Environmental Compliance and Remediation

Babb & Associates, P.A.

July 19, 2014

Mr. Ervin Lane, Hydrogeologist
Field Operations Branch
NC Solid Waste Section
Mail Service Center 1646
Raleigh, NC 27699-1646

Re: 2014 First Semi-Annual Water Quality Monitoring Results
Columbus County MSWLF – Permit No. 24-01
Whiteville, North Carolina

Dear Ervin:

Babb & Associates, P.A. has completed the 2014 first semi-annual monitoring event at the Columbus County MSWLF. On May 13, 2014, nine groundwater monitoring wells were sampled and analyzed for Appendix I parameters. One upgradient surface water monitoring station (US-1) and one downgradient surface water monitoring station (DS-1) were also sampled for Appendix I parameters during this monitoring event. The Appendix I samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and inorganic compounds by EPA Method 6010B. The attached Figure 1 identifies the monitoring well and surface water sample locations and the groundwater flow direction across the site, which is to the north-northeast.

The groundwater analytical results indicated three VOCs present at concentrations exceeding the Solid Waste Section Limits (SWSLs). The three detected VOCs were all present in monitoring well MW-11, which has historically detected the same VOCs at low concentrations. The compound benzene was detected at a concentration of 3.1 ug/l, which is slightly above the established 2L Groundwater Standard of 1.0 ug/l. Monitoring well MW-11 also reported the compound 1,4-dichlorobenzene at a concentration of 6.5 ug/l, which also slightly exceeds the established 2L Groundwater Standard of 6.0 ug/l. Finally, the compound chlorobenzene was detected in monitoring well MW-11 at a concentration of 19.0 ug/l which is well below the established 2L Groundwater Standard of 50 ug/l. No other VOCs were detected in any of the other eight groundwater monitoring wells above the SWSLs, laboratory detection limits, or the 2L Groundwater Standards. A summary of the detected volatile organic compounds and the respective 2L Groundwater Standards is provided on Table 1, which is attached to this report.

Inorganic compounds were detected at concentrations exceeding the laboratory detection limits in eight of the nine groundwater monitoring wells. Only two inorganic compounds were detected at a concentration that exceeded the established 2L Groundwater Standards. The concentrations of arsenic in MW-3A (123 ug/l) and MW-11 (15.4 ug/l) exceeded the established 2L Groundwater Standard for arsenic of 10 ug/l. No other inorganic compounds were reported above the established 2L Groundwater Standards in any of the groundwater monitoring wells. A summary

P.O. Box 37697
Raleigh, NC 27627
(919) 325-0696

of the detected inorganic compounds and the respective 2L Groundwater Standards are provided on Table 1.

Surface water samples were collected from the upstream monitoring station (US-1) and the downstream monitoring station (DS-1). No VOCs were detected above the SWSLs, laboratory detection limits, or the 2B Surface Water Standards in the upstream or downstream surface water samples. The inorganic compound zinc was detected in the upstream surface water sample at a concentration of 10.3 ug/l, which is well below the established Surface Water Standard of 50 ug//l. Several inorganic compounds were detected in the downstream surface water sample DS-1 above the laboratory detection limits, including barium (136 ug/l), lead (12.3 ug/l), and zinc (67.6 ug/l). Only zinc slightly exceeded the established 2B Surface Water Standard of 50 ug/l. A summary of the detected inorganic compounds and the respective 2B Surface Water Standards are provided on Table 2.

The groundwater and surface water laboratory analytical results are summarized on Tables 1 and 2, respectively. The results for the field parameters are provided on Table 3. A Potentiometric Map (Figure 1) is provided which shows groundwater elevations and flow direction. Also attached to this report is the laboratory analytical report in Adobe and Excel EDD format.

If there are any questions regarding the attached information, please contact the undersigned at (919) 325-0696.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb

Gary D. Babb, P.G.
President

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Attachments

Cc: Mr. Danny Fowler, Director
Columbus County Public Utilities

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):

Babb & Associates, P.A.

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

Name: Gary D. Babb Phone: (919) 325-0696

E-mail: gdbabb@gmail.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Columbus County Landfill	354 Landfill Road Whiteville, NC	24-01	.0500	May 13, 2014

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.

Gary D. Babb, P.G. Licensed Geologist (919) 325-0696

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

Gary D. Babb July 9, 2014

Signature Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

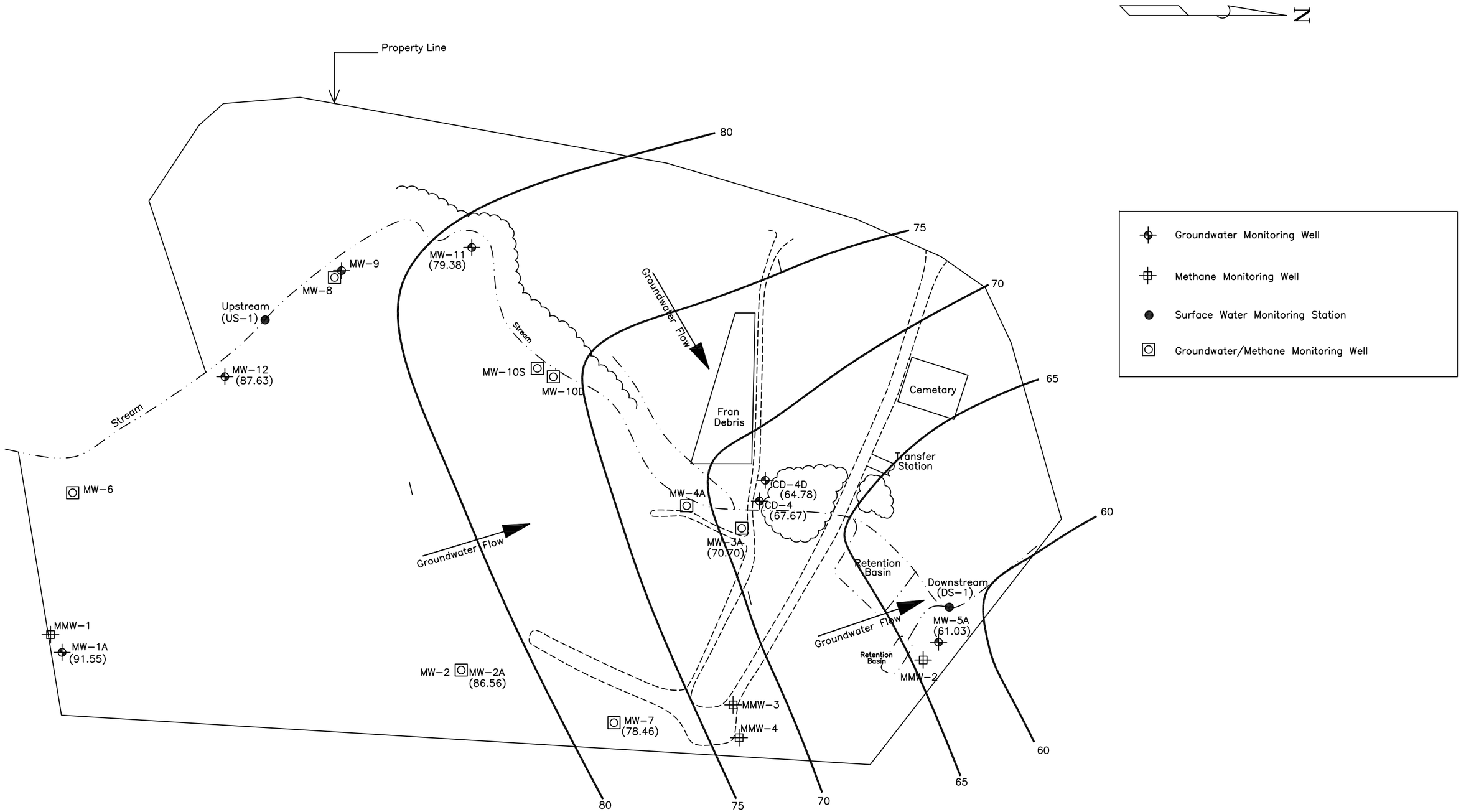
Babb & Associates, P.A., PO Box 37697, Raleigh, NC 27627

Facility Representative Address

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

Revised 6/2009

SITE MAP



Babb & Associates, P.A.

TITLE:	FIGURE NO:	SCALE:	PROJECT NO:
Potentiometric Map May 13, 2014 Columbus County MSWLF Columbus County Whiteville, North Carolina	Figure 1	As Shown	
	CHECKED BY:	DRAWN BY:	DATE:
		G. Babb	5/13/14

TABLES

TABLE 1

2014 First Semi-Annual Groundwater Analytical Results
Columbus County Landfill
Whiteville, North Carolina

Parameter	MW-1A	MW-2A	MW-3A	MW-5A	MW-7	MW-11	MW-12	CD-4	CD-4D	2L Standards
Metals (ug/l)										
Antimony	BQL	BQL	3.35 J	BQL	3.99 J	BQL	BQL	BQL	BQL	NE
Arsenic	BQL	BQL	**123.0**	BQL	BQL	**15.4**	BQL	BQL	BQL	10
Barium	27.4 J	38.8 J	82.6 J	**147.0**	**202.0**	**173.0**	**109.0**	**155.0**	**144.0**	700
Beryllium	0.188 J	0.159 J	BQL	BQL	BQL	BQL	BQL	0.296 J	BQL	NE
Chromium	BQL	BQL	BQL	1.61 J	BQL	BQL	BQL	3.43 J	BQL	10
Cobalt	BQL	1.50 J	**12.7**	BQL	2.78 J	**15.8**	2.69 J	3.13 J	BQL	NE
Copper	BQL	BQL	BQL	BQL	BQL	BQL	1.95 J	BQL	BQL	1000
Lead	BQL	BQL	BQL	BQL	5.96 J	3.25 J	BQL	2.48 J	BQL	15
Nickel	BQL	BQL	23.9 J	BQL	6.35 J	22.9 J	4.76 J	2.23 J	BQL	100
Thallium	BQL	BQL	BQL	BQL	BQL	0.155 J	0.191 J	BQL	BQL	NE
Vanadium	BQL	BQL	2.45 J	3.37 J	1.41 J	BQL	1.63 J	5.30 J	BQL	NE
Zinc	BQL	**14.1**	6.36 J	BQL	**57.0**	**19.7**	**58.7**	8.44 J	BQL	1000
Method 8260B (ug/l)										
Acetone	BQL	BQL	BQL	BQL	22.0 J	BQL	BQL	BQL	BQL	6,000
Benzene	BQL	BQL	BQL	BQL	BQL	**3.1**	BQL	BQL	BQL	1
Chlorobenzene	BQL	BQL	BQL	BQL	BQL	**19.0**	0.79 J	BQL	BQL	50
1,4-Dichlorobenzene	BQL	BQL	BQL	BQL	BQL	**6.5**	BQL	BQL	BQL	6

Notes:
Samples collected on May 13, 2014
J - Between MDL and RL
B - Amount in Prep Blank > MDL
BQL - Below laboratory quantitation limit
Bold concentrations equal or exceed laboratory quantitation limit.
Shaded concentrations equal or exceed established or interim standards.
NE - not established
NA - Not Analyzed

Table 2

2014 First Semi-Annual Surface Water Laboratory Analytical Results
Columbus County Landfill
Whiteville, North Carolina
Permit # 24-01

Parameter	US-1	DS-1	2B Std.
App. I Metals (ug/l)			
Barium	66.2 J	**136**	1000
Beryllium	0.264 J	0.284 J	6.5
Chromium	1.91 J	8.41 J	50
Cobalt	1.91 J	4.62 J	NE
Copper	BQL	3.09 J	7
Lead	BQL	**12.3**	25
Nickel	BQL	4.46 J	88
Vanadium	2.48 J	14.9 J	NE
Zinc	**10.3**	**67.6**	50
Method 8260B (ug/l)	BQL	BQL	

Notes:
Samples collected on May 13, 2014
BQL - Below laboratory quantitation limit.
J - Betweeen MDL and RL
Bold concentrations exceed laboratory quantitation limits
Shaded concentrations equal or exceed established or interim standards
NE - Not established
NA - Not analyzed

TABLE 3

2014 First Semi-Annual Field Parameters
Columbus County Landfill
Whiteville, North Carolina
Permit #24-01

Well ID	Sample Date	Sample Time	Depth to GW	GW Elevation	Conductivity	Temperature - C	pH
MW-1A	5/13/2014	1153	12.30	91.55	143	26.1	5.1
MW-2A	5/13/2014	1206	4.79	86.56	183	27.7	4.9
MW-3A	5/13/2014	1035	6.91	70.70	337	27.5	5.9
MW-5A	5/13/2014	1236	6.13	61.03	465	31.6	7.1
MW-7	5/13/2014	1219	3.81	78.46	1059	29.5	6.2
MW-11	5/13/2014	1112	8.25	79.38	1043	27.8	5.7
MW-12	5/13/2014	1128	5.17	87.63	631	25.6	5.7
CD-4	5/13/2014	1057	11.82	67.67	418	30.9	6.5
CD-4D	5/13/2014	1051	14.18	64.78	258	31.1	7.3
US-1	5/13/2014	1137	NA	NA	195	26.1	6.4
DS-1	5/13/2014	1244	NA	NA	607	31.4	7.0

LAB REPORT

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

Thursday, May 29, 2014

Babb & Associates (BA024)

Attn: Gary Babb

3605 Country Cove Lane

Raleigh, NC 27606

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Columbus County Landfill
ENCO Workorder(s): C405642

Dear Gary Babb,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, May 14, 2014.

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,

Bill Scott

Bill Scott

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 49.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 2401-MW1A **Lab ID: C405642-01** **Sampled: 05/13/14 11:53** **Received: 05/14/14 10:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 14:57
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 11:38
EPA 8260B	05/27/14	05/21/14 10:37	5/21/2014 23:32

Client ID: 2401-MW2A **Lab ID: C405642-02** **Sampled: 05/13/14 12:06** **Received: 05/14/14 10:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:07
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 11:42
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 00:02

Client ID: 2401-MW3A **Lab ID: C405642-03** **Sampled: 05/13/14 10:35** **Received: 05/14/14 10:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:10
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 11:46
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 00:32

Client ID: 2401-MW5A **Lab ID: C405642-04** **Sampled: 05/13/14 12:36** **Received: 05/14/14 10:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:12
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 11:50
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 01:02

Client ID: 2401-MW7 **Lab ID: C405642-05** **Sampled: 05/13/14 12:19** **Received: 05/14/14 10:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:15
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 11:54
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 01:32

Client ID: 2401-MW11 **Lab ID: C405642-06** **Sampled: 05/13/14 11:12** **Received: 05/14/14 10:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:18
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 11:58
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 02:02

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Client ID: 2401-MW12	Lab ID: C405642-07	Sampled: 05/13/14 11:28	Received: 05/14/14 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:20
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 12:02
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 02:32

Client ID: 2401-CD4	Lab ID: C405642-08	Sampled: 05/13/14 10:57	Received: 05/14/14 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:23
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 12:06
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 03:02

Client ID: 2401-CD4D	Lab ID: C405642-09	Sampled: 05/13/14 10:51	Received: 05/14/14 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:28
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 12:18
EPA 8260B	05/27/14	05/21/14 10:37	5/22/2014 03:32

Client ID: 2401-US1	Lab ID: C405642-10	Sampled: 05/13/14 11:37	Received: 05/14/14 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:31
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 12:22
EPA 8260B	05/27/14	05/21/14 13:01	5/22/2014 13:31

Client ID: 2401-DS1	Lab ID: C405642-11	Sampled: 05/13/14 12:44	Received: 05/14/14 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	11/09/14	05/15/14 06:38	5/20/2014 15:33
EPA 6020A	11/09/14	05/15/14 06:41	5/22/2014 12:26
EPA 8260B	05/27/14	05/21/14 13:01	5/22/2014 14:01

Client ID: 2401-Tripblank	Lab ID: C405642-12	Sampled: 05/13/14 10:51	Received: 05/14/14 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/27/14	05/21/14 13:01	5/22/2014 14:30

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 2401-MW1A **Lab ID: C405642-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	27.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.188	J	1	0.100	1.00	1	ug/L	EPA 6010C	

Client ID: 2401-MW2A **Lab ID: C405642-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	38.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.159	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	1.50	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	14.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-MW3A **Lab ID: C405642-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	3.35	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	123		1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	82.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	12.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	23.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	2.45	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.36	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-MW5A **Lab ID: C405642-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	147		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.61	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	3.37	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 2401-MW7 **Lab ID: C405642-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	22	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	3.99	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	202		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	2.78	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	5.96	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	6.35	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	1.41	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	57.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-MW11 **Lab ID: C405642-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	6.5		1	0.19	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	15.4		1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	173		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.1		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	19		1	0.17	1.0	3	ug/L	EPA 8260B	
Cobalt - Total	15.8		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.25	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	22.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.155	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	

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Client ID: 2401-MW11 **Lab ID: C405642-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	19.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-MW12 **Lab ID: C405642-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	109		1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.79	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Cobalt - Total	2.69	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.95	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.76	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.191	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vanadium - Total	1.63	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	58.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-CD4 **Lab ID: C405642-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	155		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.296	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	3.43	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.13	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.48	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.23	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	5.30	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	8.44	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-CD4D **Lab ID: C405642-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	144		1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 2401-US1 **Lab ID: C405642-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	66.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.264	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.91	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.91	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.48	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	10.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 2401-DS1 **Lab ID: C405642-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	136		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.284	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chromium - Total	8.41	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.62	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.09	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	12.3		1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.46	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	14.9	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	67.6		1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 2401-MW1A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-01
Sampled: 05/13/14 11:53
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/21/14 23:32	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/21/14 23:32	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/21/14 23:32	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/21/14 23:32	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/21/14 23:32	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/21/14 23:32	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/21/14 23:32	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/21/14 23:32	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/21/14 23:32	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/21/14 23:32	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/21/14 23:32	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/21/14 23:32	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/21/14 23:32	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/21/14 23:32	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/21/14 23:32	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/21/14 23:32	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/21/14 23:32	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/21/14 23:32	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/21/14 23:32	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/21/14 23:32	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/21/14 23:32	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/21/14 23:32	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/21/14 23:32	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/21/14 23:32	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/21/14 23:32	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/21/14 23:32	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/21/14 23:32	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/21/14 23:32	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/21/14 23:32	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/21/14 23:32	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/21/14 23:32	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/21/14 23:32	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/21/14 23:32	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/21/14 23:32	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/21/14 23:32	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/21/14 23:32	REF	

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Description: 2401-MW1A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-01
Sampled: 05/13/14 11:53
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/21/14 23:32	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/21/14 23:32	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/21/14 23:32	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/21/14 23:32	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*87 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/21/14 23:32*	*REF*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/21/14 23:32*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/21/14 23:32*	*REF*	

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Description: 2401-MW1A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-01
Sampled: 05/13/14 11:53
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 11:38	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 14:57	JDH	
Barium [7440-39-3] ^	**27.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 14:57	JDH	
Beryllium [7440-41-7] ^	**0.188**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 14:57	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 14:57	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 14:57	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 14:57	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 14:57	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 14:57	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 14:57	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 11:38	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 14:57	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 11:38	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 14:57	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 14:57	JDH	

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

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Description: 2401-MW2A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-02
Sampled: 05/13/14 12:06
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 00:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 00:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 00:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 00:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 00:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 00:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 00:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 00:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 00:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 00:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 00:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 00:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 00:02	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 00:02	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 00:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 00:02	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 00:02	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 00:02	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 00:02	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 00:02	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 00:02	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 00:02	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 00:02	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 00:02	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 00:02	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 00:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 00:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 00:02	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 00:02	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 00:02	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 00:02	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 00:02	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 00:02	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 00:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 00:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 00:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 00:02	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 00:02	REF	

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Description: 2401-MW2A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-02
Sampled: 05/13/14 12:06
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 00:02	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 00:02	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 00:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 00:02*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 00:02*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 00:02*	*REF*	

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Description: 2401-MW2A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-02
Sampled: 05/13/14 12:06
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 11:42	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:07	JDH	
Barium [7440-39-3] ^	**38.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:07	JDH	
Beryllium [7440-41-7] ^	**0.159**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:07	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:07	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:07	JDH	
Cobalt [7440-48-4] ^	**1.50**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:07	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:07	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:07	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:07	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 11:42	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:07	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 11:42	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:07	JDH	
Zinc [7440-66-6] ^	**14.1**		ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:07	JDH	

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

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Description: 2401-MW3A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-03
Sampled: 05/13/14 10:35
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 00:32	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 00:32	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 00:32	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 00:32	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 00:32	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 00:32	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 00:32	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 00:32	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 00:32	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 00:32	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 00:32	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 00:32	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 00:32	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 00:32	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 00:32	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 00:32	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 00:32	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 00:32	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 00:32	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 00:32	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 00:32	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 00:32	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 00:32	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 00:32	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 00:32	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 00:32	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 00:32	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 00:32	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 00:32	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 00:32	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 00:32	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 00:32	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 00:32	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 00:32	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 00:32	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 00:32	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 00:32	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 00:32	REF	

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Description: 2401-MW3A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-03
Sampled: 05/13/14 10:35
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 00:32	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 00:32	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 00:32	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 00:32*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 00:32*	*REF*	
Toluene-d8	*47*	*1*	*50.0*	*93 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 00:32*	*REF*	

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Description: 2401-MW3A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-03
Sampled: 05/13/14 10:35
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**3.35**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 11:46	VLO	
Arsenic [7440-38-2] ^	**123**		ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:10	JDH	
Barium [7440-39-3] ^	**82.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:10	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:10	JDH	
Cobalt [7440-48-4] ^	**12.7**		ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:10	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:10	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:10	JDH	
Nickel [7440-02-0] ^	**23.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:10	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 11:46	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:10	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 11:46	VLO	
Vanadium [7440-62-2] ^	**2.45**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:10	JDH	
Zinc [7440-66-6] ^	**6.36**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:10	JDH	

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Description: 2401-MW5A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-04
Sampled: 05/13/14 12:36
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 01:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 01:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 01:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 01:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 01:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 01:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 01:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 01:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 01:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 01:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 01:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 01:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 01:02	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 01:02	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 01:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 01:02	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 01:02	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 01:02	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 01:02	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 01:02	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 01:02	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 01:02	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 01:02	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 01:02	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 01:02	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 01:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 01:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 01:02	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 01:02	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 01:02	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 01:02	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 01:02	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 01:02	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 01:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 01:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 01:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 01:02	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 01:02	REF	

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Description: 2401-MW5A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-04
Sampled: 05/13/14 12:36
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 01:02	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 01:02	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 01:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 01:02*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 01:02*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 01:02*	*REF*	

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Description: 2401-MW5A
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-04
Sampled: 05/13/14 12:36
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 11:50	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:12	JDH	
Barium [7440-39-3] ^	**147**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:12	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:12	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:12	JDH	
Chromium [7440-47-3] ^	**1.61**	J	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:12	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:12	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:12	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:12	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:12	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 11:50	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:12	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 11:50	VLO	
Vanadium [7440-62-2] ^	**3.37**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:12	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:12	JDH	

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

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Description: 2401-MW7 | **Lab Sample ID:** C405642-05 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 12:19 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 01:32	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 01:32	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 01:32	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 01:32	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 01:32	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 01:32	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 01:32	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 01:32	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 01:32	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 01:32	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 01:32	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 01:32	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 01:32	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 01:32	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 01:32	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 01:32	REF	
Acetone [67-64-1] ^	**22**	J	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 01:32	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 01:32	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 01:32	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 01:32	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 01:32	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 01:32	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 01:32	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 01:32	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 01:32	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 01:32	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 01:32	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 01:32	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 01:32	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 01:32	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 01:32	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 01:32	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 01:32	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 01:32	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 01:32	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 01:32	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 01:32	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 01:32	REF	

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Description: 2401-MW7 | **Lab Sample ID:** C405642-05 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 12:19 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 01:32	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 01:32	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 01:32	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 01:32*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 01:32*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 01:32*	*REF*	

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Description: 2401-MW7 | **Lab Sample ID:** C405642-05 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 12:19 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**3.99**	J	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 11:54	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:15	JDH	
Barium [7440-39-3] ^	**202**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:15	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:15	JDH	
Cobalt [7440-48-4] ^	**2.78**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:15	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:15	JDH	
Lead [7439-92-1] ^	**5.96**	J	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:15	JDH	
Nickel [7440-02-0] ^	**6.35**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:15	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 11:54	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 11:54	VLO	
Vanadium [7440-62-2] ^	**1.41**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:15	JDH	
Zinc [7440-66-6] ^	**57.0**		ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:15	JDH	

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

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Description: 2401-MW11 | **Lab Sample ID:** C405642-06 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:12 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 02:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 02:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 02:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 02:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 02:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 02:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 02:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 02:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 02:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 02:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 02:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 02:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	**6.5**		ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 02:02	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 02:02	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 02:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 02:02	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 02:02	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 02:02	REF	
Benzene [71-43-2] ^	**3.1**		ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 02:02	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 02:02	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 02:02	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 02:02	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Chlorobenzene [108-90-7] ^	**19**		ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 02:02	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 02:02	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 02:02	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 02:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 02:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 02:02	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 02:02	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 02:02	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 02:02	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 02:02	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 02:02	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 02:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 02:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 02:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 02:02	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 02:02	REF	

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Description: 2401-MW11 | **Lab Sample ID:** C405642-06 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:12 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 02:02	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 02:02	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 02:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 02:02*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 02:02*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 02:02*	*REF*	

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Description: 2401-MW11 | **Lab Sample ID:** C405642-06 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:12 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 11:58	VLO	
Arsenic [7440-38-2] ^	**15.4**		ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:18	JDH	
Barium [7440-39-3] ^	**173**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:18	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:18	JDH	
Cobalt [7440-48-4] ^	**15.8**		ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:18	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:18	JDH	
Lead [7439-92-1] ^	**3.25**	J	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:18	JDH	
Nickel [7440-02-0] ^	**22.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:18	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 11:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:18	JDH	
Thallium [7440-28-0] ^	**0.155**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 11:58	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:18	JDH	
Zinc [7440-66-6] ^	**19.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:18	JDH	

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

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Description: 2401-MW12 | **Lab Sample ID:** C405642-07 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:28 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 02:32	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 02:32	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 02:32	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 02:32	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 02:32	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 02:32	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 02:32	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 02:32	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 02:32	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 02:32	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 02:32	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 02:32	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 02:32	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 02:32	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 02:32	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 02:32	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 02:32	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 02:32	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 02:32	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 02:32	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 02:32	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 02:32	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Chlorobenzene [108-90-7] ^	**0.79**	J	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 02:32	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 02:32	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 02:32	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 02:32	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 02:32	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 02:32	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 02:32	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 02:32	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 02:32	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 02:32	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 02:32	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 02:32	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 02:32	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 02:32	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 02:32	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 02:32	REF	

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Description: 2401-MW12 | **Lab Sample ID:** C405642-07 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:28 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 02:32	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 02:32	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 02:32	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 02:32*	*REF*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 02:32*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 02:32*	*REF*	

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Description: 2401-MW12 | **Lab Sample ID:** C405642-07 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:28 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 12:02	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:20	JDH	
Barium [7440-39-3] ^	**109**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:20	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:20	JDH	
Cobalt [7440-48-4] ^	**2.69**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:20	JDH	
Copper [7440-50-8] ^	**1.95**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:20	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:20	JDH	
Nickel [7440-02-0] ^	**4.76**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:20	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 12:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:20	JDH	
Thallium [7440-28-0] ^	**0.191**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 12:02	VLO	
Vanadium [7440-62-2] ^	**1.63**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:20	JDH	
Zinc [7440-66-6] ^	**58.7**		ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:20	JDH	

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

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Description: 2401-CD4 | **Lab Sample ID:** C405642-08 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 10:57 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 03:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 03:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 03:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 03:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 03:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 03:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 03:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 03:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 03:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 03:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 03:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 03:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 03:02	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 03:02	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 03:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 03:02	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 03:02	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 03:02	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 03:02	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 03:02	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 03:02	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 03:02	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 03:02	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 03:02	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 03:02	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 03:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 03:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 03:02	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 03:02	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 03:02	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 03:02	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 03:02	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 03:02	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 03:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 03:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 03:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 03:02	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 03:02	REF	

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Description: 2401-CD4
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-08
Sampled: 05/13/14 10:57
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 03:02	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 03:02	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 03:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 03:02*	*REF*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 03:02*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 03:02*	*REF*	

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Description: 2401-CD4 | **Lab Sample ID:** C405642-08 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 10:57 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 12:06	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:23	JDH	
Barium [7440-39-3] ^	**155**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:23	JDH	
Beryllium [7440-41-7] ^	**0.296**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:23	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:23	JDH	
Chromium [7440-47-3] ^	**3.43**	J	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:23	JDH	
Cobalt [7440-48-4] ^	**3.13**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:23	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:23	JDH	
Lead [7439-92-1] ^	**2.48**	J	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:23	JDH	
Nickel [7440-02-0] ^	**2.23**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:23	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 12:06	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 12:06	VLO	
Vanadium [7440-62-2] ^	**5.30**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:23	JDH	
Zinc [7440-66-6] ^	**8.44**	J	ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:23	JDH	

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

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Description: 2401-CD4D
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-09
Sampled: 05/13/14 10:51
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 03:32	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 03:32	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 03:32	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 03:32	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 03:32	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 03:32	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 03:32	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 03:32	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 03:32	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 03:32	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 03:32	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 03:32	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 03:32	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 03:32	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 03:32	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 03:32	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 03:32	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 03:32	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 03:32	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 03:32	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 03:32	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 03:32	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 03:32	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 03:32	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 03:32	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 03:32	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 03:32	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 03:32	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 03:32	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 03:32	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 03:32	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 03:32	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 03:32	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 03:32	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 03:32	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 03:32	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 03:32	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 03:32	REF	

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Description: 2401-CD4D
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-09
Sampled: 05/13/14 10:51
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 03:32	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 03:32	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 03:32	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*4E21021*	*EPA 8260B*	*05/22/14 03:32*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*4E21021*	*EPA 8260B*	*05/22/14 03:32*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4E21021*	*EPA 8260B*	*05/22/14 03:32*	*REF*	

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Description: 2401-CD4D
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-09
Sampled: 05/13/14 10:51
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 12:18	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:28	JDH	
Barium [7440-39-3] ^	**144**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:28	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:28	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:28	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:28	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:28	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:28	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:28	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:28	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 12:18	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:28	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 12:18	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:28	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:28	JDH	

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

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Description: 2401-US1 | **Lab Sample ID:** C405642-10 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:37 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 13:31	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 13:31	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 13:31	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 13:31	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 13:31	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 13:31	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 13:31	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 13:31	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 13:31	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 13:31	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 13:31	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 13:31	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 13:31	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 13:31	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 13:31	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 13:31	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 13:31	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 13:31	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 13:31	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 13:31	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 13:31	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 13:31	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 13:31	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 13:31	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 13:31	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 13:31	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 13:31	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 13:31	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 13:31	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 13:31	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 13:31	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 13:31	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 13:31	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 13:31	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 13:31	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 13:31	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 13:31	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 13:31	REF	

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Description: 2401-US1
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-10
Sampled: 05/13/14 11:37
Sampled By: Jason Jomp

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 13:31	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 13:31	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 13:31	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*51-122*	*4E21030*	*EPA 8260B*	*05/22/14 13:31*	*REF*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*68-117*	*4E21030*	*EPA 8260B*	*05/22/14 13:31*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4E21030*	*EPA 8260B*	*05/22/14 13:31*	*REF*	

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Description: 2401-US1 | **Lab Sample ID:** C405642-10 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 11:37 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 12:22	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:31	JDH	
Barium [7440-39-3] ^	**66.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:31	JDH	
Beryllium [7440-41-7] ^	**0.264**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:31	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:31	JDH	
Chromium [7440-47-3] ^	**1.91**	J	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:31	JDH	
Cobalt [7440-48-4] ^	**1.91**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:31	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:31	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:31	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:31	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 12:22	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:31	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 12:22	VLO	
Vanadium [7440-62-2] ^	**2.48**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:31	JDH	
Zinc [7440-66-6] ^	**10.3**		ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:31	JDH	

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

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Description: 2401-DS1 | **Lab Sample ID:** C405642-11 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 12:44 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 14:01	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 14:01	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 14:01	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 14:01	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 14:01	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 14:01	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 14:01	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 14:01	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 14:01	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 14:01	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 14:01	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 14:01	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 14:01	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 14:01	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 14:01	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 14:01	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 14:01	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 14:01	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 14:01	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 14:01	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 14:01	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 14:01	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 14:01	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 14:01	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 14:01	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 14:01	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 14:01	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 14:01	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 14:01	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 14:01	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 14:01	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 14:01	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 14:01	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 14:01	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 14:01	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 14:01	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 14:01	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 14:01	REF	

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Description: 2401-DS1 | **Lab Sample ID:** C405642-11 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 12:44 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 14:01	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 14:01	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 14:01	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*4E21030*	*EPA 8260B*	*05/22/14 14:01*	*REF*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*4E21030*	*EPA 8260B*	*05/22/14 14:01*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4E21030*	*EPA 8260B*	*05/22/14 14:01*	*REF*	

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Description: 2401-DS1 | **Lab Sample ID:** C405642-11 | **Received:** 05/14/14 10:15

Matrix: Water | **Sampled:** 05/13/14 12:44 | **Work Order:** C405642

Project: Columbus County Landfill | **Sampled By:** Jason Jomp

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	05/22/14 12:26	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	05/20/14 15:33	JDH	
Barium [7440-39-3] ^	**136**		ug/L	1	1.00	10.0	100	EPA 6010C	05/20/14 15:33	JDH	
Beryllium [7440-41-7] ^	**0.284**	J	ug/L	1	0.100	1.00	1	EPA 6010C	05/20/14 15:33	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	05/20/14 15:33	JDH	
Chromium [7440-47-3] ^	**8.41**	J	ug/L	1	1.40	10.0	10	EPA 6010C	05/20/14 15:33	JDH	
Cobalt [7440-48-4] ^	**4.62**	J	ug/L	1	1.10	10.0	10	EPA 6010C	05/20/14 15:33	JDH	
Copper [7440-50-8] ^	**3.09**	J	ug/L	1	1.60	10.0	10	EPA 6010C	05/20/14 15:33	JDH	
Lead [7439-92-1] ^	**12.3**		ug/L	1	2.10	10.0	10	EPA 6010C	05/20/14 15:33	JDH	
Nickel [7440-02-0] ^	**4.46**	J	ug/L	1	1.80	10.0	50	EPA 6010C	05/20/14 15:33	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	05/22/14 12:26	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	05/20/14 15:33	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	05/22/14 12:26	VLO	
Vanadium [7440-62-2] ^	**14.9**	J	ug/L	1	1.40	10.0	25	EPA 6010C	05/20/14 15:33	JDH	
Zinc [7440-66-6] ^	**67.6**		ug/L	1	3.80	10.0	10	EPA 6010C	05/20/14 15:33	JDH	

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

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Description: 2401-Tripblank
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-12
Sampled: 05/13/14 10:51
Sampled By: ENCO

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	05/22/14 14:30	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	05/22/14 14:30	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/22/14 14:30	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 14:30	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	05/22/14 14:30	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 14:30	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 14:30	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/22/14 14:30	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	05/22/14 14:30	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	05/22/14 14:30	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	05/22/14 14:30	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	05/22/14 14:30	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	05/22/14 14:30	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	05/22/14 14:30	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	05/22/14 14:30	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	05/22/14 14:30	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	05/22/14 14:30	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	05/22/14 14:30	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	05/22/14 14:30	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	05/22/14 14:30	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	05/22/14 14:30	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	05/22/14 14:30	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 14:30	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	05/22/14 14:30	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	05/22/14 14:30	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 14:30	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	05/22/14 14:30	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	05/22/14 14:30	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	05/22/14 14:30	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	05/22/14 14:30	REF	
m,p-Xylenes [108-38-3/106-42-3] ^	0.17	U	ug/L	1	0.17	2.0	NE	EPA 8260B	05/22/14 14:30	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/22/14 14:30	REF	
o-Xylene [95-47-6] ^	0.065	U	ug/L	1	0.065	1.0	NE	EPA 8260B	05/22/14 14:30	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	05/22/14 14:30	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	05/22/14 14:30	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 14:30	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	05/22/14 14:30	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/22/14 14:30	REF	

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Description: 2401-Tripblank
Matrix: Water
Project: Columbus County Landfill

Lab Sample ID: C405642-12
Sampled: 05/13/14 10:51
Sampled By: ENCO

Received: 05/14/14 10:15
Work Order: C405642

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	05/22/14 14:30	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	05/22/14 14:30	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	05/22/14 14:30	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*4E21030*	*EPA 8260B*	*05/22/14 14:30*	*REF*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*68-117*	*4E21030*	*EPA 8260B*	*05/22/14 14:30*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*4E21030*	*EPA 8260B*	*05/22/14 14:30*	*REF*	

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

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4E21021 - EPA 5030B_MS

Blank (4E21021-BLK1) Prepared: 05/21/2014 10:37 Analyzed: 05/21/2014 17:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4E21021 - EPA 5030B_MS

Blank (4E21021-BLK1) Continued Prepared: 05/21/2014 10:37 Analyzed: 05/21/2014 17:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*67-127*			

LCS (4E21021-BS1) Prepared: 05/21/2014 10:37 Analyzed: 05/21/2014 18:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		116	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		109	83-117			
Toluene	19		1.0	ug/L	20.0		94	71-118			
Trichloroethene	22		1.0	ug/L	20.0		109	74-119			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*67-127*			

Matrix Spike (4E21021-MS1) Prepared: 05/21/2014 10:37 Analyzed: 05/21/2014 18:34

Source: C405455-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	28		1.0	ug/L	20.0	0.21 U	139	75-133			QM-07
Benzene	22		1.0	ug/L	20.0	0.15 U	109	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	115	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	120	74-119			QM-07
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

Matrix Spike Dup (4E21021-MSD1) Prepared: 05/21/2014 10:37 Analyzed: 05/21/2014 19:03

Source: C405455-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.21 U	134	75-133	4	20	QM-07
Benzene	22		1.0	ug/L	20.0	0.15 U	109	81-134	0.5	17	
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	113	83-117	1	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	100	71-118	2	17	
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	116	74-119	4	22	
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*89*	*67-127*			

Batch 4E21030 - EPA 5030B_MS

Blank (4E21030-BLK1) Prepared: 05/21/2014 13:01 Analyzed: 05/22/2014 06:32

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4E21030 - EPA 5030B_MS

Blank (4E21030-BLK1) Continued Prepared: 05/21/2014 13:01 Analyzed: 05/22/2014 06:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
o-Xylene	0.065	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4E21030 - EPA 5030B_MS

Blank (4E21030-BLK1) Continued Prepared: 05/21/2014 13:01 Analyzed: 05/22/2014 06:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*91*	*67-127*			

LCS (4E21030-BS1) Prepared: 05/21/2014 13:01 Analyzed: 05/22/2014 07:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		114	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		107	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*89*	*67-127*			

Matrix Spike (4E21030-MS1) Prepared: 05/21/2014 13:01 Analyzed: 05/22/2014 07:32

Source: C405442-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.21 U	134	75-133			QM-07
Benzene	22		1.0	ug/L	20.0	0.15 U	108	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	115	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	99	71-118			
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	114	74-119			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

Matrix Spike Dup (4E21030-MSD1) Prepared: 05/21/2014 13:01 Analyzed: 05/22/2014 08:02

Source: C405442-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.21 U	134	75-133	0.6	20	QM-07
Benzene	22		1.0	ug/L	20.0	0.15 U	109	81-134	0.3	17	
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	114	83-117	0.04	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	101	71-118	2	17	
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	116	74-119	2	22	
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*87*	*67-127*			

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

Batch 4E15002 - EPA 3005A

Blank (4E15002-BLK1) Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:10

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QUALITY CONTROL

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

Batch 4E15002 - EPA 3005A

Blank (4E15002-BLK1) Continued Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	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	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.10	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 (4E15002-BS1) Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	202		10.0	ug/L	200		101	80-120			
Barium	197		10.0	ug/L	200		98	80-120			
Beryllium	20.0		1.00	ug/L	20.0		100	80-120			
Cadmium	19.5		1.00	ug/L	20.0		97	80-120			
Chromium	195		10.0	ug/L	200		97	80-120			
Cobalt	204		10.0	ug/L	200		102	80-120			
Copper	194		10.0	ug/L	200		97	80-120			
Lead	197		10.0	ug/L	200		99	80-120			
Nickel	196		10.0	ug/L	200		98	80-120			
Silver	201		10.0	ug/L	200		101	80-120			
Vanadium	200		10.0	ug/L	200		100	80-120			
Zinc	195		10.0	ug/L	200		97	80-120			

Matrix Spike (4E15002-MS1) Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:35

Source: C405452-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	197		10.0	ug/L	200	5.40 U	99	75-125			
Barium	248		10.0	ug/L	200	52.7	98	75-125			
Beryllium	19.9		1.00	ug/L	20.0	0.100 U	99	75-125			
Cadmium	19.8		1.00	ug/L	20.0	0.360 U	99	75-125			
Chromium	193		10.0	ug/L	200	1.40 U	97	75-125			
Cobalt	208		10.0	ug/L	200	10.9	99	75-125			
Copper	198		10.0	ug/L	200	1.63	98	75-125			
Lead	194		10.0	ug/L	200	2.10 U	97	75-125			
Nickel	199		10.0	ug/L	200	1.80 U	99	75-125			
Silver	198		10.0	ug/L	200	1.90 U	99	75-125			
Vanadium	200		10.0	ug/L	200	1.40 U	100	75-125			
Zinc	204		10.0	ug/L	200	6.72	98	75-125			

Matrix Spike Dup (4E15002-MSD1) Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:37

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QUALITY CONTROL

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

Batch 4E15002 - EPA 3005A

Matrix Spike Dup (4E15002-MSD1) Continued Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:37

Source: C405452-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	194		10.0	ug/L	200	5.40 U	97	75-125	2	20	
Barium	251		10.0	ug/L	200	52.7	99	75-125	0.9	20	
Beryllium	20.1		1.00	ug/L	20.0	0.100 U	101	75-125	1	20	
Cadmium	19.9		1.00	ug/L	20.0	0.360 U	99	75-125	0.3	20	
Chromium	194		10.0	ug/L	200	1.40 U	97	75-125	0.5	20	
Cobalt	209		10.0	ug/L	200	10.9	99	75-125	0.2	20	
Copper	199		10.0	ug/L	200	1.63	99	75-125	0.7	20	
Lead	196		10.0	ug/L	200	2.10 U	98	75-125	0.7	20	
Nickel	199		10.0	ug/L	200	1.80 U	99	75-125	0.1	20	
Silver	201		10.0	ug/L	200	1.90 U	100	75-125	1	20	
Vanadium	202		10.0	ug/L	200	1.40 U	101	75-125	0.7	20	
Zinc	204		10.0	ug/L	200	6.72	99	75-125	0.1	20	

Post Spike (4E15002-PS1) Prepared: 05/15/2014 06:38 Analyzed: 05/20/2014 14:40

Source: C405452-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.190		0.0100	mg/L	0.200	-0.00361	97	80-120			
Barium	0.243		0.0100	mg/L	0.200	0.0527	95	80-120			
Beryllium	0.0193		0.00100	mg/L	0.0200	-3.79E-5	97	80-120			
Cadmium	0.0192		0.00100	mg/L	0.0200	0.000128	95	80-120			
Chromium	0.188		0.0100	mg/L	0.200	0.000585	94	80-120			
Cobalt	0.202		0.0100	mg/L	0.200	0.0109	95	80-120			
Copper	0.192		0.0100	mg/L	0.200	0.00163	95	80-120			
Lead	0.188		0.0100	mg/L	0.200	-0.000325	94	80-120			
Nickel	0.191		0.0100	mg/L	0.200	0.00103	95	80-120			
Silver	0.193		0.0100	mg/L	0.200	-0.00120	97	80-120			
Vanadium	0.195		0.0100	mg/L	0.200	0.000268	97	80-120			
Zinc	0.196		0.0100	mg/L	0.200	0.00672	94	80-120			

Batch 4E15004 - EPA 3005A

Blank (4E15004-BLK1) Prepared: 05/15/2014 06:41 Analyzed: 05/22/2014 10:41

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	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4E15004-BS1) Prepared: 05/15/2014 06:41 Analyzed: 05/22/2014 10:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200		102	80-120			
Selenium	213		3.00	ug/L	200		107	80-120			
Thallium	200		1.00	ug/L	200		100	80-120			

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QUALITY CONTROL

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

Batch 4E15004 - EPA 3005A

Matrix Spike (4E15004-MS1) Prepared: 05/15/2014 06:41 Analyzed: 05/22/2014 10:53

Source: C405452-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	205		2.00	ug/L	200	0.220 U	102	75-125			
Selenium	218		3.00	ug/L	200	0.910 U	109	75-125			
Thallium	187		1.00	ug/L	200	0.110 U	94	75-125			

Matrix Spike Dup (4E15004-MSD1) Prepared: 05/15/2014 06:41 Analyzed: 05/22/2014 10:57

Source: C405452-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	205		2.00	ug/L	200	0.220 U	103	75-125	0.3	20	
Selenium	219		3.00	ug/L	200	0.910 U	110	75-125	0.4	20	
Thallium	186		1.00	ug/L	200	0.110 U	93	75-125	0.8	20	

Post Spike (4E15004-PS1) Prepared: 05/15/2014 06:41 Analyzed: 05/22/2014 11:01

Source: C405452-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200	0.0258	101	80-120			
Selenium	214		3.00	ug/L	200	-0.598	107	80-120			
Thallium	182		1.00	ug/L	200	0.0188	91	80-120			

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

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(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
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

Client Name: Babb & Associates (BA024)	Project Number: [none]
Address: 3605 Country Cove Lane	Project Name/Desc: Columbus County Landfill
City/ST/Zip: Raleigh, NC 27606	PO # / Billing Info:
Tel: (919) 325-0696 Fax:	Reporting Contact: Gary Babb
Sampler(s) Name, Affiliation (Print): Jason Tomp	Billing Contact: Gary Babb
Sampler(s) Signature:	Site Location / Time Zone: Whiteville

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C405642

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	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	2401-MW1A	5/13/14	1153	Grab	WA	4	X	X									
	2401-MW2A		1206		WA	4	X	X									
	2401-MW3A		1035		WA	4	X	X									
	2401-MW5A		1236		WA	4	X	X									
	2401-MW7		1219		WA	4	X	X									
	2401-MW11		1112		WA	4	X	X									
	2401-MW12		1128		WA	4	X	X									
	2401-CD4		1057		WA	4	X	X									
	2401-CD4D		1051		WA	4	X	X									
	2401-US1		1137		WA	4	X	X									
	2401-DS1		1244		WA	4	X	X									
	2401-Tripblank				WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By: KAY	Date/Time: 5/7	Relinquished By:	Date/Time: 5/13/14 1419	Received By:	Date/Time: 5-14-14 10:13
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-160 4.8°c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water 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