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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Wake County Environmental Services: Facility Owner

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

Name: Joe Alexander Phone: 919-518-0271

E-mail: Joseph.Alexander@wakegov.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
NorthWake Landfill	9016 Deponie Drive Raleigh, NC 27614	92-09	.1600	June 6-7, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Tommy C. Esqueda — Facility Representative Name (Print)

Environmental Services Director — Title

919-856-7444 — (Area Code) Telephone Number

Signature

7/6/2010 — Date

Affix NC Licensed/ Professional Geologist Seal

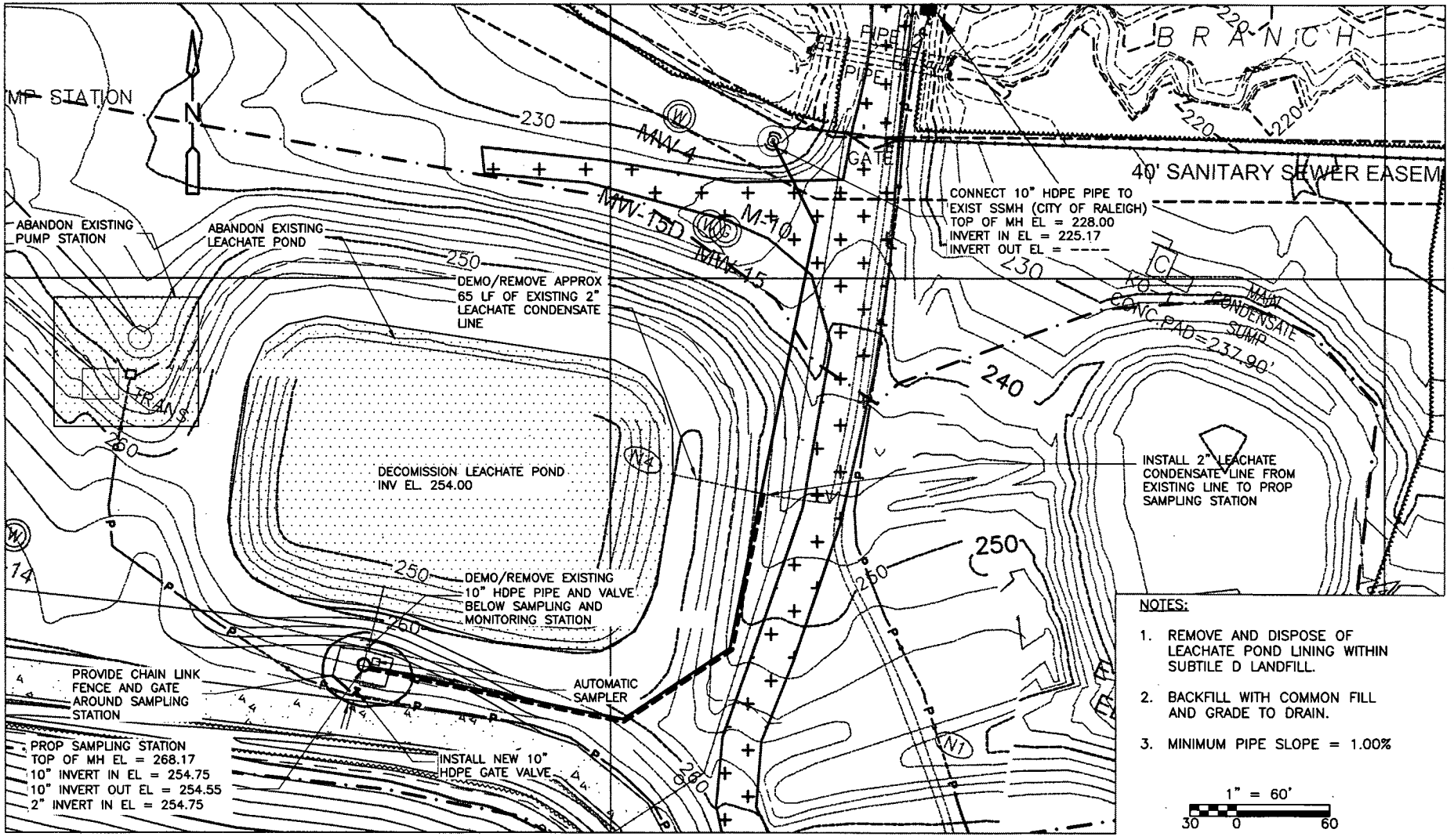
Wake County Solid Waste Management, PO Box 550, Raleigh, NC 27602

Facility Representative Address

22794

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009



NOTES:

1. REMOVE AND DISPOSE OF LEACHATE POND LINING WITHIN SUBTILE D LANDFILL.
2. BACKFILL WITH COMMON FILL AND GRADE TO DRAIN.
3. MINIMUM PIPE SLOPE = 1.00%

CDM

DATE 10-29-2008

FIGURE NO.

A-2

PERMIT SET ONLY

LEACHATE FIELD MONITORING LOG

Site: North Wake Landfill Location: Raleigh, NC

Sampling Dates: [illegible] to 6-7-10 Sampling Point ID: WW-Pipe-01

Sampler(s): Joe Alexander, Casey Fulchum

Sampling Parameters: Appx I, BOD, COD, Phosphate, Nitrate, Sulfate, pH

Initiation of Discharge: Date/Time: _____ Flow Meter: _____ gallons

Initiation of Sampling: Date/Time: 6-7-10 2:30 PM Flow Meter: _____ gallons

End of Sampling: Date/Time: _____ Flow Meter: _____ gallons

End of Discharge: Date/Time: _____ Flow Meter: _____ gallons

Flow Rate (start of event): _____ GPM Flow Rate(end of event) _____ GPM

pH Meter: _____ 4.0 buffer: 4.01 7.0 buffer 7.0 10.0 buffer: 10.01

pH (start of event) 7.14 pH (end of event) _____ (Use grab samples for pH)

Refrig. Temp. (start of event): 2.3 °C Refrig. Temp. (end of event): _____ °C

Comments/Sample Description (color, appearance, odor, immiscible layers, silt, etc.):

Dark, mild odor, some silt

(See Attachment for Sample Location)

Signature: [signature] Date: 6-7-10

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

Tuesday, June 22, 2010

Wake County Solid Waste Management (WA036)

Attn: Joe Alexander

9025 Deponie Dr.

Raleigh, NC 27614

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake County LF - Leachate
ENCO Workorder: C006397

Dear Joe Alexander,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, June 8, 2010.

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.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. 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. Unless otherwise noted, all analyses were performed at ENCO Cary. 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 17.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-Leachate **Lab ID: C006397-01** **Sampled: 06/08/10 15:15** **Received: 06/08/10 15:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	06/10/10	15:15	06/09/10	07:10	6/9/2010 13:57
EPA 353.2	07/06/10		06/10/10	09:56	6/10/2010 11:21
EPA 353.2	07/06/10		06/11/10	15:17	6/14/2010 12:37
EPA 365.4	07/06/10		06/15/10	10:23	6/16/2010 10:42
EPA 6010C	12/05/10		06/10/10	09:51	6/15/2010 15:19
EPA 6020A	12/05/10		06/16/10	09:43	6/18/2010 10:41
SM 5210B	06/10/10	15:15	06/10/10	13:54	6/10/2010 13:54
SM 5220D	07/06/10		06/11/10	14:16	6/11/2010 18:37
SM4500-H/B	06/08/10	15:29	06/10/10	14:30	6/10/2010 14:30

Client ID: 9209-Leachate **Lab ID: C006397-01RE1** **Sampled: 06/08/10 15:15** **Received: 06/08/10 15:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	06/22/10	06/10/10	08:30	6/10/2010 18:24

Client ID: 9209-Leachate **Lab ID: C006397-01RE2** **Sampled: 06/08/10 15:15** **Received: 06/08/10 15:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	07/06/10	06/14/10	07:34	6/15/2010 07:41

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SAMPLE DETECTION SUMMARY

Client ID: 9209-Leachate **Lab ID: C006397-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	6.62	JD	5.50	50.0	ug/L	EPA 6020A	
Arsenic - Total	109		2.80	10.0	ug/L	EPA 6010C	
Barium - Total	242		1.00	10.0	ug/L	EPA 6010C	
Biochemical Oxygen Demand	> 2000		2.0	2.0	mg/L	SM 5210B	B-02
Chemical Oxygen Demand	4700		28	100	mg/L	SM 5220D	
Chromium - Total	188		1.00	10.0	ug/L	EPA 6010C	
Cobalt - Total	36.1		1.10	10.0	ug/L	EPA 6010C	
Lead - Total	5.26	J	1.90	10.0	ug/L	EPA 6010C	
Nickel - Total	169		1.80	10.0	ug/L	EPA 6010C	
Nitrate/Nitrite as N	0.040	J	0.025	0.10	mg/L	EPA 353.2	
Nitrite as N	0.040	JB	0.0056	0.10	mg/L	EPA 353.2	J-01
pH	6.6		1.0	1.0	pH Units	SM4500-H/B	Q
Phosphorus	3.3	D	0.25	1.0	mg/L	EPA 365.4	
Thallium - Total	4.18	JD	2.75	25.0	ug/L	EPA 6020A	
Vanadium - Total	105		1.40	10.0	ug/L	EPA 6010C	
Zinc - Total	45.2		3.80	10.0	ug/L	EPA 6010C	

Client ID: 9209-Leachate **Lab ID: C006397-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	11000	D	50	250	ug/L	EPA 8260B	
4-Methyl-2-pentanone	160	JD	55	250	ug/L	EPA 8260B	
Acetone	10000	D	75	250	ug/L	EPA 8260B	
m,p-Xylenes	26	JD	9.0	100	ug/L	EPA 8260B	
Toluene	40	JD	2.6	50	ug/L	EPA 8260B	
Xylenes (Total)	26	JD	11	50	ug/L	EPA 8260B	

Client ID: 9209-Leachate **Lab ID: C006397-01RE2**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Sulfate as SO4	1700	D	2.4	100	mg/L	EPA 300.0	

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ANALYTICAL RESULTS

Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	4.6	UD	ug/L	50	4.6	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,1,1-Trichloroethane [71-55-6] ^	7.5	UD	ug/L	50	7.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	4.2	UD	ug/L	50	4.2	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,1,2-Trichloroethane [79-00-5] ^	3.4	UD	ug/L	50	3.4	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,1-Dichloroethane [75-34-3] ^	2.5	UD	ug/L	50	2.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,1-Dichloroethene [75-35-4] ^	7.5	UD	ug/L	50	7.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,2,3-Trichloropropane [96-18-4] ^	7.5	UD	ug/L	50	7.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	24	UD	ug/L	50	24	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,2-Dibromoethane [106-93-4] ^	21	UD	ug/L	50	21	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,2-Dichlorobenzene [95-50-1] ^	2.6	UD	ug/L	50	2.6	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,2-Dichloroethane [107-06-2] ^	4.1	UD	ug/L	50	4.1	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,2-Dichloropropane [78-87-5] ^	4.9	UD	ug/L	50	4.9	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
1,4-Dichlorobenzene [106-46-7] ^	5.0	UD	ug/L	50	5.0	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
2-Butanone [78-93-3] ^	**11000**	D	ug/L	50	50	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
2-Hexanone [591-78-6] ^	34	UD	ug/L	50	34	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
4-Methyl-2-pentanone [108-10-1] ^	**160**	JD	ug/L	50	55	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Acetone [67-64-1] ^	**10000**	D	ug/L	50	75	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Acrylonitrile [107-13-1] ^	100	UD	ug/L	50	100	500	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Benzene [71-43-2] ^	2.5	UD	ug/L	50	2.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Bromochloromethane [74-97-5] ^	5.5	UD	ug/L	50	5.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Bromodichloromethane [75-27-4] ^	5.0	UD	ug/L	50	5.0	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Bromoform [75-25-2] ^	10	UD	ug/L	50	10	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Bromomethane [74-83-9] ^	14	UD	ug/L	50	14	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Carbon disulfide [75-15-0] ^	27	UD	ug/L	50	27	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Carbon tetrachloride [56-23-5] ^	4.1	UD	ug/L	50	4.1	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Chlorobenzene [108-90-7] ^	3.4	UD	ug/L	50	3.4	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Chloroethane [75-00-3] ^	9.0	UD	ug/L	50	9.0	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Chloroform [67-66-3] ^	4.2	UD	ug/L	50	4.2	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Chloromethane [74-87-3] ^	2.5	UD	ug/L	50	2.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	3.8	UD	ug/L	50	3.8	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	3.6	UD	ug/L	50	3.6	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Dibromochloromethane [124-48-1] ^	3.4	UD	ug/L	50	3.4	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Dibromomethane [74-95-3] ^	6.5	UD	ug/L	50	6.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Ethylbenzene [100-41-4] ^	5.0	UD	ug/L	50	5.0	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Iodomethane [74-88-4] ^	26	UD	ug/L	50	26	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	**26**	JD	ug/L	50	9.0	100	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Methylene chloride [75-09-2] ^	3.5	UD	ug/L	50	3.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
o-Xylene [95-47-6] ^	4.4	UD	ug/L	50	4.4	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Styrene [100-42-5] ^	4.1	UD	ug/L	50	4.1	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Tetrachloroethene [127-18-4] ^	5.0	UD	ug/L	50	5.0	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Toluene [108-88-3] ^	**40**	JD	ug/L	50	2.6	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	5.5	UD	ug/L	50	5.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	4.0	UD	ug/L	50	4.0	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	27	UD	ug/L	50	27	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Trichloroethene [79-01-6] ^	6.5	UD	ug/L	50	6.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Trichlorofluoromethane [75-69-4] ^	7.5	UD	ug/L	50	7.5	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Vinyl acetate [108-05-4] ^	49	UD	ug/L	50	49	250	0F10005	EPA 8260B	06/10/10 18:24	JKG	
Vinyl chloride [75-01-4] ^	4.2	UD	ug/L	50	4.2	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	

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Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	**26**	JD	ug/L	50	11	50	0F10005	EPA 8260B	06/10/10 18:24	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*0F10005*	*EPA 8260B*	*06/10/10 18:24*	*JKG*	
Dibromofluoromethane	*38*	*1*	*50.0*	*75 %*	*68-117*	*0F10005*	*EPA 8260B*	*06/10/10 18:24*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*85 %*	*69-110*	*0F10005*	*EPA 8260B*	*06/10/10 18:24*	*JKG*	

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**6.62**	JD	ug/L	25	5.50	50.0	0F16008	EPA 6020A	06/18/10 10:41	VLO	
Arsenic [7440-38-2] ^	**109**		ug/L	1	2.80	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Barium [7440-39-3] ^	**242**		ug/L	1	1.00	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Chromium [7440-47-3] ^	**188**		ug/L	1	1.00	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Cobalt [7440-48-4] ^	**36.1**		ug/L	1	1.10	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Lead [7439-92-1] ^	**5.26**	J	ug/L	1	1.90	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Nickel [7440-02-0] ^	**169**		ug/L	1	1.80	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Selenium [7782-49-2] ^	20.8	UD	ug/L	25	20.8	25.0	0F16008	EPA 6020A	06/18/10 10:41	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Thallium [7440-28-0] ^	**4.18**	JD	ug/L	25	2.75	25.0	0F16008	EPA 6020A	06/18/10 10:41	VLO	
Vanadium [7440-62-2] ^	**105**		ug/L	1	1.40	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	
Zinc [7440-66-6] ^	**45.2**		ug/L	1	3.80	10.0	0F10012	EPA 6010C	06/15/10 15:19	JDH	

www.encolabs.com

Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	> 2000		mg/L	1	2.0	2.0	0F10008	SM 5210B	06/10/10 13:54	JOC	B-02
Chemical Oxygen Demand [ECL-0035] ^	**4700**		mg/L	1	28	100	0F11024	SM 5220D	06/11/10 18:37	JOC	
Nitrate as N [14797-55-8] ^	0.025	U	mg/L	1	0.025	0.10	0F11038	EPA 353.2	06/14/10 12:37	AJB	
Nitrate/Nitrite as N [ECL-0010] ^	**0.040**	J	mg/L	1	0.025	0.10	0F10010	EPA 353.2	06/10/10 11:21	PEV	
Nitrite as N [14797-65-0] ^	**0.040**	JB	mg/L	1	0.0056	0.10	0F09002	EPA 353.2	06/09/10 13:57	PEV	J-01
pH [ECL-0062] ^	**6.6**		pH Units	1	1.0	1.0	0F10022	SM4500-H/B	06/10/10 14:30	FLT	Q
Phosphorus [7723-14-0] ^	**3.3**	D	mg/L	10	0.25	1.0	0F15005	EPA 365.4	06/16/10 10:42	PEV	
Sulfate as SO4 [14808-79-8] ^	**1700**	D	mg/L	20	2.4	100	0F14004	EPA 300.0	06/15/10 07:41	PEV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0F10005 - EPA 5030B_MS

Blank (0F10005-BLK1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 11:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
m,p-Xylenes	0.18	U	2.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
o-Xylene	0.088	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0F10005 - EPA 5030B_MS

Blank (0F10005-BLK1) Continued Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 11:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

LCS (0F10005-BS1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	21		1.0	ug/L	20.0		105	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		93	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	21		1.0	ug/L	20.0		104	75-115			
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

Matrix Spike (0F10005-MS1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 12:29

Source: C006671-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	102	75-133			
Benzene	22		1.0	ug/L	20.0	0.050 U	108	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117			
Toluene	19		1.0	ug/L	20.0	0.053 U	96	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.13 U	108	75-115			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*69-110*			

Matrix Spike Dup (0F10005-MSD1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 13:00

Source: C006671-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.15 U	94	75-133	8	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	102	81-134	6	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.069 U	91	83-117	8	16	
Toluene	17		1.0	ug/L	20.0	0.053 U	87	71-118	9	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	101	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*80*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0F10012 - EPA 3005A

Blank (0F10012-BLK1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:40

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0F10012 - EPA 3005A

Blank (0F10012-BLK1) Continued Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0F10012-BS1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1090		10.0	ug/L	1000		109	80-120			
Barium	1100		10.0	ug/L	1000		110	80-120			
Beryllium	556		1.00	ug/L	500		111	80-120			
Cadmium	542		1.00	ug/L	500		108	80-120			
Chromium	1110		10.0	ug/L	1000		111	80-120			
Cobalt	1050		10.0	ug/L	1000		105	80-120			
Copper	569		10.0	ug/L	500		114	80-120			
Lead	1080		10.0	ug/L	1000		108	80-120			
Nickel	1100		10.0	ug/L	1000		110	80-120			
Silver	101		10.0	ug/L	100		101	80-120			
Vanadium	545		10.0	ug/L	500		109	80-120			
Zinc	1110		10.0	ug/L	1000		111	80-120			

Matrix Spike (0F10012-MS1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:57

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1080		10.0	ug/L	1000	2.80 U	108	75-125			
Barium	1060		10.0	ug/L	1000	1.00 U	106	75-125			
Beryllium	547		1.00	ug/L	500	0.100 U	109	75-125			
Cadmium	526		1.00	ug/L	500	0.360 U	105	75-125			
Chromium	1080		10.0	ug/L	1000	1.00 U	108	75-125			
Cobalt	1020		10.0	ug/L	1000	1.10 U	102	75-125			
Copper	554		10.0	ug/L	500	1.60 U	111	75-125			
Lead	1070		10.0	ug/L	1000	1.90 U	107	75-125			
Nickel	1070		10.0	ug/L	1000	1.80 U	107	75-125			
Silver	97.4		10.0	ug/L	100	1.90 U	97	75-125			
Vanadium	530		10.0	ug/L	500	1.40 U	106	75-125			
Zinc	1080		10.0	ug/L	1000	3.80 U	108	75-125			

Matrix Spike Dup (0F10012-MSD1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 15:00

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0F10012 - EPA 3005A

Matrix Spike Dup (0F10012-MSD1) Continued Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 15:00

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1080		10.0	ug/L	1000	2.80 U	108	75-125	0.3	20	
Barium	1070		10.0	ug/L	1000	1.00 U	107	75-125	0.5	20	
Beryllium	547		1.00	ug/L	500	0.100 U	109	75-125	0.06	20	
Cadmium	529		1.00	ug/L	500	0.360 U	106	75-125	0.6	20	
Chromium	1080		10.0	ug/L	1000	1.00 U	108	75-125	0.6	20	
Cobalt	1030		10.0	ug/L	1000	1.10 U	103	75-125	0.5	20	
Copper	557		10.0	ug/L	500	1.60 U	111	75-125	0.5	20	
Lead	1070		10.0	ug/L	1000	1.90 U	107	75-125	0.0007	20	
Nickel	1080		10.0	ug/L	1000	1.80 U	108	75-125	0.8	20	
Silver	99.1		10.0	ug/L	100	1.90 U	99	75-125	2	20	
Vanadium	532		10.0	ug/L	500	1.40 U	106	75-125	0.4	20	
Zinc	1090		10.0	ug/L	1000	3.80 U	109	75-125	0.6	20	

Post Spike (0F10012-PS1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 15:03

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.04		0.0100	mg/L	1.00	-0.000791	104	80-120			
Barium	1.04		0.0100	mg/L	1.00	0.000427	104	80-120			
Beryllium	0.527		0.00100	mg/L	0.500	-1.66E-5	105	80-120			
Cadmium	0.513		0.00100	mg/L	0.500	3.14E-5	103	80-120			
Chromium	1.05		0.0100	mg/L	1.00	-0.000122	105	80-120			
Cobalt	0.999		0.0100	mg/L	1.00	6.15E-5	100	80-120			
Copper	0.540		0.0100	mg/L	0.500	0.000971	108	80-120			
Lead	1.03		0.0100	mg/L	1.00	0.00128	103	80-120			
Nickel	1.04		0.0100	mg/L	1.00	-0.000417	104	80-120			
Silver	0.0843		0.0100	mg/L	0.100	0.000426	84	80-120			
Vanadium	0.517		0.0100	mg/L	0.500	0.000218	103	80-120			
Zinc	1.06		0.0100	mg/L	1.00	0.000439	106	80-120			

Batch 0F16008 - EPA 3005A

Blank (0F16008-BLK1) Prepared: 06/16/2010 09:43 Analyzed: 06/18/2010 09:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0F16008-BS1) Prepared: 06/16/2010 09:43 Analyzed: 06/18/2010 09:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.7		2.00	ug/L	25.0		99	80-120			
Selenium	26.1		1.00	ug/L	25.0		105	80-120			
Thallium	26.2		1.00	ug/L	25.0		105	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0F16008 - EPA 3005A

Matrix Spike (0F16008-MS1) Prepared: 06/16/2010 09:43 Analyzed: 06/18/2010 09:40

Source: C006017-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.8		2.00	ug/L	25.0	0.220 U	95	75-125			
Selenium	26.7		1.00	ug/L	25.0	0.830 U	107	75-125			
Thallium	25.4		1.00	ug/L	25.0	0.110 U	102	75-125			

Matrix Spike Dup (0F16008-MSD1) Prepared: 06/16/2010 09:43 Analyzed: 06/18/2010 09:44

Source: C006017-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.3		2.00	ug/L	25.0	0.220 U	97	75-125	2	20	
Selenium	26.5		1.00	ug/L	25.0	0.830 U	106	75-125	0.9	20	
Thallium	25.6		1.00	ug/L	25.0	0.110 U	102	75-125	0.9	20	

Post Spike (0F16008-PS1) Prepared: 06/16/2010 09:43 Analyzed: 06/18/2010 09:47

Source: C006017-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.1		2.00	ug/L	25.0	-0.0160	96	80-120			
Selenium	25.9		1.00	ug/L	25.0	-0.0500	104	80-120			
Thallium	25.5		1.00	ug/L	25.0	0.101	102	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0F09002 - NO PREP

Blank (0F09002-BLK1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**0.016**	**J**	0.10	mg/L							

LCS (0F09002-BS1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99	B	0.10	mg/L	1.00		99	80-120			

Matrix Spike (0F09002-MS1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:57

Source: C006223-01RE2

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.5	B	0.10	mg/L	1.00	0.59	93	80-120			

Matrix Spike Dup (0F09002-MSD1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:58

Source: C006223-01RE2

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.5	B	0.10	mg/L	1.00	0.59	94	80-120	0.7	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F10008 - NO PREP

Blank (0F10008-BLK1) Prepared & Analyzed: 06/10/2010 13:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (0F10008-BS1) Prepared & Analyzed: 06/10/2010 13:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		97	85-115			

Duplicate (0F10008-DUP1) Prepared & Analyzed: 06/10/2010 13:54

Source: C006158-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	

Batch 0F10010 - NO PREP

Blank (0F10010-BLK1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 10:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.025	U	0.10	mg/L							

LCS (0F10010-BS1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 10:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		96	80-120			

Matrix Spike (0F10010-MS1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 11:02

Source: C006141-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.31		0.10	mg/L	0.250	0.058	102	80-120			

Matrix Spike Dup (0F10010-MSD1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 11:04

Source: C006141-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.31		0.10	mg/L	0.250	0.058	102	80-120	0.3	25	

Batch 0F10022 - NO PREP

LCS (0F10022-BS1) Prepared & Analyzed: 06/10/2010 14:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.01		100	99-101			

Duplicate (0F10022-DUP1) Prepared & Analyzed: 06/10/2010 14:30

Source: C006397-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F10022 - NO PREP

Duplicate (0F10022-DUP1) Continued Prepared & Analyzed: 06/10/2010 14:30

Source: C006397-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	6.6		1.0	pH Units		6.6			0	25	Q

Batch 0F11024 - Same

Blank (0F11024-BLK1) Prepared: 06/11/2010 14:16 Analyzed: 06/11/2010 18:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2.8	U	10	mg/L							

LCS (0F11024-BS1) Prepared: 06/11/2010 14:16 Analyzed: 06/11/2010 18:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500		105	90-110			

Matrix Spike (0F11024-MS1) Prepared: 06/11/2010 14:16 Analyzed: 06/11/2010 18:37

Source: C006223-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	740		10	mg/L	500	220	104	90-110			

Matrix Spike Dup (0F11024-MSD1) Prepared: 06/11/2010 14:16 Analyzed: 06/11/2010 18:37

Source: C006223-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	720		10	mg/L	500	220	101	90-110	2	10	

Batch 0F14004 - NO PREP

Blank (0F14004-BLK1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 08:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.12	U	5.0	mg/L							

LCS (0F14004-BS1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 09:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0		97	90-110			

Matrix Spike (0F14004-MS1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 12:38

Source: C006232-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	81		5.0	mg/L	50.0	31	100	80-120			

Matrix Spike Dup (0F14004-MSD1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 12:59

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F14004 - NO PREP

Matrix Spike Dup (0F14004-MSD1) Continued Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 12:59

Source: C006232-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	83		5.0	mg/L	50.0	31	104	80-120	2	15	

Batch 0F15005 - Same

Blank (0F15005-BLK1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.025	U	0.10	mg/L							

LCS (0F15005-BS1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		101	80-120			

Matrix Spike (0F15005-MS1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:21

Source: C006348-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.9		0.10	mg/L	1.60	0.65	78	80-120			QM-07

Matrix Spike Dup (0F15005-MSD1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:23

Source: C006348-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.8		0.10	mg/L	1.60	0.65	74	80-120	4	25	QM-07

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-02	The sample dilutions set up for the analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/l. Therefore the reported result is an estimated value only.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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
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(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: Wake County Solid Waste Management (WA036)	Project Number: [none]
Address: 9025 Deponie Dr.	Project Name/Desc: North Wake County LF - Leachate
City/ST/Zip: Raleigh, NC 27614	PO # / Billing Info
Tel: 398-1908 / Fax:	Reporting Contact: Joe Alexander
Sampler(s) Name, Affiliation (Print)	Billing Contact: Anarosa Jones
Sampler(s) Signature	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due __/__/__

Lab Workorder: C006397

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	608 PCB TTO,608 Pest TTO	624 TTO,8260B Appendix 1	625 TTO	Ag,Al,As,Ba,Cd,Cr,Cu,Mo,Ni,Pb,Se,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	BOD SM5210B	Chloride 300,Fluoride 300,Nitrite as N 353.2,pH SM4500-H B	COD SM5220D	Cyanide Total 335.4	Hg	Sample Comments
	9209-Leachate	~~5-28-PM~~			SW	13	X	X	X	X	X	X	X	X	X	X	
		6-8-10	3:15PM	COMP													

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 6/8/10 3:28PM	Received By: [signature]	Date/Time: 6-8-10 1520
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.8c		Condition Upon Receipt: X 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

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Page ____ of ____

Client Name: Wake County Solid Waste Management (WA036)	Project Number: [none]
Address: 9025 Deponie Dr.	Project Name/Desc: North Wake County LF - Leachate
City/ST/Zip: Raleigh, NC 27614	PO # / Billing Info
Tel: 398-1908 Fax:	Reporting Contact: Joe Alexander
Sampler(s) Name, Affiliation (Print)	Billing Contact: Anarosa Jones
Sampler(s) Signature	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C006397

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Nitrate Calc 353.2	Nitrogen Total 353 Calc	NOX 353.2,P,TKN 351.2	O&G 1664A	Sulfate 300	TSS SM2540D					Sample Comments
	9209-Leachate	6/8/10	3:15		SW	13	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 6-8-10 3:28 PM	Received By: [signature]	Date/Time: 6-8-10 1530
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1, 8°C		Condition Upon Receipt: X 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

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

Tuesday, June 22, 2010

Wake County Solid Waste Management (WA036)

Attn: Joe Alexander

9025 Deponie Dr.

Raleigh, NC 27614

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: North Wake County LF - Leachate
ENCO Workorder: C006397

Dear Joe Alexander,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, June 8, 2010.

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.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. 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. Unless otherwise noted, all analyses were performed at ENCO Cary. 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 27.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 9209-Leachate **Lab ID: C006397-01** **Sampled: 06/08/10 15:15** **Received: 06/08/10 15:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
CALC	03/03/13			06/17/10	10:15	6/17/2010 10:25
EPA 1664A	07/06/10			06/21/10	08:52	6/22/2010 13:41
EPA 200.7	12/05/10			06/10/10	09:51	6/15/2010 15:19
EPA 335.4	06/22/10			06/11/10	12:42	6/14/2010 08:35
EPA 353.2	06/10/10	15:15		06/09/10	07:10	6/9/2010 13:57
EPA 353.2	07/06/10			06/10/10	09:56	6/10/2010 11:21
EPA 353.2	07/06/10			06/11/10	15:17	6/14/2010 12:37
EPA 365.4	07/06/10			06/15/10	10:23	6/16/2010 10:42
EPA 608	06/15/10		07/21/10	06/11/10	10:39	6/14/2010 11:59
EPA 608	06/15/10		07/21/10	06/11/10	10:53	6/14/2010 11:59
EPA 624	06/22/10			06/10/10	08:30	6/10/2010 15:38
EPA 625	06/15/10		07/20/10	06/10/10	15:45	6/11/2010 00:39
SM 2540D	06/15/10			06/11/10	09:36	6/11/2010 09:36
SM 5210B	06/10/10	15:15		06/10/10	13:54	6/10/2010 13:54
SM4500-H/B	06/08/10	15:29		06/10/10	14:30	6/10/2010 14:30

Client ID: 9209-Leachate **Lab ID: C006397-01RE1** **Sampled: 06/08/10 15:15** **Received: 06/08/10 15:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	07/06/10	06/14/10 07:34	6/15/2010 07:20
EPA 351.2	07/06/10	06/15/10 10:23	6/16/2010 11:21

Client ID: 9209-Leachate **Lab ID: C006397-01RE2** **Sampled: 06/08/10 15:15** **Received: 06/08/10 15:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	07/06/10	06/14/10 07:34	6/15/2010 07:41

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SAMPLE DETECTION SUMMARY

Client ID: 9209-Leachate **Lab ID: C006397-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dichlorobenzene	5.5	JD	1.0	10	ug/L	EPA 624	
Aluminum - Total	223	B	17	100	ug/L	EPA 200.7	QB-01
Arsenic - Total	109		2.8	10.0	ug/L	EPA 200.7	
Barium - Total	242		1.00	10.0	ug/L	EPA 200.7	
Benzoic acid	510	D	36	100	ug/L	EPA 625	R-05
Biochemical Oxygen Demand	> 2000		2.0	2.0	mg/L	SM 5210B	B-02
Bis(2-ethylhexyl)phthalate	54	JD	26	100	ug/L	EPA 625	R-05
Chromium - Total	188		1.0	10.0	ug/L	EPA 200.7	
Diethylphthalate	60	JD	6.1	100	ug/L	EPA 625	R-05
DPH (as Azobenzene)	18	JD	14	100	ug/L	EPA 625	R-05
Endosulfan I	0.12		0.016	0.050	ug/L	EPA 608	
Ethylbenzene	12	D	1.0	10	ug/L	EPA 624	
Isophorone	16	JD	16	100	ug/L	EPA 625	R-05
Lead - Total	5.3	J	1.9	10.0	ug/L	EPA 200.7	
Molybdenum - Total	60.6		2.5	10.0	ug/L	EPA 200.7	
Nickel - Total	169		1.8	10.0	ug/L	EPA 200.7	
Nitrate/Nitrite as N	0.040	J	0.025	0.10	mg/L	EPA 353.2	
Nitrite as N	0.040	JB	0.0056	0.10	mg/L	EPA 353.2	J-01
Oil & Grease (HEM)	7.13		3.00	5.00	mg/L	EPA 1664A	
pH	6.6		1.0	1.0	pH Units	SM4500-H/B	Q
Phenol	900	D	12	100	ug/L	EPA 625	R-05
Phosphorus	3.3	D	0.25	1.0	mg/L	EPA 365.4	
Selenium - Total	7.0	J	2.7	10.0	ug/L	EPA 200.7	
Toluene	35	D	0.53	10	ug/L	EPA 624	
Total Nitrogen	1100		0.021	0.10	mg/L	CALC	
Total Suspended Solids	13		1.0	1.0	mg/L	SM 2540D	
Zinc - Total	45.2		3.8	10.0	ug/L	EPA 200.7	

Client ID: 9209-Leachate **Lab ID: C006397-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Fluoride	1.2	D	0.017	0.80	mg/L	EPA 300.0	
Total Kjeldahl Nitrogen	1100	D	18	48	mg/L	EPA 351.2	

Client ID: 9209-Leachate **Lab ID: C006397-01RE2**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chloride	1600	D	0.36	100	mg/L	EPA 300.0	
Sulfate as SO4	1700	D	2.4	100	mg/L	EPA 300.0	

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ANALYTICAL RESULTS

Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	1.5	UD	ug/L	10	1.5	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.85	UD	ug/L	10	0.85	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.68	UD	ug/L	10	0.68	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.50	UD	ug/L	10	0.50	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,1-Dichloroethene [75-35-4] ^	1.5	UD	ug/L	10	1.5	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.52	UD	ug/L	10	0.52	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.82	UD	ug/L	10	0.82	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.98	UD	ug/L	10	0.98	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.92	UD	ug/L	10	0.92	10	0F10005	EPA 624	06/10/10 15:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**5.5**	JD	ug/L	10	1.0	10	0F10005	EPA 624	06/10/10 15:38	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	9.4	UD	ug/L	10	9.4	50	0F10005	EPA 624	06/10/10 15:38	JKG	
Acrolein [107-02-8] ^	30	UD	ug/L	10	30	100	0F10005	EPA 624	06/10/10 15:38	JKG	
Acrylonitrile [107-13-1] ^	21	UD	ug/L	10	21	100	0F10005	EPA 624	06/10/10 15:38	JKG	
Benzene [71-43-2] ^	0.50	UD	ug/L	10	0.50	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Bromodichloromethane [75-27-4] ^	1.0	UD	ug/L	10	1.0	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Bromoform [75-25-2] ^	2.0	UD	ug/L	10	2.0	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Bromomethane [74-83-9] ^	2.8	UD	ug/L	10	2.8	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Carbon Tetrachloride [56-23-5] ^	0.82	UD	ug/L	10	0.82	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Chlorobenzene [108-90-7] ^	0.69	UD	ug/L	10	0.69	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Chloroethane [75-00-3] ^	1.8	UD	ug/L	10	1.8	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Chloroform [67-66-3] ^	0.83	UD	ug/L	10	0.83	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Chloromethane [74-87-3] ^	0.50	UD	ug/L	10	0.50	10	0F10005	EPA 624	06/10/10 15:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.73	UD	ug/L	10	0.73	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Dibromochloromethane [124-48-1] ^	0.67	UD	ug/L	10	0.67	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Ethylbenzene [100-41-4] ^	**12**	D	ug/L	10	1.0	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Methylene Chloride [75-09-2] ^	0.70	UD	ug/L	10	0.70	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Tetrachloroethene [127-18-4] ^	0.99	UD	ug/L	10	0.99	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Toluene [108-88-3] ^	**35**	D	ug/L	10	0.53	10	0F10005	EPA 624	06/10/10 15:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	1.1	UD	ug/L	10	1.1	10	0F10005	EPA 624	06/10/10 15:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.80	UD	ug/L	10	0.80	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Trichloroethene [79-01-6] ^	1.3	UD	ug/L	10	1.3	10	0F10005	EPA 624	06/10/10 15:38	JKG	
Vinyl chloride [75-01-4] ^	0.83	UD	ug/L	10	0.83	10	0F10005	EPA 624	06/10/10 15:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*79 %*	*51-122*	*0F10005*	*EPA 624*	*06/10/10 15:38*	*JKG*	
Dibromofluoromethane	*37*	*1*	*50.0*	*75 %*	*68-117*	*0F10005*	*EPA 624*	*06/10/10 15:38*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0F10005*	*EPA 624*	*06/10/10 15:38*	*JKG*	

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Description: 9209-Leachate | **Lab Sample ID:** C006397-01 | **Received:** 06/08/10 15:30

Matrix: Surface Water | **Sampled:** 06/08/10 15:15 | **Work Order:** C006397

Project: North Wake County LF - Leachate | **Sampled By:** Joe Alexander

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1] ^	13	UD	ug/L	10	13	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
1,2-Dichlorobenzene [95-50-1] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
1,3-Dichlorobenzene [541-73-1] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
1,4-Dichlorobenzene [106-46-7] ^	12	UD	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
1-Methylnaphthalene [90-12-0] ^	14	UD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,4,5-Trichlorophenol [95-95-4] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,4,6-Trichlorophenol [88-06-2] ^	15	UD	ug/L	10	15	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,4-Dichlorophenol [120-83-2] ^	20	UD	ug/L	10	20	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,4-Dimethylphenol [105-67-9] ^	26	UD	ug/L	10	26	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,4-Dinitrophenol [51-28-5] ^	26	UD	ug/L	10	26	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,4-Dinitrotoluene [121-14-2] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2,6-Dinitrotoluene [606-20-2] ^	10	UD	ug/L	10	10	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2-Chloronaphthalene [91-58-7] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2-Chlorophenol [95-57-8] ^	19	UD	ug/L	10	19	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2-Methyl-4,6-dinitrophenol [534-52-1] ^	19	UD	ug/L	10	19	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2-Methylnaphthalene [91-57-6] ^	13	UD	ug/L	10	13	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
2-Nitrophenol [88-75-5] ^	23	UD	ug/L	10	23	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
3,3'-Dichlorobenzidine [91-94-1] ^	17	UD	ug/L	10	17	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
4-Bromophenyl-phenylether [101-55-3] ^	10	UD	ug/L	10	10	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
4-Chloro-3-methylphenol [59-50-7] ^	16	UD	ug/L	10	16	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
4-Chlorophenyl-phenylether [7005-72-3] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
4-Nitrophenol [100-02-7] ^	12	UD	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Acenaphthene [83-32-9] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Acenaphthylene [208-96-8] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Anthracene [120-12-7] ^	6.4	UD	ug/L	10	6.4	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Benzidine [92-87-5] ^	12	UD	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	QV-01, R-05
Benzo(a)anthracene [56-55-3] ^	7.6	UD	ug/L	10	7.6	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Benzo(a)pyrene [50-32-8] ^	10	UD	ug/L	10	10	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Benzo(b)fluoranthene [205-99-2] ^	7.8	UD	ug/L	10	7.8	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Benzo(g,h,i)perylene [191-24-2] ^	19	UD	ug/L	10	19	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Benzo(k)fluoranthene [207-08-9] ^	7.7	UD	ug/L	10	7.7	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Benzoic acid [65-85-0] ^	**510**	D	ug/L	10	36	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Bis(2-chloroethoxy)methane [111-91-1] ^	19	UD	ug/L	10	19	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Bis(2-chloroethyl)ether [111-44-4] ^	19	UD	ug/L	10	19	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Bis(2-chloroisopropyl)ether [108-60-1] ^	18	UD	ug/L	10	18	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**54**	JD	ug/L	10	26	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Butylbenzylphthalate [85-68-7] ^	14	UD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Chrysene [218-01-9] ^	9.2	UD	ug/L	10	9.2	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Dibenzo(a,h)anthracene [53-70-3] ^	18	UD	ug/L	10	18	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Diethylphthalate [84-66-2] ^	**60**	JD	ug/L	10	6.1	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Dimethylphthalate [131-11-3] ^	7.9	UD	ug/L	10	7.9	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Di-n-butylphthalate [84-74-2] ^	14	UD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Di-n-octylphthalate [117-84-0] ^	14	UD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
DPH (as Azobenzene) [103-33-3]	**18**	JD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Fluoranthene [206-44-0] ^	12	UD	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Fluorene [86-73-7] ^	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Hexachlorobenzene [118-74-1] ^	12	UD	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Hexachlorobutadiene [87-68-3] ^	12	UD	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Hexachlorocyclopentadiene [77-47-4] ^	10	UD	ug/L	10	10	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Hexachloroethane [67-72-1] ^	9.7	UD	ug/L	10	9.7	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05

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Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Indeno(1,2,3-cd)pyrene [193-39-5] ^	17	UD	ug/L	10	17	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Isophorone [78-59-1] ^	**16**	JD	ug/L	10	16	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Naphthalene [91-20-3] ^	14	UD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Nitrobenzene [98-95-3] ^	19	UD	ug/L	10	19	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
N-Nitrosodimethylamine [62-75-9] ^	14	UD	ug/L	10	14	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
N-Nitroso-di-n-propylamine [621-64-7] ^	18	UD	ug/L	10	18	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]	11	UD	ug/L	10	11	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Pentachlorophenol [87-86-5] ^	10	UD	ug/L	10	10	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Phenanthrene [85-01-8] ^	7.4	UD	ug/L	10	7.4	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Phenol [108-95-2] ^	**900**	D	ug/L	10	12	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05
Pyrene [129-00-0] ^	13	UD	ug/L	10	13	100	0F10020	EPA 625	06/11/10 00:39	DFM	R-05

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*81*	*10*	*100*	*81 %*	*18-157*	*0F10020*	*EPA 625*	*06/11/10 00:39*	*DFM*	*R-05*
2-Fluorobiphenyl	*29*	*10*	*50.0*	*57 %*	*15-139*	*0F10020*	*EPA 625*	*06/11/10 00:39*	*DFM*	*R-05*
2-Fluorophenol	*36*	*10*	*100*	*36 %*	*10-104*	*0F10020*	*EPA 625*	*06/11/10 00:39*	*DFM*	*R-05*
Nitrobenzene-d5	*28*	*10*	*50.0*	*56 %*	*16-140*	*0F10020*	*EPA 625*	*06/11/10 00:39*	*DFM*	*R-05*
Phenol-d5	*39*	*10*	*100*	*39 %*	*10-83*	*0F10020*	*EPA 625*	*06/11/10 00:39*	*DFM*	*R-05*
Terphenyl-d14	*45*	*10*	*50.0*	*90 %*	*23-164*	*0F10020*	*EPA 625*	*06/11/10 00:39*	*DFM*	*R-05*

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Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.013	U	ug/L	1	0.013	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
4,4'-DDE [72-55-9] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
4,4'-DDT [50-29-3] ^	0.015	U	ug/L	1	0.015	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Aldrin [309-00-2] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
alpha-BHC [319-84-6] ^	0.015	U	ug/L	1	0.015	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
beta-BHC [319-85-7] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Chlordane (n.o.s.) [57-74-9]	0.020	U	ug/L	1	0.020	1.0	0F11018	EPA 608	06/14/10 11:59	JHH	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0F11018	EPA 608	06/14/10 11:59	JHH	
delta-BHC [319-86-8] ^	0.014	U	ug/L	1	0.014	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Dieldrin [60-57-1] ^	0.0089	U	ug/L	1	0.0089	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Endosulfan I [959-98-8] ^	**0.12**		ug/L	1	0.016	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Endosulfan II [33213-65-9] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Endosulfan sulfate [1031-07-8] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Endrin [72-20-8] ^	0.013	U	ug/L	1	0.013	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Endrin aldehyde [7421-93-4] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
gamma-BHC [58-89-9] ^	0.016	U	ug/L	1	0.016	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Heptachlor [76-44-8] ^	0.012	U	ug/L	1	0.012	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
Heptachlor epoxide [1024-57-3] ^	0.0089	U	ug/L	1	0.0089	0.050	0F11018	EPA 608	06/14/10 11:59	JHH	
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	0F11019	EPA 608	06/14/10 11:59	JHH	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	0F11019	EPA 608	06/14/10 11:59	JHH	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	0F11019	EPA 608	06/14/10 11:59	JHH	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	0F11019	EPA 608	06/14/10 11:59	JHH	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	0F11019	EPA 608	06/14/10 11:59	JHH	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	0F11019	EPA 608	06/14/10 11:59	JHH	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	1.0	0F11018	EPA 608	06/14/10 11:59	JHH	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.60*	*1*	*1.00*	*60 %*	*45-151*	*0F11019*	*EPA 608*	*06/14/10 11:59*	*JHH*	
2,4,5,6-TCMX	*0.66*	*1*	*1.00*	*66 %*	*44-134*	*0F11018*	*EPA 608*	*06/14/10 11:59*	*JHH*	
Decachlorobiphenyl	*0.53*	*1*	*1.00*	*53 %*	*37-149*	*0F11018*	*EPA 608*	*06/14/10 11:59*	*JHH*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*42-159*	*0F11019*	*EPA 608*	*06/14/10 11:59*	*JHH*	

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Description: 9209-Leachate
Matrix: Surface Water
Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**223**	B	ug/L	1	17	100	0F10012	EPA 200.7	06/15/10 15:19	JDH	QB-01
Arsenic [7440-38-2] ^	**109**		ug/L	1	2.8	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Barium [7440-39-3] ^	**242**		ug/L	1	1.00	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Chromium [7440-47-3] ^	**188**		ug/L	1	1.0	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Lead [7439-92-1] ^	**5.3**	J	ug/L	1	1.9	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Molybdenum [7439-98-7] ^	**60.6**		ug/L	1	2.5	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Nickel [7440-02-0] ^	**169**		ug/L	1	1.8	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Selenium [7782-49-2] ^	**7.0**	J	ug/L	1	2.7	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	
Zinc [7440-66-6] ^	**45.2**		ug/L	1	3.8	10.0	0F10012	EPA 200.7	06/15/10 15:19	JDH	

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Description: 9209-Leachate
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Project: North Wake County LF - Leachate

Lab Sample ID: C006397-01
Sampled: 06/08/10 15:15
Sampled By: Joe Alexander

Received: 06/08/10 15:30
Work Order: C006397

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	> 2000		mg/L	1	2.0	2.0	0F10008	SM 5210B	06/10/10 13:54	JOC	B-02
Chloride [16887-00-6] ^	**1600**	D	mg/L	20	0.36	100	0F14004	EPA 300.0	06/15/10 07:41	PEV	
Cyanide (total) [57-12-5] ^	0.005	U	mg/L	1	0.005	0.005	0F11013	EPA 335.4	06/14/10 08:35	PEV	
Fluoride [16984-48-8] ^	**1.2**	D	mg/L	4	0.017	0.80	0F14004	EPA 300.0	06/15/10 07:20	PEV	
Nitrate as N [14797-55-8] ^	0.025	U	mg/L	1	0.025	0.10	0F11038	EPA 353.2	06/14/10 12:37	AJB	
Nitrate/Nitrite as N [ECL-0010] ^	**0.040**	J	mg/L	1	0.025	0.10	0F10010	EPA 353.2	06/10/10 11:21	PEV	
Nitrite as N [14797-65-0] ^	**0.040**	JB	mg/L	1	0.0056	0.10	0F09002	EPA 353.2	06/09/10 13:57	PEV	J-01
pH [ECL-0062] ^	**6.6**		pH Units	1	1.0	1.0	0F10022	SM4500-H/B	06/10/10 14:30	FLT	Q
Phosphorus [7723-14-0] ^	**3.3**	D	mg/L	10	0.25	1.0	0F15005	EPA 365.4	06/16/10 10:42	PEV	
Sulfate as SO4 [14808-79-8] ^	**1700**	D	mg/L	20	2.4	100	0F14004	EPA 300.0	06/15/10 07:41	PEV	
Total Kjeldahl Nitrogen [ECL-0162] ^	**1100**	D	mg/L	100	18	48	0F15004	EPA 351.2	06/16/10 11:21	PEV	
Total Nitrogen [17778-88-0]	**1100**		mg/L	1	0.021	0.10	0F17015	CALC	06/17/10 10:25	PEV	
Total Suspended Solids [ECL-0169] ^	**13**		mg/L	1	1.0	1.0	0F11009	SM 2540D	06/11/10 09:36	FLT	

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Description:	9209-Leachate	**Lab Sample ID:**	C006397-01	**Received:**	06/08/10 15:30
Matrix:	Surface Water	**Sampled:**	06/08/10 15:15	**Work Order:**	C006397
Project:	North Wake County LF - Leachate	**Sampled By:**	Joe Alexander		

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM) [C-0007] ^	**7.13**		mg/L	1	3.00	5.00	0F21001	EPA 1664A	06/22/10 13:41	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0F10005 - EPA 5030B_MS

Blank (0F10005-BLK1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 11:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,3-Dichlorobenzene	0.092	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Chloroethyl Vinyl Ether	0.94	U	5.0	ug/L							
Acrolein	3.0	U	10	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon Tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Methylene Chloride	0.070	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

LCS (0F10005-BS1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	21		1.0	ug/L	20.0		105	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		93	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	21		1.0	ug/L	20.0		104	75-115			
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*86*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0F10005 - EPA 5030B_MS

Matrix Spike (0F10005-MS1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 12:29

Source: C006671-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.15 U	102	75-133			
Benzene	22		1.0	ug/L	20.0	0.050 U	108	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117			
Toluene	19		1.0	ug/L	20.0	0.053 U	96	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.13 U	108	75-115			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*69-110*			

Matrix Spike Dup (0F10005-MSD1) Prepared: 06/10/2010 08:30 Analyzed: 06/10/2010 13:00

Source: C006671-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.15 U	94	75-133	8	20	
Benzene	20		1.0	ug/L	20.0	0.050 U	102	81-134	6	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.069 U	91	83-117	8	16	
Toluene	17		1.0	ug/L	20.0	0.053 U	87	71-118	9	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	101	75-115	7	18	
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*80*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0F10020 - EPA 3510C_MS

Blank (0F10020-BLK1) Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 21:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.3	U	10	ug/L							
1,2-Dichlorobenzene	1.1	U	10	ug/L							
1,3-Dichlorobenzene	1.1	U	10	ug/L							
1,4-Dichlorobenzene	1.2	U	10	ug/L							
1-Methylnaphthalene	1.4	U	10	ug/L							
2,4,5-Trichlorophenol	1.1	U	10	ug/L							
2,4,6-Trichlorophenol	1.5	U	10	ug/L							
2,4-Dichlorophenol	2.0	U	10	ug/L							
2,4-Dimethylphenol	2.6	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.0	U	10	ug/L							
2-Chloronaphthalene	1.1	U	10	ug/L							
2-Chlorophenol	1.9	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	1.9	U	10	ug/L							
2-Methylnaphthalene	1.3	U	10	ug/L							
2-Nitrophenol	2.3	U	10	ug/L							
3,3'-Dichlorobenzidine	1.7	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0F10020 - EPA 3510C_MS

Blank (0F10020-BLK1) Continued Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 21:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.6	U	10	ug/L							
4-Chlorophenyl-phenylether	1.1	U	10	ug/L							
4-Nitrophenol	1.2	U	10	ug/L							
Acenaphthene	1.1	U	10	ug/L							
Acenaphthylene	1.1	U	10	ug/L							
Anthracene	0.64	U	10	ug/L							
Benzidine	1.2	U	10	ug/L							QV-01
Benzo(a)anthracene	0.76	U	10	ug/L							
Benzo(a)pyrene	1.0	U	10	ug/L							
Benzo(b)fluoranthene	0.78	U	10	ug/L							
Benzo(g,h,i)perylene	1.9	U	10	ug/L							
Benzo(k)fluoranthene	0.77	U	10	ug/L							
Benzoic acid	3.6	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.9	U	10	ug/L							
Bis(2-chloroethyl)ether	1.9	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.8	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	2.6	U	10	ug/L							
Butylbenzylphthalate	1.4	U	10	ug/L							
Chrysene	0.92	U	10	ug/L							
Dibenzo(a,h)anthracene	1.8	U	10	ug/L							
Diethylphthalate	0.61	U	10	ug/L							
Dimethylphthalate	0.79	U	10	ug/L							
Di-n-butylphthalate	1.4	U	10	ug/L							
Di-n-octylphthalate	1.4	U	10	ug/L							
DPH (as Azobenzene)	1.4	U	10	ug/L							
Fluoranthene	1.2	U	10	ug/L							
Fluorene	1.1	U	10	ug/L							
Hexachlorobenzene	1.2	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.0	U	10	ug/L							
Hexachloroethane	0.97	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	1.7	U	10	ug/L							
Isophorone	1.6	U	10	ug/L							
Naphthalene	1.4	U	10	ug/L							
Nitrobenzene	1.9	U	10	ug/L							
N-Nitrosodimethylamine	1.4	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.8	U	10	ug/L							
N-Nitrosodiphenylamine/Diphenylamine	1.1	U	10	ug/L							
Pentachlorophenol	1.0	U	10	ug/L							
Phenanthrene	0.74	U	10	ug/L							
Phenol	1.2	U	10	ug/L							
Pyrene	1.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*86*			*ug/L*	*100*		*86*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*15-139*			
Surrogate: 2-Fluorophenol	*52*			*ug/L*	*100*		*52*	*10-104*			
Surrogate: Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*72*	*16-140*			
Surrogate: Phenol-d5	*45*			*ug/L*	*100*		*45*	*10-83*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0F10020 - EPA 3510C_MS

Blank (0F10020-BLK1) Continued Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 21:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Terphenyl-d14	*52*			*ug/L*	*50.0*		*104*	*23-164*			

LCS (0F10020-BS1) Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 20:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	39		10	ug/L	50.0		78	27-90			
1,4-Dichlorobenzene	37		10	ug/L	50.0		75	23-84			
2,4-Dinitrotoluene	50		10	ug/L	50.0		100	67-132			
2-Chlorophenol	38		10	ug/L	50.0		76	40-109			
4-Chloro-3-methylphenol	46		10	ug/L	50.0		93	58-121			
4-Nitrophenol	35		10	ug/L	50.0		70	33-105			
Acenaphthene	44		10	ug/L	50.0		88	43-118			
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0		79	48-126			
Pentachlorophenol	44		10	ug/L	50.0		88	51-135			
Phenol	24		10	ug/L	50.0		48	19-78			
Pyrene	49		10	ug/L	50.0		99	65-134			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*102*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*85*	*15-139*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-104*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*83*	*16-140*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-83*			
Surrogate: Terphenyl-d14	*55*			*ug/L*	*50.0*		*110*	*23-164*			

Matrix Spike (0F10020-MS1) Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 22:07

Source: C006671-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	41		10	ug/L	50.0	1.3 U	82	27-90			
1,4-Dichlorobenzene	39		10	ug/L	50.0	1.2 U	79	23-84			
2,4-Dinitrotoluene	52		10	ug/L	50.0	1.1 U	103	67-132			
2-Chlorophenol	39		10	ug/L	50.0	1.9 U	79	40-109			
4-Chloro-3-methylphenol	49		10	ug/L	50.0	1.6 U	98	58-121			
4-Nitrophenol	37		10	ug/L	50.0	1.2 U	73	33-105			
Acenaphthene	46		10	ug/L	50.0	1.1 U	91	43-118			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.8 U	83	48-126			
Pentachlorophenol	47		10	ug/L	50.0	1.0 U	94	51-135			
Phenol	26		10	ug/L	50.0	1.2 U	52	19-78			
Pyrene	53		10	ug/L	50.0	1.3 U	106	65-134			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*103*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*86*	*15-139*			
Surrogate: 2-Fluorophenol	*61*			*ug/L*	*100*		*61*	*10-104*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*83*	*16-140*			
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-83*			
Surrogate: Terphenyl-d14	*57*			*ug/L*	*50.0*		*113*	*23-164*			

Matrix Spike Dup (0F10020-MSD1) Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 22:37

Source: C006671-10

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 0F10020 - EPA 3510C_MS

Matrix Spike Dup (0F10020-MSD1) Continued Prepared: 06/10/2010 15:45 Analyzed: 06/10/2010 22:37

Source: C006671-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	37		10	ug/L	50.0	1.3 U	75	27-90	9	43	
1,4-Dichlorobenzene	36		10	ug/L	50.0	1.2 U	72	23-84	9	39	
2,4-Dinitrotoluene	49		10	ug/L	50.0	1.1 U	98	67-132	6	17	
2-Chlorophenol	37		10	ug/L	50.0	1.9 U	75	40-109	5	22	
4-Chloro-3-methylphenol	45		10	ug/L	50.0	1.6 U	90	58-121	8	22	
4-Nitrophenol	35		10	ug/L	50.0	1.2 U	71	33-105	3	27	
Acenaphthene	42		10	ug/L	50.0	1.1 U	83	43-118	9	21	
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0	1.8 U	78	48-126	7	23	
Pentachlorophenol	43		10	ug/L	50.0	1.0 U	86	51-135	8	11	
Phenol	25		10	ug/L	50.0	1.2 U	49	19-78	5	18	
Pyrene	50		10	ug/L	50.0	1.3 U	100	65-134	6	16	
Surrogate: 2,4,6-Tribromophenol	*96*			*ug/L*	*100*		*96*	*18-157*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*79*	*15-139*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-104*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*16-140*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-83*			
Surrogate: Terphenyl-d14	*54*			*ug/L*	*50.0*		*109*	*23-164*			

Semivolatile Organic Compounds by GC - Quality Control

Batch 0F11018 - EPA 3510C

Blank (0F11018-BLK1) Prepared: 06/11/2010 10:39 Analyzed: 06/14/2010 09:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.013	U	0.050	ug/L							
4,4'-DDE	0.012	U	0.050	ug/L							
4,4'-DDT	0.015	U	0.050	ug/L							
Aldrin	0.012	U	0.050	ug/L							
alpha-BHC	0.015	U	0.050	ug/L							
beta-BHC	0.012	U	0.050	ug/L							
Chlordane (n.o.s.)	0.020	U	1.0	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
delta-BHC	0.014	U	0.050	ug/L							
Dieldrin	0.0089	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.012	U	0.050	ug/L							
Endosulfan sulfate	0.012	U	0.050	ug/L							
Endrin	0.013	U	0.050	ug/L							
Endrin aldehyde	0.012	U	0.050	ug/L							
gamma-BHC	0.016	U	0.050	ug/L							
Heptachlor	0.012	U	0.050	ug/L							
Heptachlor epoxide	0.0089	U	0.050	ug/L							
Toxaphene	0.22	U	1.0	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.2*			*ug/L*	*1.00*		*116*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*106*	*37-149*			

QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Batch 0F11018 - EPA 3510C

LCS (0F11018-BS1) Prepared: 06/11/2010 10:39 Analyzed: 06/14/2010 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00		105	37-139			
Aldrin	1.2		0.050	ug/L	1.00		120	47-123			
Dieldrin	1.2		0.050	ug/L	1.00		123	46-132			
Endrin	1.2		0.050	ug/L	1.00		123	43-133			
gamma-BHC	1.2		0.050	ug/L	1.00		121	52-117			QL-02
Heptachlor	1.2		0.050	ug/L	1.00		122	45-122			
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.93*			*ug/L*	*1.00*		*93*	*37-149*			

Matrix Spike (0F11018-MS1) Prepared: 06/11/2010 10:39 Analyzed: 06/14/2010 10:26

Source: C006836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.015 U	110	37-139			
Aldrin	1.1		0.050	ug/L	1.00	0.012 U	111	47-123			
Dieldrin	1.2		0.050	ug/L	1.00	0.0089 U	115	46-132			
Endrin	1.2		0.050	ug/L	1.00	0.013 U	117	43-133			
gamma-BHC	1.1		0.050	ug/L	1.00	0.016 U	110	52-117			
Heptachlor	1.1		0.050	ug/L	1.00	0.012 U	112	45-122			
Surrogate: 2,4,5,6-TCMX	*0.83*			*ug/L*	*1.00*		*83*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.84*			*ug/L*	*1.00*		*84*	*37-149*			

Matrix Spike Dup (0F11018-MSD1) Prepared: 06/11/2010 10:39 Analyzed: 06/14/2010 10:39

Source: C006836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00	0.015 U	100	37-139	10	26	
Aldrin	1.2		0.050	ug/L	1.00	0.012 U	117	47-123	6	32	
Dieldrin	1.2		0.050	ug/L	1.00	0.0089 U	120	46-132	4	27	
Endrin	1.2		0.050	ug/L	1.00	0.013 U	120	43-133	2	26	
gamma-BHC	1.2		0.050	ug/L	1.00	0.016 U	117	52-117	6	28	
Heptachlor	1.2		0.050	ug/L	1.00	0.012 U	119	45-122	6	32	
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.89*			*ug/L*	*1.00*		*89*	*37-149*			

Batch 0F11019 - EPA 3510C

Blank (0F11019-BLK1) Prepared: 06/11/2010 10:53 Analyzed: 06/14/2010 09:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Batch 0F11019 - EPA 3510C

Blank (0F11019-BLK1) Continued Prepared: 06/11/2010 10:53 Analyzed: 06/14/2010 09:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,5,6-TCMX	*0.70*			*ug/L*	*1.00*		*70*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

LCS (0F11019-BS1) Prepared: 06/11/2010 10:53 Analyzed: 06/14/2010 10:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	13		0.50	ug/L	10.0		133	66-149			
PCB-1260	12		0.50	ug/L	10.0		123	64-150			
Surrogate: 2,4,5,6-TCMX	*0.70*			*ug/L*	*1.00*		*70*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

Matrix Spike (0F11019-MS1) Prepared: 06/11/2010 10:53 Analyzed: 06/14/2010 11:06

Source: C006836-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	12		0.50	ug/L	10.0	0.19 U	122	66-149			
PCB-1260	11		0.50	ug/L	10.0	0.13 U	110	64-150			
Surrogate: 2,4,5,6-TCMX	*0.60*			*ug/L*	*1.00*		*60*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

Matrix Spike Dup (0F11019-MSD1) Prepared: 06/11/2010 10:53 Analyzed: 06/14/2010 11:19

Source: C006836-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	14		0.50	ug/L	10.0	0.19 U	139	66-149	13	21	
PCB-1260	13		0.50	ug/L	10.0	0.13 U	126	64-150	13	18	
Surrogate: 2,4,5,6-TCMX	*0.70*			*ug/L*	*1.00*		*70*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.90*			*ug/L*	*1.00*		*90*	*42-159*			

Metals by EPA 200 Series Methods - Quality Control

Batch 0F10012 - EPA 3005A

Blank (0F10012-BLK1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**23**	**J**	100	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.0	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							

QUALITY CONTROL

Metals by EPA 200 Series Methods - Quality Control

Batch 0F10012 - EPA 3005A

Blank (0F10012-BLK1) Continued Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	3.8	U	10.0	ug/L							

LCS (0F10012-BS1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10800	B	100	ug/L	10000		108	85-115			
Arsenic	1090		10.0	ug/L	1000		109	85-115			
Barium	1100		10.0	ug/L	1000		110	85-115			
Cadmium	542		1.00	ug/L	500		108	85-115			
Chromium	1110		10.0	ug/L	1000		111	85-115			
Copper	569		10.0	ug/L	500		114	85-115			
Lead	1080		10.0	ug/L	1000		108	85-115			
Molybdenum	535		10.0	ug/L	500		107	85-115			
Nickel	1100		10.0	ug/L	1000		110	85-115			
Selenium	1130		10.0	ug/L	1000		113	85-115			
Silver	101		10.0	ug/L	100		101	85-115			
Zinc	1110		10.0	ug/L	1000		111	85-115			

Matrix Spike (0F10012-MS1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 14:57

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10600	B	100	ug/L	10000	18	106	75-125			
Arsenic	1080		10.0	ug/L	1000	2.8 U	108	75-125			
Barium	1060		10.0	ug/L	1000	1.00 U	106	75-125			
Cadmium	526		1.00	ug/L	500	0.360 U	105	75-125			
Chromium	1080		10.0	ug/L	1000	1.0 U	108	75-125			
Copper	554		10.0	ug/L	500	1.60 U	111	75-125			
Lead	1070		10.0	ug/L	1000	1.9 U	107	75-125			
Molybdenum	529		10.0	ug/L	500	2.5 U	106	75-125			
Nickel	1070		10.0	ug/L	1000	1.8 U	107	75-125			
Selenium	1120		10.0	ug/L	1000	2.7 U	112	75-125			
Silver	97.4		10.0	ug/L	100	1.9 U	97	75-125			
Zinc	1080		10.0	ug/L	1000	3.8 U	108	75-125			

Matrix Spike Dup (0F10012-MSD1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 15:00

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10500	B	100	ug/L	10000	18	105	75-125	0.3	25	
Arsenic	1080		10.0	ug/L	1000	2.8 U	108	75-125	0.3	25	
Barium	1070		10.0	ug/L	1000	1.00 U	107	75-125	0.5	25	
Cadmium	529		1.00	ug/L	500	0.360 U	106	75-125	0.6	25	
Chromium	1080		10.0	ug/L	1000	1.0 U	108	75-125	0.6	25	
Copper	557		10.0	ug/L	500	1.60 U	111	75-125	0.5	25	
Lead	1070		10.0	ug/L	1000	1.9 U	107	75-125	0.0007	25	
Molybdenum	532		10.0	ug/L	500	2.5 U	106	75-125	0.6	25	

QUALITY CONTROL

Metals by EPA 200 Series Methods - Quality Control

Batch 0F10012 - EPA 3005A

Matrix Spike Dup (0F10012-MSD1) Continued Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 15:00

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	1080		10.0	ug/L	1000	1.8 U	108	75-125	0.8	25	
Selenium	1120		10.0	ug/L	1000	2.7 U	112	75-125	0.6	25	
Silver	99.1		10.0	ug/L	100	1.9 U	99	75-125	2	25	
Zinc	1090		10.0	ug/L	1000	3.8 U	109	75-125	0.6	25	

Post Spike (0F10012-PS1) Prepared: 06/10/2010 09:51 Analyzed: 06/15/2010 15:03

Source: C006254-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.0		0.01	mg/L	1.00	-0.0008	104	75-125			

Classical Chemistry Parameters - Quality Control

Batch 0F09002 - NO PREP

Blank (0F09002-BLK1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**0.016**	**J**	0.10	mg/L							

LCS (0F09002-BS1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99	B	0.10	mg/L	1.00		99	80-120			

Matrix Spike (0F09002-MS1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:57

Source: C006223-01RE2

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.5	B	0.10	mg/L	1.00	0.59	93	80-120			

Matrix Spike Dup (0F09002-MSD1) Prepared: 06/09/2010 07:10 Analyzed: 06/09/2010 09:58

Source: C006223-01RE2

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.5	B	0.10	mg/L	1.00	0.59	94	80-120	0.7	25	

Batch 0F10008 - NO PREP

Blank (0F10008-BLK1) Prepared & Analyzed: 06/10/2010 13:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (0F10008-BS1) Prepared & Analyzed: 06/10/2010 13:54

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F10008 - NO PREP

LCS (0F10008-BS1) Continued Prepared & Analyzed: 06/10/2010 13:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		97	85-115			

Duplicate (0F10008-DUP1) Prepared & Analyzed: 06/10/2010 13:54

Source: C006158-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	

Batch 0F10010 - NO PREP

Blank (0F10010-BLK1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 10:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.025	U	0.10	mg/L							

LCS (0F10010-BS1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 10:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		96	80-120			

Matrix Spike (0F10010-MS1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 11:02

Source: C006141-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.31		0.10	mg/L	0.250	0.058	102	80-120			

Matrix Spike Dup (0F10010-MSD1) Prepared: 06/10/2010 09:56 Analyzed: 06/10/2010 11:04

Source: C006141-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.31		0.10	mg/L	0.250	0.058	102	80-120	0.3	25	

Batch 0F10022 - NO PREP

LCS (0F10022-BS1) Prepared & Analyzed: 06/10/2010 14:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.01		100	99-101			

Duplicate (0F10022-DUP1) Prepared & Analyzed: 06/10/2010 14:30

Source: C006397-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	6.6		1.0	pH Units		6.6			0	25	Q

Batch 0F11009 - NO PREP

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Blank (0F11009-BLK1) Prepared & Analyzed: 06/11/2010 09:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (0F11009-BS1) Prepared & Analyzed: 06/11/2010 09:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	89		1.0	mg/L	80.0		111	90-122			

Duplicate (0F11009-DUP1) Prepared & Analyzed: 06/11/2010 09:36

Source: C006488-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	410		1.0	mg/L		460			12	25	

Batch 0F11013 - Same

Blank (0F11013-BLK1) Prepared: 06/11/2010 12:42 Analyzed: 06/14/2010 07:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.005	U	0.005	mg/L							

LCS (0F11013-BS1) Prepared: 06/11/2010 12:42 Analyzed: 06/14/2010 08:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.005	mg/L	0.150		102	90-110			

Matrix Spike (0F11013-MS1) Prepared: 06/11/2010 12:42 Analyzed: 06/14/2010 08:25

Source: C006733-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.13		0.005	mg/L	0.150	0.005 U	84	90-110			QM-07

Matrix Spike Dup (0F11013-MSD1) Prepared: 06/11/2010 12:42 Analyzed: 06/14/2010 08:27

Source: C006733-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.12		0.005	mg/L	0.150	0.005 U	82	90-110	3	10	QM-07

Batch 0F14004 - NO PREP

Blank (0F14004-BLK1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 08:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.018	U	5.0	mg/L							
Fluoride	0.0043	U	0.20	mg/L							
Sulfate as SO4	0.12	U	5.0	mg/L							

LCS (0F14004-BS1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 09:32

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F14004 - NO PREP

LCS (0F14004-BS1) Continued Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 09:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	50		5.0	mg/L	50.0		100	90-110			
Fluoride	1.0		0.20	mg/L	1.00		101	90-110			
Sulfate as SO4	48		5.0	mg/L	50.0		97	90-110			

Matrix Spike (0F14004-MS1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 12:38

Source: C006232-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.2		0.20	mg/L	1.00	0.15	102	80-120			
Sulfate as SO4	81		5.0	mg/L	50.0	31	100	80-120			

Matrix Spike (0F14004-MS2) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 16:25

Source: C006232-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	83		5.0	mg/L	50.0	29	110	80-120			

Matrix Spike Dup (0F14004-MSD1) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 12:59

Source: C006232-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.2		0.20	mg/L	1.00	0.15	105	80-120	3	15	
Sulfate as SO4	83		5.0	mg/L	50.0	31	104	80-120	2	15	

Matrix Spike Dup (0F14004-MSD2) Prepared: 06/14/2010 07:34 Analyzed: 06/14/2010 16:46

Source: C006232-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	82		5.0	mg/L	50.0	29	107	80-120	2	15	

Batch 0F15004 - Same

Blank (0F15004-BLK1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 08:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	0.18	U	0.48	mg/L							

LCS (0F15004-BS1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 08:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	11		0.48	mg/L	12.0		91	80-120			

Matrix Spike (0F15004-MS1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 08:51

Source: C006348-01

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

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F15004 - Same

Matrix Spike (0F15004-MS1) Continued Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 08:51

Source: C006348-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	13		0.48	mg/L	12.0	1.2	97	80-120			

Matrix Spike Dup (0F15004-MSD1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 08:53

Source: C006348-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	13		0.48	mg/L	12.0	1.2	101	80-120	4	25	

Batch 0F15005 - Same

Blank (0F15005-BLK1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.025	U	0.10	mg/L							

LCS (0F15005-BS1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		101	80-120			

Matrix Spike (0F15005-MS1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:21

Source: C006348-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.9		0.10	mg/L	1.60	0.65	78	80-120			QM-07

Matrix Spike Dup (0F15005-MSD1) Prepared: 06/15/2010 10:23 Analyzed: 06/16/2010 10:23

Source: C006348-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.8		0.10	mg/L	1.60	0.65	74	80-120	4	25	QM-07

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F21001 - EPA 1664A

Blank (0F21001-BLK1) Prepared: 06/21/2010 08:52 Analyzed: 06/22/2010 13:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	3.00	U	5.00	mg/L							

LCS (0F21001-BS1) Prepared: 06/21/2010 08:52 Analyzed: 06/22/2010 13:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	36.2		5.00	mg/L	40.8		89	78-114			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0F21001 - EPA 1664A

Matrix Spike (0F21001-MS1) Prepared: 06/21/2010 08:52 Analyzed: 06/22/2010 13:41

Source: B002862-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	37.0		5.00	mg/L	41.0	3.00 U	90	78-114			

Matrix Spike Dup (0F21001-MSD1) Prepared: 06/21/2010 08:52 Analyzed: 06/22/2010 13:41

Source: B002862-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	38.1		5.00	mg/L	42.1	3.00 U	90	78-114	3	18	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-02	The sample dilutions set up for the analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/l. Therefore the reported result is an estimated value only.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: Wake County Solid Waste Management (WA036)	Project Number: [none]
Address: 9025 Deponie Dr.	Project Name/Desc: North Wake County LF - Leachate
City/ST/Zip: Raleigh, NC 27614	PO # / Billing Info
Tel: 398-1908 / Fax:	Reporting Contact: Joe Alexander
Sampler(s) Name, Affiliation (Print)	Billing Contact: Anarosa Jones
Sampler(s) Signature	Facility # (if required)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due __/__/__

Lab Workorder: C006397

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	608 PCB TTO,608 Pest TTO	624 TTO,8260B Appendix 1	625 TTO	Ag,Al,As,Ba,Cd,Cr,Cu,Mo,Ni,Pb,Se,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	BOD SM5210B	Chloride 300,Fluoride 300,Nitrite as N 353.2,pH SM4500-H B	COD SM5220D	Cyanide Total 335.4	Hg	Sample Comments
	9209-Leachate	~~[illegible]~~			SW	13	X	X	X	X	X	X	X	X	X	X	
		~~[illegible]~~															
		6-8-10	3:15PM	COMP													

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 6/8/10 3:28PM	Received By: [signature]	Date/Time: 6-8-10 1520
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.8c		Condition Upon Receipt: X 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

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: Wake County Solid Waste Management (WA036)	Project Number: [none]
Address: 9025 Deponie Dr.	Project Name/Desc: North Wake County LF - Leachate
City/ST/Zip: Raleigh, NC 27614	PO # / Billing Info
Tel: 398-1908 Fax:	Reporting Contact: Joe Alexander
Sampler(s) Name, Affiliation (Print)	Billing Contact: Anarosa Jones
Sampler(s) Signature	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C006397

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Nitrate Calc 353.2	Nitrogen Total 353 Calc	NOX 353.2,P,TKN 351.2	O&G 1664A	Sulfate 300	TSS SM2540D					Sample Comments
	9209-Leachate	6/8/10	3:15		SW	13	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 6-8-10 3:28 PM	Received By: [signature]	Date/Time: 6-8-10 1530
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1, 8°C		Condition Upon Receipt: X 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

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GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178
www.gel.com

June 22, 2010

Ms. Stephanie Franz
Environmental Conservation Laboratories
102-A Woodwinds Ct.
Cary, North Carolina 27511

Re: ENCO Cary- LL Hg
Work Order: 254577

Dear Ms. Franz:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 11, 2010. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4300.

Sincerely,

Julie Robinson

Client Services Team
Project Manager

Enclosures

problem solved

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

ENCL001 Environmental Conservation Laboratories

Client SDG: 254577 GEL Work Order: 254577

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Client Services Team.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Environmental Conservation Laboratories
Address : 102-A Woodwinds Ct.
Cary, North Carolina 27511

Report Date: June 22, 2010

Contact: Ms. Stephanie Franz
Project: **ENCO Cary- LL Hg**

Client Sample ID:	9209- Leachate	Project:	ENCL00310
Sample ID:	254577001	Client ID:	ENCL001
Matrix:	Surface Water		
Collect Date:	08-JUN-10 15:15		
Receive Date:	11-JUN-10		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury		34.8	10.0	25.0	ng/L	50	ETL	06/21/10	1059	992980	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Environmental Conservation Laboratories
Address : 102-A Woodwinds Ct.
Cary, North Carolina 27511

Report Date: June 22, 2010

Contact: Ms. Stephanie Franz
Project: **ENCO Cary- LL Hg**

Client Sample ID:	9209- Leachate Blank	Project:	ENCL00310
Sample ID:	254577002	Client ID:	ENCL001
Matrix:	Water		
Collect Date:	08-JUN-10 15:15		
Receive Date:	11-JUN-10		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA											
EPA 1631 Low Level Mercury Analysis "As Received"											
Mercury		0.583	0.200	0.500	ng/L	1	ETL	06/21/10	1003	992980	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 1631E	

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 22, 2010

Environmental Conservation Laboratories
102-A Woodwinds Ct.
Cary, North Carolina

Contact: **Ms. Stephanie Franz**

Workorder: **254577**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 992980										
QC1202137781 LCS										
Mercury	5.00			4.76	ng/L		95.2	(77%-123%)	ETL	06/21/10 09:35
QC1202137780 MB										
Mercury			U	ND	ng/L					06/21/10 09:28
QC1202140754 254404002 MS										
Mercury	5.00	1.04		6.11	ng/L		101	(71%-125%)		06/21/10 11:20
QC1202140755 254404002 MSD										
Mercury	5.00	1.04		5.99	ng/L	2.08	98.9	(0%-24%)		06/21/10 11:27

Notes:
The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **254577**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

List of current GEL Certifications as of 22 June 2010

State	Certification
Arizona	AZ0668
Arkansas	88−0651
CLIA	42D0904046
California − NELAP	01151CA
Colorado	GEL
Connecticut	PH−0169
Dept. of Navy	NFESC 413
EPA Region 5	WG−15J
Florida − NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois − NELAP	200029
Indiana	C−SC−01
Kansas − NELAP	E−10332
Kentucky	90129
Louisiana − NELAP	03046
Maryland	270
Massachusetts	M−SC012
Nevada	SC00012
New Jersey − NELAP	SC002
New Mexico	FL NELAP E87156
New York − NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania − NELAP	68−00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas − NELAP	T104704235−07B−TX
U.S. Dept. of Agriculture	S−52597
Utah − NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

SUBCONTRACT ORDER

ENCO Cary

C006397

254577

SENDING LABORATORY:

ENCO Cary
102-A Woodwinds Industrial Court
Cary, NC 27511
Phone: 919.467.3090
Fax: 919.467.3515
Project Manager: Chuck Smith

RECEIVING LABORATORY:

GEL Laboratories, Inc. (SC)
2040 Savage Road
Charleston, SC 29407
Phone :(843) 556-8171
Fax: (843) 766-1178
Project State of Origin: North Carolina

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-Leachate	Surface Water	08-Jun-10 15:15	X2

Analysis	Due	Expires	Analysis Comments
Mercury Total EPA 1631	22-Jun-10 15:00	06-Jul-10 15:15	

Containers Supplied:
Other (N)

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	9209-Leachate Blank	Water	08-Jun-10 15:15	

Analysis	Due	Expires	Analysis Comments
Mercury Total EPA 1631	22-Jun-10 15:00	06-Jul-10 15:15	

Containers Supplied:
Other (A)

PRESERVED
Date: 6/11/10
Time: 1402
Analyst: [illegible]

Fed Ex 0428373 10015384

Released By	Date	Received By	Date
Briana Gregory	6/9/10	[illegible]	6/11/10 0901

Page 1 of 1

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: ENCL	SDG/AR/COC/Work Order: 254577/1
Received By: Eric Lawson	Date Received: 6/11/10 0901

Suspected Hazard Information	Yes		No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?			✓	Maximum Counts Observed*: 20
Classified Radioactive II or III by RSO?			✓	
COC/Samples marked containing PCBs?			✓	
Shipped as a DOT Hazardous?			✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?			✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) 24°C
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 41502132 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	Sample ID's and containers affected: No Sample label
10	Date & time on COC match date & time on bottles?			✓	Sample ID's affected: No Sample label
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	✓			
13	Carrier and tracking number.	✓			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 0428373 10015389

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials [signature] Date 6/11/10 Page 1 of 1