene	19	1.0	ug/L	20.0		97	81-118			
Toluene	20	1.0	ug/L	20.0		98	77-120			
Chlorobenzene	19	1.0	ug/L	20.0		97	75-115			
Matrix Spike (7G09003-MS1)		**Source: C709789-03**		Prepared: 07/09/2007 08:02 Analyzed: 07/10/2007 11:47						
1,1-Dichloroethene	17	1.0	ug/L	20.0	1.0 U	83	57-141			
Benzene	21	1.0	ug/L	20.0	1.0 U	103	76-116			
Trichloroethene	19	1.0	ug/L	20.0	1.0 U	94	81-118			
Toluene	19	1.0	ug/L	20.0	1.0 U	94	77-120			
Chlorobenzene	18	1.0	ug/L	20.0	1.0 U	92	75-115			
Matrix Spike Dup (7G09003-MSD1)		**Source: C709789-03**		Prepared: 07/09/2007 08:02 Analyzed: 07/10/2007 12:13						
1,1-Dichloroethene	18	1.0	ug/L	20.0	1.0 U	89	57-141	7	12	
Benzene	20	1.0	ug/L	20.0	1.0 U	102	76-116	1	14	
Trichloroethene	20	1.0	ug/L	20.0	1.0 U	99	81-118	5	11	
Toluene	19	1.0	ug/L	20.0	1.0 U	93	77-120	0.5	17	
Chlorobenzene	19	1.0	ug/L	20.0	1.0 U	95	75-115	4	12	
Batch 7G10021 - EPA 5030B_MS										
Blank (7G10021-BLK1)				Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 00:24						
Dichlorodifluoromethane	0.14 U	1.0	ug/L							
Chloromethane	0.18 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Vinyl chloride	0.15 U	1.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
Bromomethane	0.21 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Chloroethane	0.40 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	0.16 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
Acrolein	2.1 U	10	ug/L							
1,1-Dichloroethene	0.14 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							
Acetone	0.90 U	5.0	ug/L							
Acetone	5.0 U	5.0	ug/L							
Iodomethane	0.23 U	2.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G10021 - EPA 5030B_MS										
Blank (7G10021-BLK1) Continued				Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 00:24						
Carbon disulfide	0.12 U	5.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Acetonitrile	1.8 U	10	ug/L							
3-Chloropropene	0.20 U	1.0	ug/L							
Methylene chloride	0.088 U	2.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Acrylonitrile	2.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10 U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	0.090 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
Vinyl acetate	0.19 U	2.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Chloroprene	0.19 U	1.0	ug/L							
2-Butanone	0.56 U	5.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14 U	1.0	ug/L							
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							
2,2-Dichloropropane	0.16 U	1.0	ug/L							
Propionitrile	1.6 U	10	ug/L							
Methacrylonitrile	0.69 U	10	ug/L							
Bromochloromethane	0.19 U	1.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Chloroform	0.16 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
1,1,1-Trichloroethane	0.24 U	1.0	ug/L							
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloropropene	0.13 U	1.0	ug/L							
Isobutyl alcohol	8.4 U	20	ug/L							
Carbon tetrachloride	0.38 U	1.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
1,2-Dichloroethane	0.36 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
Benzene	0.12 U	1.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
Trichloroethene	0.23 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	0.18 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
Methyl Methacrylate	0.38 U	1.0	ug/L							
Dibromomethane	0.14 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
Bromodichloromethane	0.19 U	0.40	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							

QUALITY CONTROL

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

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G10021 - EPA 5030B_MS

Blank (7G10021-BLK1) Continued Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 00:24

cis-1,3-Dichloropropene	0.16 U	0.20	ug/L
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L
4-Methyl-2-pentanone	0.36 U	5.0	ug/L
4-Methyl-2-pentanone	5.0 U	5.0	ug/L
Toluene	0.15 U	1.0	ug/L
Toluene	1.0 U	1.0	ug/L
trans-1,3-Dichloropropene	0.18 U	0.20	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
Ethyl Methacrylate	0.17 U	2.0	ug/L
1,1,2-Trichloroethane	0.24 U	1.0	ug/L
1,1,2-Trichloroethane	1.0 U	1.0	ug/L
1,3-Dichloropropane	0.18 U	1.0	ug/L
Tetrachloroethene	0.25 U	1.0	ug/L
Tetrachloroethene	1.0 U	1.0	ug/L
2-Hexanone	0.24 U	5.0	ug/L
2-Hexanone	5.0 U	5.0	ug/L
Dibromochloromethane	0.18 U	1.0	ug/L
Dibromochloromethane	1.0 U	1.0	ug/L
1,2-Dibromoethane	0.19 U	1.0	ug/L
1,2-Dibromoethane	1.0 U	1.0	ug/L
Chlorobenzene	0.16 U	1.0	ug/L
Chlorobenzene	1.0 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.16 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L
Ethylbenzene	0.17 U	1.0	ug/L
Ethylbenzene	1.0 U	1.0	ug/L
m,p-Xylenes	0.21 U	2.0	ug/L
o-Xylene	0.14 U	1.0	ug/L
Styrene	0.12 U	1.0	ug/L
Styrene	1.0 U	1.0	ug/L
Bromoform	0.36 U	1.0	ug/L
Bromoform	1.0 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.27 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L
1,2,3-Trichloropropane	0.32 U	1.0	ug/L
1,2,3-Trichloropropane	1.0 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	0.60 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L
1,3-Dichlorobenzene	0.15 U	1.0	ug/L
1,4-Dichlorobenzene	0.15 U	1.0	ug/L
1,4-Dichlorobenzene	1.0 U	1.0	ug/L
1,2-Dichlorobenzene	0.17 U	1.0	ug/L
1,2-Dichlorobenzene	1.0 U	1.0	ug/L
1,2-Dibromo-3-chloropropane	0.19 U	1.0	ug/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G10021 - EPA 5030B_MS										
Blank (7G10021-BLK1) Continued				Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 00:24						
1,2,4-Trichlorobenzene	0.14 U	1.0	ug/L							
Naphthalene	0.25 U	1.0	ug/L							
Xylenes (Total)	1.0 U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*44*		*ug/L*	*50.0*		*88*	*69-111*			
Surrogate: Toluene-d8	*47*		*ug/L*	*50.0*		*93*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*44*		*ug/L*	*50.0*		*88*	*67-125*			
LCS (7G10021-BS1)				Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 00:50						
1,1-Dichloroethene	18	1.0	ug/L	20.0		92	57-141			
1,1-Dichloroethene	18	1.0	ug/L	20.0		92	57-141			
Benzene	22	1.0	ug/L	20.0		109	76-116			
Benzene	22	1.0	ug/L	20.0		109	76-116			
Trichloroethene	20	1.0	ug/L	20.0		99	81-118			
Trichloroethene	20	1.0	ug/L	20.0		99	81-118			
Toluene	21	1.0	ug/L	20.0		103	77-120			
Toluene	21	1.0	ug/L	20.0		103	77-120			
Chlorobenzene	20	1.0	ug/L	20.0		101	75-115			
Chlorobenzene	20	1.0	ug/L	20.0		101	75-115			
Matrix Spike (7G10021-MS1)		**Source: C707153-01**		Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 02:09						
1,1-Dichloroethene	15	1.0	ug/L	20.0	0.14 U	77	57-141			
1,1-Dichloroethene	15	1.0	ug/L	20.0	1.0 U	77	57-141			
Benzene	19 QM-01	1.0	ug/L	20.0	6.0	64	76-116			QM-01
Benzene	19 QM-01	1.0	ug/L	20.0	6.0	64	76-116			QM-01
Trichloroethene	17 QM-01	1.0	ug/L	20.0	1.1	80	81-118			QM-01
Trichloroethene	17 QM-01	1.0	ug/L	20.0	1.1	80	81-118			QM-01
Toluene	15 QM-01	1.0	ug/L	20.0	0.34	75	77-120			QM-01
Toluene	15 QM-01	1.0	ug/L	20.0	0.34	75	77-120			QM-01
Chlorobenzene	16	1.0	ug/L	20.0	0.16 U	81	75-115			
Chlorobenzene	16	1.0	ug/L	20.0	1.0 U	81	75-115			
Matrix Spike Dup (7G10021-MSD1)		**Source: C707153-01**		Prepared: 07/10/2007 16:48 Analyzed: 07/11/2007 02:35						
1,1-Dichloroethene	17	1.0	ug/L	20.0	0.14 U	84	57-141	9	12	
1,1-Dichloroethene	17	1.0	ug/L	20.0	1.0 U	84	57-141	9	12	
Benzene	20 QM-01	1.0	ug/L	20.0	6.0	69	76-116	6	14	QM-01
Benzene	20 QM-01	1.0	ug/L	20.0	6.0	69	76-116	6	14	QM-01
Trichloroethene	18	1.0	ug/L	20.0	1.1	86	81-118	6	11	
Trichloroethene	18	1.0	ug/L	20.0	1.1	86	81-118	6	11	
Toluene	18	1.0	ug/L	20.0	0.34	87	77-120	14	17	
Toluene	18	1.0	ug/L	20.0	0.34	87	77-120	14	17	
Chlorobenzene	18	1.0	ug/L	20.0	0.16 U	89	75-115	9	12	
Chlorobenzene	18	1.0	ug/L	20.0	1.0 U	89	75-115	9	12	
Batch 7G11024 - EPA 5030B_MS										
Blank (7G11024-BLK1)				Prepared: 07/11/2007 13:54 Analyzed: 07/11/2007 20:30						
Chloromethane	1.0 U	1.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							

QUALITY CONTROL

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

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G11024 - EPA 5030B_MS

Blank (7G11024-BLK1) Continued Prepared: 07/11/2007 13:54 Analyzed: 07/11/2007 20:30

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

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7G11024 - EPA 5030B_MS										
Blank (7G11024-BLK1) Continued				Prepared: 07/11/2007 13:54 Analyzed: 07/11/2007 20:30						
Surrogate: Dibromofluoromethane	*42*		*ug/L*	*50.0*		*83*	*69-111*			
Surrogate: Toluene-d8	*45*		*ug/L*	*50.0*		*90*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*45*		*ug/L*	*50.0*		*90*	*67-125*			
LCS (7G11024-BS1)				Prepared: 07/11/2007 13:54 Analyzed: 07/11/2007 20:57						
1,1-Dichloroethene	17	1.0	ug/L	20.0		85	57-141			
Benzene	20	1.0	ug/L	20.0		101	76-116			
Trichloroethene	19	1.0	ug/L	20.0		96	81-118			
Toluene	18	1.0	ug/L	20.0		92	77-120			
Chlorobenzene	19	1.0	ug/L	20.0		94	75-115			
Matrix Spike (7G11024-MS1)		**Source: C707627-02**		Prepared: 07/11/2007 13:54 Analyzed: 07/11/2007 21:23						
1,1-Dichloroethene	18	1.0	ug/L	20.0	1.0 U	91	57-141			
Benzene	22	1.0	ug/L	20.0	1.0 U	108	76-116			
Trichloroethene	20	1.0	ug/L	20.0	1.0 U	101	81-118			
Toluene	20	1.0	ug/L	20.0	1.0 U	102	77-120			
Chlorobenzene	20	1.0	ug/L	20.0	1.0 U	98	75-115			
Matrix Spike Dup (7G11024-MSD1)		**Source: C707627-02**		Prepared: 07/11/2007 13:54 Analyzed: 07/11/2007 21:50						
1,1-Dichloroethene	18	1.0	ug/L	20.0	1.0 U	92	57-141	0.1	12	
Benzene	21	1.0	ug/L	20.0	1.0 U	103	76-116	5	14	
Trichloroethene	20	1.0	ug/L	20.0	1.0 U	99	81-118	1	11	
Toluene	20	1.0	ug/L	20.0	1.0 U	100	77-120	2	17	
Chlorobenzene	20	1.0	ug/L	20.0	1.0 U	98	75-115	0.05	12	
Semivolatile Organic Compounds by GCMS - Quality Control										
Batch 7G03019 - EPA 3510C_MS										
Blank (7G03019-BLK1)				Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 21:24						
1,2,4,5-Tetrachlorobenzene	1.7 U	10	ug/L							
1,3-Dinitrobenzene	1.0 U	10	ug/L							
1,3,5-Trinitrobenzene	1.4 U	10	ug/L							
1,4-Naphthoquinone	3.0 U	10	ug/L							
1,4-Phenylenediamine	4.0 U	10	ug/L							
1-Naphthylamine	2.5 U	10	ug/L							
2,3,4,6-Tetrachlorophenol	1.0 U	10	ug/L							
2,4,5-Trichlorophenol	1.1 U	10	ug/L							
2,4,6-Trichlorophenol	1.4 U	10	ug/L							
2,4-Dichlorophenol	1.6 U	10	ug/L							
2,4-Dimethylphenol	3.0 U	10	ug/L							
2,4-Dinitrophenol	1.7 U	10	ug/L							
2,4-Dinitrotoluene	1.2 U	10	ug/L							
2,6-Dichlorophenol	1.7 U	10	ug/L							
2,6-Dinitrotoluene	1.0 U	10	ug/L							
2-Acetylaminofluorene	1.3 U	10	ug/L							
2-Chloronaphthalene	1.6 U	10	ug/L							
2-Chlorophenol	2.0 U	10	ug/L							
2-Methylnaphthalene	2.0 U	10	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Semivolatile Organic Compounds by GCMS - Quality Control										
Batch 7G03019 - EPA 3510C_MS										
Blank (7G03019-BLK1) Continued				Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 21:24						
2-Methylphenol	2.0 U	10	ug/L							
2-Naphthylamine	4.0 U	10	ug/L							
2-Nitroaniline	1.2 U	10	ug/L							
2-Nitrophenol	1.8 U	10	ug/L							
3,3'-Dimethylbenzidine	3.0 U	10	ug/L							
3,3'-Dichlorobenzidine	1.8 U	10	ug/L							
3 & 4-Methylphenol	1.9 U	20	ug/L							
3-Methylcholanthrene	1.3 U	10	ug/L							
3-Nitroaniline	1.6 U	10	ug/L							
2-Methyl-4,6-dinitrophenol	1.4 U	10	ug/L							
4-Aminobiphenyl	3.1 U	10	ug/L							
4-Bromophenyl-phenylether	1.2 U	10	ug/L							
4-Chloro-3-methylphenol	1.4 U	10	ug/L							
4-Chloroaniline	1.6 U	10	ug/L							
4-Chlorophenyl-phenylether	1.2 U	10	ug/L							
4-Nitroaniline	1.4 U	10	ug/L							
4-Nitrophenol	1.2 U	10	ug/L							
5-Nitro-o-toluidine	0.60 U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1 U	10	ug/L							
Acenaphthene	1.4 U	10	ug/L							
Acenaphthylene	1.4 U	10	ug/L							
Acetophenone	2.0 U	10	ug/L							
Anthracene	0.90 U	10	ug/L							
Benzo(a)anthracene	1.0 U	10	ug/L							
Benzo(a)pyrene	1.1 U	10	ug/L							
Benzo(b)fluoranthene	0.70 U	10	ug/L							
Benzo(g,h,i)perylene	1.2 U	10	ug/L							
Benzo(k)fluoranthene	1.4 U	10	ug/L							
Benzyl alcohol	1.0 U	10	ug/L							
Bis(2-chloroethoxy)methane	2.0 U	10	ug/L							
Bis(2-chloroethyl)ether	2.1 U	10	ug/L							
Bis(2-chloroisopropyl)ether	2.2 U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.9 U	10	ug/L							
Butylbenzylphthalate	1.4 U	10	ug/L							
Chlorobenzilate	1.1 U	10	ug/L							
Chrysene	1.0 U	10	ug/L							
Diallate	1.3 U	10	ug/L							
Dibenzo(a,h)anthracene	1.0 U	10	ug/L							
Dibenzofuran	1.3 U	10	ug/L							
Diethylphthalate	1.3 U	10	ug/L							
Dimethoate	1.0 U	10	ug/L							
Dimethylphthalate	1.1 U	10	ug/L							
Di-n-butylphthalate	1.0 U	10	ug/L							
Di-n-octylphthalate	2.0 U	10	ug/L							
Disulfoton	1.0 U	10	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Semivolatile Organic Compounds by GCMS - Quality Control										
Batch 7G03019 - EPA 3510C_MS										
Blank (7G03019-BLK1) Continued				Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 21:24						
Ethyl methanesulfonate	1.1 U	10	ug/L							
Famphur	1.8 U	10	ug/L							
Fluoranthene	1.1 U	10	ug/L							
Fluorene	1.1 U	10	ug/L							
Hexachlorobenzene	1.1 U	10	ug/L							
Hexachlorobutadiene	2.0 U	10	ug/L							
Hexachlorocyclopentadiene	2.0 U	10	ug/L							
Hexachloroethane	2.4 U	10	ug/L							
Hexachloropropene	1.1 U	10	ug/L							
Indeno(1,2,3-cd)pyrene	1.2 U	10	ug/L							
Isodrin	1.0 U	10	ug/L							
Isophorone	1.8 U	10	ug/L							
Isosafrole	1.3 U	10	ug/L							
Kepone	1.5 U	20	ug/L							
Methapyrilene	3.8 U	10	ug/L							
Methyl Methanesulfonate	2.0 U	10	ug/L							
Methyl parathion	1.2 U	10	ug/L							
Nitrobenzene	1.9 U	10	ug/L							
N-Nitrosodiethylamine	1.9 U	10	ug/L							
N-Nitrosodimethylamine	1.9 U	10	ug/L							
N-Nitrosodi-n-butylamine	1.0 U	10	ug/L							
N-Nitroso-di-n-propylamine	2.1 U	10	ug/L							
N-Nitrosomethylethylamine	1.9 U	10	ug/L							
N-Nitrosopiperidine	1.5 U	10	ug/L							
N-Nitrosopyrrolidine	1.9 U	10	ug/L							
O,O,O-Triethyl phosphorothioate	2.0 U	10	ug/L							
o-Toluidine	1.5 U	10	ug/L							
Parathion	1.2 U	10	ug/L							
p-Dimethylaminoazobenzene	1.2 U	10	ug/L							
Pentachlorobenzene	1.2 U	10	ug/L							
Pentachloronitrobenzene	1.1 U	10	ug/L							
Phenacetin	1.0 U	10	ug/L							
Phenanthrene	0.90 U	10	ug/L							
Phenol	1.5 U	10	ug/L							
Phorate	4.1 U	10	ug/L							
Pronamide	1.0 U	10	ug/L							
Pyrene	1.3 U	10	ug/L							
Safrole	1.9 U	10	ug/L							
Thionazin	1.2 U	10	ug/L							
N-Nitrosodiphenylamine/Diphenylamine	1.1 U	10	ug/L							
LCS (7G03019-BS1)				Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 21:51						
2,4-Dinitrotoluene	44	10	ug/L	50.0		88	23-128			
2-Chlorophenol	34	10	ug/L	50.0		68	14-102			
4-Chloro-3-methylphenol	39	10	ug/L	50.0		79	10-126			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Semivolatile Organic Compounds by GCMS - Quality Control										
Batch 7G03019 - EPA 3510C_MS										
LCS (7G03019-BS1) Continued				Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 21:51						
4-Nitrophenol	33	10	ug/L	50.0		66	10-131			
Acenaphthene	32	10	ug/L	50.0		65	22-115			
N-Nitroso-di-n-propylamine	30	10	ug/L	50.0		60	19-122			
Phenol	21	10	ug/L	50.0		42	11-87			
Pyrene	53	10	ug/L	50.0		105	45-123			
Matrix Spike (7G03019-MS1)		**Source: C707153-01**		Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 22:18						
2,4-Dinitrotoluene	43	10	ug/L	50.0	1.2 U	86	28-116			
2-Chlorophenol	34	10	ug/L	50.0	2.0 U	68	22-99			
4-Chloro-3-methylphenol	40	10	ug/L	50.0	1.4 U	81	37-109			
4-Nitrophenol	34	10	ug/L	50.0	1.2 U	69	10-140			
Acenaphthene	36	10	ug/L	50.0	1.4 U	72	23-119			
N-Nitroso-di-n-propylamine	30	10	ug/L	50.0	2.1 U	60	22-115			
Phenol	22	10	ug/L	50.0	1.5 U	45	10-92			
Pyrene	50	10	ug/L	50.0	1.3 U	100	43-123			
Matrix Spike Dup (7G03019-MSD1)		**Source: C707153-01**		Prepared: 07/03/2007 13:01 Analyzed: 07/05/2007 22:44						
2,4-Dinitrotoluene	47	10	ug/L	50.0	1.2 U	94	28-116	8	21	
2-Chlorophenol	39	10	ug/L	50.0	2.0 U	77	22-99	12	41	
4-Chloro-3-methylphenol	43	10	ug/L	50.0	1.4 U	86	37-109	6	22	
4-Nitrophenol	37	10	ug/L	50.0	1.2 U	75	10-140	8	52	
Acenaphthene	42	10	ug/L	50.0	1.4 U	84	23-119	15	28	
N-Nitroso-di-n-propylamine	34	10	ug/L	50.0	2.1 U	67	22-115	11	22	
Phenol	25	10	ug/L	50.0	1.5 U	50	10-92	10	44	
Pyrene	54	10	ug/L	50.0	1.3 U	108	43-123	7	32	
Organochlorine Pesticides by GC - Quality Control										
Batch 7G03005 - EPA 3510C										
Blank (7G03005-BLK1)				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 21:44						
4,4'-DDD	0.0050 U	0.050	ug/L							
4,4'-DDE	0.0060 U	0.050	ug/L							
4,4'-DDT	0.0050 U	0.050	ug/L							
Aldrin	0.0030 U	0.050	ug/L							
alpha-BHC	0.0010 U	0.050	ug/L							
beta-BHC	0.0030 U	0.050	ug/L							
Chlordane-gamma	0.0050 U	0.050	ug/L							
delta-BHC	0.0020 U	0.050	ug/L							
Dieldrin	0.0060 U	0.050	ug/L							
Endosulfan I	0.0040 U	0.050	ug/L							
Endosulfan II	0.0040 U	0.050	ug/L							
Endosulfan sulfate	0.0040 U	0.050	ug/L							
Endrin	0.0040 U	0.050	ug/L							
Endrin aldehyde	0.0040 U	0.050	ug/L							
gamma-BHC	0.0020 U	0.050	ug/L							
Heptachlor	0.0030 U	0.050	ug/L							
Heptachlor epoxide	0.0040 U	0.050	ug/L							
Methoxychlor	0.0060 U	0.050	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Organochlorine Pesticides by GC - Quality Control										
Batch 7G03005 - EPA 3510C										
Blank (7G03005-BLK1) Continued				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 21:44						
Toxaphene	0.67 U	1.0	ug/L							
LCS (7G03005-BS2)				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 23:18						
4,4'-DDT	1.1	0.050	ug/L	1.00		109	43-162			
Aldrin	0.79	0.050	ug/L	1.00		79	51-126			
Dieldrin	0.92	0.050	ug/L	1.00		92	57-140			
Endrin	0.97	0.050	ug/L	1.00		97	61-140			
gamma-BHC	0.94	0.050	ug/L	1.00		94	47-136			
Heptachlor	0.86	0.050	ug/L	1.00		86	49-145			
Matrix Spike (7G03005-MS2)		**Source: C707153-01**		Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 23:42						
4,4'-DDT	1.1	0.050	ug/L	1.00	0.0050 U	109	48-163			
Aldrin	0.85	0.050	ug/L	1.00	0.0030 U	85	31-159			
Dieldrin	0.93	0.050	ug/L	1.00	0.0060 U	93	41-157			
Endrin	0.99	0.050	ug/L	1.00	0.0040 U	99	41-157			
gamma-BHC	1.3	0.050	ug/L	1.00	0.0020 U	127	41-133			
Heptachlor	1.0	0.050	ug/L	1.00	0.0030 U	102	34-169			
Matrix Spike Dup (7G03005-MSD2)		**Source: C707153-01**		Prepared: 07/03/2007 09:03 Analyzed: 07/04/2007 00:06						
4,4'-DDT	1.1	0.050	ug/L	1.00	0.0050 U	106	48-163	2	31	
Aldrin	0.75	0.050	ug/L	1.00	0.0030 U	75	31-159	13	27	
Dieldrin	0.80	0.050	ug/L	1.00	0.0060 U	80	41-157	15	28	
Endrin	0.88	0.050	ug/L	1.00	0.0040 U	88	41-157	11	28	
gamma-BHC	1.1	0.050	ug/L	1.00	0.0020 U	113	41-133	11	24	
Heptachlor	0.91	0.050	ug/L	1.00	0.0030 U	91	34-169	11	27	
Polychlorinated Biphenyls by GC - Quality Control										
Batch 7G03005 - EPA 3510C										
Blank (7G03005-BLK1)				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 21:44						
PCB-1016/1242	0.34 U	1.0	ug/L							
PCB-1221	0.70 U	1.0	ug/L							
PCB-1232	0.80 U	1.0	ug/L							
PCB-1248	0.70 U	1.0	ug/L							
PCB-1254	0.50 U	1.0	ug/L							
PCB-1260	0.21 U	1.0	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.80*		*ug/L*	*1.00*		*80*	*27-125*			
Surrogate: DBC	*0.92*		*ug/L*	*1.00*		*92*	*46-130*			
LCS (7G03005-BS1)				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 22:07						
PCB-1016/1242	6.9	1.0	ug/L	10.0		69	50-150			
PCB-1260	9.5	1.0	ug/L	10.0		95	50-150			
Surrogate: 2,4,5,6-TCMX	*0.81*		*ug/L*	*1.00*		*81*	*27-125*			
Surrogate: DBC	*1.6*		*ug/L*	*1.00*		*162*	*46-130*			S-GC
LCS (7G03005-BS2)				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 23:18						
PCB-1016/1242	0.34 U	1.0	ug/L				50-150			
PCB-1260	0.21 U	1.0	ug/L				50-150			
Surrogate: 2,4,5,6-TCMX	*0.79*		*ug/L*	*1.00*		*79*	*27-125*			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Polychlorinated Biphenyls by GC - Quality Control										
Batch 7G03005 - EPA 3510C										
LCS (7G03005-BS2) Continued				Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 23:18						
Surrogate: DBC	*1.1*		*ug/L*	*1.00*		*109*	*46-130*			
Matrix Spike (7G03005-MS1)		**Source: C707153-01**		Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 22:31						
PCB-1016/1242	10	1.0	ug/L	10.0	0.34 U	102	54-136			
PCB-1260	9.0	1.0	ug/L	10.0	0.21 U	90	48-145			
Surrogate: 2,4,5,6-TCMX	*1.0*		*ug/L*	*1.00*		*105*	*27-125*			
Surrogate: DBC	*1.7*		*ug/L*	*1.00*		*173*	*46-130*			S-GC
Matrix Spike (7G03005-MS2)		**Source: C707153-01**		Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 23:42						
PCB-1016/1242	0.34 U	1.0	ug/L		0.34 U		54-136			
PCB-1260	0.21 U	1.0	ug/L		0.21 U		48-145			
Surrogate: 2,4,5,6-TCMX	*1.0*		*ug/L*	*1.00*		*100*	*27-125*			
Surrogate: DBC	*0.87*		*ug/L*	*1.00*		*87*	*46-130*			
Matrix Spike Dup (7G03005-MSD1)		**Source: C707153-01**		Prepared: 07/03/2007 09:03 Analyzed: 07/03/2007 22:55						
PCB-1016/1242	9.5	1.0	ug/L	10.0	0.34 U	95	54-136	7	35	
PCB-1260	8.8	1.0	ug/L	10.0	0.21 U	88	48-145	2	30	
Surrogate: 2,4,5,6-TCMX	*1.0*		*ug/L*	*1.00*		*100*	*27-125*			
Surrogate: DBC	*1.7*		*ug/L*	*1.00*		*169*	*46-130*			S-GC
Matrix Spike Dup (7G03005-MSD2)		**Source: C707153-01**		Prepared: 07/03/2007 09:03 Analyzed: 07/04/2007 00:06						
PCB-1016/1242	0.34 U	1.0	ug/L		0.34 U		54-136		35	
PCB-1260	0.21 U	1.0	ug/L		0.21 U		48-145		30	
Surrogate: 2,4,5,6-TCMX	*0.89*		*ug/L*	*1.00*		*89*	*27-125*			
Surrogate: DBC	*0.93*		*ug/L*	*1.00*		*93*	*46-130*			
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G03008 - EPA 7470A										
Blank (7G03008-BLK1)				Prepared: 07/03/2007 09:57 Analyzed: 07/03/2007 17:20						
Mercury	0.11 U	0.20	ug/L							
LCS (7G03008-BS1)				Prepared: 07/03/2007 09:57 Analyzed: 07/03/2007 17:23						
Mercury	4.79	0.20	ug/L	5.00		96	87-123			
Matrix Spike (7G03008-MS1)		**Source: C707153-01**		Prepared: 07/03/2007 09:57 Analyzed: 07/03/2007 17:28						
Mercury	4.44	0.20	ug/L	5.00	0.11 U	89	63-132			
Matrix Spike Dup (7G03008-MSD1)		**Source: C707153-01**		Prepared: 07/03/2007 09:57 Analyzed: 07/03/2007 17:30						
Mercury	4.49	0.20	ug/L	5.00	0.11 U	90	63-132	1	10	
Post Spike (7G03008-PS1)		**Source: C707153-01**		Prepared: 07/03/2007 09:57 Analyzed: 07/03/2007 17:43						
Mercury	4.57	0.20	ug/L	5.00	-0.0001	91	85-115			
Batch 7G05017 - EPA 3005A										
Blank (7G05017-BLK1)				Prepared: 07/05/2007 12:51 Analyzed: 07/17/2007 15:19						
Arsenic	10.0 U	10.0	ug/L							
Barium	10.0 U	10.0	ug/L							
Beryllium	1.00 U	1.00	ug/L							
Cadmium	1.00 U	1.00	ug/L							
Chromium	10.0 U	10.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G05017 - EPA 3005A										
Blank (7G05017-BLK1) Continued				Prepared: 07/05/2007 12:51 Analyzed: 07/17/2007 15:19						
Cobalt	10.0 U	10.0	ug/L							
Copper	10.0 U	10.0	ug/L							
Iron	15 U	50	ug/L							
Lead	10.0 U	10.0	ug/L							
Manganese	1.4 U	10.0	ug/L							
Nickel	10.0 U	10.0	ug/L							
Selenium	10.0 U	10.0	ug/L							
Silver	10.0 U	10.0	ug/L							
Tin	3.6 U	10.0	ug/L							
Vanadium	10.0 U	10.0	ug/L							
Zinc	10.0 U	10.0	ug/L							
LCS (7G05017-BS1)				Prepared: 07/05/2007 12:51 Analyzed: 07/17/2007 14:30						
Arsenic	1.0 E	0.01	mg/L	1.00		101	82-117			E
Barium	1.18 E	0.01	mg/L	1.00		118	72-125			E
Beryllium	0.51 E	0.001	mg/L	0.500		101	75-121			E
Cadmium	0.51 E	0.001	mg/L	0.500		102	72-120			E
Chromium	1.0	0.01	mg/L	1.00		100	78-119			
Cobalt	1.0	0.01	mg/L	1.00		99	76-117			
Copper	0.49	0.01	mg/L	0.500		98	80-117			
Iron	10	0.05	mg/L	10.0		100	84-133			
Lead	1.0	0.01	mg/L	1.00		98	72-121			
Manganese	0.5	0.01	mg/L	0.500		99	76-123			
Nickel	1.0 E	0.01	mg/L	1.00		105	78-116			E
Selenium	1.0 E	0.01	mg/L	1.00		103	82-127			E
Silver	0.09	0.01	mg/L	0.100		94	80-128			
Tin	1.0	0.01	mg/L	1.00		104	83-117			
Vanadium	0.5	0.01	mg/L	0.500		97	78-117			
Zinc	1.0 E	0.01	mg/L	1.00		101	80-120			E
Matrix Spike (7G05017-MS1)		**Source: C707153-01**		Prepared: 07/05/2007 12:51 Analyzed: 07/17/2007 14:48						
Arsenic	1.0 E	0.01	mg/L	1.00	-0.002	101	64-126			E
Barium	1.26 E	0.01	mg/L	1.00	0.10	116	74-119			E
Beryllium	0.51 E	0.001	mg/L	0.500	-0.0004	102	70-131			E
Cadmium	0.51 E	0.001	mg/L	0.500	-0.003	102	68-121			E
Chromium	1.0	0.01	mg/L	1.00	-0.003	99	73-120			
Cobalt	1.1 E	0.01	mg/L	1.00	0.1	99	76-120			E
Copper	0.48	0.01	mg/L	0.500	-0.007	98	75-123			
Iron	27	0.05	mg/L	10.0	20	76	48-144			
Lead	1.0	0.01	mg/L	1.00	0.001	98	68-126			
Manganese	8.2 QM-05	0.01	mg/L	0.500	8.2	13	55-146			QM-05
Nickel	1.0 E	0.01	mg/L	1.00	0.03	99	64-126			E
Selenium	1.0 E	0.01	mg/L	1.00	-0.01	104	65-129			E
Silver	0.09	0.01	mg/L	0.100	-0.004	98	69-121			
Tin	1.1	0.01	mg/L	1.00	-0.004	106	81-124			
Vanadium	0.4	0.01	mg/L	0.500	-0.05	98	71-130			
Zinc	1.1 E	0.01	mg/L	1.00	0.04	101	63-131			E

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G05017 - EPA 3005A										
Matrix Spike Dup (7G05017-MSD1)		**Source: C707153-01**		Prepared: 07/05/2007 12:51 Analyzed: 07/17/2007 14:55						
Arsenic	1.0 E	0.01	mg/L	1.00	-0.002	102	64-126	1	12	E
Barium	1.28 E	0.01	mg/L	1.00	0.10	118	74-119	2	11	E
Beryllium	0.52 E	0.001	mg/L	0.500	-0.0004	103	70-131	1	21	E
Cadmium	0.51 E	0.001	mg/L	0.500	-0.003	103	68-121	0.8	12	E
Chromium	1.0	0.01	mg/L	1.00	-0.003	99	73-120	0.7	10	
Cobalt	1.1 E	0.01	mg/L	1.00	0.1	99	76-120	0.7	17	E
Copper	0.49	0.01	mg/L	0.500	-0.007	99	75-123	2	16	
Iron	28	0.05	mg/L	10.0	20	80	48-144	2	23	
Lead	1.0	0.01	mg/L	1.00	0.001	98	68-126	0.08	19	
Manganese	8.4 QM-05	0.01	mg/L	0.500	8.2	41	55-146	2	19	QM-05
Nickel	1.0 E	0.01	mg/L	1.00	0.03	100	64-126	0.6	12	E
Selenium	1.0 E	0.01	mg/L	1.00	-0.01	104	65-129	0.5	10	E
Silver	0.09	0.01	mg/L	0.100	-0.004	98	69-121	0.3	12	
Tin	1.0	0.01	mg/L	1.00	-0.004	105	81-124	0.4	18	
Vanadium	0.4	0.01	mg/L	0.500	-0.05	99	71-130	1	16	
Zinc	1.1 E	0.01	mg/L	1.00	0.04	101	63-131	0	24	E
Batch 7G09009 - EPA 7470A										
Blank (7G09009-BLK1)				Prepared: 07/09/2007 11:07 Analyzed: 07/10/2007 11:18						
Mercury	0.11 U	0.20	ug/L							
LCS (7G09009-BS1)				Prepared: 07/09/2007 11:07 Analyzed: 07/10/2007 11:20						
Mercury	4.74	0.20	ug/L				87-123			
Matrix Spike (7G09009-MS1)		**Source: C708996-02**		Prepared: 07/09/2007 11:07 Analyzed: 07/10/2007 11:31						
Mercury	5.00	0.20	ug/L	5.00	0.11 U	100	63-132			
Matrix Spike Dup (7G09009-MSD1)		**Source: C708996-02**		Prepared: 07/09/2007 11:07 Analyzed: 07/10/2007 11:33						
Mercury	4.98	0.20	ug/L	5.00	0.11 U	100	63-132	0.2	10	
Post Spike (7G09009-PS1)		**Source: C708996-02**		Prepared: 07/09/2007 11:07 Analyzed: 07/10/2007 11:36						
Mercury	4.34	0.20	ug/L	5.00	0.01	86	85-115			
Batch 7G11027 - EPA 3005A										
Blank (7G11027-BLK1)				Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 10:42						
Arsenic	10.0 U	10.0	ug/L							
Barium	10.0 U	10.0	ug/L							
Beryllium	1.00 U	1.00	ug/L							
Cadmium	1.00 U	1.00	ug/L							
Chromium	10.0 U	10.0	ug/L							
Cobalt	10.0 U	10.0	ug/L							
Copper	10.0 U	10.0	ug/L							
Iron	15 U	50	ug/L							
Lead	10.0 U	10.0	ug/L							
Manganese	1.4 U	10.0	ug/L							
Nickel	10.0 U	10.0	ug/L							
Selenium	10.0 U	10.0	ug/L							
Silver	10.0 U	10.0	ug/L							
Vanadium	10.0 U	10.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G11027 - EPA 3005A										
Blank (7G11027-BLK1) Continued				Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 10:42						
Zinc	10.0 U	10.0	ug/L							
LCS (7G11027-BS1)				Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 10:55						
Arsenic	514	10.0	ug/L	500		103	82-117			
Barium	514	10.0	ug/L	500		103	72-125			
Beryllium	264	1.00	ug/L	250		106	75-121			
Cadmium	260	1.00	ug/L	250		104	72-120			
Chromium	512	10.0	ug/L	500		102	78-119			
Cobalt	511	10.0	ug/L	500		102	76-117			
Copper	251	10.0	ug/L	250		100	80-117			
Iron	5080	50	ug/L	5000		102	84-133			
Lead	515	10.0	ug/L	500		103	72-121			
Manganese	253	10.0	ug/L	250		101	76-123			
Nickel	515	10.0	ug/L	500		103	78-116			
Selenium	522	10.0	ug/L	500		104	82-127			
Silver	49.7	10.0	ug/L	50.0		99	80-128			
Vanadium	250	10.0	ug/L	250		100	78-117			
Zinc	512	10.0	ug/L	500		102	80-120			
Matrix Spike (7G11027-MS1)		**Source: C707262-01**		Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 11:13						
Arsenic	347	10.0	ug/L	500	4.4	69	64-126			
Barium	452	10.0	ug/L	500	40.8	82	74-119			
Beryllium	176	1.00	ug/L	250	1.00 U	70	70-131			
Cadmium	171	1.00	ug/L	250	1.00 U	68	68-121			
Chromium	285 QM-07	10.0	ug/L	500	10.0 U	57	73-120			QM-07
Cobalt	336 QM-07	10.0	ug/L	500	10.0 U	67	76-120			QM-07
Copper	165 QM-07	10.0	ug/L	250	10.0 U	66	75-123			QM-07
Iron	3950	50	ug/L	5000	559	68	48-144			
Lead	338	10.0	ug/L	500	10.0 U	68	68-126			
Manganese	28700 QM-07	10.0	ug/L	250	29600	NR	55-146			QM-07
Nickel	334	10.0	ug/L	500	10.0 U	67	64-126			
Selenium	329	10.0	ug/L	500	10.0 U	66	65-129			
Silver	31.4 QM-07	10.0	ug/L	50.0	10.0 U	63	69-121			QM-07
Vanadium	10.0 QM-07, U	10.0	ug/L	250	10.0 U		71-130			QM-07
Zinc	332	10.0	ug/L	500	10.0 U	66	63-131			
Matrix Spike Dup (7G11027-MSD1)		**Source: C707262-01**		Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 11:20						
Arsenic	350	10.0	ug/L	500	4.4	69	64-126	0.7	12	
Barium	453	10.0	ug/L	500	40.8	82	74-119	0.2	11	
Beryllium	176	1.00	ug/L	250	1.00 U	70	70-131	0.3	21	
Cadmium	170	1.00	ug/L	250	1.00 U	68	68-121	0.5	12	
Chromium	286 QM-07	10.0	ug/L	500	10.0 U	57	73-120	0.5	10	QM-07
Cobalt	337 QM-07	10.0	ug/L	500	10.0 U	67	76-120	0.5	17	QM-07
Copper	166 QM-07	10.0	ug/L	250	10.0 U	66	75-123	0.5	16	QM-07
Iron	3950	50	ug/L	5000	559	68	48-144	0.2	23	
Lead	339	10.0	ug/L	500	10.0 U	68	68-126	0.4	19	
Manganese	28600 QM-07	10.0	ug/L	250	29600	NR	55-146	0.5	19	QM-07

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7G11027 - EPA 3005A										
Matrix Spike Dup (7G11027-MSD1) Continued		**Source: C707262-01**		Prepared: 07/11/2007 14:08 Analyzed: 07/13/2007 11:20						
Nickel	332	10.0	ug/L	500	10.0 U	66	64-126	0.5	12	
Selenium	330	10.0	ug/L	500	10.0 U	66	65-129	0.3	10	
Silver	32.1 QM-07	10.0	ug/L	50.0	10.0 U	64	69-121	2	12	QM-07
Vanadium	10.0 QM-07, U	10.0	ug/L	250	10.0 U		71-130		16	QM-07
Zinc	333	10.0	ug/L	500	10.0 U	67	63-131	0.3	24	
Batch 7G12031 - EPA 200.8										
Blank (7G12031-BLK1)				Prepared: 07/12/2007 13:31 Analyzed: 07/13/2007 11:13						
Antimony	0.68 U	2.00	ug/L							
Thallium	0.036 U	0.050	ug/L							
LCS (7G12031-BS1)				Prepared: 07/12/2007 13:31 Analyzed: 07/13/2007 11:15						
Antimony	26.2	2.00	ug/L	25.0		105	85-115			
Thallium	26.0	0.050	ug/L	25.0		104	85-115			
Matrix Spike (7G12031-MS1)		**Source: C707153-01**		Prepared: 07/12/2007 13:31 Analyzed: 07/13/2007 11:20						
Antimony	23.3	2.00	ug/L	25.0	0.68 U	93	85-115			
Thallium	26.0	0.050	ug/L	25.0	0.205	103	85-115			
Matrix Spike Dup (7G12031-MSD1)		**Source: C707153-01**		Prepared: 07/12/2007 13:31 Analyzed: 07/13/2007 11:23						
Antimony	22.7	2.00	ug/L	25.0	0.68 U	91	85-115	2	20	
Thallium	25.8	0.050	ug/L	25.0	0.205	103	85-115	0.5	20	
Batch 7G12032 - EPA 200.8										
Blank (7G12032-BLK1)				Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:22						
Antimony	0.68 U	2.00	ug/L							
Thallium	0.036 U	0.050	ug/L							
LCS (7G12032-BS1)				Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:24						
Antimony	26.6	2.00	ug/L	25.0		106	85-115			
Thallium	26.6	0.050	ug/L	25.0		106	85-115			
Matrix Spike (7G12032-MS1)		**Source: C709032-02**		Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:34						
Antimony	25.6	2.00	ug/L	25.0	0.68 U	102	85-115			
Thallium	25.3	0.050	ug/L	25.0	0.050	101	85-115			
Matrix Spike Dup (7G12032-MSD1)		**Source: C709032-02**		Prepared: 07/12/2007 13:44 Analyzed: 07/13/2007 12:37						
Antimony	24.9	2.00	ug/L	25.0	0.68 U	99	85-115	3	20	
Thallium	24.5	0.050	ug/L	25.0	0.050	98	85-115	3	20	
Classical Chemistry Parameters - Quality Control										
Batch 7G03002 - NO PREP										
Blank (7G03002-BLK1)				Prepared: 07/03/2007 08:12 Analyzed: 07/05/2007 13:35						
Total Dissolved Solids	10 U	10	mg/L							
LCS (7G03002-BS1)				Prepared: 07/03/2007 08:12 Analyzed: 07/05/2007 13:35						
Total Dissolved Solids	300	10	mg/L	300		101	90-110			
Duplicate (7G03002-DUP1)		**Source: C707153-01**		Prepared: 07/03/2007 08:12 Analyzed: 07/05/2007 13:35						
Total Dissolved Solids	210	10	mg/L		200			1	10	
Batch 7G05006 - NO PREP										

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 7G05006 - NO PREP										
Blank (7G05006-BLK1)				Prepared: 07/03/2007 08:22 Analyzed: 07/06/2007 13:15						
Total Dissolved Solids	10 U	10	mg/L							
LCS (7G05006-BS1)				Prepared: 07/03/2007 08:22 Analyzed: 07/06/2007 13:15						
Total Dissolved Solids	320	10	mg/L	300		105	90-110			
LCS (7G05006-BS2)				Prepared: 07/03/2007 08:22 Analyzed: 07/06/2007 13:15						
Total Dissolved Solids	320	10	mg/L	300		106	90-110			
Duplicate (7G05006-DUP1)		**Source: C707297-04**		Prepared: 07/03/2007 08:22 Analyzed: 07/06/2007 13:15						
Total Dissolved Solids	180	10	mg/L		180			2	10	
Duplicate (7G05006-DUP2)		**Source: C707153-20**		Prepared: 07/03/2007 08:22 Analyzed: 07/06/2007 13:15						
Total Dissolved Solids	72	10	mg/L		78			8	10	
Batch 7G05013 - NO PREP										
Blank (7G05013-BLK1)				Prepared: 07/05/2007 10:15 Analyzed: 07/05/2007 14:05						
Total Alkalinity	5.2 U	15	mg/L							
LCS (7G05013-BS1)				Prepared: 07/05/2007 10:15 Analyzed: 07/05/2007 14:06						
Total Alkalinity	110	15	mg/L	100		107	80-120			
Matrix Spike (7G05013-MS1)		**Source: C707153-01**		Prepared: 07/05/2007 10:15 Analyzed: 07/05/2007 14:08						
Total Alkalinity	210 QM-02	15	mg/L	43.2	170	86	80-120			QM-02
Matrix Spike Dup (7G05013-MSD1)		**Source: C707153-01**		Prepared: 07/05/2007 10:15 Analyzed: 07/05/2007 14:09						
Total Alkalinity	210 QM-02	15	mg/L	43.2	170	88	80-120	0.5	25	QM-02
Batch 7G10003 - NO PREP										
Blank (7G10003-BLK1)				Prepared: 07/03/2007 15:00 Analyzed: 07/03/2007 15:30						
Sulfide	0.50 U	1.0	mg/L							
LCS (7G10003-BS1)				Prepared: 07/03/2007 15:00 Analyzed: 07/03/2007 15:30						
Sulfide	3.5	1.0	mg/L	4.01		87	80-120			
Matrix Spike (7G10003-MS1)		**Source: C707153-01**		Prepared: 07/03/2007 15:00 Analyzed: 07/03/2007 15:30						
Sulfide	3.8	1.0	mg/L	4.01	0.01	96	80-120			
Matrix Spike Dup (7G10003-MSD1)		**Source: C707153-01**		Prepared: 07/03/2007 15:00 Analyzed: 07/03/2007 15:30						
Sulfide	3.5	1.0	mg/L	4.01	0.01	87	80-120	9	25	
Batch 7G10011 - NO PREP										
Blank (7G10011-BLK1)				Prepared: 07/10/2007 11:23 Analyzed: 07/10/2007 15:27						
Total Alkalinity	5.2 U	15	mg/L							
LCS (7G10011-BS1)				Prepared: 07/10/2007 11:23 Analyzed: 07/10/2007 15:58						
Total Alkalinity	97	15	mg/L	100		97	80-120			
Matrix Spike (7G10011-MS1)		**Source: C707153-14**		Prepared: 07/10/2007 11:23 Analyzed: 07/10/2007 15:59						
Total Alkalinity	230 QM-02	15	mg/L	97.3	210	19	80-120			QM-02
Matrix Spike Dup (7G10011-MSD1)		**Source: C707153-14**		Prepared: 07/10/2007 11:23 Analyzed: 07/10/2007 16:00						
Total Alkalinity	230 QM-02	15	mg/L	97.3	210	19	80-120	0.01	25	QM-02
Batch 7G11009 - NO PREP										
Blank (7G11009-BLK1)				Prepared: 07/11/2007 09:19 Analyzed: 07/14/2007 13:17						
Cyanide (total)	0.010 U	0.040	mg/L							
LCS (7G11009-BS1)				Prepared: 07/11/2007 09:19 Analyzed: 07/14/2007 13:17						

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 7G11009 - NO PREP										
LCS (7G11009-BS1) Continued				Prepared: 07/11/2007 09:19 Analyzed: 07/14/2007 13:17						
Cyanide (total)	0.24	0.040	mg/L	0.250		96	85-115			
Matrix Spike (7G11009-MS1)		**Source: C707153-01**		Prepared: 07/11/2007 09:19 Analyzed: 07/14/2007 13:17						
Cyanide (total)	0.24	0.040	mg/L	0.250	0.010 U	96	85-115			
Matrix Spike Dup (7G11009-MSD1)		**Source: C707153-01**		Prepared: 07/11/2007 09:19 Analyzed: 07/14/2007 13:17						
Cyanide (total)	0.24	0.040	mg/L	0.250	0.010 U	98	85-115	2	20	

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Chlorinated Herbicides by GC - Quality Control										
Batch 7G03016 - EPA 3510C										
Blank (7G03016-BLK1)				Prepared: 07/03/2007 14:04 Analyzed: 07/07/2007 23:20						
2,4-D	0.12 U	0.30	ug/L							
Pentachlorophenol	0.13 U	0.30	ug/L							
2,4,5-TP (Silvex)	0.11 U	0.30	ug/L							
2,4,5-T	0.11 U	0.30	ug/L							
Dinoseb	0.23 U	0.30	ug/L							
Surrogate: 2,4-DCAA	*2.2*		*ug/L*	*2.00*		*108*	*77-191*			
LCS (7G03016-BS1)				Prepared: 07/03/2007 14:04 Analyzed: 07/07/2007 23:52						
2,4-D	1.7	0.30	ug/L	2.00		85	85-140			
2,4,5-TP (Silvex)	1.8	0.30	ug/L	2.00		90	74-177			
Surrogate: 2,4-DCAA	*2.1*		*ug/L*	*2.00*		*107*	*77-191*			
Matrix Spike (7G03016-MS1)		**Source: C707153-01**		Prepared: 07/03/2007 14:04 Analyzed: 07/08/2007 00:25						
2,4-D	1.1 QM-07	0.30	ug/L	2.00	0.12 U	54	85-140			QM-07
2,4,5-TP (Silvex)	1.9	0.30	ug/L	2.00	0.11 U	94	74-177			
Surrogate: 2,4-DCAA	*0.0*		*ug/L*	*2.00*			*77-191*			S-04, U
Matrix Spike Dup (7G03016-MSD1)		**Source: C707153-01**		Prepared: 07/03/2007 14:04 Analyzed: 07/08/2007 00:57						
2,4-D	1.5 QM-07	0.30	ug/L	2.00	0.12 U	73	85-140	29	18	QM-07
2,4,5-TP (Silvex)	2.0	0.30	ug/L	2.00	0.11 U	99	74-177	5	10	
Surrogate: 2,4-DCAA	*0.0*		*ug/L*	*2.00*			*77-191*			S-04, U
Classical Chemistry Parameters - Quality Control										
Batch 7G12013 - NA										
Blank (7G12013-BLK1)				Prepared: 07/12/2007 14:50 Analyzed: 07/12/2007 20:21						
Sulfate	0.03 U	2.0	mg/L							
Chloride	**0.82** J	1.0	mg/L							
LCS (7G12013-BS1)				Prepared: 07/12/2007 14:50 Analyzed: 07/12/2007 20:38						
Sulfate	260	2.0	mg/L	250		105	90-115			
Chloride	270	1.0	mg/L	250		107	85-118			
Matrix Spike (7G12013-MS1)		**Source: A703731-07**		Prepared: 07/12/2007 14:50 Analyzed: 07/12/2007 20:55						

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Classical Chemistry Parameters - Quality Control										
Batch 7G12013 - NA										
Matrix Spike (7G12013-MS1) Continued		**Source: A703731-07**		Prepared: 07/12/2007 14:50 Analyzed: 07/12/2007 20:55						
Sulfate	270	2.0	mg/L	255	7.5	104	90-115			
Chloride	250	1.0	mg/L	255	3.1	97	85-118			
Matrix Spike Dup (7G12013-MSD1)		**Source: A703731-07**		Prepared: 07/12/2007 14:50 Analyzed: 07/12/2007 21:12						
Sulfate	260	2.0	mg/L	255	7.5	100	90-115	3	10	
Chloride	240	1.0	mg/L	255	3.1	94	85-118	3	10	

NOTES AND DEFINITIONS

D	Data reported from a dilution
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-05	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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8081A Appendix 2	Water	NC	591
8082 Appendix 2	Water	NC	591
8260B Appendix 1	Water	NC	591
8260B Appendix 2	Water	NC	591
8270C Appendix 2	Water	NC	591
Alkalinity 310.2	Water	NC	591
Antimony Total EPA 6020	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Beryllium Total EPA 6010B	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Cobalt Total EPA 6010B	Water	NC	591
Copper Total EPA 6010B	Water	NC	591
Cyanide Total 335.2	Water	NC	591
Iron Total EPA 6010B	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Manganese Total EPA 6010B	Water	NC	591
Mercury Total EPA 7470A	Water	NC	591
Nickel Total EPA 6010B	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591
Sulfide 376.1	Water	NC	591
TDS 160.1	Water	NC	591
Thallium Total EPA 6020	Water	NC	591
Tin Total EPA 6010B	Water	NC	591
Vanadium Total EPA 6010B	Water	NC	591
Zinc Total EPA 6010B	Water	NC	591
8151A Appendix 2	Water	NC	424
Chloride 300	Water	NC	424
Sulfate 300	Water	NC	424

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G07003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed C&D
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081A Appendix 2, 8082 Appendix 2, 8151A Appendix 2, 8270C Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.1,Sulfate 375.4	Chloride 325.3	Cyanide Total 335.2	Sulfide 376.1	Sample Comments
	MW-11 MS/MSD	6/27/07	2:50	Grab	Water	21	X		X	X			X	X	X	X	
	MW-14	6/28/07	10:35		Water	11	X		X	X			X	X	X	X	ONLY RECEIVED 1 8260 VOA JWL
	MW-15	6/28/07	11:05		Water	11	X		X	X			X	X	X	X	
	MW-17	6/28/07	12:00		Water	11	X		X	X			X	X	X	X	1 VOA BROKEN ARRIVED JWL
	MW-12	6/28/07	2:00		Water	11	X		X	X			X	X	X	X	
	MW-5	6/27/07	11:15		Water	4		X				X					
	MW-10	6/27/07	12:00		Water	4		X				X					
	SW-5	6/27/07	12:20		Water	4		X				X					VOA'S LABELED WRONG FROM C
	MW-4R	6/27/07	1:00		Water	4		X				X					
	MW-9	6/27/07	1:40		Water	4		X				X					
	SUPPLY WELL	6/28/07	2:30		Water	4		X				X					
	SW-4R	6/28/07	4:00		Water	4		X				X					

<-- Total # of Containers

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C707153

Sample Kit Prepared By: CARY	Date/Time: 6/26/07	Relinquished By: MESCO	Date/Time: 6/30/07 11:25	Received By:	Date/Time: 6/30/07 1125
Comments: MW-14 (Limited Sample)		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt:		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Page 2 of 3

Client Name: Municipal Engineering Services (MU001)	Project Number: G07003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed C&D
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 / Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses — Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ✓ Standard ___ Expedited Due ___/___/___

Lab Workorder: C707153

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	6081-A Appendix 2, 8082 Appendix 2, 8151-A Appendix 2, 8270C Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.1, Sulfate 375.4	Chloride 325.3	Cyanide Total 335.2	Sulfide 376.1	Sample Comments
	~~SUPPLY WELL~~	~~6/28/07~~	~~2:30~~	~~Grab~~	Water	4		X				X					ADDED SAMPLE 2x
	MW-8	6/28/07	12:40		Water	4		X				X ←	Include Hg				
	MW-7	6/27/07	10:30	Grab	Water	6		X			X		X	X			
	MW-3	6/27/07	4:10		Water	6		X			X		X	X			
	MW-13	6/28/07	8:35		Water	6		X			X		X	X			
	MW-6	6/28/07	9:05		Water	6		X			X		X	X			
	MW-2	6/28/07	9:50		Water	6		X			X		X	X			
	MW-12D	6/28/07	1:35		Water	6		X			X		X	X			
	MW-1B	6/28/07	3:00		Water	6		X			X		X	X			
	MW-1	6/28/07	3:40	↓	Water	6		X			X		X	X			
	~~MW-~~				Water	6		X			X		X	X			
	~~MW-~~				Water	6		X			X		X	X			

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARY	6/26/07	[signature], MESCO	6/30/07 11:05	[signature]	6/30/07 11:25
Comments: SW-3 DRY		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G07003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed C&D
City/ST/Zip: Gamer, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C707153

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	B061A Appendix 2, 8082 Appendix 2, B151A Appendix 2, 8270C Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Ca,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Ca,Cr,Cu,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Ca,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.1, Sulfate 375.4	Chloride 325.3	Cyanide Total 335.2	Sulfide 376.1	Sample Comments
	TB	6/27/07	ENCO Fill	Grab	Water	3		X									
	EB	↓	10:15	↓	Water	4		X				X					
	FB	↓	16:00	↓	Water	4		X				X					

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 6/26/07	Relinquished By: [signature], MESCO	Date/Time: 6/30/07 11:25	Received By: [signature]	Date/Time: 6/30/07 1125
Comments: EB - Disposable Bailer Fourline DI H_2O		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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