

Third Quarter 2021 – July, August, September Operation, Maintenance, and Monitoring Report

**CHEM-TROL Site
NYSDEC Site No. 9-15-015
Report.hw915015.2021-12-03.3Q2021OMM**

Site:

CHEM-TROL Site
4800 Lake Avenue
Blasdell, New York 14219

Submitted to:

NYSDEC
Region 9 Office
270 Michigan Avenue
Buffalo, NY 14203

Prepared for:

Waste Management
100 Brandywine Boulevard, Suite 300
Newtown, PA 18940

Prepared by:

AECOM
1 John James Audubon Parkway, Suite 210
Amherst, New York 14228

December 8, 2021

AECOM Project No. 60652207.3



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December 8, 2021

SUBMITTED VIA ELECTRONIC MAIL

Mr. Glenn May, PG
NYSDEC
Region 9 Office
270 Michigan Avenue
Buffalo, NY 14203

RE: S.C. Holdings, Inc., 4818 Lake Avenue, Blasdell, New York 14219
Third Quarter 2021 Operation, Maintenance, and Monitoring Report
Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2021-12-03.3Q2021OMM

Dear Mr. May:

Enclosed please find the Third Quarter 2021 (3Q21 – July, August, September) Operation, Maintenance, and Monitoring Report for the “Chem-Trol” project site. AECOM is submitting this quarterly monitoring report on behalf of our client, S.C. Holdings, Inc.

The enclosed report contains the following information for 3Q21:

- Operation, Maintenance and Monitoring Checklists
- Summary Tables of Analytical Results and Flow Readings
- Copies of Analytical Results and Chain-of-Custody Forms

A summary of each month within 3Q21 is as follows:

July 2021

AECOM collected the monthly monitoring samples on July 12, 2021; analytical data were received on July 27, 2021. As presented on Table 1 (July 12, 2021), there was an exceedance of the discharge requirements for total suspended solids observed in the aqueous effluent sample based on concentration but not on mass loading.

August 2021

On August 12, 2021, AECOM performed pressure washing and mechanical cleaning of the air stripper trays.

AECOM collected the monthly monitoring samples on August 19, 2021; analytical data were received on August 31, 2021. As presented on Table 1 (August 19, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

September 2021

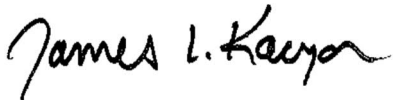
AECOM collected the monthly monitoring samples on September 16, 2021; analytical data were received on September 27, 2021. As presented on Table 1 (August 19, 2021), there were no

exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

On September 20, 2021, AECOM collected the 3Q21 quarterly groundwater levels. During the site visit for groundwater levels, AECOM noted an error message for the EW-1 pump. Matrix Environmental performed a maintenance visit and determined that the pump needs to be replaced. The pump replacement is anticipated for late 4Q21.

If you have any questions regarding the information presented in this report please contact me at (716) 923-1300.

Very truly yours,
AECOM



James L. Kaczor
Project Manager

Enclosure

cc: Mr. Chad Moose (Waste Management) (electronic copy)
Ryan Donovan, (Waste Management) (electronic copy)
60652207 Project File

July 2021

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean Connelly Weather/Temperature: Cloudy, 66 F

Date: 07/12/2021 Arrival Time: 07:05 Departure Time: 08:50

Reason for Service: Inspect system and perform monthly sampling

<u>Inspection Items:</u>	<u>OK:</u>	<u>Comments:</u>
Site Appearance/Condition	<u>X</u>	<u>See Notes/Explanations section.</u>
<i>Building Exterior</i>		
Overhead Door	<u>X</u>	<u>Wood lintel decaying, header exposed.</u>
Siding	<u>X</u>	<u>Metal trim missing from lintel.</u>
Roof and Discharge Pipe	<u>X</u>	<u></u>
<i>Building Interior</i>		
Indication of Spills or Leaks	<u></u>	<u>None.</u>
Building Heater	<u>X</u>	<u>Breaker was on; however, the heater was off.</u>
Phone System	<u>X</u>	<u>Disconnected</u>
Exhaust Fan	<u></u>	<u>Could not get fan to work.</u>
Fire Extinguisher	<u>X</u>	<u></u>
First Aid & Eye Wash	<u>X</u>	<u></u>

Groundwater Treatment System

Air Stripper	X	
Iron Removal Filter	NA	The Iron Removal tank was removed during the first week of June 2021.
Flow Meters	X	See Notes/Explanations section.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	

Groundwater Treatment Wells

EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter		EW-1 flow meter/ totalizer screen was blank upon arrival.
EW-2 Pump	X	
EW-2 Transducer	X	
EW- 2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	

Effluent Discharge

Outfall	X	
Cleanout	X	

Instrumentation/Readings:

EW-1

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>263</u> Inches
Flow Meter Reading	<u>Not Working</u> Gallons

EW-2

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>171</u> Inches
Flow Meter Reading	<u>28,528,520</u> Gallons

EW-3

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>196</u> Inches
Flow Meter Reading	<u>15,696,380</u> Gallons

Air Stripper

Stripper Blower Pressure	<u>> 20.0</u> Inches H2O
--------------------------	-----------------------------

Effluent Flow

Total System Meter Reading	<u>72,202,252</u> Gallons
----------------------------	---------------------------

Influent/Effluent Sampling

AQUEOUS:

Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH	<u>7.0</u>	(field test strip)
Effluent pH	<u>7.0</u>	(field test strip)

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

Total system flow on system totalizer flow meter timed at 3.5 gpm. During visit, individually closed EW-1, EW-2, and EW-3 influent valve to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping for EW-1, EW-2, and EW-3.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The most recent round of water levels (2Q2021) was collected on 6/22/21.

With the replacement of the former HDPE shallow tray air stripper with a QED EZ-Tray stainless steel air stripper unit, acid washes will no longer be necessary. The trays in the new unit are removable and mechanical cleaning methods will be utilized for cleaning (pressure washer).

The monthly samples were collected today, 7/12/21, by AECOM.

Table 1
July 12, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow *	2,960	2,960	144,000	gpd	NA	NA	NA
pH	7.0	8.3	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 5	< 5.0	5	ug/L	< 0.0001	0.006	lbs/day
Chlorobenzene	< 5	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
cis-1,2-Dichloroethene	< 5	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Benzene	< 5	< 5.0	5	ug/L	< 0.0001	0.006	lbs/day
1,1,1-Trichloroethane	< 5	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Chloroethane	21	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
1,1-Dichloroethane	13	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
1,1-Dichloroethene	< 5	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Trichloroethene	< 5	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
o-Chlorotoluene	1,800	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Iron - Total	937	416	3,000	ug/L	0.01	3.61	lbs/day
TSS	< 4	28.8	20	mg/L	0.71		lbs/day

Notes:

- 1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.
 - 2) < indicates Not Detected at or above the laboratory reporting limit.
 - 3) NA indicates Not Applicable.
 - 4) "J" indicates an estimated concentration below the method detection limit.
 - 5) E - Estimated Value, result above calibration curve
 - 6) D - Dilution
 - 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.
- * Average daily flow as measured June 16, 2021 through July 12, 2021.

Table 2
July 12, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:		Current Report 7/12/2021	units	Prior Report 6/16/2021
<i>EW-1</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	263	Inches	258
	Flow Meter Reading	NW	gallons	NW
<i>EW-2</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	171	Inches	171
	Flow Meter Reading	28,528,520	gallons	28,528,520
<i>EW-3</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	196	Inches	192
	Flow Meter Reading	15,696,380	gallons	15,696,380
<i>Air Stripper</i>				
	Stripper Blower Pressure	>20.0	inches H ₂ O	15.0
<i>Effluent Flow</i>				
	Total System Meter Reading	72,202,252	gallons	72,125,300
	Average System Flow Since Prior Report	2,960	gpd	
		123.3	gph	
		2.1	gpm	
	Influent o-Chlorotoluene concentration	1,800	ug/L	
	Current month mass removal	0.5	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

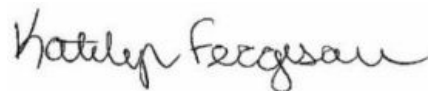
Laboratory Job ID: 480-187067-1

Client Project/Site: ChemTrol Site - Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:

Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan



Authorized for release by:
7/27/2021 9:20:42 PM

Katelyn Ferguson, Project Manager I
katelyn.ferguson@Eurofinset.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Job ID: 480-187067-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-187067-1

Comments

No additional comments.

Receipt

The samples were received on 7/12/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-187067-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Client Sample ID: Effluent

Lab Sample ID: 480-187067-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	416		50.0		ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Total Suspended Solids	28.8		4.0		mg/L	1		SM 2540D	Total/NA
pH	8.3	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	20.9	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent

Lab Sample ID: 480-187067-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	13		5.0		ug/L	10		624.1	Total/NA
Chloroethane	21		5.0		ug/L	10		624.1	Total/NA
o-Chlorotoluene	1800		5.0		ug/L	10		624.1	Total/NA
Iron	937		50.0		ug/L	1		200.7 Rev 4.4	Total
									Recoverable
pH	7.0	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	15.2	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-187067-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Client Sample ID: Effluent

Lab Sample ID: 480-187067-1

Date Collected: 07/12/21 07:20

Matrix: Water

Date Received: 07/12/21 09:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			07/18/21 09:36	1
1,1-Dichloroethane	ND		5.0		ug/L			07/18/21 09:36	1
1,1-Dichloroethene	ND		5.0		ug/L			07/18/21 09:36	1
Benzene	ND		5.0		ug/L			07/18/21 09:36	1
Chlorobenzene	ND		5.0		ug/L			07/18/21 09:36	1
Chloroethane	ND		5.0		ug/L			07/18/21 09:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/18/21 09:36	1
Toluene	ND		5.0		ug/L			07/18/21 09:36	1
Trichloroethene	ND		5.0		ug/L			07/18/21 09:36	1
o-Chlorotoluene	ND	F1	5.0		ug/L			07/18/21 09:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		60 - 140		07/18/21 09:36	1
4-Bromofluorobenzene	87		60 - 140		07/18/21 09:36	1
Toluene-d8 (Surr)	107		60 - 140		07/18/21 09:36	1
Dibromofluoromethane (Surr)	103		60 - 140		07/18/21 09:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	416		50.0		ug/L		07/14/21 10:15	07/15/21 01:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	28.8		4.0		mg/L			07/15/21 14:48	1
pH	8.3	HF	0.1		SU			07/13/21 18:06	1
Temperature	20.9	HF	0.001		Degrees C			07/13/21 18:06	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Client Sample ID: Influent

Lab Sample ID: 480-187067-2

Date Collected: 07/12/21 07:30

Matrix: Water

Date Received: 07/12/21 09:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			07/19/21 11:27	10
1,1-Dichloroethane	13		5.0		ug/L			07/19/21 11:27	10
1,1-Dichloroethene	ND		5.0		ug/L			07/19/21 11:27	10
Benzene	ND		5.0		ug/L			07/19/21 11:27	10
Chlorobenzene	ND		5.0		ug/L			07/19/21 11:27	10
Chloroethane	21		5.0		ug/L			07/19/21 11:27	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/19/21 11:27	10
Toluene	ND		5.0		ug/L			07/19/21 11:27	10
Trichloroethene	ND		5.0		ug/L			07/19/21 11:27	10
o-Chlorotoluene	1800		5.0		ug/L			07/19/21 11:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		60 - 140		07/19/21 11:27	10
4-Bromofluorobenzene	77		60 - 140		07/19/21 11:27	10
Toluene-d8 (Surr)	100		60 - 140		07/19/21 11:27	10
Dibromofluoromethane (Surr)	97		60 - 140		07/19/21 11:27	10

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	937		50.0		ug/L		07/14/21 10:15	07/15/21 01:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			07/15/21 14:48	1
pH	7.0	HF	0.1		SU			07/15/21 15:04	1
Temperature	15.2	HF	0.001		Degrees C			07/15/21 15:04	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-187067-3

Date Collected: 07/12/21 00:00

Matrix: Water

Date Received: 07/12/21 09:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			07/18/21 09:12	1
1,1-Dichloroethane	ND		5.0		ug/L			07/18/21 09:12	1
1,1-Dichloroethene	ND		5.0		ug/L			07/18/21 09:12	1
Benzene	ND		5.0		ug/L			07/18/21 09:12	1
Chlorobenzene	ND		5.0		ug/L			07/18/21 09:12	1
Chloroethane	ND		5.0		ug/L			07/18/21 09:12	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/18/21 09:12	1
Toluene	ND		5.0		ug/L			07/18/21 09:12	1
Trichloroethene	ND		5.0		ug/L			07/18/21 09:12	1
o-Chlorotoluene	ND		5.0		ug/L			07/18/21 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		60 - 140		07/18/21 09:12	1
4-Bromofluorobenzene	82		60 - 140		07/18/21 09:12	1
Toluene-d8 (Surr)	101		60 - 140		07/18/21 09:12	1
Dibromofluoromethane (Surr)	98		60 - 140		07/18/21 09:12	1

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-791032/9

Matrix: Water

Analysis Batch: 791032

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			07/18/21 08:50	1
1,1-Dichloroethane	ND		5.0		ug/L			07/18/21 08:50	1
1,1-Dichloroethene	ND		5.0		ug/L			07/18/21 08:50	1
Benzene	ND		5.0		ug/L			07/18/21 08:50	1
Chlorobenzene	ND		5.0		ug/L			07/18/21 08:50	1
Chloroethane	ND		5.0		ug/L			07/18/21 08:50	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/18/21 08:50	1
Toluene	ND		5.0		ug/L			07/18/21 08:50	1
Trichloroethene	ND		5.0		ug/L			07/18/21 08:50	1
o-Chlorotoluene	ND		5.0		ug/L			07/18/21 08:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		60 - 140		07/18/21 08:50	1
4-Bromofluorobenzene	82		60 - 140		07/18/21 08:50	1
Toluene-d8 (Surr)	101		60 - 140		07/18/21 08:50	1
Dibromofluoromethane (Surr)	100		60 - 140		07/18/21 08:50	1

Lab Sample ID: LCS 460-791032/4

Matrix: Water

Analysis Batch: 791032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.9		ug/L		109	70 - 130
1,1-Dichloroethane	20.0	24.6		ug/L		123	70 - 130
1,1-Dichloroethene	20.0	20.4		ug/L		102	50 - 150
Benzene	20.0	23.4		ug/L		117	65 - 135
Chlorobenzene	20.0	20.2		ug/L		101	65 - 135
Chloroethane	20.0	25.9		ug/L		129	40 - 160
Toluene	20.0	21.5		ug/L		108	70 - 130
Trichloroethene	20.0	20.1		ug/L		101	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		60 - 140
4-Bromofluorobenzene	85		60 - 140
Toluene-d8 (Surr)	103		60 - 140
Dibromofluoromethane (Surr)	95		60 - 140

Lab Sample ID: 480-187067-1 MS

Matrix: Water

Analysis Batch: 791032

Client Sample ID: Effluent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		200	220		ug/L		110	52 - 162
1,1-Dichloroethane	ND		200	251		ug/L		126	59 - 155
1,1-Dichloroethene	ND		200	216		ug/L		108	0.1 - 234
Benzene	ND		200	233		ug/L		117	37 - 151
Chlorobenzene	ND		200	206		ug/L		103	37 - 160
Chloroethane	ND		200	270		ug/L		135	14 - 230

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-187067-1 MS

Matrix: Water

Analysis Batch: 791032

Client Sample ID: Effluent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		200	218		ug/L		109	47 - 150
Trichloroethene	ND		200	203		ug/L		101	70 - 157
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	137		60 - 140						
4-Bromofluorobenzene	97		60 - 140						
Toluene-d8 (Surr)	117		60 - 140						
Dibromofluoromethane (Surr)	110		60 - 140						

Lab Sample ID: 480-187067-1 MSD

Matrix: Water

Analysis Batch: 791032

Client Sample ID: Effluent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		200	215		ug/L		107	52 - 162	3	36
1,1-Dichloroethane	ND		200	243		ug/L		122	59 - 155	3	40
1,1-Dichloroethene	ND		200	208		ug/L		104	0.1 - 234	4	32
Benzene	ND		200	229		ug/L		114	37 - 151	2	61
Chlorobenzene	ND		200	196		ug/L		98	37 - 160	5	53
Chloroethane	ND		200	258		ug/L		129	14 - 230	5	78
Toluene	ND		200	209		ug/L		105	47 - 150	4	41
Trichloroethene	ND		200	202		ug/L		101	70 - 157	0	48
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	122		60 - 140								
4-Bromofluorobenzene	84		60 - 140								
Toluene-d8 (Surr)	103		60 - 140								
Dibromofluoromethane (Surr)	98		60 - 140								

Lab Sample ID: MB 460-791154/10

Matrix: Water

Analysis Batch: 791154

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			07/19/21 10:17	1
1,1-Dichloroethane	ND		5.0		ug/L			07/19/21 10:17	1
1,1-Dichloroethene	ND		5.0		ug/L			07/19/21 10:17	1
Benzene	ND		5.0		ug/L			07/19/21 10:17	1
Chlorobenzene	ND		5.0		ug/L			07/19/21 10:17	1
Chloroethane	ND		5.0		ug/L			07/19/21 10:17	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/19/21 10:17	1
Toluene	ND		5.0		ug/L			07/19/21 10:17	1
Trichloroethene	ND		5.0		ug/L			07/19/21 10:17	1
o-Chlorotoluene	ND		5.0		ug/L			07/19/21 10:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134		60 - 140					07/19/21 10:17	1
4-Bromofluorobenzene	93		60 - 140					07/19/21 10:17	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-791154/10

Matrix: Water

Analysis Batch: 791154

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		60 - 140		07/19/21 10:17	1
Dibromofluoromethane (Surr)	105		60 - 140		07/19/21 10:17	1

Lab Sample ID: LCS 460-791154/5

Matrix: Water

Analysis Batch: 791154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.9		ug/L		105	70 - 130
1,1-Dichloroethane	20.0	23.7		ug/L		118	70 - 130
1,1-Dichloroethene	20.0	19.8		ug/L		99	50 - 150
Benzene	20.0	21.6		ug/L		108	65 - 135
Chlorobenzene	20.0	18.7		ug/L		93	65 - 135
Chloroethane	20.0	24.1		ug/L		120	40 - 160
Toluene	20.0	20.2		ug/L		101	70 - 130
Trichloroethene	20.0	19.4		ug/L		97	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		60 - 140
4-Bromofluorobenzene	85		60 - 140
Toluene-d8 (Surr)	100		60 - 140
Dibromofluoromethane (Surr)	96		60 - 140

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-588965/1-A

Matrix: Water

Analysis Batch: 589198

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 588965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		07/14/21 10:15	07/14/21 23:54	1

Lab Sample ID: LCS 480-588965/2-A

Matrix: Water

Analysis Batch: 589198

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 588965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	10140		ug/L		101	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-589242/1

Matrix: Water

Analysis Batch: 589242

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			07/15/21 14:48	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-589242/2
Matrix: Water
Analysis Batch: 589242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	302	300.4		mg/L		100	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-589010/1
Matrix: Water
Analysis Batch: 589010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: LCS 480-589246/1
Matrix: Water
Analysis Batch: 589246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.9		SU		99	99 - 101

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

GC/MS VOA

Analysis Batch: 791032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-1	Effluent	Total/NA	Water	624.1	
480-187067-3	Trip Blank	Total/NA	Water	624.1	
MB 460-791032/9	Method Blank	Total/NA	Water	624.1	
LCS 460-791032/4	Lab Control Sample	Total/NA	Water	624.1	
480-187067-1 MS	Effluent	Total/NA	Water	624.1	
480-187067-1 MSD	Effluent	Total/NA	Water	624.1	

Analysis Batch: 791154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-2	Influent	Total/NA	Water	624.1	
MB 460-791154/10	Method Blank	Total/NA	Water	624.1	
LCS 460-791154/5	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 588965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-1	Effluent	Total Recoverable	Water	200.7	
480-187067-2	Influent	Total Recoverable	Water	200.7	
MB 480-588965/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-588965/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 589198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	588965
480-187067-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	588965
MB 480-588965/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	588965
LCS 480-588965/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	588965

General Chemistry

Analysis Batch: 589010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-1	Effluent	Total/NA	Water	SM 4500 H+ B	
LCS 480-589010/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 589242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-1	Effluent	Total/NA	Water	SM 2540D	
480-187067-2	Influent	Total/NA	Water	SM 2540D	
MB 480-589242/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-589242/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 589246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187067-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-589246/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Client Sample ID: Effluent

Date Collected: 07/12/21 07:20

Date Received: 07/12/21 09:15

Lab Sample ID: 480-187067-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	791032	07/18/21 09:36	CJM	TAL EDI
Total Recoverable	Prep	200.7			588965	07/14/21 10:15	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	589198	07/15/21 01:04	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	589242	07/15/21 14:48	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	589010	07/13/21 18:06	JPS	TAL BUF

Client Sample ID: Influent

Date Collected: 07/12/21 07:30

Date Received: 07/12/21 09:15

Lab Sample ID: 480-187067-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		10	791154	07/19/21 11:27	CJM	TAL EDI
Total Recoverable	Prep	200.7			588965	07/14/21 10:15	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	589198	07/15/21 01:08	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	589242	07/15/21 14:48	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	589246	07/15/21 15:04	JPS	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 07/12/21 00:00

Date Received: 07/12/21 09:15

Lab Sample ID: 480-187067-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	791032	07/18/21 09:12	CJM	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	12-31-21
Georgia	State	12028 (NJ)	06-30-22
Massachusetts	State	M-NJ312	06-30-22
New Jersey	NELAP	12028	06-30-22
New York	NELAP	11452	04-01-22
Pennsylvania	NELAP	68-00522	02-28-22
Rhode Island	State	LAO00132	12-30-21
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-187067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187067-1	Effluent	Water	07/12/21 07:20	07/12/21 09:15
480-187067-2	Influent	Water	07/12/21 07:30	07/12/21 09:15
480-187067-3	Trip Blank	Water	07/12/21 00:00	07/12/21 09:15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



Chain of Custody Record

[illegible]

August 2021

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Emily Au Weather/Temperature: Cloudy, 75 F

Date: 08/19/2021 Arrival Time: 10:45 Departure Time: 12:00

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:

OK:

Comments:

Site Appearance/Condition

X

See Notes/Explanations section.

Building Exterior

Overhead Door

X

Wood lintel decaying, header exposed.

Siding

X

Metal trim missing from lintel.

Roof and Discharge Pipe

X

Building Interior

Indication of Spills or Leaks

None

Building Heater

X

Breaker was on; however, the heater was off.

Phone System

X

Disconnected

Exhaust Fan

Could not get fan to work.

Fire Extinguisher

X

First Aid & Eye Wash

X

Groundwater Treatment System

Air Stripper	X	
Iron Removal Filter	NA	As of June 2021, there is no longer an iron removal filter tank.
Flow Meters	X	See Notes/Explanations section.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	

Groundwater Treatment Wells

EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter		EW-1 flow meter/totalizer screen no longer functioning.
EW-2 Pump	X	
EW-2 Transducer	X	
EW- 2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	

Effluent Discharge

Outfall	X	
Cleanout		.
	X	

Instrumentation/Readings:

EW-1

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>259</u> Inches
Flow Meter Reading	<u>Not Working</u> Gallons

EW-2

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>169</u> Inches
Flow Meter Reading	<u>28,528,522</u> Gallons

EW-3

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>189</u> Inches
Flow Meter Reading	<u>15,696,383</u> Gallons

Air Stripper

Stripper Blower Pressure	<u>15</u> Inches H2O
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Effluent Flow

Total System Meter Reading	<u>72,340,689</u> Gallons
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Influent/Effluent Sampling

AQUEOUS:

Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH	<u>7.0</u>	(field test strip)
Effluent pH	<u>7.0</u>	(field test strip)

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was initially on upon arrival.

Total system flow was timed at 2.5 gpm on system totalizer flow meter. During the visit, EW-1, EW-2, and EW-3 influent valves were individually closed to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping for EW-1, EW-2, and EW-3.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The most recent round of water levels (2Q2021) were collected on 6/22/21.

With the replacement of the former HDPE shallow tray air stripper with a QED EZ-Tray stainless steel air stripper unit, acid washes will no longer be necessary. The trays in the new unit are removable and mechanical cleaning methods will be utilized for cleaning (pressure washer). The air stripper trays were mechanically cleaned on 8/12/2021.

The monthly samples were collected today, 8/19/21, by AECOM.

Table 1
August 19, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow *	3,742	3,742	144,000	gpd	NA	NA	NA
pH	7.0	7.7	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 5	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
Chlorobenzene	< 5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
cis-1,2-Dichloroethene	< 5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Benzene	< 5	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
1,1,1-Trichloroethane	< 5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Chloroethane	22	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethane	10	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethene	< 5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Trichloroethene	< 5	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
o-Chlorotoluene	1,800	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Iron - Total	965	331	3,000	ug/L	0.01	3.61	lbs/day
TSS	4.4	4.8	20	mg/L	0.15		lbs/day

Notes:

- 1) ***Bold*** typeface denotes exceedance of treatment requirements in the effluent sample.
 - 2) < indicates Not Detected at or above the laboratory reporting limit.
 - 3) NA indicates Not Applicable.
 - 4) "J" indicates an estimated concentration below the method detection limit.
 - 5) E - Estimated Value, result above calibration curve
 - 6) D - Dilution
 - 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.
- * Average daily flow as measured July 12, 2021 through August 19, 2021.

Table 2
August 19, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:		Current Report	units	Prior Report
<i>EW-1</i>		8/19/2021		7/12/2021
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	259	Inches	263
	Flow Meter Reading	NW	gallons	NW
<i>EW-2</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	169	Inches	171
	Flow Meter Reading	28,528,522	gallons	28,528,520
<i>EW-3</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	189	Inches	196
	Flow Meter Reading	15,696,383	gallons	15,696,380
<i>Air Stripper</i>				
	Stripper Blower Pressure	15.0	inches H ₂ O	>20.0
<i>Effluent Flow</i>				
	Total System Meter Reading	72,340,689	gallons	72,202,252
	Average System Flow Since Prior Report	3,742	gpd	
		155.9	gph	
		2.6	gpm	
	Influent o-Chlorotoluene concentration	1,800	ug/L	
	Current month mass removal	0.9	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-188506-1

Client Project/Site: ChemTrol Site - Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:

Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan



Authorized for release by:

8/31/2021 11:32:45 AM

Joshua Velez, Project Management Assistant I
joshua.velez@eurofinset.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Job ID: 480-188506-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-188506-1

Comments

No additional comments.

Receipt

The samples were received on 8/19/2021 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-188506-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-188506-1) and Influent (480-188506-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Client Sample ID: Effluent

Lab Sample ID: 480-188506-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	331		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.7	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	18.7	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent

Lab Sample ID: 480-188506-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	10		5.0		ug/L	5		624.1	Total/NA
Chloroethane	22		5.0		ug/L	5		624.1	Total/NA
o-Chlorotoluene	1800		5.0		ug/L	5		624.1	Total/NA
Iron	965		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	4.4		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.0	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	18.6	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-188506-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Client Sample ID: Effluent

Lab Sample ID: 480-188506-1

Date Collected: 08/19/21 11:00

Matrix: Water

Date Received: 08/19/21 12:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			08/28/21 20:09	1
1,1-Dichloroethane	ND		5.0		ug/L			08/28/21 20:09	1
1,1-Dichloroethene	ND		5.0		ug/L			08/28/21 20:09	1
Benzene	ND		5.0		ug/L			08/28/21 20:09	1
Chlorobenzene	ND		5.0		ug/L			08/28/21 20:09	1
Chloroethane	ND		5.0		ug/L			08/28/21 20:09	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			08/28/21 20:09	1
Toluene	ND		5.0		ug/L			08/28/21 20:09	1
Trichloroethene	ND		5.0		ug/L			08/28/21 20:09	1
o-Chlorotoluene	ND		5.0		ug/L			08/28/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		60 - 140		08/28/21 20:09	1
4-Bromofluorobenzene	109		60 - 140		08/28/21 20:09	1
Toluene-d8 (Surr)	95		60 - 140		08/28/21 20:09	1
Dibromofluoromethane (Surr)	101		60 - 140		08/28/21 20:09	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	331		50.0		ug/L		08/20/21 09:22	08/20/21 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.8		4.0		mg/L			08/21/21 16:20	1
pH	7.7	HF	0.1		SU			08/20/21 14:24	1
Temperature	18.7	HF	0.001		Degrees C			08/20/21 14:24	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Client Sample ID: Influent

Lab Sample ID: 480-188506-2

Date Collected: 08/19/21 11:20

Matrix: Water

Date Received: 08/19/21 12:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			08/28/21 23:56	5
1,1-Dichloroethane	10		5.0		ug/L			08/28/21 23:56	5
1,1-Dichloroethene	ND		5.0		ug/L			08/28/21 23:56	5
Benzene	ND		5.0		ug/L			08/28/21 23:56	5
Chlorobenzene	ND		5.0		ug/L			08/28/21 23:56	5
Chloroethane	22		5.0		ug/L			08/28/21 23:56	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			08/28/21 23:56	5
Toluene	ND		5.0		ug/L			08/28/21 23:56	5
Trichloroethene	ND		5.0		ug/L			08/28/21 23:56	5
o-Chlorotoluene	1800		5.0		ug/L			08/28/21 23:56	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		60 - 140		08/28/21 23:56	5
4-Bromofluorobenzene	99		60 - 140		08/28/21 23:56	5
Toluene-d8 (Surr)	83		60 - 140		08/28/21 23:56	5
Dibromofluoromethane (Surr)	92		60 - 140		08/28/21 23:56	5

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	965		50.0		ug/L		08/20/21 09:22	08/20/21 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.4		4.0		mg/L			08/21/21 16:20	1
pH	7.0	HF	0.1		SU			08/20/21 14:25	1
Temperature	18.6	HF	0.001		Degrees C			08/20/21 14:25	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-188506-3

Date Collected: 08/19/21 00:00

Matrix: Water

Date Received: 08/19/21 12:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			08/28/21 19:46	1
1,1-Dichloroethane	ND		5.0		ug/L			08/28/21 19:46	1
1,1-Dichloroethene	ND		5.0		ug/L			08/28/21 19:46	1
Benzene	ND		5.0		ug/L			08/28/21 19:46	1
Chlorobenzene	ND		5.0		ug/L			08/28/21 19:46	1
Chloroethane	ND		5.0		ug/L			08/28/21 19:46	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			08/28/21 19:46	1
Toluene	ND		5.0		ug/L			08/28/21 19:46	1
Trichloroethene	ND		5.0		ug/L			08/28/21 19:46	1
o-Chlorotoluene	ND		5.0		ug/L			08/28/21 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 140		08/28/21 19:46	1
4-Bromofluorobenzene	115		60 - 140		08/28/21 19:46	1
Toluene-d8 (Surr)	101		60 - 140		08/28/21 19:46	1
Dibromofluoromethane (Surr)	107		60 - 140		08/28/21 19:46	1

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-798627/8

Matrix: Water

Analysis Batch: 798627

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			08/28/21 15:14	1
1,1-Dichloroethane	ND		5.0		ug/L			08/28/21 15:14	1
1,1-Dichloroethene	ND		5.0		ug/L			08/28/21 15:14	1
Benzene	ND		5.0		ug/L			08/28/21 15:14	1
Chlorobenzene	ND		5.0		ug/L			08/28/21 15:14	1
Chloroethane	ND		5.0		ug/L			08/28/21 15:14	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			08/28/21 15:14	1
Toluene	ND		5.0		ug/L			08/28/21 15:14	1
Trichloroethene	ND		5.0		ug/L			08/28/21 15:14	1
o-Chlorotoluene	ND		5.0		ug/L			08/28/21 15:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		60 - 140		08/28/21 15:14	1
4-Bromofluorobenzene	102		60 - 140		08/28/21 15:14	1
Toluene-d8 (Surr)	86		60 - 140		08/28/21 15:14	1
Dibromofluoromethane (Surr)	88		60 - 140		08/28/21 15:14	1

Lab Sample ID: LCS 460-798627/3

Matrix: Water

Analysis Batch: 798627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.6		ug/L		103	70 - 130
1,1-Dichloroethane	20.0	20.5		ug/L		102	70 - 130
1,1-Dichloroethene	20.0	20.3		ug/L		101	50 - 150
Benzene	20.0	20.9		ug/L		105	65 - 135
Chlorobenzene	20.0	19.9		ug/L		100	65 - 135
Chloroethane	20.0	21.3		ug/L		106	40 - 160
Toluene	20.0	20.1		ug/L		100	70 - 130
Trichloroethene	20.0	19.6		ug/L		98	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		60 - 140
4-Bromofluorobenzene	114		60 - 140
Toluene-d8 (Surr)	98		60 - 140
Dibromofluoromethane (Surr)	93		60 - 140

Lab Sample ID: LCSD 460-798627/4

Matrix: Water

Analysis Batch: 798627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	70 - 130	9	36
1,1-Dichloroethane	20.0	18.8		ug/L		94	70 - 130	9	40
1,1-Dichloroethene	20.0	17.5		ug/L		88	50 - 150	15	32
Benzene	20.0	19.3		ug/L		96	65 - 135	8	61
Chlorobenzene	20.0	18.6		ug/L		93	65 - 135	7	53
Chloroethane	20.0	19.3		ug/L		97	40 - 160	10	78

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-798627/4

Matrix: Water

Analysis Batch: 798627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	20.0	18.9		ug/L		95	70 - 130	6	41
Trichloroethene	20.0	17.8		ug/L		89	65 - 135	9	48

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
4-Bromofluorobenzene	109		60 - 140
Toluene-d8 (Surr)	94		60 - 140
Dibromofluoromethane (Surr)	90		60 - 140

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-593527/1-A

Matrix: Water

Analysis Batch: 593751

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 593527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		08/20/21 09:22	08/20/21 18:47	1

Lab Sample ID: LCS 480-593527/2-A

Matrix: Water

Analysis Batch: 593751

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 593527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	10450		ug/L		104	85 - 115

Lab Sample ID: 480-188506-1 MS

Matrix: Water

Analysis Batch: 593751

Client Sample ID: Effluent

Prep Type: Total Recoverable

Prep Batch: 593527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	331		10000	10490		ug/L		102	70 - 130

Lab Sample ID: 480-188506-1 MSD

Matrix: Water

Analysis Batch: 593751

Client Sample ID: Effluent

Prep Type: Total Recoverable

Prep Batch: 593527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	331		10000	10620		ug/L		103	70 - 130	1	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-593662/1

Matrix: Water

Analysis Batch: 593662

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			08/21/21 16:20	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-593662/2
Matrix: Water
Analysis Batch: 593662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	2890	2877		mg/L		100	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-593614/1
Matrix: Water
Analysis Batch: 593614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

GC/MS VOA

Analysis Batch: 798627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188506-1	Effluent	Total/NA	Water	624.1	
480-188506-2	Influent	Total/NA	Water	624.1	
480-188506-3	Trip Blank	Total/NA	Water	624.1	
MB 460-798627/8	Method Blank	Total/NA	Water	624.1	
LCS 460-798627/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-798627/4	Lab Control Sample Dup	Total/NA	Water	624.1	

Metals

Prep Batch: 593527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188506-1	Effluent	Total Recoverable	Water	200.7	
480-188506-2	Influent	Total Recoverable	Water	200.7	
MB 480-593527/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-593527/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-188506-1 MS	Effluent	Total Recoverable	Water	200.7	
480-188506-1 MSD	Effluent	Total Recoverable	Water	200.7	

Analysis Batch: 593751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188506-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	593527
480-188506-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	593527
MB 480-593527/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	593527
LCS 480-593527/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	593527
480-188506-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	593527
480-188506-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	593527

General Chemistry

Analysis Batch: 593614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188506-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-188506-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-593614/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 593662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188506-1	Effluent	Total/NA	Water	SM 2540D	
480-188506-2	Influent	Total/NA	Water	SM 2540D	
MB 480-593662/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-593662/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Client Sample ID: Effluent

Date Collected: 08/19/21 11:00

Date Received: 08/19/21 12:15

Lab Sample ID: 480-188506-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	798627	08/28/21 20:09	EMM	TAL EDI
Total Recoverable	Prep	200.7			593527	08/20/21 09:22	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	593751	08/20/21 20:00	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	593662	08/21/21 16:20	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	593614	08/20/21 14:24	JPS	TAL BUF

Client Sample ID: Influent

Date Collected: 08/19/21 11:20

Date Received: 08/19/21 12:15

Lab Sample ID: 480-188506-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		5	798627	08/28/21 23:56	EMM	TAL EDI
Total Recoverable	Prep	200.7			593527	08/20/21 09:22	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	593751	08/20/21 20:11	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	593662	08/21/21 16:20	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	593614	08/20/21 14:25	JPS	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 08/19/21 00:00

Date Received: 08/19/21 12:15

Lab Sample ID: 480-188506-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	798627	08/28/21 19:46	EMM	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	12-31-21
Georgia	State	12028 (NJ)	06-30-22
Massachusetts	State	M-NJ312	06-30-22
New Jersey	NELAP	12028	06-30-22
New York	NELAP	11452	04-01-22
Pennsylvania	NELAP	68-00522	02-28-22
Rhode Island	State	LAO00132	12-30-21
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-188506-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-188506-1	Effluent	Water	08/19/21 11:00	08/19/21 12:15
480-188506-2	Influent	Water	08/19/21 11:20	08/19/21 12:15
480-188506-3	Trip Blank	Water	08/19/21 00:00	08/19/21 12:15

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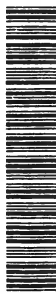
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Chain of Custody Record

[illegible]

September 2021

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System CHEM-TROL Site Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Sunny, 72 F

Date: 09/16/2021 Arrival Time: 10:30 Departure Time: 12:45

Reason for Service: Inspect system and perform monthly sampling

<u>Inspection Items:</u>	<u>OK:</u>	<u>Comments:</u>
Site Appearance/Condition	<u>X</u>	<u>See Notes/Explanations section.</u>
<i>Building Exterior</i>		
Overhead Door	<u>X</u>	<u>Wood lintel decaying, header exposed.</u>
Siding	<u>X</u>	<u>Metal trim missing from lintel.</u>
Roof and Discharge Pipe	<u>X</u>	<u></u>
<i>Building Interior</i>		
Indication of Spills or Leaks	<u></u>	<u>None</u>
Building Heater	<u>X</u>	<u>Breaker was on; however, the heater was off.</u>
Phone System	<u>X</u>	<u>Disconnected</u>
Exhaust Fan	<u></u>	<u>Could not get fan to work.</u>
Fire Extinguisher	<u>X</u>	<u></u>
First Aid & Eye Wash	<u>X</u>	<u></u>

Groundwater Treatment System

Air Stripper	X	
Iron Removal Filter	NA	As of June 2021, there is no longer an iron removal filter tank.
Flow Meters	X	See Notes/Explanations section.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	

Groundwater Treatment Wells

EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter		EW-1 flow meter/totalizer screen no longer functioning.
EW-2 Pump	X	
EW-2 Transducer	X	
EW- 2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	

Effluent Discharge

Outfall	X	
Cleanout	X	

Instrumentation/Readings:

EW-1

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>289</u> Inches
Flow Meter Reading	<u>Not Working</u> Gallons

EW-2

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>182</u> Inches
Flow Meter Reading	<u>28,528,522</u> Gallons

EW-3

Pumping Rate	<u>0</u> GPM (see Notes section)
Water Level Above Transducer	<u>202</u> Inches
Flow Meter Reading	<u>15,696,383</u> Gallons

Air Stripper

Stripper Blower Pressure	<u>>20</u> Inches H2O
--------------------------	--------------------------

Effluent Flow

Total System Meter Reading	<u>72,465,127</u> Gallons
----------------------------	---------------------------

Influent/Effluent Sampling

AQUEOUS:

Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH	<u>7.0</u>	(field test strip)
Effluent pH	<u>7.0</u>	(field test strip)

Notes/Explanations

(Please include any additional information on those items that require attention as indicated above.)

The system was initially on upon arrival.

Total system flow was timed at 2.5 gpm on system totalizer flow meter. During the visit, EW-1, EW-2, and EW-3 influent valves were individually closed to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping for EW-1, EW-2, and EW-3.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The most recent round of water levels (2Q2021) was collected on 6/22/21.

With the replacement of the former HDPE shallow tray air stripper with a QED EZ-Tray stainless steel air stripper unit, acid washes will no longer be necessary. The trays in the new unit are removable and mechanical cleaning methods will be utilized for cleaning (pressure washer). The air stripper trays were mechanically cleaned on 8/12/2021.

The monthly samples were collected today, 9/16/21, by AECOM.

Table 1
September 16, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow *	4,609	4,609	144,000	gpd	NA	NA	NA
pH	7.0	7.9	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethane	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
o-Chlorotoluene	3,500	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Iron - Total	732	171	3,000	ug/L	0.01	3.61	lbs/day
TSS	< 4	< 4	20	mg/L	< 0.15		lbs/day

Notes:

- 1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.
 - 2) < indicates Not Detected at or above the laboratory reporting limit.
 - 3) NA indicates Not Applicable.
 - 4) "J" indicates an estimated concentration below the method detection limit.
 - 5) E - Estimated Value, result above calibration curve
 - 6) D - Dilution
 - 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.
- * Average daily flow as measured August 19, 2021 through September 16, 2021.

Table 2
September 16, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:		Current Report	units	Prior Report
<i>EW-1</i>		9/16/2021		8/19/2021
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	289	Inches	259
	Flow Meter Reading	NW	gallons	NW
<i>EW-2</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	182	Inches	169
	Flow Meter Reading	28,528,522	gallons	28,528,522
<i>EW-3</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	202	Inches	189
	Flow Meter Reading	15,696,383	gallons	15,696,383
<i>Air Stripper</i>				
	Stripper Blower Pressure	>20.0	inches H ₂ O	15.0
<i>Effluent Flow</i>				
	Total System Meter Reading	72,465,127	gallons	72,340,689
	Average System Flow Since Prior Report	4,609	gpd	
		192.0	gph	
		3.2	gpm	
	Influent o-Chlorotoluene concentration	3,500	ug/L	
	Current month mass removal	1.6	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-189688-1

Client Project/Site: ChemTrol Site - Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:

Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan



Authorized for release by:
9/27/2021 10:48:41 AM

Ryan VanDette, Project Manager II
(716)504-9830

Ryan.VanDette@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Job ID: 480-189688-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-189688-1

Comments

No additional comments.

Receipt

The samples were received on 9/16/2021 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.0° C.

GC/MS VOA

Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-189688-2), (480-189688-D-2 MS) and (480-189688-D-2 MSD). Elevated reporting limits (RLs) are provided.

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-189688-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 200.7 Rev 4.4: The Total Iron results reported for the following samples do not concur with results previously reported for this site: Effluent (480-189688-1) and Influent (480-189688-2). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-189688-1) and Influent (480-189688-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Client Sample ID: Effluent

Lab Sample ID: 480-189688-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	171		50.0		ug/L	1		200.7 Rev 4.4	Total
									Recoverable
pH	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	19.8	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent

Lab Sample ID: 480-189688-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene - DL	3500		26		ug/L	80		624.1	Total/NA
Iron	732		50.0		ug/L	1		200.7 Rev 4.4	Total
									Recoverable
pH	7.0	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	20.0	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-189688-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Client Sample ID: Effluent

Lab Sample ID: 480-189688-1

Date Collected: 09/16/21 11:40

Matrix: Water

Date Received: 09/16/21 13:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			09/16/21 20:12	1
1,1-Dichloroethane	ND		5.0		ug/L			09/16/21 20:12	1
1,1-Dichloroethene	ND		5.0		ug/L			09/16/21 20:12	1
Benzene	ND		5.0		ug/L			09/16/21 20:12	1
Chlorobenzene	ND		5.0		ug/L			09/16/21 20:12	1
Chloroethane	ND		5.0		ug/L			09/16/21 20:12	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/16/21 20:12	1
Toluene	ND		5.0		ug/L			09/16/21 20:12	1
Trichloroethene	ND		5.0		ug/L			09/16/21 20:12	1
o-Chlorotoluene	ND		5.0		ug/L			09/16/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130		09/16/21 20:12	1
Dibromofluoromethane (Surr)	101		75 - 123		09/16/21 20:12	1
4-Bromofluorobenzene (Surr)	102		76 - 123		09/16/21 20:12	1
Toluene-d8 (Surr)	100		77 - 120		09/16/21 20:12	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	171		50.0		ug/L		09/21/21 09:44	09/21/21 22:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			09/20/21 14:58	1
pH	7.9	HF	0.1		SU			09/17/21 17:34	1
Temperature	19.8	HF	0.001		Degrees C			09/17/21 17:34	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Client Sample ID: Influent

Lab Sample ID: 480-189688-2

Date Collected: 09/16/21 12:00

Matrix: Water

Date Received: 09/16/21 13:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			09/16/21 20:36	40
1,1-Dichloroethane	ND		24		ug/L			09/16/21 20:36	40
1,1-Dichloroethene	ND		34		ug/L			09/16/21 20:36	40
Benzene	ND		24		ug/L			09/16/21 20:36	40
Chlorobenzene	ND		19		ug/L			09/16/21 20:36	40
Chloroethane	ND	F2	35		ug/L			09/16/21 20:36	40
cis-1,2-Dichloroethene	ND		23		ug/L			09/16/21 20:36	40
Toluene	ND		18		ug/L			09/16/21 20:36	40
Trichloroethene	ND		24		ug/L			09/16/21 20:36	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 130		09/16/21 20:36	40
Dibromofluoromethane (Surr)	100		75 - 123		09/16/21 20:36	40
4-Bromofluorobenzene (Surr)	103		76 - 123		09/16/21 20:36	40
Toluene-d8 (Surr)	100		77 - 120		09/16/21 20:36	40

Method: 624.1 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Chlorotoluene	3500		26		ug/L			09/17/21 12:36	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		09/17/21 12:36	80
Dibromofluoromethane (Surr)	101		75 - 123		09/17/21 12:36	80
4-Bromofluorobenzene (Surr)	101		76 - 123		09/17/21 12:36	80
Toluene-d8 (Surr)	99		77 - 120		09/17/21 12:36	80

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	732		50.0		ug/L		09/21/21 09:44	09/21/21 23:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			09/20/21 14:58	1
pH	7.0	HF	0.1		SU			09/17/21 17:36	1
Temperature	20.0	HF	0.001		Degrees C			09/17/21 17:36	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-189688-3

Date Collected: 09/16/21 00:00

Matrix: Water

Date Received: 09/16/21 13:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			09/16/21 20:59	1
1,1-Dichloroethane	ND		5.0		ug/L			09/16/21 20:59	1
1,1-Dichloroethene	ND		5.0		ug/L			09/16/21 20:59	1
Benzene	ND		5.0		ug/L			09/16/21 20:59	1
Chlorobenzene	ND		5.0		ug/L			09/16/21 20:59	1
Chloroethane	ND		5.0		ug/L			09/16/21 20:59	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/16/21 20:59	1
Toluene	ND		5.0		ug/L			09/16/21 20:59	1
Trichloroethene	ND		5.0		ug/L			09/16/21 20:59	1
o-Chlorotoluene	ND		5.0		ug/L			09/16/21 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130		09/16/21 20:59	1
Dibromofluoromethane (Surr)	100		75 - 123		09/16/21 20:59	1
4-Bromofluorobenzene (Surr)	103		76 - 123		09/16/21 20:59	1
Toluene-d8 (Surr)	100		77 - 120		09/16/21 20:59	1

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-596657/7

Matrix: Water

Analysis Batch: 596657

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			09/16/21 16:02	1
1,1-Dichloroethane	ND		5.0		ug/L			09/16/21 16:02	1
1,1-Dichloroethene	ND		5.0		ug/L			09/16/21 16:02	1
Benzene	ND		5.0		ug/L			09/16/21 16:02	1
Chlorobenzene	ND		5.0		ug/L			09/16/21 16:02	1
Chloroethane	ND		5.0		ug/L			09/16/21 16:02	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/16/21 16:02	1
Toluene	ND		5.0		ug/L			09/16/21 16:02	1
Trichloroethene	ND		5.0		ug/L			09/16/21 16:02	1
o-Chlorotoluene	ND		5.0		ug/L			09/16/21 16:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130		09/16/21 16:02	1
Dibromofluoromethane (Surr)	103		75 - 123		09/16/21 16:02	1
4-Bromofluorobenzene (Surr)	104		76 - 123		09/16/21 16:02	1
Toluene-d8 (Surr)	99		77 - 120		09/16/21 16:02	1

Lab Sample ID: LCS 480-596657/5

Matrix: Water

Analysis Batch: 596657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	52 - 162
1,1-Dichloroethane	20.0	21.8		ug/L		109	59 - 155
1,1-Dichloroethene	20.0	21.4		ug/L		107	1 - 234
Benzene	20.0	21.4		ug/L		107	37 - 151
Chlorobenzene	20.0	21.1		ug/L		105	37 - 160
Chloroethane	20.0	20.1		ug/L		100	14 - 230
Toluene	20.0	20.9		ug/L		104	47 - 150
Trichloroethene	20.0	20.4		ug/L		102	71 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 130
Dibromofluoromethane (Surr)	101		75 - 123
4-Bromofluorobenzene (Surr)	103		76 - 123
Toluene-d8 (Surr)	99		77 - 120

Lab Sample ID: 480-189688-2 MS

Matrix: Water

Analysis Batch: 596657

Client Sample ID: Influent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		800	846		ug/L		106	52 - 162
1,1-Dichloroethane	ND		800	903		ug/L		113	59 - 155
1,1-Dichloroethene	ND		800	887		ug/L		111	1 - 234
Benzene	ND		800	888		ug/L		111	37 - 151
Chlorobenzene	ND		800	854		ug/L		107	37 - 160
Chloroethane	ND	F2	800	854		ug/L		107	14 - 230

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189688-2 MS

Matrix: Water

Analysis Batch: 596657

Client Sample ID: Influent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		800	879		ug/L		110	47 - 150
Trichloroethene	ND		800	839		ug/L		105	71 - 157
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		68 - 130						
Dibromofluoromethane (Surr)	102		75 - 123						
4-Bromofluorobenzene (Surr)	105		76 - 123						
Toluene-d8 (Surr)	102		77 - 120						

Lab Sample ID: 480-189688-2 MSD

Matrix: Water

Analysis Batch: 596657

Client Sample ID: Influent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		800	793		ug/L		99	52 - 162	6	15
1,1-Dichloroethane	ND		800	848		ug/L		106	59 - 155	6	15
1,1-Dichloroethene	ND		800	851		ug/L		106	1 - 234	4	15
Benzene	ND		800	842		ug/L		105	37 - 151	5	15
Chlorobenzene	ND		800	826		ug/L		103	37 - 160	3	15
Chloroethane	ND	F2	800	647	F2	ug/L		81	14 - 230	27	15
Toluene	ND		800	827		ug/L		103	47 - 150	6	15
Trichloroethene	ND		800	791		ug/L		99	71 - 157	6	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	105		68 - 130								
Dibromofluoromethane (Surr)	100		75 - 123								
4-Bromofluorobenzene (Surr)	104		76 - 123								
Toluene-d8 (Surr)	101		77 - 120								

Lab Sample ID: MB 480-596658/7

Matrix: Water

Analysis Batch: 596658

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			09/16/21 16:02	1
1,1-Dichloroethane	ND		5.0		ug/L			09/16/21 16:02	1
1,1-Dichloroethene	ND		5.0		ug/L			09/16/21 16:02	1
Benzene	ND		5.0		ug/L			09/16/21 16:02	1
Chlorobenzene	ND		5.0		ug/L			09/16/21 16:02	1
Chloroethane	ND		5.0		ug/L			09/16/21 16:02	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/16/21 16:02	1
Toluene	ND		5.0		ug/L			09/16/21 16:02	1
Trichloroethene	ND		5.0		ug/L			09/16/21 16:02	1
o-Chlorotoluene	ND		5.0		ug/L			09/16/21 16:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130					09/16/21 16:02	1
Dibromofluoromethane (Surr)	103		75 - 123					09/16/21 16:02	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-596658/7

Matrix: Water

Analysis Batch: 596658

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 123		09/16/21 16:02	1
Toluene-d8 (Surr)	99		77 - 120		09/16/21 16:02	1

Lab Sample ID: LCS 480-596658/5

Matrix: Water

Analysis Batch: 596658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	52 - 162
1,1-Dichloroethane	20.0	21.8		ug/L		109	59 - 155
1,1-Dichloroethene	20.0	21.4		ug/L		107	1 - 234
Benzene	20.0	21.4		ug/L		107	37 - 151
Chlorobenzene	20.0	21.1		ug/L		105	37 - 160
Chloroethane	20.0	20.1		ug/L		100	14 - 230
Toluene	20.0	20.9		ug/L		104	47 - 150
Trichloroethene	20.0	20.4		ug/L		102	71 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 130
Dibromofluoromethane (Surr)	101		75 - 123
4-Bromofluorobenzene (Surr)	103		76 - 123
Toluene-d8 (Surr)	99		77 - 120

Lab Sample ID: 480-189688-2 MS

Matrix: Water

Analysis Batch: 596658

Client Sample ID: Influent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		800	846		ug/L		106	52 - 162
1,1-Dichloroethane	ND		800	903		ug/L		113	59 - 155
1,1-Dichloroethene	ND		800	887		ug/L		111	1 - 234
Benzene	ND		800	888		ug/L		111	37 - 151
Chlorobenzene	ND		800	854		ug/L		107	37 - 160
Chloroethane	ND	F2	800	854		ug/L		107	14 - 230
Toluene	ND		800	879		ug/L		110	47 - 150
Trichloroethene	ND		800	839		ug/L		105	71 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		68 - 130
Dibromofluoromethane (Surr)	102		75 - 123
4-Bromofluorobenzene (Surr)	105		76 - 123
Toluene-d8 (Surr)	102		77 - 120

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-189688-2 MSD

Matrix: Water

Analysis Batch: 596658

Client Sample ID: Influent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		800	793		ug/L		99	52 - 162	6	15
1,1-Dichloroethane	ND		800	848		ug/L		106	59 - 155	6	15
1,1-Dichloroethene	ND		800	851		ug/L		106	1 - 234	4	15
Benzene	ND		800	842		ug/L		105	37 - 151	5	15
Chlorobenzene	ND		800	826		ug/L		103	37 - 160	3	15
Chloroethane	ND	F2	800	647	F2	ug/L		81	14 - 230	27	15
Toluene	ND		800	827		ug/L		103	47 - 150	6	15
Trichloroethene	ND		800	791		ug/L		99	71 - 157	6	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		68 - 130
Dibromofluoromethane (Surr)	100		75 - 123
4-Bromofluorobenzene (Surr)	104		76 - 123
Toluene-d8 (Surr)	101		77 - 120

Lab Sample ID: MB 480-596775/7

Matrix: Water

Analysis Batch: 596775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			09/17/21 11:58	1
1,1-Dichloroethane	ND		5.0		ug/L			09/17/21 11:58	1
1,1-Dichloroethene	ND		5.0		ug/L			09/17/21 11:58	1
Benzene	ND		5.0		ug/L			09/17/21 11:58	1
Chlorobenzene	ND		5.0		ug/L			09/17/21 11:58	1
Chloroethane	ND		5.0		ug/L			09/17/21 11:58	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/17/21 11:58	1
Toluene	ND		5.0		ug/L			09/17/21 11:58	1
Trichloroethene	ND		5.0		ug/L			09/17/21 11:58	1
o-Chlorotoluene	ND		5.0		ug/L			09/17/21 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130		09/17/21 11:58	1
Dibromofluoromethane (Surr)	101		75 - 123		09/17/21 11:58	1
4-Bromofluorobenzene (Surr)	104		76 - 123		09/17/21 11:58	1
Toluene-d8 (Surr)	99		77 - 120		09/17/21 11:58	1

Lab Sample ID: LCS 480-596775/5

Matrix: Water

Analysis Batch: 596775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	52 - 162
1,1-Dichloroethane	20.0	19.9		ug/L		99	59 - 155
1,1-Dichloroethene	20.0	18.5		ug/L		93	1 - 234
Benzene	20.0	19.8		ug/L		99	37 - 151
Chlorobenzene	20.0	19.6		ug/L		98	37 - 160
Chloroethane	20.0	20.2		ug/L		101	14 - 230

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-596775/5

Matrix: Water

Analysis Batch: 596775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	20.0	19.4		ug/L		97	47 - 150
Trichloroethene	20.0	18.3		ug/L		92	71 - 157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 130
Dibromofluoromethane (Surr)	102		75 - 123
4-Bromofluorobenzene (Surr)	102		76 - 123
Toluene-d8 (Surr)	100		77 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-596966/1-A

Matrix: Water

Analysis Batch: 597383

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 596966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		09/21/21 09:44	09/21/21 22:25	1

Lab Sample ID: LCS 480-596966/2-A

Matrix: Water

Analysis Batch: 597383

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 596966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	10320		ug/L		103	85 - 115

Lab Sample ID: 480-189688-1 MS

Matrix: Water

Analysis Batch: 597383

Client Sample ID: Effluent

Prep Type: Total Recoverable

Prep Batch: 596966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	171		10000	10450		ug/L		103	70 - 130

Lab Sample ID: 480-189688-1 MSD

Matrix: Water

Analysis Batch: 597383

Client Sample ID: Effluent

Prep Type: Total Recoverable

Prep Batch: 596966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	171		10000	10390		ug/L		102	70 - 130	1	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-597087/1

Matrix: Water

Analysis Batch: 597087

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			09/20/21 14:58	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-597087/2

Matrix: Water

Analysis Batch: 597087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	306	304.0		mg/L		99	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-597015/23

Matrix: Water

Analysis Batch: 597015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		99	99 - 101

Lab Sample ID: LCS 480-597015/45

Matrix: Water

Analysis Batch: 597015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		99	99 - 101

Lab Sample ID: 480-189688-2 DU

Matrix: Water

Analysis Batch: 597015

Client Sample ID: Influent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.0	HF	7.0		SU		0.5	5
Temperature	20.0	HF	19.8		Degrees C		1	10

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

GC/MS VOA

Analysis Batch: 596657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-596657/7	Method Blank	Total/NA	Water	624.1	
LCS 480-596657/5	Lab Control Sample	Total/NA	Water	624.1	
480-189688-2 MS	Influent	Total/NA	Water	624.1	
480-189688-2 MSD	Influent	Total/NA	Water	624.1	

Analysis Batch: 596658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189688-1	Effluent	Total/NA	Water	624.1	
480-189688-2	Influent	Total/NA	Water	624.1	
480-189688-3	Trip Blank	Total/NA	Water	624.1	
MB 480-596658/7	Method Blank	Total/NA	Water	624.1	
LCS 480-596658/5	Lab Control Sample	Total/NA	Water	624.1	
480-189688-2 MS	Influent	Total/NA	Water	624.1	
480-189688-2 MSD	Influent	Total/NA	Water	624.1	

Analysis Batch: 596775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189688-2 - DL	Influent	Total/NA	Water	624.1	
MB 480-596775/7	Method Blank	Total/NA	Water	624.1	
LCS 480-596775/5	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 596966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189688-1	Effluent	Total Recoverable	Water	200.7	
480-189688-2	Influent	Total Recoverable	Water	200.7	
MB 480-596966/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-596966/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-189688-1 MS	Effluent	Total Recoverable	Water	200.7	
480-189688-1 MSD	Effluent	Total Recoverable	Water	200.7	

Analysis Batch: 597383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189688-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	596966
480-189688-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	596966
MB 480-596966/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	596966
LCS 480-596966/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	596966
480-189688-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	596966
480-189688-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	596966

General Chemistry

Analysis Batch: 597015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189688-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-189688-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-597015/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 480-597015/45	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-189688-2 DU	Influent	Total/NA	Water	SM 4500 H+ B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

General Chemistry

Analysis Batch: 597087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189688-1	Effluent	Total/NA	Water	SM 2540D	
480-189688-2	Influent	Total/NA	Water	SM 2540D	
MB 480-597087/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-597087/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Client Sample ID: Effluent

Lab Sample ID: 480-189688-1

Date Collected: 09/16/21 11:40

Matrix: Water

Date Received: 09/16/21 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	596658	09/16/21 20:12	ATG	TAL BUF
Total Recoverable	Prep	200.7			596966	09/21/21 09:44	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	597383	09/21/21 22:43	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	597087	09/20/21 14:58	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	597015	09/17/21 17:34	JPS	TAL BUF

Client Sample ID: Influent

Lab Sample ID: 480-189688-2

Date Collected: 09/16/21 12:00

Matrix: Water

Date Received: 09/16/21 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	596658	09/16/21 20:36	ATG	TAL BUF
Total/NA	Analysis	624.1	DL	80	596775	09/17/21 12:36	ATG	TAL BUF
Total Recoverable	Prep	200.7			596966	09/21/21 09:44	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	597383	09/21/21 23:01	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	597087	09/20/21 14:58	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	597015	09/17/21 17:36	JPS	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-189688-3

Date Collected: 09/16/21 00:00

Matrix: Water

Date Received: 09/16/21 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	596658	09/16/21 20:59	ATG	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	o-Chlorotoluene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-189688-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189688-1	Effluent	Water	09/16/21 11:40	09/16/21 13:20
480-189688-2	Influent	Water	09/16/21 12:00	09/16/21 13:20
480-189688-3	Trip Blank	Water	09/16/21 00:00	09/16/21 13:20

