



An employee-owned company

Leachate Q2 2007

38414 NG

JPM
9/4/12

July 16, 2007

Solid Waste Section
Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, FL 33619-1352

Dept. of Environmental
Protection

Re: Review of Semi-Annual Sampling Results
First Half 2007 Sampling Event
Hardee County Solid Waste Disposal Facility
GMS ID No. 4025C30001
Long-term Care Permit No. 38414-007-SO

JUL 19 2007

Southwest District

Dear Sir or Madam:

On behalf of the Hardee County Solid Waste Department, PBS&J would like to present this review of the results of the first half 2007 sampling event at for the facility referenced above. This document is designed to comply with the requirements of Specific Condition 33 of the facility's permit, and was compiled in general accordance with the guidelines promulgated in Chapter 62-701.510(9) (a) of the Florida Administrative Code (FAC).

BACKGROUND

The Hardee County Solid Waste Disposal Facility is an active Class I landfill which encompasses approximately 100 acres of land at 685 Airport Road in Hardee County, Florida. According to the facility's permit, the facility's water quality monitoring network is designed to monitor the groundwater in the surficial aquifer, surface water, and leachate. The groundwater monitoring network is designed to include seven monitoring wells, which are designated MW-1, MW-2, MW-4, MW-5, MW-8, MW-9, and MW-10. The facility's permit designates MW-1 MW-4 as background wells and the other wells as detection wells. Two wells are not currently active, MW-9, which was recently damaged by heavy equipment, and MW-10, which has not yet been installed. There are three other monitoring wells, MW-3, MW-6, and MW-7, which are designated by the permit as piezometers. The layout of the site illustrating the well locations is presented in Figure 1.

Specific Condition 29 of the facility's permit specifies that groundwater samples be collected from monitoring wells MW-1, MW-2, MW-4, MW-5, MW-8, MW-9, and MW-10 on a semiannual basis. The groundwater samples are analyzed for the parameters listed on the 40

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Code of Federal Regulations (CFR) Part 258, Appendix I excluding the volatile organic compounds, as well as for total ammonia, iron, chlorides, mercury, nitrate, sodium, and total dissolved solids (TDS). These parameters are also listed in Specific Condition No. 29(c) of the facility's permit.

In addition, surface water is collected at one location, designated SW-2, during both semi-annual sampling events. The surface water sample is analyzed for the laboratory parameters listed in Specific Condition 27(c) of the permit.

According to Specific Condition 26 (a) of the permit, leachate is collected once per year, during the first semiannual sampling event, at Manhole 9. The leachate sample is analyzed for the laboratory parameters listed in the referenced specific condition.

*Actually labeled MW-4
on Lab Report*

FIRST HALF 2007 SAMPLING EVENT

The first half 2007 sampling event was conducted on June 21, 2007 by PBS&J personnel. A leachate sample was collected from Manhole 9, and groundwater samples were collected from wells MW-2, MW-5, and MW-8. A groundwater sample could not be collected from monitoring well MW-1 because it was dry at the time of sampling, and from MW-4 because the well could not be accessed because of a faulty cap. No surface water sample was collected at SW-2 because the sampling point was dry at the time of sampling.

Descriptions of the sampling procedures and findings of this sampling event are presented below. A Florida Department of Environmental Protection (FDEP) Ground Water Monitoring Report form for the sampling event is provided in Attachment A.

Sample Collection Methodology

The samples that were collected during this sampling event were done so in general accordance with the FDEP's Standard Operating Procedure for Field Activities (SOP 001/01).

The leachate sample was collected with a peristaltic pump. The sample was designated M-9. Prior to sampling the monitoring wells, they were purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. The groundwater samples were given identifiers which corresponded to the well of origin.

Copies of the field data sheets and the field equipment calibration logs from this sampling event are provided in Attachment B.

Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. The water level measurements were subtracted from the TOC elevations to determine the elevation of the water table at each well. The TOC elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD).

The leachate and groundwater samples were carried to Environmental Conservation Laboratories, Inc. (ENCO) for analysis of the parameters listed in the applicable specific conditions of the facility's permit.

Sampling Results

Leachate Analytical Results

The following analytes were detected in the leachate sample collected during this sampling event:

- Numerous inorganic analytes.
- Several pesticides/herbicides, including A-BHC, D-BHC, endosulfan sulfate, endosulfan II, and methoxychlor.
- Several volatile organics, including 1,4-dichlorobenzene, acetone, benzene, carbon disulfide, chlorobenzene, ethylbenzene, and toluene.

The concentration of every parameter that was detected in the leachate was compared to the regulatory levels listed in 40 CFR Part 261.24, as required by the Florida solid waste regulations. A standard has not been established for every parameter. None of the parameter concentrations detected in the leachate exceeded their respective regulatory standard.

A summary of the leachate analytical results is presented in Table 1. The complete laboratory analytical report is provided in Attachment C-1.

Groundwater Analytical Results

The only parameters that were detected in the groundwater samples were inorganics, and all of the inorganics that were included in the analytical program except for antimony, beryllium, cadmium, cobalt, selenium, silver, and thallium were detected in at least one well. A summary of the groundwater analytical results is presented in Table 2, and the analytical report is provided in Attachment C.

The concentration of every parameter that was detected in the groundwater was compared to its Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards,

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Monitoring, and Reporting are promulgated in Chapter 62-550, FAC. Not every parameter has an MCL or SDWS. Two parameters, pH and iron, were detected in the samples collected at all three wells sampled during this event at concentrations in excess of the regulatory criteria, or outside of the prescribed range as is the case with pH. Both of these analytes have secondary standards.

Groundwater Flow Pattern

The groundwater level elevation data from this event are presented in Table 3. The elevation data were plotted and contoured to generate the groundwater elevation contour map presented in Figure 1. The data indicated that the groundwater in the surficial aquifer beneath the landfill was flowing in a south-southeasterly direction at the time of this sampling event. The water table gradient measured 0.003 feet per foot beneath the site.

SUMMARY AND CONCLUSIONS

The results of the first half 2007 sampling event at the Hardee County Solid Waste Disposal Facility were consistent with those of the recent sampling events. There were no analytes detected in the leachate at concentrations in excess of the regulatory criteria. There were two analytes detected in the groundwater at concentrations in excess of the criteria, pH, and iron, but both of these analytes have secondary standards.

If you have any questions regarding the information presented in this report, please call me at (407) 806-4339.

Very truly yours,



Greg Mudd, P.G.
Senior Geologist

CC: Ms. Teresa Carver, Hardee County Solid Waste Department, 685 Airport Road,
Wauchula, FL 33873 (2 copies)
File, 071893.00 0120

TABLES

Table 1
Leachate Analytical Summary
Hardee County Landfill
First Half 2007

Labeled on Lab Forms
MW-9

Analyte	Location:		M-9
	Sample Identifier:		M-9
	Date of Test:	06/21/07	
Standard(1)	Units		
Inorganics			
Antimony		mg/l	<0.0076
Arsenic	5	mg/l	0.048
Barium	100	mg/l	0.067
Beryllium		mg/l	<0.0081
Bicarbonate alkalinity		mg/l	1100
Cadmium	1	mg/l	<0.0003
Chloride		mg/l	290
Chromium	5	mg/l	0.0098
Cobalt		mg/l	0.0039
Copper		mg/l	0.00697
Cyanide		mg/l	<0.0058
Iron		mg/l	21.4
Lead	5,000	mg/l	<0.0043
Mercury	200	mg/l	<0.0000092
Nickel		mg/l	0.019
Nitrate		mg/l	<0.066
Selenium	1	mg/l	<0.00017
Silver	5	mg/l	<0.0002
Sodium		mg/l	264
Total Ammonia - N		mg/l	76
Thallium		mg/l	0.00196
Tin as SN		mg/l	<0.0008
Total Dissolved Solids (TDS)		mg/l	1400
Vanadium		mg/l	0.0017
Zinc		mg/l	0.857
Pesticides & Herbicides			
2,4,5-T		ug/l	<0.11
2,4,5-TP (Silvex)		ug/l	<0.11
2,4-D	10	ug/l	<0.12
4,4-DDD		ug/l	<0.0004
4,4-DDE		ug/l	<0.002
4,4-DDT		ug/l	<0.002
A-BHC		ug/l	0.01
Aldrin		ug/l	<0.002
B-BHC		ug/l	<0.002
Chlordane	30	ug/l	<0.01
D-BHC		ug/l	0.24
Dieldrin		ug/l	<0.0008
Dinoseb		ug/l	<0.23
Endosulfan Sulfate		ug/l	0.01
Endosulfan-I		ug/l	<0.002
Endosulfan-II		ug/l	0.03
Endrin	20	ug/l	<0.002
Endrin Aldehyde		ug/l	<0.009
G-BHC(Lindane)	400	ug/l	<0.002
Heptachlor	8	ug/l	<0.001
Heptachlor Epoxide		ug/l	<0.001
Methoxychlor	10,000	ug/l	0.08
Pentachlorophenol	100,000	ug/l	<0.13
Toxaphene	500	ug/l	<0.05
PCBs			
PCB-1016		ug/l	<0.042
PCB-1221		ug/l	<0.53
PCB-1232		ug/l	<0.58
PCB-1248		ug/l	<0.30
PCB-1254		ug/l	<0.28
PCB-1260		ug/l	<0.4

Analyte	Location:		M-9
	Sample Identifier:		M-9
	Date of Test:	06/21/07	
Standard(1)	Units		
Organics, Acid Extractables			
2,4,6-Trichlorophenol	2,000	ug/l	<6.1
2,3,4,6-Tetrachlorophenol		ug/l	<3
2,4,5-Trichlorophenol	400,000	ug/l	<3
2,4-Dichlorophenol		ug/l	<5.8
2,4-Dimethylphenol		ug/l	<5.2
2,4-Dinitrophenol		ug/l	<5.7
2,6-Dichlorophenol		ug/l	<3
2-Chlorophenol		ug/l	<5.7
2-Methylphenol		ug/l	<2.4
2-Nitrophenol		ug/l	<6.1
3,4 Methylphenol		ug/l	<4.7
4,6-Dinitro-2-methylphenol		ug/l	<7.2
4-Chloro-3-methylphenol		ug/l	<6.3
4-Nitrophenol		ug/l	<2.6
Pentachlorophenol	100,000	ug/l	<1.5
Phenol		ug/l	<2.6
Base Neutrals			
1,2,4,5-Tetrachlorobenzene		ug/l	<2.3
1,3,5-Trinitrobenzene		ug/l	<4
1,3-Dinitrobenzene		ug/l	<3.1
1,4-Naphthoquinone		ug/l	<3.2
1,4-Phenylenediamine		ug/l	<7.3
1-Naphthylamine		ug/l	<3.5
2,4-Dinitrotoluene	130	ug/l	<0.012
2,6-Dinitrotoluene		ug/l	<2.8
2-Acetylaminofluorene		ug/l	<3.2
2-Chloronaphthalene		ug/l	<2.8
2-Chlorophenol		ug/l	<5.7
2-Methylnaphthalene		ug/l	<2.5
2-Naphthylamine		ug/l	<3.6
2-Nitroaniline		ug/l	<3.7
3,3-Dichlorobenzidine		ug/l	<3.2
3,3-Dimethylbenzidine		ug/l	<2.2
3-Methylcholanthrene		ug/l	<2.7
3-Nitroaniline		ug/l	<3.3
4-Aminobiphenyl		ug/l	<3.2
4-Bromophenyl-phenylether		ug/l	<2.8
4-Chloroaniline		ug/l	<3.0
4-Chlorophenylphenylether		ug/l	<2.8
4-Nitronaline		ug/l	<3.3
5-Nitro-o-toluidine		ug/l	<2.8
7,12-Dimethylbenz(a)anthracene		ug/l	<2.3
Acenaphthene		ug/l	<3.
Acenaphthylene		ug/l	<0.023
Acetophenone		ug/l	<3.3
Anthracene		ug/l	<0.021
Benzo(a)anthracene		ug/l	<0.025
Benzo(a)pyrene		ug/l	<0.019
Benzo(b)flouranthene		ug/l	<0.021
Benzo(g,h,i)perylene		ug/l	<0.071
Benzo(k)flouranthene		ug/l	<0.02
Benzyl alcohol		ug/l	<2.8
Bis(2-chloroethoxy)methane		ug/l	<2.8
Bis(2-chloroethyl)ether		ug/l	<2.9
Bis(2-chloro-1-methylethyl)ether		ug/l	<3
Bis(2-ethylhexyl)phthalate		ug/l	<3.4
Butylbenzylphthalate		ug/l	<3.6
Chlorobenzilate		ug/l	<0.015
Chrysene		ug/l	<0.024
Diallate		ug/l	<0.021

Analyte	Location:		M-9
	Sample Identifier:		M-9
	Date of Test:		06/21/07
Standard(1)	Units		
Dibenz(a,h)anthracene	ug/l		<0.078
Dibenzofuran	ug/l		<3.1
Diethylphthalate	ug/l		<2.7
Dimethoate	ug/l		<3
Dimethylphthalate	ug/l		<0.019
Di-N-butylphthalate	ug/l		<3
Di-N-octylphthalate	ug/l		<3.6
Disulfoton	ug/l		<0.042
Ethylmethanesulfonate	ug/l		<3
Famphur	ug/l		<2.8
Flouranthene	ug/l		<0.024
Flourene	ug/l		<2.9
Hexachlorobenzene	130	ug/l	<0.027
Hexachlorobutadiene	500	ug/l	<0.025
Hexachlorocyclopentadiene		ug/l	<1.6
Hexachloroethane	3,000	ug/l	<2.1
Hexylchloropropene		ug/l	<1.8
Indeno(1,2,3-cd)pyrene		ug/l	<0.062
Isodrin		ug/l	<2.7
Isophorone		ug/l	<2.9
Isosafrole		ug/l	<3.1
Kepone		ug/l	<3.5
Methapyrilene		ug/l	<9.3
Methyl parathion		ug/l	<0.014
Methylmethanesulfonate		ug/l	<2.3
Nitrobenzene	2,000	ug/l	<2.7
N-Nitrosodiethylamine		ug/l	<2.9
N-Nitrosodimethylamine		ug/l	<1.8
N-Nitrosodi-n-butylamine		ug/l	<2.9
N-Nitroso-di-n-propylamine		ug/l	<3.4
N-Nitrosodiphenylamine		ug/l	<3.5
N-Nitrosoethylmethylamine		ug/l	<2.9
N-Nitrosopiperidine		ug/l	<2.9
N-Nitrosopyrrolidine		ug/l	<2.9
0,0,0-Triethylphosphorothioate		ug/l	<2.7
Ortho-toluidine		ug/l	<2.8
Parathion		ug/l	<0.017
P-Dimethylaminoazobenzene		ug/l	<2.9
Pentachlorobenzene		ug/l	<2.5
Pentachloronitrobenzene		ug/l	<0.019
Phenacetin		ug/l	<32.
Phenanathrene		ug/l	<0.029
Phorate		ug/l	<0.029
Pronamide		ug/l	<2.7
Pyrene		ug/l	<0.024
Safrole		ug/l	<2.7
Thionazin		ug/l	<2.8
Volatile Organics			
1,1,1,2-Tetrachloroethane		ug/l	<0.1
1,1,1-Trichloroethane		ug/l	<0.3
1,1,2,2-Tetrachloroethane		ug/l	<0.2
1,1,2-Trichloroethane		ug/l	<0.3
1,1-Dichloroethane		ug/l	<0.2
1,1-Dichloroethene	700	ug/l	<0.2
1,2,3-Trichloropropane		ug/l	<0.3
1,2-Dichlorobenzene		ug/l	<0.2
1,2-Dichloroethane	500	ug/l	<0.1
1,2-Dichloropropane		ug/l	<0.4
1,4-Dichlorobenzene	7,500	ug/l	0.72
2-Butanone		ug/l	<2
2-Hexanone		ug/l	<0.6

Analyte	Location:		M-9
	Sample Identifier:		M-9
	Standard(1)	Date of Test:	06/21/07
		Units	
4-Methyl-2-pentanone		ug/l	<2
Acetone		ug/l	2.5
Acrylonitrile		ug/l	<0.4
Benzene	500	ug/l	0.47
Bromoform		ug/l	<0.2
Bromomethane		ug/l	<0.6
Carbon disulfide		ug/l	1.3
Carbon tetrachloride	500	ug/l	<0.3
Chlorobenzene	100,000	ug/l	1.5
Chloroform	6,000	ug/l	<0.2
Chloromethane		ug/l	<0.3
cis-1,2-Dichloroethene		ug/l	<0.2
cis-1,3-Dichloropropene		ug/l	<0.1
Dibromochloromethane		ug/l	<0.2
Dibromomethane		ug/l	<0.3
Ethylbenzene		ug/l	0.4
Iodomethane		ug/l	<1
Methylene chloride		ug/l	<2
Styrene		ug/l	<0.1
Tetrachloroethene	700	ug/l	<0.3
Toluene		ug/l	0.37
Total Xylenes		ug/l	<0.5
trans-1,2-Dichloroethene		ug/l	<0.2
trans-1,3-Dichloropropene		ug/l	<0.4
Trichloroethene	500	ug/l	<0.3
Trichlorofluoromethane		ug/l	<0.3
Vinyl acetate		ug/l	<2
Vinyl chloride	200	ug/l	<0.4

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter.

FIGURES

NORTH
SCALE: 1' - 300'

U:\SO\Oldg\HAZARD\Hardee County\Water Quality Monitoring Program\First Half 2007\FIGURE - 1.dwg Jul 12, 2007 - 4:37pm

LEGEND:

EXIST. MONITORING WELL
WITH WATER TABLE
ELEVATION (FTNGVD)
IN PARENTHESIS

GROUNDWATER ELEVATION
CONTOUR

INFERRED DIRECTION
OF GROUNDWATER FLOW

PROPERTY LINE
FENCE

MW-4

CLOSED C/D
DISPOSAL AREA

-78-

MW-7
(NM)

MW-3
(NM)

MW-8
(76.91)

MW-5
(77.94)

MW-1
(NM)

MW-6
(NM)

SW-2
(NM)

Dewatering Ditch

CLASS I DISPOSAL AREA

78

77

MW-2
(77.74)

PROPERTY BOUNDARY

MW-4
(NM)

SCALE

LANDFILL
ENTRANCE

ENTRANCE GATE

FENCE

FT - NGVD - FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

NM - NOT MEASURED

PBSJ

POST,
BUCKLEY,
SCHUH &
JERNIGAN, INC.

HARDEE COUNTY
LANDFILL

GROUNDWATER ELEVATION
CONTOUR MAP
FIRST HALF 2007

FIGURE 1



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Park Dr.
Orlando, FL 32834
(407) 226-5314 Fax (407) 255-6345

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-4069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-5846

Page ____ of ____

Client Name PBSJ		Project Number				Requested Analyses		Requested Turnaround Times																					
Address 482 S. KELLER RD		Project Name/Desc HARDEE CO.						Note: Rush requests subject to acceptance by the facility																					
City/State ORLANDO, FL 32810		PO # / Billing Info						<input type="checkbox"/> Standard																					
Tel 407-647-7275		Reporting Contact GREG MUDD						<input type="checkbox"/> Expedited																					
Sample(s) Name, Address (Print) JASON BRANCAMP / PBSJ		Billing Contact GREG MUDD						Due 1/1																					
Signature JKR/BP		Facility # (if required)						Lab Workorder																					
<table border="1"> <tr> <td>8011</td> <td>8240 B</td> <td>AS, As, Ba, Cl, Cd, Cr, Hg, Nitrate, Pb, Se, TDS</td> <td>Ammonia</td> <td>As, As, Ba, Cd, Co, Cu, Ge, Hg, Hg, Ni, Pb, Se, Tl, U, Zn</td> <td>Sulfide</td> <td>ALK, Bicarbonate, Sulfate, Na, TDS, Chloride, Nitrate</td> <td>Chloride Total, COD, 8081A, 8082, 8151A, 82210</td> <td>ND</td> <td></td> </tr> <tr> <td colspan="10">Preservation (See Code) <input type="checkbox"/> Combine as necessary</td> </tr> </table>										8011	8240 B	AS, As, Ba, Cl, Cd, Cr, Hg, Nitrate, Pb, Se, TDS	Ammonia	As, As, Ba, Cd, Co, Cu, Ge, Hg, Hg, Ni, Pb, Se, Tl, U, Zn	Sulfide	ALK, Bicarbonate, Sulfate, Na, TDS, Chloride, Nitrate	Chloride Total, COD, 8081A, 8082, 8151A, 82210	ND		Preservation (See Code) <input type="checkbox"/> Combine as necessary									
8011	8240 B	AS, As, Ba, Cl, Cd, Cr, Hg, Nitrate, Pb, Se, TDS	Ammonia	As, As, Ba, Cd, Co, Cu, Ge, Hg, Hg, Ni, Pb, Se, Tl, U, Zn	Sulfide	ALK, Bicarbonate, Sulfate, Na, TDS, Chloride, Nitrate	Chloride Total, COD, 8081A, 8082, 8151A, 82210	ND																					
Preservation (See Code) <input type="checkbox"/> Combine as necessary																													
Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Contm / Grab	Matrix (see codes)	Total # of Containers	- H	- S N D	- ND	Sample Comments																			
1	MW-10	6-22-07	1030	GRAB	GW	6	2 3	1 1 1																					
2	M-9	6-22-07	1110	GRAB	OT	13	2 3	1 1 1 1 1 3																					
3	SW-2				NOT SAMPLED - DRY																								
<- Total # of Containers																													

Sample Kit Prepared By	Date/Time	Received By	Date/Time
JKR/BP	6-22-07 14:13	J. f.	6-22-07 14:13
Comments			
*M-9 LECHATE SAMPLE FROM MANHOLE PRESERVED w/ ZnAcet+NaOH			
Relinquished By	Date/Time	Received By	Date/Time
Cooler #s & Temps on Receipt	Condition Upon Receipt		
1B-1562	<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable		

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

Preservative: Hg-HgCl2 H-HNO3 S-H2SO4 ND-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, Inc.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



www.encolabs.com

Tuesday, July 10, 2007

PBS&J (PB003)

Attn: Greg Mudd

482 South Keller Road

Orlando, FL 32810

**RE: Project Number: [none], Project Name/Desc: Hardee Co.
ENCO Workorder: A703498**

Dear Greg Mudd,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, June 22, 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,

A handwritten signature in black ink, appearing to read "Ronald Wambles".

Ronald Wambles
Project Manager

Enclosure(s)

SAMPLE DETECTION SUMMARY

Client ID: MW-10

Analyte	Results/Qual	MRL	Units	Method
Ammonia as N	0.036	0.020	mg/L	EPA 350.1
Arsenic	8.59 I	10.0	ug/L	EPA 6020
Barium	689	100	ug/L	EPA 6020
Beryllium	2.02	1.00	ug/L	EPA 6020
Carbon disulfide	1.5 I	5.0	ug/L	EPA 8260B
Chloride	7.4	1.0	mg/L	EPA 300.0
Chromium	48.4	10.0	ug/L	EPA 6020
Cobalt	3.31 I	10.0	ug/L	EPA 6020
Copper	6.53 I	10.0	ug/L	EPA 6020
Lead	25.9	5.00	ug/L	EPA 6020
Mercury	0.085 I	0.20	ug/L	EPA 7470A
Nickel	5.13 I	10.0	ug/L	EPA 6020
Nitrate as N	0.048 I	0.050	mg/L	EPA 300.0
Selenium	2.59 I	10.0	ug/L	EPA 6020
Sodium	8630	1000	ug/L	EPA 6020
Toluene	0.25 I	1.0	ug/L	EPA 8260B
Total Dissolved Solids	160	10	mg/L	EPA 160.1
Vanadium	41.8	10.0	ug/L	EPA 6020
Zinc	17.0 I	50.0	ug/L	EPA 6020

Client ID: MW-10

Analyte	Results/Qual	MRL	Units	Method
Iron	16500 D	500	ug/L	EPA 6020

Client ID: MW-9 (MANHOLE 9)

Analyte	Results/Qual	MRL	Units	Method
1,4-Dichlorobenzene	0.72 I	1.0	ug/L	EPA 8260B
Acetone	2.5 I	5.0	ug/L	EPA 8260B
alpha-BHC	0.01 I	0.05	ug/L	EPA 8081A
Ammonia as N	76 D	1.0	mg/L	EPA 350.1
Arsenic	4.78 I	10.0	ug/L	EPA 6020
Barium	67.3 I	100	ug/L	EPA 6020
Benzene	0.47 I	1.0	ug/L	EPA 8260B
Bicarbonate as CaCO ₃	1100 D	100	mg/L	SM 4500
Carbon disulfide	1.3 I	5.0	ug/L	EPA 8260B
Chloride	290 D	2.0	mg/L	EPA 300.0
Chlorobenzene	1.5	1.0	ug/L	EPA 8260B
Chromium	9.79 I	10.0	ug/L	EPA 6020
Cobalt	3.98 I	10.0	ug/L	EPA 6020
Copper	0.697 I	10.0	ug/L	EPA 6020
delta-BHC	0.24	0.05	ug/L	EPA 8081A
Endosulfan II	0.03 I	0.05	ug/L	EPA 8081A

Client ID: MW-9 (MANHOLE 9)

Analyte	Results/Qual	MRL	Units	Method
Endosulfan sulfate [2C]	0.01 I	0.05	ug/L	EPA 8081A
Ethylbenzene	0.40 I	1.0	ug/L	EPA 8260B
Lead	0.433 I	5.00	ug/L	EPA 6020
Methoxychlor	0.08	0.05	ug/L	EPA 8081A
Nickel	19.2	10.0	ug/L	EPA 6020
Nitrate as N	0.066 I, D	0.10	mg/L	EPA 300.0
Thallium	1.96	1.00	ug/L	EPA 6020
Toluene	0.37 I	1.0	ug/L	EPA 8260B
Total Alkalinity	1100 D	100	mg/L	EPA 310.2
Total Dissolved Solids	1400	10	mg/L	EPA 160.1
Vanadium	16.8	10.0	ug/L	EPA 6020
Zinc	857	50.0	ug/L	EPA 6020

Client ID: MW-9

Lab ID: A703498-02RE1

Analyte	Results/Qual	MRL	Units	Method
Iron	21400 D	1000	ug/L	EPA 6020
Sodium	264000 D	20000	ug/L	EPA 6020

Client ID: MW-9 (MANHOLE^a)

Lab ID: A703498-02

Sampled: 06/22/07 11:10

Received: 06/22/07 14:33

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	06/29/07	06/27/07 13:30	6/28/2007 16:20
EPA 300.0	06/24/07 11:10	06/22/07 14:05	6/22/2007 21:07
EPA 300.0	07/20/07	06/22/07 14:05	6/22/2007 21:07
EPA 310.2	07/06/07	06/29/07 11:42	6/29/2007 14:28
EPA 350.1	07/20/07	06/26/07 13:43	6/26/2007 15:32
EPA 376.1	06/29/07	06/28/07 15:26	6/28/2007 16:40
EPA 6020	12/19/07	07/02/07 11:15	7/6/2007 18:15
EPA 7470A	07/20/07	06/28/07 10:31	6/29/2007 10:16
EPA 8011	07/06/07 07/04/07 00:00	07/03/07 14:24	7/3/2007 20:06
EPA 8081A	06/29/07 08/01/07	06/28/07 10:21	6/29/2007 18:07
EPA 8082	06/29/07 08/01/07	06/28/07 10:21	6/29/2007 18:07
EPA 8260B	07/06/07	06/27/07 09:00	6/30/2007 06:58
EPA 8270C	06/29/07 08/08/07	06/29/07 09:51	7/5/2007 16:33
EPA 9014	07/06/07	06/26/07 09:39	6/26/2007 17:11
SM 4500	07/06/07	06/29/07 11:42	6/29/2007 14:28

Client ID: MW-9

Lab ID: A703498-02RE

Sampled: 06/22/07 11:10

Received: 06/22/07 14:33

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6020	12/19/07	07/02/07 11:15	7/9/2007 20:44
EPA 8151A	06/29/07 08/01/07	06/22/07 17:00	6/27/2007 13:18

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE^a)
 Lab #: A703498-02
 Prep. Method: EPA 3510C_MS
 Analyzed: 07/05/07 By: JFI
 Anal. Method: EPA 8270C
 Anal. Batch: AA01147
 QC Batch: 7F29004

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (LEACHATE)
 Unit: ug/L
 Dilution Factor: 1

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2,4,5-Tetrachlorobenzene	95-94-3	2.3 U	2.3	10	ug/L
1,3,5-Trinitrobenzene	99-35-4	4.0 U	4.0	10	ug/L
1,3-Dinitrobenzene	99-65-0	3.1 U	3.1	10	ug/L
1,4-Naphthoquinone	130-15-4	3.2 U	3.2	10	ug/L
1,4-Phenylenediamine	106-50-3	7.3 U	7.3	10	ug/L
1-Naphthylamine	134-32-7	3.5 U	3.5	10	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	3.0 U	3.0	10	ug/L
2,4,5-Trichlorophenol	95-95-4	3.0 U	3.0	10	ug/L
2,4,6-Trichlorophenol	88-06-2	6.1 U	6.1	10	ug/L
2,4-Dichlorophenol	120-83-2	5.8 U	5.8	10	ug/L
2,4-Dimethylphenol	105-67-9	5.2 U	5.2	10	ug/L
2,4-Dinitrophenol	51-28-5	5.7 U	5.7	10	ug/L
2,4-Dinitrotoluene [SIM]	121-14-2	0.012 U	0.012	0.10	ug/L
2,6-Dichlorophenol	87-65-0	3.0 U	3.0	10	ug/L
2,6-Dinitrotoluene	606-20-2	2.8 U	2.8	10	ug/L
2-Acetylaminofluorene	53-96-3	3.2 U	3.2	10	ug/L
2-Chloronaphthalene	91-58-7	2.8 U	2.8	10	ug/L
2-Chlorophenol	95-57-8	5.7 U	5.7	10	ug/L
2-Methyl-4,6-dinitrophenol	534-52-1	7.2 U	7.2	10	ug/L
2-Methylnaphthalene	91-57-6	2.5 U	2.5	10	ug/L
2-Methylphenol	95-48-7	2.4 U	2.4	10	ug/L
2-Naphthylamine	91-59-8	3.6 U	3.6	10	ug/L
2-Nitroaniline	88-74-4	3.7 U	3.7	10	ug/L
2-Nitrophenol	88-75-5	6.1 U	6.1	10	ug/L
3 & 4-Methylphenol	106-44-5	4.7 U	4.7	10	ug/L
3,3'-Dichlorobenzidine	91-94-1	3.2 U	3.2	10	ug/L
3,3'-Dimethylbenzidine	119-93-7	2.2 U	2.2	10	ug/L
3-Methylcholanthrene	56-49-5	2.7 U	2.7	10	ug/L
3-Nitroaniline	99-09-2	3.3 U	3.3	10	ug/L
4-Aminobiphenyl	92-67-1	3.2 U	3.2	10	ug/L
4-Bromophenyl-phenylether	101-55-3	2.8 U	2.8	10	ug/L
4-Chloro-3-methylphenol	59-50-7	6.3 U	6.3	10	ug/L
4-Chloroaniline	106-47-8	3.0 U	3.0	10	ug/L
4-Chlorophenyl-phenylether	7005-72-3	2.8 U	2.8	10	ug/L
4-Nitroaniline	100-01-6	3.3 U	3.3	10	ug/L
4-Nitrophenol	100-02-7	2.6 U	2.6	10	ug/L

ANALYTICAL REPORT

Sample ID: MW-9 (*MANTHOLE 9*)
 Lab #: A703498-02
 Prep. Method: EPA 3510C_MS
 Analyzed: 07/05/07 By: JFI
 Anal. Method: EPA 8270C
 Anal. Batch: AA01147
 QC Batch: 7F29004

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (*LIQUIDATE*)
 Unit: ug/L
 Dilution Factor: 1

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
5-Nitro-o-toluidine	99-55-8	2.8 U	2.8	10	ug/L
7,12-Dimethylbenz(a)anthracene	57-97-6	2.3 U	2.3	10	ug/L
Acenaphthene	83-32-9	3.0 U	3.0	10	ug/L
Acenaphthylene [SIM]	208-96-8	0.023 U	0.023	0.10	ug/L
Acetophenone	98-86-2	3.3 U	3.3	10	ug/L
Anthracene [SIM]	120-12-7	0.021 U	0.021	0.10	ug/L
Benzo(a)anthracene [SIM]	56-55-3	0.025 U	0.025	0.10	ug/L
Benzo(a)pyrene [SIM]	50-32-8	0.019 U	0.019	0.10	ug/L
Benzo(b)fluoranthene [SIM]	205-99-2	0.021 U	0.021	0.10	ug/L
Benzo(g,h,i)perylene [SIM]	191-24-2	0.071 U	0.071	0.10	ug/L
Benzo(k)fluoranthene [SIM]	207-08-9	0.020 U	0.020	0.10	ug/L
Benzyl alcohol	100-51-6	2.8 U	2.8	10	ug/L
Bis(2-chloroethoxy)methane	111-91-1	2.8 U	2.8	10	ug/L
Bis(2-chloroethyl)ether	111-44-4	2.9 U	2.9	10	ug/L
Bis(2-chloroisopropyl)ether	39638-32-9	3.0 U	3.0	10	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	3.4 U	3.4	10	ug/L
Butylbenzylphthalate	85-68-7	3.6 U	3.6	10	ug/L
Chlorobenzilate [SIM]	510-15-6	0.015 U	0.015	0.10	ug/L
Chrysene [SIM]	218-01-9	0.024 U	0.024	0.10	ug/L
Diallate [SIM]	2303-16-4	0.021 U	0.021	0.10	ug/L
Dibenzo(a,h)anthracene [SIM]	53-70-3	0.078 U	0.078	0.10	ug/L
Dibenzofuran	132-64-9	3.1 U	3.1	10	ug/L
Diethylphthalate	84-66-2	2.7 U	2.7	10	ug/L
Dimethoate [SIM]	60-51-5	0.019 U	0.019	0.10	ug/L
Dimethylphthalate	131-11-3	3.7 U	3.7	10	ug/L
Di-n-butylphthalate	84-74-2	3.0 U	3.0	10	ug/L
Di-n-octylphthalate	117-84-0	3.6 U	3.6	10	ug/L
Disulfoton [SIM]	298-04-4	0.042 U	0.042	0.10	ug/L
Ethyl methanesulfonate	62-50-0	3.0 U	3.0	10	ug/L
Famphur	52-85-7	2.8 U	2.8	10	ug/L
Fluoranthene [SIM]	206-44-0	0.024 U	0.024	0.10	ug/L
Fluorene	186-73-7	2.9 U	2.9	10	ug/L
Hexachlorobenzene [SIM]	118-74-1	0.027 U	0.027	0.10	ug/L
Hexachlorobutadiene [SIM]	87-68-3	0.025 U	0.025	0.10	ug/L
Hexachlorocyclopentadiene	77-47-4	1.6 U	1.6	10	ug/L
Hexachloroethane	67-72-1	2.1 U	2.1	10	ug/L

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
 Lab #: A703498-02
 Prep. Method: EPA 3510C_MS
 Analyzed: 07/05/07 By: JFI
 Anal. Method: EPA 8270C
 Anal. Batch: AA01147
 QC Batch: 7F29004

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (LEACHATE)
 Unit: ug/L
 Dilution Factor: 1

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Hexachloropropene	1888-71-7	1.8 U	1.8	10	ug/L
Indeno(1,2,3-cd)pyrene [SIM]	193-39-5	0.062 U	0.062	0.10	ug/L
Isodrin	465-73-6	2.7 U	2.7	10	ug/L
Isophorone	78-59-1	2.9 U	2.9	10	ug/L
Isosafrole	120-58-1	3.1 U	3.1	10	ug/L
Kepone [SIM]	143-50-0	3.5 U	3.5	5.0	ug/L
Methapyrilene	91-80-5	9.3 U	9.3	10	ug/L
Methyl Methanesulfonate	66-27-3	2.3 U	2.3	10	ug/L
Methyl Parathion [SIM]	298-00-0	0.014 U	0.014	0.10	ug/L
Nitrobenzene	98-95-3	2.7 U	2.7	10	ug/L
N-Nitrosodiethylamine	55-18-5	2.9 U	2.9	10	ug/L
N-Nitrosodimethylamine	62-75-9	1.8 U	1.8	10	ug/L
N-Nitrosodi-n-butylamine	924-16-3	2.9 U	2.9	10	ug/L
N-Nitroso-di-n-propylamine	621-64-7	3.4 U	3.4	10	ug/L
N-nitrosodiphenylamine/Diphenylamine	86-30-6/122-39-4	3.5 U	3.5	10	ug/L
N-Nitrosomethylethylamine	10595-95-6	2.9 U	2.9	10	ug/L
N-Nitrosopiperidine	100-75-4	2.9 U	2.9	10	ug/L
N-Nitrosopyrrolidine	930-55-2	2.9 U	2.9	10	ug/L
O,O,O-Triethyl phosphorothioate	126-68-1	2.7 U	2.7	10	ug/L
o-Toluidine	95-53-4	2.8 U	2.8	10	ug/L
Parathion [SIM]	56-38-2	0.017 U	0.017	0.10	ug/L
p-Dimethylaminoazobenzene	60-11-7	2.9 U	2.9	10	ug/L
Pentachlorobenzene	608-93-5	2.5 U	2.5	10	ug/L
Pentachloronitrobenzene [SIM]	82-68-8	0.019 U	0.019	0.10	ug/L
Phenacetin	62-44-2	3.2 U	3.2	10	ug/L
Phenanthrene [SIM]	85-01-8	0.029 U	0.029	0.10	ug/L
Phenol	108-95-2	2.6 U	2.6	10	ug/L
Phorate [SIM]	298-02-2	0.029 U	0.029	0.10	ug/L
Pronamide	23950-58-5	2.7 U	2.7	10	ug/L
Pyrene [SIM]	129-00-0	0.024 U	0.024	0.10	ug/L
Safrole	94-59-7	2.7 U	2.7	10	ug/L
Tluonazin	297-97-2	2.8 U	2.8	10	ug/L
Surrogate Recovery					
2,4,6-Tribromophenol	118-79-6	98	100	98 %	35-133
2-Fluorobiphenyl	321-60-8	78	100	78 %	37-124

ANALYTICAL REPORT

Sample ID: MW-9 (*MATHOLE 9*)
 Lab #: A703498-02
 Prep. Method: EPA 3510C_MS
 Analyzed: 07/05/07 By: JFI
 Anal. Method: EPA 8270C
 Anal. Batch: AA01147
 QC Batch: 7F29004

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (*LEACHATE*)
 Unit: ug/L
 Dilution Factor: 1

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Surrogate Recovery					
2-Fluorophenol	367-12-4	Result	Spike Level	% Recovery	% Recovery Limits
Nitrobenzene-d5	4165-60-0	58	100	58 %	37-124
Phenol-d5	4165-62-2	88	100	88 %	41-114
Terphenyl-d14	NA	41	100	41 %	13-51
		85	100	85 %	66-129

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
 Lab #: A703498-02
 Prep. Method: EPA 504/8011
 Analyzed: 07/03/07 By: RG
 Anal. Method: EPA 8011
 Anal. Batch: AA01136
 QC Batch: 7G03017

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (LEACHATE)
 Unit: ug/L
 Dilution Factor: 1

Semivolatile Organic Compounds by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,2-Dibromo-3-chloropropane	96-12-8	0.008 U	0.008	0.020	ug/L
1,2-Dibromoethane	106-93-4	0.010 U	0.010	0.020	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
1,3-Dichlorobenzene	541-73-1	0.15	0.250	59 %	83-150

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
 Lab #: A703498-02

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (LEACHATE)

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
		Conc.	Unit						
Antimony	7440-36-0	0.760	U	0.760	5.00	ug/L	EPA 6020	EPA 3005A	7F29020
Arsenic	7440-38-2	4.78	I	0.980	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Barium	7440-39-3	67.3	I	1.30	100	ug/L	EPA 6020	EPA 3005A	7F29020
Beryllium	7440-41-7	0.810	U	0.810	1.00	ug/L	EPA 6020	EPA 3005A	7F29020
Cadmium	7440-43-9	0.300	U	0.300	3.00	ug/L	EPA 6020	EPA 3005A	7F29020
Chromium	7440-47-3	9.79	I	1.20	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Cobalt	7440-48-4	3.98	I	0.260	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Copper	7440-50-8	0.697	I	0.630	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Lead	7439-92-1	0.433	I	0.170	5.00	ug/L	EPA 6020	EPA 3005A	7F29020
Mercury	7439-97-6	0.0092	U	0.0092	0.20	ug/L	EPA 7470A	EPA 7470A	7F22021
Nickel	7440-02-0	19.2		0.470	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Selenium	7782-49-2	1.70	U	1.70	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Silver	7440-22-4	0.200	U	0.200	1.00	ug/L	EPA 6020	EPA 3005A	7F29020
Thallium	7440-28-0	1.96		0.290	1.00	ug/L	EPA 6020	EPA 3005A	7F29020
Tin	7440-31-5	0.800	U	0.800	50.0	ug/L	EPA 6020	EPA 3005A	7F29020
Vanadium	7440-62-2	16.8		0.380	10.0	ug/L	EPA 6020	EPA 3005A	7F29020
Zinc	7440-66-6	857		1.90	50.0	ug/L	EPA 6020	EPA 3005A	7F29020

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
 Lab #: A703498-02

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (LOTATE)

Classical Chemistry Parameters

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Ammonia as N	7664-41-7	76 D	0.15	1.0	mg/L	EPA 350.1	NO PREP	7F26015
Bicarbonate as CaCO ₃		1100 D	24	100	mg/L	SM 4500	[CALC]	[CALC]
Chloride	16887-00-6	290 D	0.10	2.0	mg/L	EPA 300.0	NA	7F22015
Cyanide (total)	57-12-5	0.0058 U	0.0058	0.010	mg/L	EPA 9014	NO PREP	7F26001
Nitrate as N	14797-55-8	0.066 I, D	0.016	0.10	mg/L	EPA 300.0	NA	7F22015
Sulfide	18496-25-8	0.45 U	0.45	1.0	mg/L	EPA 376.1	NO PREP	7F28016
Total Alkalinity	NA	1100 D	24	100	mg/L	EPA 310.2	NO PREP	7F29009
Total Dissolved Solids	NA	1400	10	10	mg/L	EPA 160.1	NO PREP	7F27002

ANALYTICAL REPORT

Sample ID:	MW-9	(MANHOLE 9)	Project:	Hardee Co.
Lab #:	A703498-02		Work Order #:	A703498
Prep. Method:	EPA 5030B_MS		Matrix:	Ground Water
Analyzed:	06/30/07	By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B		Dilution Factor:	1
Anal. Batch:	BA00905			
QC Batch:	7F28010			

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	0.30	ug/L
1,1,1-Trichloroethane	71-55-6	0.30 U	0.30	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	0.20	ug/L
1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.20 U	0.20	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.20 U	0.20	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.30 U	0.30	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.20 U	0.20	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.10 U	0.10	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.40 U	0.40	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.72 I	0.10	1.0	ug/L
2-Butanone	78-93-3	2.0 U	2.0	5.0	ug/L
2-Hexanone	591-78-6	0.60 U	0.60	5.0	ug/L
4-Methyl-2-pentanone	108-10-1	2.0 U	2.0	5.0	ug/L
Acetone	67-64-1	2.5 I	2.0	5.0	ug/L
Acrylonitrile	107-13-1	0.40 U	0.40	1.0	ug/L
Benzene	71-43-2	0.47 I	0.20	1.0	ug/L
Bromochloromethane	74-97-5	0.30 U	0.30	1.0	ug/L
Bromodichloromethane	75-27-4	0.20 U	0.20	0.40	ug/L
Bromoform	75-25-2	0.20 U	0.20	1.0	ug/L
Bromomethane	74-83-9	0.60 U	0.60	1.0	ug/L
Carbon disulfide	75-15-0	1.3 I	0.90	5.0	ug/L
Carbon tetrachloride	56-23-5	0.30 U	0.30	1.0	ug/L
Chlorobenzene	108-90-7	1.5	0.20	1.0	ug/L
Chloroethane	75-00-3	0.30 U	0.30	1.0	ug/L
Chloroform	67-66-3	0.20 U	0.20	1.0	ug/L
Chloromethane	74-87-3	0.30 U	0.30	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.10 U	0.10	0.20	ug/L
Dibromochloromethane	124-48-1	0.20 U	0.20	0.20	ug/L
Dibromomethane	74-95-3	0.30 U	0.30	1.0	ug/L
Ethylbenzene	100-41-4	0.40 I	0.30	1.0	ug/L
Iodomethane	74-88-4	1.0 U	1.0	3.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.30 U	0.30	2.0	ug/L
Methylene chloride	75-09-2	2.0 U	2.0	2.0	ug/L
o-Xylene	95-47-6	0.20 U	0.20	1.0	ug/L

ANALYTICAL REPORT

Sample ID: MW-9 (*MANHOLE 9*)
 Lab #: A703498-02
 Prep. Method: EPA 5030B_MS
 Analyzed: 06/30/07 By: ds
 Anal. Method: EPA 8260B
 Anal. Batch: BA00905
 QC Batch: 7F28010

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (*LOCATE*)
 Unit: ug/L
 Dilution Factor: 1

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Styrene	100-42-5	0.10 U	0.10	1.0	ug/L
Tetrachloroethene	127-18-4	0.30 U	0.30	1.0	ug/L
Toluene	108-88-3	0.37 I	0.20	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.20 U	0.20	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	0.20	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	0.40 U	0.40	1.0	ug/L
Trichloroethene	79-01-6	0.30 U	0.30	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.30 U	0.30	1.0	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	5.0	ug/L
Vinyl chloride	75-01-4	0.40 U	0.40	1.0	ug/L
Xylenes (Total)	NA	0.30 U	0.30	1.0	ug/L
Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	50	50.0	100 %	60-130
Dibromofluoromethane	1868-53-7	53	50.0	105 %	66-131
Toluene-d8	2037-26-5	57	50.0	114 %	67-139

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
 Lab #: A703498-02
 Prep. Method: EPA 3510C
 Analyzed: 06/29/07 By: GGM
 Anal. Method: EPA 8081A
 Anal. Batch: BA00908
 QC Batch: 7F28007

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (LEACHATE)
 Unit: ug/L
 Dilution Factor: 1

Organochlorine Pesticides by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
4,4'-DDD	72-54-8	0.0004 U	0.0004	0.05	ug/L
4,4'-DDE	72-55-9	0.002 U	0.002	0.05	ug/L
4,4'-DDT	50-29-3	0.002 U	0.002	0.05	ug/L
Aldrin	309-00-2	0.002 U	0.002	0.05	ug/L
alpha-BHC	319-84-6	0.01 I	0.001	0.05	ug/L
beta-BHC	319-85-7	0.002 U	0.002	0.05	ug/L
Chlordane (tech)	57-74-9	0.01 U	0.01	1.0	ug/L
Chlordane-alpha	NA	0.001 U	0.001	0.05	ug/L
Chlordane-gamma	NA	0.001 U	0.001	0.05	ug/L
delta-BHC	319-86-8	0.24	0.001	0.05	ug/L
Dieldrin	60-57-1	0.0008 U	0.0008	0.05	ug/L
Endosulfan I	959-98-8	0.002 U	0.002	0.05	ug/L
Endosulfan II	33213-65-9	0.03 I	0.002	0.05	ug/L
Endosulfan sulfate [2C]	1031-07-8	0.01 I	0.002	0.05	ug/L
Endrin	72-20-8	0.002 U	0.002	0.05	ug/L
Endrin aldehyde	7421-93-4	0.009 U	0.009	0.05	ug/L
Endrin ketone	53494-70-5	0.003 U	0.003	0.05	ug/L
gamma-BHC	58-89-9	0.002 U	0.002	0.05	ug/L
Heptachlor	76-44-8	0.001 U	0.001	0.05	ug/L
Heptachlor epoxide	1024-57-3	0.001 U	0.001	0.05	ug/L
Methoxychlor	72-43-5	0.08	0.003	0.05	ug/L
Toxaphene	8001-35-2	0.05 U	0.05	1.0	ug/L
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Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.65	1.00	65 %	54-153
DBC	NA	0.75	1.00	75 %	55-152

ANALYTICAL REPORT

Sample ID:	MW-9 (MANHOLE 9)	Project:	Hardee Co.
Lab #:	A703498-02	Work Order #:	A703498
Prep. Method:	EPA 3510C	Matrix:	Ground Water (LACHATE)
Analyzed:	06/29/07 By: GGM	Unit:	ug/L
Anal. Method:	EPA 8082	Dilution Factor:	1
Anal. Batch:	BA00908		
QC Batch:	7F28007		

Polychlorinated Biphenyls by GC

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
PCB-1016/1242	12674-11-2/53469-21-	0.42 U	0.42	1.0	ug/L
PCB-1221	11104-28-2	0.53 U	0.53	1.0	ug/L
PCB-1232	11141-16-5	0.58 U	0.58	1.0	ug/L
PCB-1248	12672-29-6	0.30 U	0.30	1.0	ug/L
PCB-1254	11097-69-1	0.28 U	0.28	1.0	ug/L
PCB-1260	11096-82-5	0.40 U	0.40	1.0	ug/L
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Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4,5,6-TCMX	877-09-8	0.94	1.00	94 %	54-153
DBC	NA	1.4	1.00	136 %	55-152

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
 Lab #: A703498-02RE1
 Prep. Method: EPA 3510C
 Analyzed: 06/27/07 By: RC
 Anal. Method: EPA 8151A
 Anal. Batch: AA01094
 QC Batch: 7F21006

Project: Hardee Co.
 Work Order #: A703498
 Matrix: Ground Water (WATER)
 Unit: ug/L
 Dilution Factor: 1

Chlorinated Herbicides by GC

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

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
2,4-DCAA	94-75-7	1.8	2.00	89 %	77-191

ANALYTICAL REPORT

Sample ID: MW-9 (MANHOLE 9)
Lab #: A703498-02RE1

Project: Hardee Co.
Work Order #: A703498
Matrix: Ground Water (WATER)

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results	MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Iron	7439-89-6	21400 D	134	1000	ug/L	EPA 6020	EPA 3005A	7F29020
Sodium	7440-23-5	264000 D	320	20000	ug/L	EPA 6020	EPA 3005A	7F29020

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Volatile Organic Compounds by GCMS - Quality Control
Batch 7F28010 - EPA 5030B_MS
Blank (7F28010-BLK1)

Prepared: 06/27/2007 09:00 Analyzed: 06/29/2007 14:41

Chloromethane	0.30 U	1.0	ug/L
Vinyl chloride	0.40 U	1.0	ug/L
Bromomethane	1.8	1.0	ug/L
Chloroethane	0.30 U	1.0	ug/L
Trichlorofluoromethane	0.30 U	1.0	ug/L
1,1-Dichloroethene	0.20 U	1.0	ug/L
Acetone	2.0 U	5.0	ug/L
Iodomethane	1.0 U	3.0	ug/L
Carbon disulfide	3.1 1	5.0	ug/L
Methylene chloride	2.0 U	2.0	ug/L
Acrylonitrile	0.40 U	1.0	ug/L
trans-1,2-Dichloroethene	0.20 U	1.0	ug/L
1,1-Dichloroethane	0.20 U	1.0	ug/L
Vinyl acetate	2.0 U	5.0	ug/L
2-Butanone	2.0 U	5.0	ug/L
cis-1,2-Dichloroethene	0.20 U	1.0	ug/L
Bromochloromethane	0.30 U	1.0	ug/L
Chloroform	0.20 U	1.0	ug/L
1,1,1-Trichloroethane	0.30 U	1.0	ug/L
Carbon tetrachloride	0.30 U	1.0	ug/L
1,2-Dichloroethane	0.10 U	1.0	ug/L
Benzene	0.20 U	1.0	ug/L
Trichloroethene	0.30 U	1.0	ug/L
1,2-Dichloropropane	0.40 U	1.0	ug/L
Dibromomethane	0.30 U	1.0	ug/L
Bromodichloromethane	0.20 U	0.40	ug/L
cis-1,3-Dichloropropene	0.10 U	0.20	ug/L
4-Methyl-2-pentanone	2.0 U	5.0	ug/L
Toluene	0.20 U	1.0	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
1,1,2-Trichloroethane	0.30 U	1.0	ug/L
Tetrachloroethene	0.30 U	1.0	ug/L
2-Hexanone	0.60 U	5.0	ug/L
Dibromochloromethane	0.20 U	0.20	ug/L
Chlorobenzene	0.20 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.10 U	0.30	ug/L
Ethylbenzene	0.30 U	1.0	ug/L
m,p-Xylenes	0.30 U	2.0	ug/L
o-Xylene	0.20 U	1.0	ug/L
Styrene	0.10 U	1.0	ug/L
Bromoform	0.20 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	0.20 U	0.20	ug/L
1,2,3-Trichloropropane	0.30 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	0.40 U	1.0	ug/L
1,4-Dichlorobenzene	0.10 U	1.0	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Volatile Organic Compounds by GCMS - Quality Control										
<i>Batch 7F28010 - EPA 5030B_MS</i>										
Blank (7F28010-BLK1) Continued										
										Prepared: 06/27/2007 09:00 Analyzed: 06/29/2007 14:41
1,2-Dichlorobenzene	0.20 U	1.0	ug/L							
Xylenes (Total)	0.30 U	1.0	ug/L							
Blank (7F28010-BLK2)										
										Prepared: 06/27/2007 09:00 Analyzed: 06/30/2007 04:46
Chloromethane	0.30 U	1.0	ug/L							
Vinyl chloride	0.40 U	1.0	ug/L							
Bromomethane	0.60 U	1.0	ug/L							
Chloroethane	0.30 U	1.0	ug/L							
Trichlorofluoromethane	0.30 U	1.0	ug/L							
1,1-Dichloroethene	0.20 U	1.0	ug/L							
Acetone	2.0 U	5.0	ug/L							
Iodomethane	1.0 U	3.0	ug/L							
Carbon disulfide	2.4 I	5.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Acrylonitrile	0.40 U	1.0	ug/L							
trans-1,2-Dichloroethene	0.20 U	1.0	ug/L							
1,1-Dichloroethane	0.20 U	1.0	ug/L							
Vinyl acetate	2.0 U	5.0	ug/L							
2-Butanone	2.0 U	5.0	ug/L							
cis-1,2-Dichloroethene	0.20 U	1.0	ug/L							
Bromochloromethane	0.30 U	1.0	ug/L							
Chloroform	0.20 U	1.0	ug/L							
1,1,1-Trichloroethane	0.30 U	1.0	ug/L							
Carbon tetrachloride	0.30 U	1.0	ug/L							
1,2-Dichloroethane	0.10 U	1.0	ug/L							
Benzene	0.20 U	1.0	ug/L							
Trichloroethene	0.30 U	1.0	ug/L							
1,2-Dichloropropane	0.40 U	1.0	ug/L							
Dibromomethane	0.30 U	1.0	ug/L							
Bromodichloromethane	0.20 U	0.40	ug/L							
cis-1,3-Dichloropropene	0.10 U	0.20	ug/L							
4-Methyl-2-pentanone	2.0 U	5.0	ug/L							
Toluene	0.20 U	1.0	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
1,1,2-Trichloroethane	0.30 U	1.0	ug/L							
Tetrachloroethene	0.30 U	1.0	ug/L							
2-Hexanone	0.60 U	5.0	ug/L							
Dibromochloromethane	0.20 U	0.20	ug/L							
Chlorobenzene	0.20 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.10 U	0.30	ug/L							
Ethylbenzene	0.30 U	1.0	ug/L							
m,p-Xylenes	0.30 U	2.0	ug/L							
o-Xylene	0.20 U	1.0	ug/L							
Styrene	0.10 U	1.0	ug/L							
Bromoform	0.20 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.20 U	0.20	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Volatile Organic Compounds by GCMS - Quality Control
Batch 7F28010 - EPA 5030B_MS
Blank (7F28010-BLK2) Continued

Prepared: 06/27/2007 09:00 Analyzed: 06/30/2007 04:46

1,2,3-Trichloropropane	0.30 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	0.40 U	1.0	ug/L
1,4-Dichlorobenzene	0.10 U	1.0	ug/L
1,2-Dichlorobenzene	0.20 U	1.0	ug/L
Xylenes (Total)	0.30 U	1.0	ug/L

LCS (7F28010-BS1)

Prepared: 06/27/2007 09:00 Analyzed: 06/29/2007 15:13

1,1-Dichloroethene	14	1.0	ug/L	20.0	70	70-130
Benzene	16	1.0	ug/L	20.0	80	80-120
Trichloroethene	17	1.0	ug/L	20.0	85	70-125
Toluene	17	1.0	ug/L	20.0	84	75-120
Chlorobenzene	17	1.0	ug/L	20.0	84	80-120

Matrix Spike (7F28010-MS1)

Source: B705622-08

Prepared: 06/27/2007 09:00 Analyzed: 06/29/2007 15:44

1,1-Dichloroethene	16	1.0	ug/L	20.0	0.20 U	79	70-130
Benzene	20	1.0	ug/L	20.0	0.20 U	99	80-120
Trichloroethene	21	1.0	ug/L	20.0	0.30 U	107	70-125
Toluene	21	1.0	ug/L	20.0	0.20 U	106	75-120
Chlorobenzene	20	1.0	ug/L	20.0	0.20 U	101	80-120

Matrix Spike Dup (7F28010-MSD1)

Source: B705622-08

Prepared: 06/27/2007 09:00 Analyzed: 06/29/2007 16:16

1,1-Dichloroethene	13 QM-05	1.0	ug/L	20.0	0.20 U	66	70-130	18	26	QM-05
Benzene	15 QM-05	1.0	ug/L	20.0	0.20 U	76	80-120	26	22	QM-05
Trichloroethene	16 QR-02	1.0	ug/L	20.0	0.30 U	82	70-125	27	24	QR-02
Toluene	16 QR-02	1.0	ug/L	20.0	0.20 U	80	75-120	28	24	QR-02
Chlorobenzene	16 QM-05	1.0	ug/L	20.0	0.20 U	78	80-120	26	11	QM-05

Organochlorine Pesticides by GC - Quality Control
Batch 7F28007 - EPA 3510C
Blank (7F28007-BLK1)

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 13:07

alpha-BHC	0.001 U	0.05	ug/L
gamma-BHC	0.002 U	0.05	ug/L
beta-BHC	0.002 U	0.05	ug/L
delta-BHC	0.001 U	0.05	ug/L
Heptachlor	0.001 U	0.05	ug/L
Aldrin	0.002 U	0.05	ug/L
Heptachlor epoxide	0.001 U	0.05	ug/L
Chlordane-gamma	0.001 U	0.05	ug/L
Chlordane-alpha	0.001 U	0.05	ug/L
4,4'-DDE	0.002 U	0.05	ug/L
Endosulfan I	0.002 U	0.05	ug/L
Dieldrin	0.0008 U	0.05	ug/L
Endrin	0.002 U	0.05	ug/L
4,4'-DDD	0.0004 U	0.05	ug/L
Endosulfan II	0.002 U	0.05	ug/L
4,4'-DDT	0.002 U	0.05	ug/L
Endrin aldehyde	0.009 U	0.05	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Organochlorine Pesticides by GC - Quality Control

Batch 7F28007 - EPA 3510C

Blank (7F28007-BLK1) Continued

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 13:07

Methoxychlor	0.003 U	0.05	ug/L
Endosulfan sulfate	0.002 U	0.05	ug/L
Endrin ketone	0.003 U	0.05	ug/L
Chlordane (tech)	0.01 U	1.0	ug/L
Toxaphene	0.05 U	1.0	ug/L

LCS (7F28007-BS1)

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 14:14

gamma-BHC	1.1	0.05	ug/L	1.00	110	45-130
Heptachlor	1.0	0.05	ug/L	1.00	102	32-143
Aldrin	0.89	0.05	ug/L	1.00	89	26-124
Dieldrin	1.1	0.05	ug/L	1.00	110	37-150
Endrin	1.3	0.05	ug/L	1.00	127	50-137
4,4'-DDT	1.3	0.05	ug/L	1.00	133	46-143

Matrix Spike (7F28007-MS1)

Source: B705648-02

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 14:40

gamma-BHC	1.1	0.05	ug/L	1.00	0.002 U	111	41-133
Heptachlor	1.1	0.05	ug/L	1.00	0.001 U	108	34-169
Aldrin	0.98	0.05	ug/L	1.00	0.002 U	98	31-159
Dieldrin	1.1	0.05	ug/L	1.00	0.0008 U	110	41-157
Endrin	1.3	0.05	ug/L	1.00	0.002 U	129	41-157
4,4'-DDT	1.4	0.05	ug/L	1.00	0.002 U	138	48-163

Matrix Spike Dup (7F28007-MSD1)

Source: B705648-02

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 15:06

gamma-BHC	1.1	0.05	ug/L	1.00	0.002 U	108	41-133	3	24
Heptachlor	1.0	0.05	ug/L	1.00	0.001 U	100	34-169	8	27
Aldrin	0.88	0.05	ug/L	1.00	0.002 U	88	31-159	10	27
Dieldrin	1.1	0.05	ug/L	1.00	0.0008 U	107	41-157	3	28
Endrin	1.3	0.05	ug/L	1.00	0.002 U	125	41-157	3	28
4,4'-DDT	1.3	0.05	ug/L	1.00	0.002 U	132	48-163	4	31

Polychlorinated Biphenyls by GC - Quality Control

Batch 7F28007 - EPA 3510C

Blank (7F28007-BLK1)

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 13:07

PCB-1016/1242	0.42 U	1.0	ug/L
PCB-1221	0.53 U	1.0	ug/L
PCB-1232	0.58 U	1.0	ug/L
PCB-1248	0.30 U	1.0	ug/L
PCB-1254	0.28 U	1.0	ug/L
PCB-1260	0.40 U	1.0	ug/L

LCS (7F28007-BS1)

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 14:14

PCB-1016/1242	0.42 U	1.0	ug/L	0-200
PCB-1260	0.40 U	1.0	ug/L	35-135

LCS (7F28007-BS2)

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 16:24

PCB-1016/1242	12	1.0	ug/L	10.0	125	0-200
PCB-1260	14	1.0	ug/L	10.0	136	35-135

Matrix Spike (7F28007-MS2)

Source: B705648-02

Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 16:49

PCB-1016/1242	12	1.0	ug/L	10.0	0.42 U	122	0-200
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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Polychlorinated Biphenyls by GC - Quality Control
Batch 7F28007 - EPA 3510C
Matrix Spike (7F28007-MS2) Continued

		Source: B705648-02	Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 16:49							
PCB-1260	14	1.0 ug/L	10.0	0.40 U	136	15-127				
		Source: B705648-02	Prepared: 06/28/2007 10:21 Analyzed: 06/29/2007 17:15							
PCB-1016/1242	12	1.0 ug/L	10.0	0.42 U	124	0-200	2	200		
PCB-1260	13	1.0 ug/L	10.0	0.40 U	134	15-127	2	46		

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Semivolatile Organic Compounds by GCMS SIM - Quality Control
Batch 7F29004 - EPA 3510C_MS
Blank (7F29004-BLK1)

		Prepared: 06/29/2007 09:51 Analyzed: 07/05/2007 14:10							
2,4-Dinitrotoluene [SIM]	0.012 U	0.10	ug/L						
Diallate [SIM]	0.021 U	0.10	ug/L						
Pentachloronitrobenzene [SIM]	0.019 U	0.10	ug/L						
Chlorobenzilate [SIM]	0.015 U	0.10	ug/L						
Indeno(1,2,3-cd)pyrene [SIM]	0.062 U	0.10	ug/L						
<i>Surrogate: 2-Fluorophenol</i>	55		ug/L	100		55	37-124		
<i>Surrogate: Phenol-d5</i>	36		ug/L	100		36	13-51		
<i>Surrogate: Nitrobenzene-d5</i>	97		ug/L	100		97	41-114		
<i>Surrogate: 2-Fluorobiphenyl</i>	65		ug/L	100		65	37-124		
<i>Surrogate: 2,4,6-Tribromophenol</i>	93		ug/L	100		93	35-133		
<i>Surrogate: Terphenyl-d14</i>	82		ug/L	100		82	66-129		

LCS (7F29004-BS1)

		Prepared: 06/29/2007 09:51 Analyzed: 07/05/2007 14:34						
Phenol	19	10	ug/L	50.0		37	19-45	
2-Chlorophenol	40	10	ug/L	50.0		80	53-120	
N-Nitroso-di-n-propylamine	51	10	ug/L	50.0		101	60-121	
4-Chloro-3-methylphenol	41	10	ug/L	50.0		82	50-120	
Acenaphthene	38	10	ug/L	50.0		75	52-120	
4-Nitrophenol	20	10	ug/L	50.0		39	21-56	
2,4-Dinitrotoluene	41	10	ug/L	50.0		82	68-128	
Pyrene	40	10	ug/L	50.0		81	71-120	

Matrix Spike (7F29004-MS1)

		Source: A703573-01	Prepared: 06/29/2007 09:51 Analyzed: 07/05/2007 14:58					
Phenol	15	10	ug/L	50.0	2.6 U	30	19-45	
2-Chlorophenol	31	10	ug/L	50.0	5.7 U	62	53-120	
N-Nitroso-di-n-propylamine	43	10	ug/L	50.0	3.4 U	86	60-121	
4-Chloro-3-methylphenol	37	10	ug/L	50.0	6.3 U	74	50-120	
Acenaphthene	34	10	ug/L	50.0	3.0 U	67	52-120	
4-Nitrophenol	18	10	ug/L	50.0	2.6 U	37	21-56	
2,4-Dinitrotoluene	39	10	ug/L	50.0	3.0 U	78	68-128	
Pyrene	39	10	ug/L	50.0	2.8 U	78	71-120	

Matrix Spike Dup (7F29004-MSD1)

		Source: A703573-01	Prepared: 06/29/2007 09:51 Analyzed: 07/05/2007 15:21					
Phenol	16	10	ug/L	50.0	2.6 U	33	19-45	8

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Semivolatile Organic Compounds by GCMS SIM - Quality Control
Batch 7F29004 - EPA 3510C_MS
Matrix Spike Dup (7F29004-MSD1) Continued Source: A703573-01 Prepared: 06/29/2007 09:51 Analyzed: 07/05/2007 15:21

2-Chlorophenol	35	10	ug/L	50.0	5.7 U	70	53-120	12	17	
N-Nitroso-di-n-propylamine	50 QR-02	10	ug/L	50.0	3.4 U	100	60-121	16	15	QR-02
4-Chloro-3-methylphenol	40	10	ug/L	50.0	6.3 U	81	50-120	9	15	
Acenaphthene	38	10	ug/L	50.0	3.0 U	77	52-120	13	13	
4-Nitrophenol	20	10	ug/L	50.0	2.6 U	41	21-56	10	20	
2,4-Dinitrotoluene	45 QR-02	10	ug/L	50.0	3.0 U	89	68-128	14	10	QR-02
Pyrene	47 QR-02	10	ug/L	50.0	2.8 U	93	71-120	18	13	QR-02

Chlorinated Herbicides by GC - Quality Control
Batch 7F21006 - EPA 3510C
Blank (7F21006-BLK1)
Prepared: 06/21/2007 12:57 Analyzed: 06/25/2007 21:07

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
1.9 ug/L 2.00 94 77-191
LCS (7F21006-BS1)
Prepared: 06/21/2007 12:57 Analyzed: 06/25/2007 21:40

2,4-D	2.1	0.30	ug/L	2.00	103	85-140
2,4-D [2C]	2.3	0.30	ug/L	2.00	117	0-200
Pentachlorophenol	1.8	0.30	ug/L	2.00	92	74-180
Pentachlorophenol [2C]	2.9	0.30	ug/L	2.00	144	0-200
2,4,5-TP (Silvex)	2.2	0.30	ug/L	2.00	108	74-177
2,4,5-TP (Silvex) [2C]	3.0	0.30	ug/L	2.00	152	0-200
2,4,5-T	2.0	0.30	ug/L	2.00	99	74-168
2,4,5-T [2C]	3.2	0.30	ug/L	2.00	158	0-200
Dinoseb	2.6	0.30	ug/L	2.00	128	10-154
Dinoscb [2C]	2.4	0.30	ug/L	2.00	119	0-200

Surrogate: 2,4-DCAA
1.9 ug/L 2.00 96 77-191
Surrogate: 2,4-DCAA [2C]
2.8 ug/L 2.00 141 0-200
Matrix Spike (7F21006-MS1)
Source: A703379-01
Prepared: 06/21/2007 12:57 Analyzed: 06/25/2007 22:12

2,4-D	1.9	0.30	ug/L	2.00	0.12 U	95	85-140
2,4-D [2C]	2.8	0.30	ug/L	2.00	0.12 U	142	0-200
Pentachlorophenol	1.9	0.30	ug/L	2.00	0.13 U	97	74-180
Pentachlorophenol [2C]	3.0	0.30	ug/L	2.00	0.13 U	150	0-200
2,4,5-TP (Silvex)	2.3	0.30	ug/L	2.00	0.11 U	115	74-177
2,4,5-TP (Silvex) [2C]	3.3	0.30	ug/L	2.00	0.11 U	164	0-200
2,4,5-T	2.2	0.30	ug/L	2.00	0.11 U	112	74-168
2,4,5-T [2C]	0.11 U	0.30	ug/L	2.00	0.11 U		0-200
Dinoseb	2.2	0.30	ug/L	2.00	0.23 U	112	10-154
Dinoscb [2C]	1.9	0.30	ug/L	2.00	0.23 U	93	0-200

Surrogate: 2,4-DCAA
2.1 ug/L 2.00 104 77-191
Surrogate: 2,4-DCAA [2C]
3.0 ug/L 2.00 148 0-200

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Chlorinated Herbicides by GC - Quality Control
Batch 7F21006 - EPA 3510C

Matrix Spike Dup (7F21006-MSD1)	Source: A703379-01			Prepared: 06/21/2007 12:57 Analyzed: 06/25/2007 22:44						
2,4-D	2.0	0.30	ug/L	2.00	0.12 U	99	85-140	4	18	
2,4,5-TP (Silvex)	2.1	0.30	ug/L	2.00	0.11 U	106	74-177	8	10	
<i>Surrogate: 2,4-DCAA</i>	<i>1.9</i>		<i>ug/L</i>	<i>2.00</i>		<i>96</i>	<i>77-191</i>			

Semivolatile Organic Compounds by GC - Quality Control
Batch 7G03017 - EPA 504/8011

Blank (7G03017-BLK1)	Prepared: 07/03/2007 14:24 Analyzed: 07/03/2007 16:51						
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1,2-Dibromoethane	0.010	U	0.020	ug/L	0.250	84	83-150
1,2-Dibromo-3-chloropropane	0.008	U	0.020	ug/L	0.250	94	49-154

<i>Surrogate: 1,3-Dichlorobenzene</i>	<i>0.21</i>			<i>ug/L</i>	<i>0.250</i>	<i>86</i>	<i>83-150</i>
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LCS (7G03017-BS1)	Prepared: 07/03/2007 14:24 Analyzed: 07/03/2007 17:02						
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1,2-Dibromoethane	0.23	0.020	ug/L	0.250	94	49-154
1,2-Dibromo-3-chloropropane	0.21	0.020	ug/L	0.250	86	49-140

<i>Surrogate: 1,3-Dichlorobenzene</i>	<i>0.35</i>			<i>ug/L</i>	<i>0.250</i>	<i>138</i>	<i>83-150</i>
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Matrix Spike (7G03017-MS1)	Source: A703573-01			Prepared: 07/03/2007 14:24 Analyzed: 07/03/2007 17:12			
1,2-Dibromoethane	0.16	0.020	ug/L	0.250	0.010	U	66
1,2-Dibromo-3-chloropropane	0.18	0.020	ug/L	0.250	0.008	U	72

<i>Surrogate: 1,3-Dichlorobenzene</i>	<i>0.27</i>			<i>ug/L</i>	<i>0.250</i>	<i>108</i>	<i>83-150</i>
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Matrix Spike Dup (7G03017-MSD1)	Source: A703573-01			Prepared: 07/03/2007 14:24 Analyzed: 07/03/2007 17:23			
1,2-Dibromoethane	0.17	0.020	ug/L	0.250	0.010	U	70
1,2-Dibromo-3-chloropropane	0.19	0.020	ug/L	0.250	0.008	U	76

<i>Surrogate: 1,3-Dichlorobenzene</i>	<i>0.25</i>			<i>ug/L</i>	<i>0.250</i>	<i>98</i>	<i>83-150</i>
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Metals by EPA 6000/7000 Series Methods - Quality Control	Prepared: 06/28/2007 10:31 Analyzed: 06/29/2007 08:47						
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Blank (7F22021-BLK1)	Prepared: 06/28/2007 10:31 Analyzed: 06/29/2007 08:50						
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Mercury	0.021	I	0.20	ug/L	5.00	104	90-110
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LCS (7F22021-BS1)	Prepared: 06/28/2007 10:31 Analyzed: 06/29/2007 08:56						
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Mercury	5.4	0.20	ug/L	5.00	0.0092	U	109	90-110
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Matrix Spike Dup (7F22021-MSD1)	Prepared: 06/28/2007 10:31 Analyzed: 06/29/2007 08:59						
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Mercury	5.2	0.20	ug/L	5.00	0.0092	U	104	90-110
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Post Spike (7F22021-PS1)	Prepared: 06/29/2007 06:00 Analyzed: 06/29/2007 09:03						
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Mercury	5.8	0.20	ug/L	5.61	-0.0030	104	0-200
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Blank (7F29020-BLK1)	Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 13:49						
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Antimony	0.760	U	5.00	ug/L				
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Arsenic	0.980	U	10.0	ug/L				
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Barium	1.30	U	100	ug/L				
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Beryllium	0.810	U	1.00	ug/L				
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Lead	0.000	U	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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Mercury	0.000	I	1.00	ug/L				
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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Batch 7F29020 - EPA 3005A
Blank (7F29020-BLK1) Continued

Cadmium	0.300	U	3.00	ug/L
Chromium	1.20	U	10.0	ug/L
Cobalt	0.260	U	10.0	ug/L
Copper	0.630	U	10.0	ug/L
Iron	6.70	U	50.0	ug/L
Lead	0.170	U	5.00	ug/L
Nickel	0.470	U	10.0	ug/L
Selenium	1.70	U	10.0	ug/L
Silver	0.200	U	1.00	ug/L
Sodium	16.0	U	1000	ug/L
Thallium	0.290	U	1.00	ug/L
Tin	0.800	U	50.0	ug/L
Vanadium	0.380	U	10.0	ug/L
Zinc	1.90	U	50.0	ug/L

Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 13:49
Blank (7F29020-BLK2)

Antimony	0.760	U	5.00	ug/L
Arsenic	0.980	U	10.0	ug/L
Barium	1.30	U	100	ug/L
Beryllium	0.810	U	1.00	ug/L
Cadmium	0.300	U	3.00	ug/L
Chromium	1.20	U	10.0	ug/L
Cobalt	0.448	I	10.0	ug/L
Copper	0.630	U	10.0	ug/L
Iron	6.70	U	50.0	ug/L
Lead	0.470	I	5.00	ug/L
Nickel	0.470	U	10.0	ug/L
Selenium	1.70	U	10.0	ug/L
Silver	0.200	U	1.00	ug/L
Sodium	16.0	U	1000	ug/L
Thallium	0.290	U	1.00	ug/L
Tin	0.800	U	50.0	ug/L
Vanadium	0.380	U	10.0	ug/L
Zinc	21.4	I	50.0	ug/L

Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 13:55
LCS (7F29020-BS1)

Antimony	51.7	5.00	ug/L	50.0	103	85-115
Arsenic	484	10.0	ug/L	500	97	85-115
Barium	498	100	ug/L	500	100	85-115
Beryllium	49.2	1.00	ug/L	50.0	98	85-115
Cadmium	48.4	3.00	ug/L	50.0	97	85-115
Chromium	512	10.0	ug/L	500	102	85-115
Cobalt	502	10.0	ug/L	500	100	85-115
Copper	497	10.0	ug/L	500	99	85-115
Iron	1030	50.0	ug/L	1000	103	85-115
Lead	499	5.00	ug/L	500	100	85-115

Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 14:01

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Batch 7F29020 - EPA 3005A
LCS (7F29020-BS1) Continued

Nickel	500	10.0	ug/L	500	100	85-115
Selenium	494	10.0	ug/L	500	99	85-115
Silver	51.0	1.00	ug/L	50.0	102	85-115
Sodium	25700	1000	ug/L	25000	103	85-115
Thallium	50.0	1.00	ug/L	50.0	100	85-115
Tin	501	50.0	ug/L	500	100	85-115
Vanadium	509	10.0	ug/L	500	102	85-115
Zinc	497	50.0	ug/L	500	99	85-115

Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 14:01
Matrix Spike (7F29020-MS1)

			Source: A703590-05			Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 14:17	
Antimony	50.4	5.00	ug/L	50.0	0.760 U	101	85-115
Arsenic	454	10.0	ug/L	500	0.980 U	91	85-115
Barium	490	100	ug/L	500	1.30 U	98	85-115
Beryllium	51.1	1.00	ug/L	50.0	0.810 U	102	85-115
Cadmium	47.3	3.00	ug/L	50.0	0.300 U	95	85-115
Chromium	498	10.0	ug/L	500	1.20 U	100	85-115
Cobalt	507	10.0	ug/L	500	0.375	101	85-115
Copper	499	10.0	ug/L	500	0.630 U	100	85-115
Iron	1010	50.0	ug/L	1000	6.70 U	101	85-115
Lead	490	5.00	ug/L	500	0.170 U	98	85-115
Nickel	501	10.0	ug/L	500	0.470 U	100	85-115
Selenium	456	10.0	ug/L	500	1.70 U	91	85-115
Silver	50.0	1.00	ug/L	50.0	0.200 U	100	85-115
Sodium	25400	1000	ug/L	25000	16.0 U	101	85-115
Thallium	49.0	1.00	ug/L	50.0	0.290 U	98	85-115
Tin	495	50.0	ug/L	500	0.800 U	99	85-115
Vanadium	509	10.0	ug/L	500	0.380 U	102	85-115
Zinc	477	50.0	ug/L	500	2.25	95	85-115

Matrix Spike Dup (7F29020-MSD1)

			Source: A703590-05			Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 14:26	
Antimony	51.0	5.00	ug/L	50.0	0.760 U	102	85-115
Arsenic	461	10.0	ug/L	500	0.980 U	92	85-115
Barium	494	100	ug/L	500	1.30 U	99	85-115
Beryllium	50.5	1.00	ug/L	50.0	0.810 U	101	85-115
Cadmium	47.9	3.00	ug/L	50.0	0.300 U	96	85-115
Chromium	496	10.0	ug/L	500	1.20 U	99	85-115
Cobalt	506	10.0	ug/L	500	0.375	101	85-115
Copper	494	10.0	ug/L	500	0.630 U	99	85-115
Iron	1000	50.0	ug/L	1000	6.70 U	100	85-115
Lead	488	5.00	ug/L	500	0.170 U	98	85-115
Nickel	498	10.0	ug/L	500	0.470 U	100	85-115
Selenium	462	10.0	ug/L	500	1.70 U	92	85-115
Silver	50.0	1.00	ug/L	50.0	0.200 U	100	85-115
Sodium	25700	1000	ug/L	25000	16.0 U	103	85-115
Thallium	49.1	1.00	ug/L	50.0	0.290 U	98	85-115
Tin	498	50.0	ug/L	500	0.800 U	100	85-115
Vanadium	510	10.0	ug/L	500	0.380 U	102	85-115

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Batch 7F29020 - EPA 3005A
Matrix Spike Dup (7F29020-MSD1) Continued Source: A703590-05 Prepared: 07/02/2007 11:15 Analyzed: 07/06/2007 14:26

Zinc	517	50.0	ug/L	500	2.25	103	85-115	8	20
Post Spike (7F29020-PS1) Source: A703590-05 Prepared: 07/06/2007 12:00 Analyzed: 07/06/2007 14:34									
Antimony	4.77	0.500	ug/L	4.90	0.050	96	75-125		
Arsenic	44.0	1.00	ug/L	49.0	0.010	90	75-125		
Barium	47.6	10.0	ug/L	49.0	-1.26	100	75-125		
Beryllium	4.69	0.100	ug/L	4.90	0.006	96	75-125		
Cadmium	4.58	0.300	ug/L	4.90	-0.001	94	75-125		
Chromium	49.1	1.00	ug/L	49.0	0.089	100	75-125		
Cobalt	49.6	1.00	ug/L	49.0	0.037	101	75-125		
Copper	49.3	1.00	ug/L	49.0	0.041	100	75-125		
Iron	98.0	5.00	ug/L	98.0	-2.38	102	75-125		
Lead	47.3	0.500	ug/L	49.0	-0.051	97	75-125		
Nickel	49.0	1.00	ug/L	49.0	0.013	100	75-125		
Selenium	43.7	1.00	ug/L	49.0	0.143	89	75-125		
Silver	4.77	0.100	ug/L	4.90	-0.002	97	75-125		
Sodium	2470	100	ug/L	2450	-12.2	101	75-125		
Thallium	4.75	0.100	ug/L	4.90	-0.005	97	75-125		
Tin	47.4	5.00	ug/L	49.0	0.016	97	75-125		
Vanadium	49.3	1.00	ug/L	49.0	-0.064	101	75-125		
Zinc	47.0	5.00	ug/L	49.0	0.220	95	75-125		

Batch AA01107 - 7F22021
Serial Dilution (AA01107-SRD1) Source: A703565-01 Prepared: 06/28/2007 00:00 Analyzed: 06/29/2007 07:39

Mercury	0.0092 U	0.20	ug/L				200
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Serial Dilution (AA01107-SRD2) Source: A703485-07 Prepared: 06/28/2007 00:00 Analyzed: 06/29/2007 09:12

Mercury	0.0092 U	0.20	ug/L	0.0092 U			200
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Batch AA01148 - 7G02012
Serial Dilution (AA01148-SRD1) Source: A703590-05 Prepared: 07/06/2007 00:00 Analyzed: 07/06/2007 14:42

Antimony	3.80	25.0	ug/L	3.80 U			10
Arsenic	4.90	50.0	ug/L	4.90 U			10
Barium	6.50 U	500	ug/L	6.50 U			10
Beryllium	4.05 U	5.00	ug/L	4.05 U			10
Cadmium	1.50 U	15.0	ug/L	1.50 U			10
Chromium	6.00 U	50.0	ug/L	6.00 U			10
Cobalt	1.30 U	50.0	ug/L	0.375			10
Copper	3.15	50.0	ug/L	3.15 U			10
Iron	33.5 U	250	ug/L	33.5 U			10
Lead	0.850 U	25.0	ug/L	0.850 U			10
Nickel	2.35	50.0	ug/L	2.35 U			10
Selenium	8.50	50.0	ug/L	8.50 U			10
Silver	1.00 U	5.00	ug/L	1.00 U			10
Sodium	80.0 U	5000	ug/L	80.0 U			10
Thallium	1.45 U	5.00	ug/L	1.45 U			10
Tin	4.00	250	ug/L	4.00 U			10

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
<i>Batch AA01148 - 7G02012</i>										
Serial Dilution (AA01148-SRD1) Continued										
Source: A703590-05 Prepared: 07/06/2007 00:00 Analyzed: 07/06/2007 14:42										
Vanadium	1.90 U	50.0	ug/L		1.90 U				10	
Zinc	17.6	250	ug/L		2.25				10	
Serial Dilution (AA01148-SRD2)										
Source: A703598-02 Prepared: 07/06/2007 00:00 Analyzed: 07/06/2007 22:03										
Antimony	1.52	10.0	ug/L						10	
Arsenic	1.96 U	20.0	ug/L						10	
Barium	2.60 U	200	ug/L						10	
Beryllium	1.62 U	2.00	ug/L						10	
Cadmium	0.600 U	6.00	ug/L						10	
Chromium	2.40 U	20.0	ug/L						10	
Cobalt	0.520 U	20.0	ug/L						10	
Copper	1.26	20.0	ug/L						10	
Iron	13.4	100	ug/L						10	
Lead	1.92	10.0	ug/L						10	
Nickel	0.940	20.0	ug/L						10	
Selenium	3.40	20.0	ug/L						10	
Silver	0.400 U	2.00	ug/L						10	
Sodium	5020	2000	ug/L						10	
Thallium	0.580 U	2.00	ug/L						10	
Tin	1.60 U	100	ug/L						10	
Vanadium	0.760 U	20.0	ug/L						10	
Zinc	4.96	100	ug/L						10	
Serial Dilution (AA01148-SRD3)										
Source: A703599-01 Prepared: 07/06/2007 00:00 Analyzed: 07/07/2007 00:09										
Antimony	1.52	10.0	ug/L						10	
Arsenic	4.01	20.0	ug/L						10	
Barium	76.7	200	ug/L						10	
Beryllium	1.62	2.00	ug/L						10	
Cadmium	1.11	6.00	ug/L						10	
Chromium	38.8	20.0	ug/L						10	
Cobalt	3.50	20.0	ug/L						10	
Copper	153	20.0	ug/L						10	
Iron	23300	100	ug/L						10	
Lead	42.9	10.0	ug/L						10	
Nickel	34.2	20.0	ug/L						10	
Selenium	3.40	20.0	ug/L						10	
Silver	0.400	2.00	ug/L						10	
Sodium	180	2000	ug/L						10	
Thallium	0.944	2.00	ug/L						10	
Tin	9.68	100	ug/L						10	
Vanadium	18.6	20.0	ug/L						10	
Zinc	150	100	ug/L						10	
<i>Batch AA01156 - 7G05006</i>										
Serial Dilution (AA01156-SRD1)										
Source: A702890-06 Prepared: 07/09/2007 00:00 Analyzed: 07/09/2007 19:12										
Iron	33.5	250	ug/L						10	
Sodium	80.0 U	5000	ug/L						10	

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
<i>Batch AA01156 - 7G05006</i>										
Serial Dilution (AA01156-SRD2) Source: A703563-01 Prepared: 07/09/2007 00:00 Analyzed: 07/10/2007 02:01										
Iron	33.5	250	ug/L							10
Sodium	80.0 U	5000	ug/L							10
Classical Chemistry Parameters - Quality Control										
<i>Batch 7F22015 - NA</i>										
Blank (7F22015-BLK1) Prepared: 06/22/2007 14:05 Analyzed: 06/22/2007 21:57										
Nitrate as N	0.008 U	0.050	mg/L							
Chloride	0.61 I	1.0	mg/L							
LCS (7F22015-BS1) Prepared: 06/22/2007 14:05 Analyzed: 06/22/2007 22:14										
Nitrate as N	4.8	0.050	mg/L	5.00		97	90-112			
Chloride	270	1.0	mg/L	250		107	85-118			
Matrix Spike (7F22015-MS1) Source: A703304-05 Prepared: 06/22/2007 14:05 Analyzed: 06/22/2007 22:31										
Nitrate as N	5.5	0.050	mg/L	5.10	0.17	104	90-112			
Chloride	280	1.0	mg/L	255	9.0	106	85-118			
Matrix Spike Dup (7F22015-MSD1) Source: A703304-05 Prepared: 06/22/2007 14:05 Analyzed: 06/22/2007 22:48										
Nitrate as N	5.4	0.050	mg/L	5.10	0.17	103	90-112	1	16	
Chloride	280	1.0	mg/L	255	9.0	106	85-118	0.5	10	
<i>Batch 7F26001 - NO PREP</i>										
Blank (7F26001-BLK1) Prepared: 06/26/2007 09:39 Analyzed: 06/26/2007 17:11										
Cyanide (total)	0.0058 U	0.010	mg/L							
LCS (7F26001-BS1) Prepared: 06/26/2007 09:39 Analyzed: 06/26/2007 17:11										
Cyanide (total)	0.20	0.010	mg/L	0.200		101	84-113			
Matrix Spike (7F26001-MS1) Source: A703432-01 Prepared: 06/26/2007 09:39 Analyzed: 06/26/2007 17:11										
Cyanide (total)	0.19	0.010	mg/L	0.200	0.0058 U	96	84-113			
Matrix Spike Dup (7F26001-MSD1) Source: A703432-01 Prepared: 06/26/2007 09:39 Analyzed: 06/26/2007 17:11										
Cyanide (total)	0.19	0.010	mg/L	0.200	0.0058 U	97	84-113	0.5	10	
<i>Batch 7F26015 - NO PREP</i>										
Blank (7F26015-BLK1) Prepared: 06/26/2007 13:43 Analyzed: 06/26/2007 14:46										
Ammonia as N	0.003 U	0.020	mg/L							
LCS (7F26015-BS1) Prepared: 06/26/2007 13:43 Analyzed: 06/26/2007 14:47										
Ammonia as N	1.0	0.020	mg/L	1.00		105	90-110			
Matrix Spike (7F26015-MS1) Source: A703434-01 Prepared: 06/26/2007 13:43 Analyzed: 06/26/2007 15:18										
Ammonia as N	0.80 QM-07	0.020	mg/L	1.00	0.032	77	90-110			QM-07
Matrix Spike Dup (7F26015-MSD1) Source: A703434-01 Prepared: 06/26/2007 13:43 Analyzed: 06/26/2007 15:19										
Ammonia as N	0.82 QM-07	0.020	mg/L	1.00	0.032	78	90-110	2	10	QM-07
<i>Batch 7F27002 - NO PREP</i>										
Blank (7F27002-BLK1) Prepared: 06/27/2007 13:30 Analyzed: 06/28/2007 16:20										
Total Dissolved Solids	10 U	10	mg/L							
LCS (7F27002-BS1) Prepared: 06/27/2007 13:30 Analyzed: 06/28/2007 16:20										
Total Dissolved Solids	320	10	mg/L	300		107	87-114			
Duplicate (7F27002-DUP1) Source: A702740-02 Prepared: 06/27/2007 13:30 Analyzed: 06/28/2007 16:20										

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Classical Chemistry Parameters - Quality Control										
<i>Batch 7F27002 - NO PREP</i>										
Duplicate (7F27002-DUP1) Continued					Source: A702740-02		Prepared: 06/27/2007 13:30 Analyzed: 06/28/2007 16:20			
Total Dissolved Solids	3300	10	mg/L		3300			0	10	
<i>Batch 7F28016 - NO PREP</i>										
Blank (7F28016-BLK1)							Prepared: 06/28/2007 15:26 Analyzed: 06/28/2007 16:40			
Sulfide	0.45 U	1.0	mg/L							
LCS (7F28016-BS1)							Prepared: 06/28/2007 15:26 Analyzed: 06/28/2007 16:40			
Sulfide	3.9	1.0	mg/L	4.01		98	84-106			
Matrix Spike (7F28016-MS1)					Source: A703620-01		Prepared: 06/28/2007 15:26 Analyzed: 06/28/2007 16:40			
Sulfide	4.1	1.0	mg/L	4.01	0.45 U	102	84-106			
Matrix Spike Dup (7F28016-MSD1)					Source: A703620-01		Prepared: 06/28/2007 15:26 Analyzed: 06/28/2007 16:40			
Sulfide	3.9	1.0	mg/L	4.01	0.45 U	98	84-106	4	10	
<i>Batch 7F29009 - NO PREP</i>										
Blank (7F29009-BLK1)							Prepared: 06/29/2007 11:42 Analyzed: 06/29/2007 13:37			
Total Alkalinity	2.4 U	10	mg/L							
Blank (7F29009-BLK2)							Prepared: 06/29/2007 11:42 Analyzed: 06/29/2007 14:23			
Total Alkalinity	2.4 U	10	mg/L							
LCS (7F29009-BS1)							Prepared: 06/29/2007 11:42 Analyzed: 06/29/2007 13:38			
Total Alkalinity	250	10	mg/L	250		101	90-110			
LCS (7F29009-BS2)							Prepared: 06/29/2007 11:42 Analyzed: 06/29/2007 14:24			
Total Alkalinity	250	10	mg/L	250		101	90-110			
Matrix Spike (7F29009-MS1)					Source: A703626-01		Prepared: 06/29/2007 11:42 Analyzed: 06/29/2007 13:42			
Total Alkalinity	270	10	mg/L	250	7.5	103	90-110			
Matrix Spike Dup (7F29009-MSD1)					Source: A703626-01		Prepared: 06/29/2007 11:42 Analyzed: 06/29/2007 13:43			
Total Alkalinity	260	10	mg/L	250	7.5	103	90-110	0.3	10	

NOTES AND DEFINITIONS

- D Data reported from a dilution
- I Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- U Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8081A Appendix 2	Water	NELAC	E82277
8082 Appendix 2	Water	NELAC	E82277
8260B Appendix 1	Water	NELAC	E82277
8011	Water	NELAC	E83182
8151A Appendix 2	Water	NELAC	E83182
8270C Appendix 2 Scan-SIM	Water	NELAC	E83182
Alkalinity 310.2	Water	NELAC	E83182
Ammonia 350.1	Water	NELAC	E83182
Antimony Total EPA 6020	Water	NELAC	E83182
Arsenic Total EPA 6020	Water	NELAC	E83182
Barium Total EPA 6020	Water	NELAC	E83182
Beryllium Total EPA 6020	Water	NELAC	E83182
Cadmium Total EPA 6020	Water	NELAC	E83182
Chloride 300	Water	NELAC	E83182
Chromium Total EPA 6020	Water	NELAC	E83182
Cobalt Total EPA 6020	Water	NELAC	E83182
Copper Total EPA 6020	Water	NELAC	E83182
Cyanide Total 9014	Water	NELAC	E83182
Iron Total EPA 6020	Water	NELAC	E83182
Lead Total EPA 6020	Water	NELAC	E83182
Mercury Total EPA 7470A	Water	NELAC	E83182
Nickel Total EPA 6020	Water	NELAC	E83182
Nitrate as N 300	Water	NELAC	E83182
Selenium Total EPA 6020	Water	NELAC	E83182
Silver Total EPA 6020	Water	NELAC	E83182
Sodium Total EPA 6020	Water	NELAC	E83182
Sulfide 376.1	Water	NELAC	E83182
TDS 160.1	Water	NELAC	E83182
Thallium Total EPA 6020	Water	NELAC	E83182
Tin Total EPA 6020	Water	NELAC	E83182
Vanadium Total EPA 6020	Water	NELAC	E83182
Zinc Total EPA 6020	Water	NELAC	E83182