Southeast ACCUTEST LABORATORIES

05/21/14

Technical Report for

Clean Harbors Env Svcs

Wichita Facility; 2549 N New York, Wichita, KS

X09422595

Accutest Job Number: FA14862

Sampling Date: 05/08/14

Report to:

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Total number of pages in report: **55**

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Laboratory Director

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Accutest Laboratories

Sample Summary

Clean Harbors Env Svcs

Job No: FA14862

Wichita Facility; 2549 N New York, Wichita, KS
Project No: X09422595

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA14862-1	05/08/14	08:35	MJ	05/09/14	SO	Soil	BORROW-050814-001
FA14862-2	05/08/14	08:55	MJ	05/09/14	SO	Soil	BORROW-050814-002

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA14862
Account: Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS
Collected: 05/08/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA14862-1	**BORROW-050814-001**					
Arsenic		2.8	0.52		mg/kg	SW846 6010C
Barium		30.3	10		mg/kg	SW846 6010C
Chromium		2.6	0.52		mg/kg	SW846 6010C
Lead		2.4	1.0		mg/kg	SW846 6010C
FA14862-2	**BORROW-050814-002**					
Arsenic [a]		8.8	2.3		mg/kg	SW846 6010C
Barium [a]		247	47		mg/kg	SW846 6010C
Chromium [a]		25.3	2.3		mg/kg	SW846 6010C
Lead [a]		32.2	4.7		mg/kg	SW846 6010C

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8260B	**Percent Solids:**	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0093485.D	1	05/09/14	EP	n/a	n/a	VG3412
Run #2							

	Initial Weight
Run #1	3.34 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	83	25	ug/kg	
107-02-8	Acrolein	ND	42	18	ug/kg	
107-13-1	Acrylonitrile	ND	42	13	ug/kg	
71-43-2	Benzene	ND	8.3	1.7	ug/kg	
108-86-1	Bromobenzene	ND	8.3	1.8	ug/kg	
74-97-5	Bromochloromethane	ND	8.3	3.2	ug/kg	
75-27-4	Bromodichloromethane	ND	8.3	1.7	ug/kg	
75-25-2	Bromoform	ND	8.3	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	8.3	1.7	ug/kg	
135-98-8	sec-Butylbenzene	ND	8.3	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	8.3	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	8.3	1.7	ug/kg	
75-00-3	Chloroethane	ND	8.3	3.8	ug/kg	
67-66-3	Chloroform	ND	8.3	1.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	8.3	1.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	8.3	1.7	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	42	17	ug/kg	
75-15-0	Carbon disulfide	ND	8.3	1.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	8.3	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	8.3	1.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	8.3	1.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	8.3	1.9	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.3	3.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	8.3	3.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	8.3	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	8.3	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	8.3	1.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	8.3	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	8.3	1.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8.3	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	8.3	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	8.3	1.7	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8260B	**Percent Solids:**	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	8.3	1.7	ug/kg	
95-50-1	o-Dichlorobenzene	ND	8.3	1.7	ug/kg	
106-46-7	p-Dichlorobenzene	ND	8.3	1.9	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	8.3	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	8.3	1.7	ug/kg	
100-41-4	Ethylbenzene	ND	8.3	1.7	ug/kg	
591-78-6	2-Hexanone	ND	42	8.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	8.3	1.7	ug/kg	
98-82-8	Isopropylbenzene	ND	8.3	1.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	8.3	1.7	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	42	8.3	ug/kg	
74-83-9	Methyl bromide	ND	8.3	3.1	ug/kg	
74-87-3	Methyl chloride	ND	8.3	3.3	ug/kg	
74-95-3	Methylene bromide	ND	8.3	1.9	ug/kg	
75-09-2	Methylene chloride	ND	17	6.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	42	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	8.3	1.7	ug/kg	
91-20-3	Naphthalene	ND	8.3	3.3	ug/kg	
103-65-1	n-Propylbenzene	ND	8.3	1.7	ug/kg	
100-42-5	Styrene	ND	8.3	1.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	8.3	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	8.3	1.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.3	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	8.3	2.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.3	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	8.3	3.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.3	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	8.3	1.7	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	8.3	1.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	8.3	2.1	ug/kg	
108-88-3	Toluene	ND	8.3	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	8.3	1.7	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8.3	1.7	ug/kg	
75-01-4	Vinyl chloride	ND	8.3	1.7	ug/kg	
108-05-4	Vinyl Acetate	ND	42	13	ug/kg	
	m,p-Xylene	ND	17	2.7	ug/kg	
95-47-6	o-Xylene	ND	8.3	1.8	ug/kg	

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8260B	**Percent Solids:**	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		75-124%
2037-26-5	Toluene-D8	91%		75-126%
460-00-4	4-Bromofluorobenzene	100%		71-133%
17060-07-0	1,2-Dichloroethane-D4	98%		72-135%

(a) Sample was prepared from a bulk container.

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X034860.D	1	05/15/14	MV	05/13/14	OP51591	SX1631
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	920	180	ug/kg	
95-57-8	2-Chlorophenol	ND	180	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	18	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	19	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	920	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	74	ug/kg	
95-48-7	2-Methylphenol	ND	180	18	ug/kg	
	3&4-Methylphenol	ND	180	37	ug/kg	
88-75-5	2-Nitrophenol	ND	180	18	ug/kg	
100-02-7	4-Nitrophenol	ND	920	150	ug/kg	
87-86-5	Pentachlorophenol	ND	920	150	ug/kg	
108-95-2	Phenol	ND	180	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	24	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	18	ug/kg	
83-32-9	Acenaphthene	ND	180	23	ug/kg	
208-96-8	Acenaphthylene	ND	180	18	ug/kg	
62-53-3	Aniline	ND	180	18	ug/kg	
120-12-7	Anthracene	ND	180	18	ug/kg	
92-87-5	Benzidine	ND	1800	370	ug/kg	
56-55-3	Benzo(a)anthracene	ND	180	18	ug/kg	
50-32-8	Benzo(a)pyrene	ND	180	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	180	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	180	18	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	180	37	ug/kg	
100-51-6	Benzyl Alcohol	ND	180	18	ug/kg	
91-58-7	2-Chloronaphthalene	ND	180	22	ug/kg	
106-47-8	4-Chloroaniline	ND	180	18	ug/kg	
86-74-8	Carbazole	ND	180	18	ug/kg	
218-01-9	Chrysene	ND	180	18	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	180	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	180	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	180	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	180	18	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	180	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	180	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	180	18	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	180	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	180	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	18	ug/kg	
132-64-9	Dibenzofuran	ND	180	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	37	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	180	37	ug/kg	
84-66-2	Diethyl phthalate	ND	370	37	ug/kg	
131-11-3	Dimethyl phthalate	ND	180	37	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	37	ug/kg	
206-44-0	Fluoranthene	ND	180	18	ug/kg	
86-73-7	Fluorene	ND	180	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	180	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	180	18	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	18	ug/kg	
78-59-1	Isophorone	ND	180	18	ug/kg	
90-12-0	1-Methylnaphthalene	ND	180	18	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	18	ug/kg	
88-74-4	2-Nitroaniline	ND	180	37	ug/kg	
99-09-2	3-Nitroaniline	ND	180	37	ug/kg	
100-01-6	4-Nitroaniline	ND	180	37	ug/kg	
91-20-3	Naphthalene	ND	180	18	ug/kg	
98-95-3	Nitrobenzene	ND	180	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	180	21	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	180	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	18	ug/kg	
85-01-8	Phenanthrene	ND	180	18	ug/kg	
129-00-0	Pyrene	ND	180	18	ug/kg	
110-86-1	Pyridine	ND	370	37	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	180	18	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		40-102%
4165-62-2	Phenol-d5	64%		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%
4165-60-0	Nitrobenzene-d5	63%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	100%		45-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-001		
Lab Sample ID:	FA14862-1	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
		Percent Solids:	89.8
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8	0.52	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]
Barium	30.3	10	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.21	0.21	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium	2.6	0.52	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]
Lead	2.4	1.0	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.045	0.045	mg/kg	1	05/12/14	05/12/14	JL	SW846 7471B [1]	SW846 7471B [3]
Selenium	< 1.0	1.0	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.52	0.52	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11591
(2) Instrument QC Batch: MA11605
(3) Prep QC Batch: MP27243
(4) Prep QC Batch: MP27263

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8260B	**Percent Solids:**	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0093486.D	1	05/09/14	EP	n/a	n/a	VG3412
Run #2							

	Initial Weight
Run #1	3.76 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	67	20	ug/kg	
107-02-8	Acrolein	ND	34	14	ug/kg	
107-13-1	Acrylonitrile	ND	34	10	ug/kg	
71-43-2	Benzene	ND	6.7	1.3	ug/kg	
108-86-1	Bromobenzene	ND	6.7	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	2.6	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	1.3	ug/kg	
75-25-2	Bromoform	ND	6.7	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.7	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.7	1.3	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.7	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	1.3	ug/kg	
75-00-3	Chloroethane	ND	6.7	3.0	ug/kg	
67-66-3	Chloroform	ND	6.7	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.7	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.7	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	34	13	ug/kg	
75-15-0	Carbon disulfide	ND	6.7	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.7	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.7	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.7	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.7	2.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.7	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.7	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.7	1.3	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.7	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	1.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.7	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	1.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8260B	**Percent Solids:**	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	6.7	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.7	1.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.7	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.7	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	6.7	1.3	ug/kg	
591-78-6	2-Hexanone	ND	34	6.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.7	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.7	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	34	6.7	ug/kg	
74-83-9	Methyl bromide	ND	6.7	2.5	ug/kg	
74-87-3	Methyl chloride	ND	6.7	2.7	ug/kg	
74-95-3	Methylene bromide	ND	6.7	1.5	ug/kg	
75-09-2	Methylene chloride	ND	13	5.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	34	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.7	1.3	ug/kg	
91-20-3	Naphthalene	ND	6.7	2.7	ug/kg	
103-65-1	n-Propylbenzene	ND	6.7	1.3	ug/kg	
100-42-5	Styrene	ND	6.7	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.7	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.7	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.7	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.7	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.7	1.7	ug/kg	
108-88-3	Toluene	ND	6.7	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	6.7	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	1.3	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	34	11	ug/kg	
	m,p-Xylene	ND	13	2.1	ug/kg	
95-47-6	o-Xylene	ND	6.7	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8260B	**Percent Solids:**	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		75-124%
2037-26-5	Toluene-D8	91%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%
17060-07-0	1,2-Dichloroethane-D4	100%		72-135%

(a) Sample was prepared from a bulk container.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X034861.D	1	05/15/14	MV	05/13/14	OP51591	SX1631
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	840	170	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	19	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	340	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	34	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	840	130	ug/kg	
87-86-5	Pentachlorophenol	ND	840	130	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	21	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
62-53-3	Aniline	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	34	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	340	34	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	34	ug/kg	
84-66-2	Diethyl phthalate	ND	340	34	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	34	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	340	34	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	17	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	34	ug/kg	
99-09-2	3-Nitroaniline	ND	170	34	ug/kg	
100-01-6	4-Nitroaniline	ND	170	34	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
110-86-1	Pyridine	ND	340	34	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		40-102%
4165-62-2	Phenol-d5	79%		41-100%
118-79-6	2,4,6-Tribromophenol	90%		42-108%
4165-60-0	Nitrobenzene-d5	79%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	113%		45-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BORROW-050814-002		
Lab Sample ID:	FA14862-2	**Date Sampled:**	05/08/14
Matrix:	SO - Soil	**Date Received:**	05/09/14
		Percent Solids:	99.2
Project:	Wichita Facility; 2549 N New York, Wichita, KS		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	8.8	2.3	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	247	47	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [a]	< 0.93	0.93	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [a]	25.3	2.3	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [a]	32.2	4.7	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.041	0.041	mg/kg	1	05/12/14	05/12/14	JL	SW846 7471B [1]	SW846 7471B [3]
Selenium [a]	< 4.7	4.7	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	< 2.3	2.3	mg/kg	5	05/16/14	05/19/14	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA11591
(2) Instrument QC Batch: MA11608
(3) Prep QC Batch: MP27243
(4) Prep QC Batch: MP27263

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA14862 PAGE ____ OF ____

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: CLEAN HARBORS
Address: 13652 COUNTY ROAD 180
City: CARTHAGE State: MO Zip: 64836
Project Contact: MARSH SMITH E-mail: SMITH.MARSH@cleanharbors.com
Phone#: (417) 358-0826
Sampler(s) Name(s) (Printed): MICHAEL J. JANA

Project Information

Project Name: TRM @ WICHITA FACILITY
Street: 2549 N. NEW YORK
City: WICHITA State: KS
Project #: ~~5142505514~~ / X09422595
Fax #:
Client Purchase Order #: W140000113

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	VOC 8260	SVOC 8270	RCRA METALS
1	BORROW-050814-001	5/4/14	0855	MM	SO	4										✓	✓	✓
2	BORROW-050814-002	5/4/14	0855	MM	SO	4										✓	✓	✓

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	5/8/14 0940	2 FX	3 FX	5-9-14	4 Cooper (ABR) 09:00
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.4

4.1 4

FA14862: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA14862 CLIENT: CLEAN HARBORS PROJECT: WICHITA FACILITY

DATE/TIME RECEIVED: 5-9-14 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8055 3264 2392

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 2+TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5-9-14 REVIEWER SIGNATURE/DATE 05/09/14

RS 04/14 receipt confirmation 041514.xls

4.1

4

FA14862: Chain of Custody

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00641

01000

FedEx Express Package US Airbill

FedEx Tracking Number 8055 3264 2392

1 From

Date 5/8/2014 [redacted]

Sender's Name MIKE JAJA Phone 512 616-7601

Company CLEAN HARBORS

Address 2549 N NEW YORK

Dept./Floor/Suite/Room

City WICHITA State KS ZIP 67219

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIVING Phone 407 425-6700

Company ACCUTEST LABORATORIES SE, INC

Address 4405 VINELAND RD STE C15

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City ORLANDO State FL ZIP 32811-5803

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0114053202

8055 3264 2392

fedex.com 1800GoFedEx 1800.463.3339

Recipient's Copy

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. ☐

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

[redacted]

Total Packages Total Weight [redacted] Credit Card Auth.

____ lbs.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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4

FA14862: Chain of Custody

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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3412-MB	G0093479.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	

Method Blank Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3412-MB	G0093479.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

Method Blank Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3412-MB	G0093479.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	75-124%
2037-26-5	Toluene-D8	92%	75-126%
460-00-4	4-Bromofluorobenzene	98%	71-133%
17060-07-0	1,2-Dichloroethane-D4	89%	72-135%

Blank Spike Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3412-BS	G0093478.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	274	110	61-152
107-02-8	Acrolein	250	271	108	48-178
107-13-1	Acrylonitrile	250	298	119	66-134
71-43-2	Benzene	50	52.0	104	76-126
108-86-1	Bromobenzene	50	51.9	104	76-122
74-97-5	Bromochloromethane	50	53.7	107	77-120
75-27-4	Bromodichloromethane	50	54.1	108	74-130
75-25-2	Bromoform	50	52.2	104	76-127
104-51-8	n-Butylbenzene	50	47.2	94	71-128
135-98-8	sec-Butylbenzene	50	50.9	102	79-135
98-06-6	tert-Butylbenzene	50	47.5	95	77-133
108-90-7	Chlorobenzene	50	51.7	103	81-129
75-00-3	Chloroethane	50	43.8	88	68-133
67-66-3	Chloroform	50	49.8	100	72-123
95-49-8	o-Chlorotoluene	50	49.7	99	77-129
106-43-4	p-Chlorotoluene	50	50.9	102	80-134
110-75-8	2-Chloroethyl vinyl ether	250	268	107	45-159
75-15-0	Carbon disulfide	50	57.2	114	72-122
56-23-5	Carbon tetrachloride	50	49.4	99	78-133
75-34-3	1,1-Dichloroethane	50	51.4	103	73-125
75-35-4	1,1-Dichloroethylene	50	49.9	100	81-136
563-58-6	1,1-Dichloropropene	50	53.2	106	75-130
96-12-8	1,2-Dibromo-3-chloropropane	50	47.4	95	70-137
106-93-4	1,2-Dibromoethane	50	51.3	103	77-126
107-06-2	1,2-Dichloroethane	50	50.1	100	74-128
78-87-5	1,2-Dichloropropane	50	55.6	111	74-125
142-28-9	1,3-Dichloropropane	50	49.2	98	76-122
594-20-7	2,2-Dichloropropane	50	48.8	98	77-133
124-48-1	Dibromochloromethane	50	52.8	106	76-127
75-71-8	Dichlorodifluoromethane	50	47.9	96	68-168
156-59-2	cis-1,2-Dichloroethylene	50	52.1	104	74-126
10061-01-5	cis-1,3-Dichloropropene	50	54.9	110	80-123
541-73-1	m-Dichlorobenzene	50	53.5	107	81-129
95-50-1	o-Dichlorobenzene	50	52.3	105	80-129
106-46-7	p-Dichlorobenzene	50	47.9	96	76-130
156-60-5	trans-1,2-Dichloroethylene	50	50.9	102	70-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3412-BS	G0093478.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.2	106	75-131
100-41-4	Ethylbenzene	50	48.5	97	77-123
591-78-6	2-Hexanone	250	261	104	72-133
87-68-3	Hexachlorobutadiene	50	52.0	104	74-136
98-82-8	Isopropylbenzene	50	52.8	106	80-136
99-87-6	p-Isopropyltoluene	50	51.5	103	77-131
108-10-1	4-Methyl-2-pentanone	250	259	104	76-132
74-83-9	Methyl bromide	50	41.5	83	65-139
74-87-3	Methyl chloride	50	53.9	108	71-144
74-95-3	Methylene bromide	50	51.1	102	74-124
75-09-2	Methylene chloride	50	52.7	105	74-137
78-93-3	Methyl ethyl ketone	250	274	110	75-137
1634-04-4	Methyl Tert Butyl Ether	50	51.5	103	77-120
91-20-3	Naphthalene	50	48.4	97	79-129
103-65-1	n-Propylbenzene	50	53.6	107	80-135
100-42-5	Styrene	50	52.0	104	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	51.7	103	78-126
71-55-6	1,1,1-Trichloroethane	50	51.6	103	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	50.5	101	71-126
79-00-5	1,1,2-Trichloroethane	50	48.9	98	74-124
87-61-6	1,2,3-Trichlorobenzene	50	48.4	97	77-128
96-18-4	1,2,3-Trichloropropane	50	50.3	101	74-127
120-82-1	1,2,4-Trichlorobenzene	50	50.3	101	78-130
95-63-6	1,2,4-Trimethylbenzene	50	46.1	92	74-123
108-67-8	1,3,5-Trimethylbenzene	50	49.0	98	73-122
127-18-4	Tetrachloroethylene	50	48.1	96	79-130
108-88-3	Toluene	50	47.6	95	76-124
79-01-6	Trichloroethylene	50	51.5	103	75-128
75-69-4	Trichlorofluoromethane	50	47.4	95	73-145
75-01-4	Vinyl chloride	50	51.4	103	76-141
108-05-4	Vinyl Acetate	250	235	94	48-164
	m,p-Xylene	100	100	100	80-128
95-47-6	o-Xylene	50	53.0	106	80-132

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3412-BS	G0093478.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	75-124%
2037-26-5	Toluene-D8	91%	75-126%
460-00-4	4-Bromofluorobenzene	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	90%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14862-1MS	G0093488.D	1	05/09/14	EP	n/a	n/a	VG3412
FA14862-1MSD	G0093489.D	1	05/09/14	EP	n/a	n/a	VG3412
FA14862-1 [a]	G0093485.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Compound	FA14862-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		350	301	86	350	317	91	5	61-152/27
107-02-8	Acrolein	ND		350	199	57	350	177	51	12	48-178/37
107-13-1	Acrylonitrile	ND		350	301	86	350	315	90	5	66-134/26
71-43-2	Benzene	ND		69.9	66.3	95	69.9	66.1	94	0	76-126/26
108-86-1	Bromobenzene	ND		69.9	63.5	91	69.9	64.1	92	1	76-122/32
74-97-5	Bromochloromethane	ND		69.9	67.9	97	69.9	68.7	98	1	77-120/24
75-27-4	Bromodichloromethane	ND		69.9	69.0	99	69.9	70.8	101	3	74-130/25
75-25-2	Bromoform	ND		69.9	65.3	93	69.9	63.8	91	2	76-127/26
104-51-8	n-Butylbenzene	ND		69.9	52.0	74	69.9	56.4	81	8	71-128/35
135-98-8	sec-Butylbenzene	ND		69.9	56.5	81	69.9	61.6	88	9	79-135/34
98-06-6	tert-Butylbenzene	ND		69.9	57.7	82	69.9	61.1	87	6	77-133/34
108-90-7	Chlorobenzene	ND		69.9	64.8	93	69.9	65.5	94	1	81-129/29
75-00-3	Chloroethane	ND		69.9	57.8	83	69.9	57.5	82	1	68-133/29
67-66-3	Chloroform	ND		69.9	66.3	95	69.9	66.6	95	0	72-123/26
95-49-8	o-Chlorotoluene	ND		69.9	58.5	84	69.9	61.9	88	6	77-129/33
106-43-4	p-Chlorotoluene	ND		69.9	63.2	90	69.9	65.8	94	4	80-134/33
110-75-8	2-Chloroethyl vinyl ether	ND		350	326	93	350	334	95	2	45-159/26
75-15-0	Carbon disulfide	ND		69.9	68.0	97	69.9	67.7	97	0	72-122/29
56-23-5	Carbon tetrachloride	ND		69.9	63.4	91	69.9	62.1	89	2	78-133/29
75-34-3	1,1-Dichloroethane	ND		69.9	66.4	95	69.9	66.0	94	1	73-125/27
75-35-4	1,1-Dichloroethylene	ND		69.9	63.8	91	69.9	63.3	90	1	81-136/28
563-58-6	1,1-Dichloropropene	ND		69.9	66.9	96	69.9	65.5	94	2	75-130/28
96-12-8	1,2-Dibromo-3-chloropropane	ND		69.9	60.3	86	69.9	59.1	84	2	70-137/29
106-93-4	1,2-Dibromoethane	ND		69.9	62.9	90	69.9	67.0	96	6	77-126/26
107-06-2	1,2-Dichloroethane	ND		69.9	68.4	98	69.9	69.1	99	1	74-128/23
78-87-5	1,2-Dichloropropane	ND		69.9	69.4	99	69.9	69.1	99	0	74-125/25
142-28-9	1,3-Dichloropropane	ND		69.9	64.3	92	69.9	65.0	93	1	76-122/26
594-20-7	2,2-Dichloropropane	ND		69.9	60.5	86	69.9	62.0	89	2	77-133/28
124-48-1	Dibromochloromethane	ND		69.9	65.1	93	69.9	65.8	94	1	76-127/27
75-71-8	Dichlorodifluoromethane	ND		69.9	59.9	86	69.9	56.1	80	7	68-168/29
156-59-2	cis-1,2-Dichloroethylene	ND		69.9	65.8	94	69.9	66.5	95	1	74-126/26
10061-01-5	cis-1,3-Dichloropropene	ND		69.9	67.2	96	69.9	67.7	97	1	80-123/26
541-73-1	m-Dichlorobenzene	ND		69.9	65.1	93	69.9	69.1	99	6	81-129/33
95-50-1	o-Dichlorobenzene	ND		69.9	61.6	88	69.9	64.3	92	4	80-129/32
106-46-7	p-Dichlorobenzene	ND		69.9	57.5	82	69.9	62.3	89	8	76-130/32
156-60-5	trans-1,2-Dichloroethylene	ND		69.9	65.0	93	69.9	63.8	91	2	70-127/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14862-1MS	G0093488.D	1	05/09/14	EP	n/a	n/a	VG3412
FA14862-1MSD	G0093489.D	1	05/09/14	EP	n/a	n/a	VG3412
FA14862-1 [a]	G0093485.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Compound	FA14862-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		69.9	70.2	100	69.9	70.4	101	0	75-131/28
100-41-4	Ethylbenzene	ND		69.9	59.5	85	69.9	61.3	88	3	77-123/31
591-78-6	2-Hexanone	ND		350	281	80	350	293	84	4	72-133/26
87-68-3	Hexachlorobutadiene	ND		69.9	40.8	58*	69.9	49.1	70*	18	74-136/38
98-82-8	Isopropylbenzene	ND		69.9	64.3	92	69.9	64.5	92	0	80-136/32
99-87-6	p-Isopropyltoluene	ND		69.9	57.2	82	69.9	61.7	88	8	77-131/34
108-10-1	4-Methyl-2-pentanone	ND		350	298	85	350	324	93	8	76-132/26
74-83-9	Methyl bromide	ND		69.9	56.0	80	69.9	54.8	78	2	65-139/31
74-87-3	Methyl chloride	ND		69.9	64.8	93	69.9	65.9	94	2	71-144/27
74-95-3	Methylene bromide	ND		69.9	67.2	96	69.9	67.6	97	1	74-124/24
75-09-2	Methylene chloride	ND		69.9	68.6	98	69.9	66.3	95	3	74-137/28
78-93-3	Methyl ethyl ketone	ND		350	316	90	350	331	95	5	75-137/25
1634-04-4	Methyl Tert Butyl Ether	ND		69.9	66.0	94	69.9	66.9	96	1	77-120/24
91-20-3	Naphthalene	ND		69.9	49.6	71*	69.9	53.5	76*	8	79-129/33
103-65-1	n-Propylbenzene	ND		69.9	59.2	85	69.9	61.6	88	4	80-135/33
100-42-5	Styrene	ND		69.9	64.8	93	69.9	63.4	91	2	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		69.9	64.6	92	69.9	66.6	95	3	78-126/27
71-55-6	1,1,1-Trichloroethane	ND		69.9	66.9	96	69.9	68.4	98	2	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		69.9	59.0	84	69.9	62.4	89	6	71-126/30
79-00-5	1,1,2-Trichloroethane	ND		69.9	63.9	91	69.9	64.1	92	0	74-124/28
87-61-6	1,2,3-Trichlorobenzene	ND		69.9	45.1	64*	69.9	51.5	74*	13	77-128/35
96-18-4	1,2,3-Trichloropropane	ND		69.9	59.5	85	69.9	62.8	90	5	74-127/27
120-82-1	1,2,4-Trichlorobenzene	ND		69.9	50.0	71*	69.9	56.6	81	12	78-130/34
95-63-6	1,2,4-Trimethylbenzene	ND		69.9	57.3	82	69.9	60.1	86	5	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND		69.9	55.9	80	69.9	60.2	86	7	73-122/33
127-18-4	Tetrachloroethylene	ND		69.9	60.3	86	69.9	58.5	84	3	79-130/31
108-88-3	Toluene	ND		69.9	63.1	90	69.9	62.1	89	2	76-124/30
79-01-6	Trichloroethylene	ND		69.9	63.5	91	69.9	64.8	93	2	75-128/27
75-69-4	Trichlorofluoromethane	ND		69.9	59.7	85	69.9	60.7	87	2	73-145/31
75-01-4	Vinyl chloride	ND		69.9	64.2	92	69.9	64.5	92	0	76-141/27
108-05-4	Vinyl Acetate	ND		350	48.3	14*	350	37.6	11*	25	48-164/37
	m,p-Xylene	ND		140	123	88	140	131	94	6	80-128/30
95-47-6	o-Xylene	ND		69.9	64.8	93	69.9	65.2	93	1	80-132/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14862-1MS	G0093488.D	1	05/09/14	EP	n/a	n/a	VG3412
FA14862-1MSD	G0093489.D	1	05/09/14	EP	n/a	n/a	VG3412
FA14862-1 [a]	G0093485.D	1	05/09/14	EP	n/a	n/a	VG3412

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14862-1, FA14862-2

CAS No.	Surrogate Recoveries	MS	MSD	FA14862-1	Limits
1868-53-7	Dibromofluoromethane	93%	99%	94%	75-124%
2037-26-5	Toluene-D8	96%	95%	91%	75-126%
460-00-4	4-Bromofluorobenzene	99%	104%	100%	71-133%
17060-07-0	1,2-Dichloroethane-D4	92%	92%	98%	72-135%

(a) Sample was prepared from a bulk container.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-MB	X034854.D	1	05/15/14	MV	05/13/14	OP51591	SX1631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	170	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	18	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	21	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
62-53-3	Aniline	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	17	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	25	ug/kg	

Method Blank Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-MB	X034854.D	1	05/15/14	MV	05/13/14	OP51591	SX1631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	33	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	17	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
110-86-1	Pyridine	ND	330	33	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

Method Blank Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-MB	X034854.D	1	05/15/14	MV	05/13/14	OP51591	SX1631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	74%	40-102%
4165-62-2	Phenol-d5	76%	41-100%
118-79-6	2,4,6-Tribromophenol	81%	42-108%
4165-60-0	Nitrobenzene-d5	74%	40-105%
321-60-8	2-Fluorobiphenyl	75%	43-107%
1718-51-0	Terphenyl-d14	108%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
4161-60-8	2-Pentanone, 4-hydroxy-	2.39	140	ug/kg	JN
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.51	4200	ug/kg	JN
	Total TIC, Semi-Volatile		4340	ug/kg	J

Blank Spike Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-BS	X034853.D	1	05/15/14	MV	05/13/14	OP51591	SX1631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2460	74	36-118
95-57-8	2-Chlorophenol	1670	1230	74	48-104
59-50-7	4-Chloro-3-methyl phenol	1670	1220	73	52-108
120-83-2	2,4-Dichlorophenol	1670	1180	71	51-105
105-67-9	2,4-Dimethylphenol	1670	1240	74	43-96
51-28-5	2,4-Dinitrophenol	3330	3130	94	40-119
534-52-1	4,6-Dinitro-o-cresol	3330	3200	96	64-121
95-48-7	2-Methylphenol	1670	1220	73	46-107
	3&4-Methylphenol	3330	2550	77	44-111
88-75-5	2-Nitrophenol	1670	1160	70	49-104
100-02-7	4-Nitrophenol	3330	2860	86	56-116
87-86-5	Pentachlorophenol	3330	3160	95	61-114
108-95-2	Phenol	1670	1220	73	45-110
95-95-4	2,4,5-Trichlorophenol	1670	1390	83	58-112
88-06-2	2,4,6-Trichlorophenol	1670	1410	85	56-109
83-32-9	Acenaphthene	1670	1370	82	56-109
208-96-8	Acenaphthylene	1670	1390	83	56-106
62-53-3	Aniline	1670	1190	71	42-108
120-12-7	Anthracene	1670	1430	86	61-110
92-87-5	Benzidine	1670	968	58	10-109
56-55-3	Benzo(a)anthracene	1670	1490	89	66-111
50-32-8	Benzo(a)pyrene	1670	1430	86	59-104
205-99-2	Benzo(b)fluoranthene	1670	1440	86	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1560	94	67-113
207-08-9	Benzo(k)fluoranthene	1670	1550	93	67-114
101-55-3	4-Bromophenyl phenyl ether	1670	1240	74	62-110
85-68-7	Butyl benzyl phthalate	1670	1690	101	65-113
100-51-6	Benzyl Alcohol	1670	1340	80	53-108
91-58-7	2-Chloronaphthalene	1670	1320	79	53-106
106-47-8	4-Chloroaniline	1670	1060	64	30-115
86-74-8	Carbazole	1670	1420	85	60-111
218-01-9	Chrysene	1670	1580	95	65-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1170	70	48-105
111-44-4	bis(2-Chloroethyl)ether	1670	1150	69	46-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1130	68	40-110
7005-72-3	4-Chlorophenyl phenyl ether	1670	1350	81	58-106

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-BS	X034853.D	1	05/15/14	MV	05/13/14	OP51591	SX1631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	1670	1100	66	44-102
122-66-7	1,2-Diphenylhydrazine	1670	1340	80	58-112
541-73-1	1,3-Dichlorobenzene	1670	1100	66	42-100
106-46-7	1,4-Dichlorobenzene	1670	1160	70	40-106
121-14-2	2,4-Dinitrotoluene	1670	1400	84	59-109
606-20-2	2,6-Dinitrotoluene	1670	1390	83	61-107
91-94-1	3,3'-Dichlorobenzidine	1670	1430	86	36-114
53-70-3	Dibenzo(a,h)anthracene	1670	1510	91	68-115
132-64-9	Dibenzofuran	1670	1350	81	57-108
84-74-2	Di-n-butyl phthalate	1670	1510	91	63-108
117-84-0	Di-n-octyl phthalate	1670	1620	97	64-119
84-66-2	Diethyl phthalate	1670	1440	86	61-109
131-11-3	Dimethyl phthalate	1670	1380	83	59-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1710	103	64-115
206-44-0	Fluoranthene	1670	1360	82	60-108
86-73-7	Fluorene	1670	1400	84	58-109
118-74-1	Hexachlorobenzene	1670	1430	86	59-111
87-68-3	Hexachlorobutadiene	1670	1210	73	41-108
77-47-4	Hexachlorocyclopentadiene	1670	1300	78	49-110
67-72-1	Hexachloroethane	1670	1160	70	40-105
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1440	86	66-116
78-59-1	Isophorone	1670	1180	71	42-89
90-12-0	1-Methylnaphthalene	1670	1100	66	49-106
91-57-6	2-Methylnaphthalene	1670	1160	70	47-106
88-74-4	2-Nitroaniline	1670	1370	82	56-123
99-09-2	3-Nitroaniline	1670	1180	71	41-111
100-01-6	4-Nitroaniline	1670	1380	83	54-113
91-20-3	Naphthalene	1670	1160	70	44-104
98-95-3	Nitrobenzene	1670	1120	67	43-108
62-75-9	N-Nitrosodimethylamine	1670	1140	68	40-106
621-64-7	N-Nitroso-di-n-propylamine	1670	1270	76	48-108
86-30-6	N-Nitrosodiphenylamine	1670	1470	88	62-110
85-01-8	Phenanthrene	1670	1460	88	63-111
129-00-0	Pyrene	1670	1560	94	65-115
110-86-1	Pyridine	1670	989	59	31-102
120-82-1	1,2,4-Trichlorobenzene	1670	1110	67	45-100

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-BS	X034853.D	1	05/15/14	MV	05/13/14	OP51591	SX1631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	40-102%
4165-62-2	Phenol-d5	75%	41-100%
118-79-6	2,4,6-Tribromophenol	87%	42-108%
4165-60-0	Nitrobenzene-d5	67%	40-105%
321-60-8	2-Fluorobiphenyl	80%	43-107%
1718-51-0	Terphenyl-d14	108%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-MS	X034857.D	4	05/15/14	MV	05/13/14	OP51591	SX1631
OP51591-MSD	X034858.D	4	05/15/14	MV	05/13/14	OP51591	SX1631
FA14881-2	X034873.D	1	05/16/14	MV	05/13/14	OP51591	SX1632

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Compound	FA14881-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		3870	1230	32*	3890	1260	32*	2	36-118/41
95-57-8	2-Chlorophenol	ND		1930	1280	66	1950	1190	61	7	48-104/26
59-50-7	4-Chloro-3-methyl phenol	ND		1930	1270	66	1950	1230	63	3	52-108/21
120-83-2	2,4-Dichlorophenol	ND		1930	1250	65	1950	1180	61	6	51-105/27
105-67-9	2,4-Dimethylphenol	ND		1930	1380	71	1950	1310	67	5	43-96/23
51-28-5	2,4-Dinitrophenol	ND		3870	1700	44	3890	1850	48	8	40-119/32
534-52-1	4,6-Dinitro-o-cresol	ND		3870	2390	62*	3890	2260	58*	6	64-121/29
95-48-7	2-Methylphenol	ND		1930	1280	66	1950	1170	60	9	46-107/24
	3&4-Methylphenol	ND		3870	2580	67	3890	2420	62	6	44-111/24
88-75-5	2-Nitrophenol	ND		1930	1280	66	1950	1170	60	9	49-104/27
100-02-7	4-Nitrophenol	ND		3870	2620	68	3890	2670	69	2	56-116/23
87-86-5	Pentachlorophenol	ND		3870	3230	84	3890	3050	78	6	61-114/23
108-95-2	Phenol	ND		1930	1250	65	1950	1180	61	6	45-110/24
95-95-4	2,4,5-Trichlorophenol	ND		1930	1470	76	1950	1360	70	8	58-112/22
88-06-2	2,4,6-Trichlorophenol	ND		1930	1480	77	1950	1340	69	10	56-109/25
83-32-9	Acenaphthene	ND		1930	1390	72	1950	1410	72	1	56-109/23
208-96-8	Acenaphthylene	ND		1930	1470	76	1950	1380	71	6	56-106/23
62-53-3	Aniline	ND		1930	1220	63	1950	1120	58	9	42-108/28
120-12-7	Anthracene	ND		1930	1480	77	1950	1440	74	3	61-110/21
56-55-3	Benzo(a)anthracene	ND		1930	1490	77	1950	1430	73	4	66-111/23
50-32-8	Benzo(a)pyrene	ND		1930	1440	74	1950	1390	71	4	59-104/23
205-99-2	Benzo(b)fluoranthene	ND		1930	1420	73	1950	1390	71	2	67-113/24
191-24-2	Benzo(g,h,i)perylene	ND		1930	1620	84	1950	1520	78	6	67-113/21
207-08-9	Benzo(k)fluoranthene	ND		1930	1490	77	1950	1460	75	2	67-114/22
101-55-3	4-Bromophenyl phenyl ether	ND		1930	1270	66	1950	1200	62	6	62-110/21
85-68-7	Butyl benzyl phthalate	ND		1930	1550	80	1950	1610	83	4	65-113/20
100-51-6	Benzyl Alcohol	ND		1930	1430	74	1950	1310	67	9	53-108/24
91-58-7	2-Chloronaphthalene	ND		1930	1450	75	1950	1310	67	10	53-106/23
106-47-8	4-Chloroaniline	ND		1930	1220	63	1950	1140	59	7	30-115/30
86-74-8	Carbazole	ND		1930	1490	77	1950	1430	73	4	60-111/19
218-01-9	Chrysene	ND		1930	1540	80	1950	1520	78	1	65-112/25
111-91-1	bis(2-Chloroethoxy)methane	ND		1930	1250	65	1950	1200	62	4	48-105/24
111-44-4	bis(2-Chloroethyl)ether	ND		1930	1180	61	1950	1110	57	6	46-103/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		1930	1190	62	1950	1160	60	3	40-110/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		1930	1310	68	1950	1330	68	2	58-106/21
95-50-1	1,2-Dichlorobenzene	ND		1930	1110	57	1950	1020	52	8	44-102/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-MS	X034857.D	4	05/15/14	MV	05/13/14	OP51591	SX1631
OP51591-MSD	X034858.D	4	05/15/14	MV	05/13/14	OP51591	SX1631
FA14881-2	X034873.D	1	05/16/14	MV	05/13/14	OP51591	SX1632

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Compound	FA14881-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
122-66-7	1,2-Diphenylhydrazine	ND		1930	1250	65	1950	1340	69	7	58-112/22
541-73-1	1,3-Dichlorobenzene	ND		1930	1090	56	1950	1020	52	7	42-100/30
106-46-7	1,4-Dichlorobenzene	ND		1930	1160	60	1950	1090	56	6	40-106/29
121-14-2	2,4-Dinitrotoluene	ND		1930	1280	66	1950	1300	67	2	59-109/20
606-20-2	2,6-Dinitrotoluene	ND		1930	1450	75	1950	1320	68	9	61-107/22
91-94-1	3,3'-Dichlorobenzidine	ND		1930	1530	79	1950	1450	75	5	36-114/28
53-70-3	Dibenzo(a,h)anthracene	ND		1930	1530	79	1950	1380	71	10	68-115/23
132-64-9	Dibenzofuran	ND		1930	1330	69	1950	1350	69	1	57-108/22
84-74-2	Di-n-butyl phthalate	ND		1930	1530	79	1950	1520	78	1	63-108/19
117-84-0	Di-n-octyl phthalate	ND		1930	1490	77	1950	1580	81	6	64-119/21
84-66-2	Diethyl phthalate	ND		1930	1370	71	1950	1420	73	4	61-109/20
131-11-3	Dimethyl phthalate	ND		1930	1440	74	1950	1390	71	4	59-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1930	1580	82	1950	1580	81	0	64-115/23
206-44-0	Fluoranthene	ND		1930	1480	77	1950	1410	72	5	60-108/25
86-73-7	Fluorene	28.8	J	1930	1400	72	1950	1420	73	1	58-109/21
118-74-1	Hexachlorobenzene	ND		1930	1550	80	1950	1420	73	9	59-111/21
87-68-3	Hexachlorobutadiene	ND		1930	1240	64	1950	1200	62	3	41-108/27
77-47-4	Hexachlorocyclopentadiene	ND		1930	1080	56	1950	966	50	11	49-110/31
67-72-1	Hexachloroethane	ND		1930	1100	57	1950	1050	54	5	40-105/32
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1930	1470	76	1950	1370	70	7	66-116/22
78-59-1	Isophorone	ND		1930	1270	66	1950	1190	61	7	42-89/22
90-12-0	1-Methylnaphthalene	29.3	J	1930	1230	64	1950	1140	59	8	49-106/26
91-57-6	2-Methylnaphthalene	ND		1930	1260	65	1950	1180	61	7	47-106/27
88-74-4	2-Nitroaniline	ND		1930	1470	76	1950	1260	65	15	56-123/24
99-09-2	3-Nitroaniline	ND		1930	1320	68	1950	1260	65	5	41-111/25
100-01-6	4-Nitroaniline	ND		1930	1310	68	1950	1370	70	4	54-113/22
91-20-3	Naphthalene	ND		1930	1310	68	1950	1200	62	9	44-104/27
98-95-3	Nitrobenzene	ND		1930	1210	63	1950	1170	60	3	43-108/25
62-75-9	N-Nitrosodimethylamine	ND		1930	1010	52	1950	1050	54	4	40-106/27
621-64-7	N-Nitroso-di-n-propylamine	ND		1930	1300	67	1950	1220	63	6	48-108/27
86-30-6	N-Nitrosodiphenylamine	ND		1930	1570	81	1950	1540	79	2	62-110/21
85-01-8	Phenanthrene	30.4	J	1930	1540	80	1950	1490	77	3	63-111/22
129-00-0	Pyrene	ND		1930	1530	79	1950	1520	78	1	65-115/25
110-86-1	Pyridine	ND		1930	947	49	1950	900	46	5	31-102/38
120-82-1	1,2,4-Trichlorobenzene	ND		1930	1190	62	1950	1130	58	5	45-100/26

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14862
Account: CLNHMAN Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51591-MS	X034857.D	4	05/15/14	MV	05/13/14	OP51591	SX1631
OP51591-MSD	X034858.D	4	05/15/14	MV	05/13/14	OP51591	SX1631
FA14881-2	X034873.D	1	05/16/14	MV	05/13/14	OP51591	SX1632

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA14862-1, FA14862-2

CAS No.	Surrogate Recoveries	MS	MSD	FA14881-2	Limits
367-12-4	2-Fluorophenol	61%	58%	51%	40-102%
4165-62-2	Phenol-d5	65%	61%	54%	41-100%
118-79-6	2,4,6-Tribromophenol	84%	73%	63%	42-108%
4165-60-0	Nitrobenzene-d5	61%	58%	51%	40-105%
321-60-8	2-Fluorobiphenyl	71%	66%	58%	43-107%
1718-51-0	Terphenyl-d14	92%	88%	71%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27243
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/12/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.042	.0025	.0042	-0.0063	<0.042

Associated samples MP27243: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27243
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/12/14 05/12/14

Metal	FA14808-1 Original	DUP	RPD	QC Limits	FA14808-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.082	0.084	2.4	0-20	0.082	0.37	0.291	98.9	80-120

Associated samples MP27243: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.1.2

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27243
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/12/14

Metal	FA14808-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.082	0.37	0.291	98.9	0.0	20

Associated samples MP27243: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.1.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27243
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/12/14

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP27243: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

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SERIAL DILUTION RESULTS SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27243
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 05/12/14

Metal	FA14808-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.876	0.421	52.0 (a)	0-10

Associated samples MP27243: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.1.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1		
Arsenic	0.50	.1	.1	-0.090	<0.50
Barium	10	.05	.05	0.0	<10
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025	-0.0050	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05	0.010	<0.50
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05		
Iron	15	.85	1.3		
Lead	1.0	.055	.08	0.020	<1.0
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.15	0.045	<1.0
Silver	0.50	.033	.033	-0.0050	<0.50
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP27263: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			05/16/14					05/16/14	
Metal	FA14967-1 Original	DUP	RPD	QC Limits	FA14967-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	0.89	0.95	6.5	0-20	0.89	97.6	108	89.3	80-120
Barium	12.8	11.9	7.3	0-20	12.8	107	108	87.0	80-120
Beryllium	anr								
Cadmium	0.059	0.049	18.5	0-20	0.059	2.5	2.71	90.2	80-120
Calcium									
Chromium	19.8	18.8	5.2	0-20	19.8	22.4	10.8	24.0N(b)	80-120
Cobalt									
Copper	anr								
Iron									
Lead	13.0	11.6	11.4	0-20	13.0	33.4	27.1	75.4N(b)	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	0.43	0.57	28.0 (a)	0-20	0.43	97.2	108	89.4	80-120
Silver	0.0	0.0	NC	0-20	0.0	2.3	2.71	85.0	80-120
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP27263: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14

Metal	FA14967-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.89	88.5	100	87.5	9.8	20
Barium	12.8	98.3	100	85.4	8.5	20
Beryllium	anr					
Cadmium	0.059	2.3	2.5	89.6	8.3	20
Calcium						
Chromium	19.8	22.4	10	26.0N(a)	0.0	20
Cobalt						
Copper	anr					
Iron						
Lead	13.0	32.0	25	75.9N(a)	4.3	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.43	88.2	100	87.7	9.7	20
Silver	0.0	2.1	2.5	83.9	9.1	20
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP27263: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	109	100	109.0	80-120
Barium	108	100	108.0	80-120
Beryllium	anr			
Cadmium	2.8	2.5	112.0	80-120
Calcium				
Chromium	11.3	10	113.0	80-120
Cobalt				
Copper	anr			
Iron				
Lead	26.5	25	106.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	106	100	106.0	80-120
Silver	2.4	2.5	96.0	80-120
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27263: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/16/14

Metal	FA14967-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	18.1	19.6	8.3	0-10
Barium	259	313	20.8*(a)	0-10
Beryllium	anr			
Cadmium	1.20	0.00	100.0(b)	0-10
Calcium				
Chromium	402	476	18.4*(a)	0-10
Cobalt				
Copper	anr			
Iron				
Lead	264	272	2.9	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	8.70	17.1	96.6 (b)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27263: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA14862
Account: CLNHMAN - Clean Harbors Env Svcs
Project: Wichita Facility; 2549 N New York, Wichita, KS

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/16/14

Metal	Sample ml	Final ml	FA14967-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	18.1	17.738	110.3	0.2	5	100	92.6	80-120
Barium	9.8	10	258.9	253.722	488.2	0.2	12.5	250	93.8	80-120
Beryllium										
Cadmium	9.8	10	1.2	1.176	47.6	0.2	2.5	50	92.8	80-120
Calcium										
Chromium	9.8	10	401.9	393.862	445.1	0.2	2.5	50	102.5	80-120
Cobalt										
Copper										
Iron										
Lead	9.8	10	264.3	259.014	305.1	0.2	2.5	50	92.2	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	9.8	10	8.7	8.526	98.3	0.2	5	100	89.8	80-120
Silver	9.8	10			46.1	0.2	2.5	50	92.2	80-120
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27263: FA14862-1, FA14862-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested