AECOM Environment

Second Quarter 2021 – April, May, June
Operation, Maintenance, and Monitoring Report

CHEM-TROL Site
NYSDEC Site No. 9-15-015
Report.hw915015.2021-08-05.2Q2021OMM

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

August 5, 2021

AECOM Project No. 60652207.3

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August 5, 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
Second Quarter 2021 Operation, Maintenance, and Monitoring Report
Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2021-08-05.2Q2021OMM

Dear Mr. May:

Enclosed please find the Second Quarter 2021 (2Q21 – April, May, June) 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 2Q21:

- 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 2Q21 is as follows:

April 2021

AECOM collected the monthly monitoring samples on April 26, 2021; analytical data were received on May 14, 2021. As presented on Table 1 (April 26, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

May 2021

AECOM collected the monthly monitoring samples on May 17, 2021; analytical data were received on May 28, 2021. As presented on Table 1 (May 17, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

June 2021

During the first week of June 2021, AECOM subcontractor Matrix Environmental performed planned upgrade maintenance on the treatment system which included replacing the air stripper and blower, replacing clogged effluent piping between the air stripper and the cleanout outside the treatment building, and adding a cleanout for the new effluent piping. Acid washes will no longer be necessary to clean the new air stripper trays. The trays will be removed and mechanical cleaning methods (i.e.,

pressure washing) will be utilized. Some system piping may still require an acid flush periodically to remove accumulated precipitates.

AECOM collected the monthly monitoring samples on June 16, 2021; analytical data were received on June 25, 2021. As presented on Table 1 (June 16, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

On June 22, 2021, AECOM collected the 2Q21 quarterly groundwater levels.

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

James L. Kaczor
Project Manager

Enclosure

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

April 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: Partly cloudy, 46 F
Date: 04/26/2021 Arrival Time: 13:30 Departure Time: 15:45

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**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes/Explanations section.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	High level alarm on EW-1.

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**	System was off upon arrival and there was no discharge at outfall.
Cleanout	**X**	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:

EW-1

Pumping Rate	0	GPM (see Notes section)
Water Level Above Transducer	271	Inches
Flow Meter Reading	Not Working	Gallons

EW-2

Pumping Rate	0	GPM (see Notes section)
Water Level Above Transducer	183	Inches
Flow Meter Reading	28,528,520	Gallons

EW-3

Pumping Rate	0	GPM (see Notes section)
Water Level Above Transducer	208	Inches
Flow Meter Reading	15,696,380	Gallons

Air Stripper

Stripper Blower Pressure	15.5	Inches H2O

Effluent Flow

Total System Meter Reading	72,076,593	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 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

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

The system was off upon arrival. The thermal alarm inside the blower control box was reset allowing the system to be restarted and the wells to begin pumping again. The high-level alarm for EW-1 cleared once the wells began pumping again. The system ran for approximately one hour to let water circulate before samples were collected at the outfall and influent port. The totalizer reading was recorded when sampling occurred.

Total system flow was timed at 3.5 gpm on the 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 EW-1 flow meter/totalizer screen is blank and no longer functioning correctly.

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

The AS building overhead door flashing needs replacement.

Trimmed back the vegetation around the gate leading to the outfall. It is no longer overgrown by vegetation.

The most recent round of water levels (1Q2021) were collected on 3/25/21.

The most recent acid wash was performed on 3/25/21 by AECOM.

The monthly samples were collected today, 4/26/21 by AECOM.

Table 1
April 26, 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*	2,906	2,906	144,000	gpd	NA	NA	NA
pH	7.2	7.5	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	11	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
1,1-Dichloroethane	8.9	< 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	890	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Iron - Total	1,910	2,530	3,000	ug/L	0.06	3.61	lbs/day
TSS	< 4	< 4	20	mg/L	< 0.10		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 March 25, 2021 through April 26, 2021.*

Table 2
April 26, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 4/26/2021	units	Prior Report 3/25/2021
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	271	Inches	267
Flow Meter Reading	NW	gallons	8,444,688
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	183	Inches	171
Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	208	Inches	192
Flow Meter Reading	15,696,380	gallons	15,696,380
Air Stripper			
Stripper Blower Pressure	15.5	inches H_2O	17.5
Effluent Flow			
Total System Meter Reading	72,076,593	gallons	71,986,517
Average System Flow Since Prior Report	2,906	gpd	
	121.1	gph	
	2.0	gpm	
Influent o-Chlorotoluene concentration	890	ug/L	
Current month mass removal	0.3	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-183860-1
Client Project/Site: ChemTrol Site: Monthly GW
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
5/14/2021 4:35:37 PM
Joshua Velez, Project Management Assistant I
joshua.velez@eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

Table of Contents

Definitions/Glossary

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

Job ID: 480-183860-1

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.
¤	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

Job ID: 480-183860-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-183860-1

Comments
No additional comments.

Receipt
The samples were received on 4/27/2021 11:17 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 3.1º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-183860-2). 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 result reported for the following sample did not concur with results previously reported for this site: Influent (480-183860-2). Reanalysis was performed, and the result 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 (480-183860-1) and Influent (480-183860-2).

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 GW

Job ID: 480-183860-1

Client Sample ID: Effluent — Lab Sample ID: 480-183860-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2530		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.5	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	18.9	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-183860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.9		5.0		ug/L	2		624.1	Total/NA
Chloroethane	11		5.0		ug/L	2		624.1	Total/NA
o-Chlorotoluene	890		5.0		ug/L	2		624.1	Total/NA
Iron	1910		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.2	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	18.9	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-183860-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 480-183860-1

Client Sample ID: Effluent

Date Collected: 04/26/21 15:00
Date Received: 04/27/21 11:17

Lab Sample ID: 480-183860-1

Matrix: Water

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			05/03/21 12:13	1
1,1-Dichloroethane	ND		5.0		ug/L			05/03/21 12:13	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/21 12:13	1
Benzene	ND		5.0		ug/L			05/03/21 12:13	1
Chlorobenzene	ND		5.0		ug/L			05/03/21 12:13	1
Chloroethane	ND		5.0		ug/L			05/03/21 12:13	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/03/21 12:13	1
Toluene	ND		5.0		ug/L			05/03/21 12:13	1
Trichloroethene	ND		5.0		ug/L			05/03/21 12:13	1
o-Chlorotoluene	ND		5.0		ug/L			05/03/21 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*		*05/03/21 12:13*	*1*
4-Bromofluorobenzene	*97*		*60 - 140*		*05/03/21 12:13*	*1*
Toluene-d8 (Surr)	*91*		*60 - 140*		*05/03/21 12:13*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*05/03/21 12:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2530**		50.0		ug/L		05/04/21 09:13	05/05/21 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/29/21 14:47	1
pH	**7.5**	**HF**	0.1		SU			05/10/21 18:55	1
Temperature	**18.9**	**HF**	0.001		Degrees C			05/10/21 18:55	1

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

Job ID: 480-183860-1

Client Sample ID: Influent

Date Collected: 04/26/21 15:30
Date Received: 04/27/21 11:17

Lab Sample ID: 480-183860-2

Matrix: Water

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			05/04/21 00:54	2
1,1-Dichloroethane	**8.9**		5.0		ug/L			05/04/21 00:54	2
1,1-Dichloroethene	ND		5.0		ug/L			05/04/21 00:54	2
Benzene	ND		5.0		ug/L			05/04/21 00:54	2
Chlorobenzene	ND		5.0		ug/L			05/04/21 00:54	2
Chloroethane	**11**		5.0		ug/L			05/04/21 00:54	2
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/04/21 00:54	2
Toluene	ND		5.0		ug/L			05/04/21 00:54	2
Trichloroethene	ND		5.0		ug/L			05/04/21 00:54	2
o-Chlorotoluene	**890**		5.0		ug/L			05/04/21 00:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*		*05/04/21 00:54*	*2*
4-Bromofluorobenzene	*98*		*60 - 140*		*05/04/21 00:54*	*2*
Toluene-d8 (Surr)	*92*		*60 - 140*		*05/04/21 00:54*	*2*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*05/04/21 00:54*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1910**		50.0		ug/L		05/04/21 09:13	05/05/21 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			04/29/21 14:47	1
pH	**7.2**	**HF**	0.1		SU			05/10/21 18:58	1
Temperature	**18.9**	**HF**	0.001		Degrees C			05/10/21 18:58	1

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

Job ID: 480-183860-1

Client Sample ID: Trip Blank

Date Collected: 04/26/21 00:00
Date Received: 04/27/21 11:17

Lab Sample ID: 480-183860-3

Matrix: Water

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			05/03/21 11:50	1
1,1-Dichloroethane	ND		5.0		ug/L			05/03/21 11:50	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/21 11:50	1
Benzene	ND		5.0		ug/L			05/03/21 11:50	1
Chlorobenzene	ND		5.0		ug/L			05/03/21 11:50	1
Chloroethane	ND		5.0		ug/L			05/03/21 11:50	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/03/21 11:50	1
Toluene	ND		5.0		ug/L			05/03/21 11:50	1
Trichloroethene	ND		5.0		ug/L			05/03/21 11:50	1
o-Chlorotoluene	ND		5.0		ug/L			05/03/21 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*		*05/03/21 11:50*	*1*
4-Bromofluorobenzene	*92*		*60 - 140*		*05/03/21 11:50*	*1*
Toluene-d8 (Surr)	*87*		*60 - 140*		*05/03/21 11:50*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*05/03/21 11:50*	*1*

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

Lab Sample ID: MB 460-775387/10
Matrix: Water
Analysis Batch: 775387

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			05/03/21 11:04	1
1,1-Dichloroethane	ND		5.0		ug/L			05/03/21 11:04	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/21 11:04	1
Benzene	ND		5.0		ug/L			05/03/21 11:04	1
Chlorobenzene	ND		5.0		ug/L			05/03/21 11:04	1
Chloroethane	ND		5.0		ug/L			05/03/21 11:04	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/03/21 11:04	1
Toluene	ND		5.0		ug/L			05/03/21 11:04	1
Trichloroethene	ND		5.0		ug/L			05/03/21 11:04	1
o-Chlorotoluene	ND		5.0		ug/L			05/03/21 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*		*05/03/21 11:04*	*1*
4-Bromofluorobenzene	*96*		*60 - 140*		*05/03/21 11:04*	*1*
Toluene-d8 (Surr)	*91*		*60 - 140*		*05/03/21 11:04*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*05/03/21 11:04*	*1*

Lab Sample ID: LCS 460-775387/4
Matrix: Water
Analysis Batch: 775387

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	19.2		ug/L		96	70 - 130
1,1-Dichloroethane	20.0	17.8		ug/L		89	70 - 130
1,1-Dichloroethene	20.0	19.1		ug/L		96	50 - 150
Benzene	20.0	17.9		ug/L		89	65 - 135
Chlorobenzene	20.0	19.1		ug/L		95	65 - 135
Chloroethane	20.0	16.6		ug/L		83	40 - 160
Toluene	20.0	17.4		ug/L		87	70 - 130
Trichloroethene	20.0	18.9		ug/L		95	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*
4-Bromofluorobenzene	*99*		*60 - 140*
Toluene-d8 (Surr)	*92*		*60 - 140*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Lab Sample ID: LCSD 460-775387/5
Matrix: Water
Analysis Batch: 775387

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	19.4		ug/L		97	70 - 130	1	36
1,1-Dichloroethane	20.0	17.7		ug/L		88	70 - 130	1	40
1,1-Dichloroethene	20.0	19.3		ug/L		97	50 - 150	1	32
Benzene	20.0	17.7		ug/L		89	65 - 135	1	61
Chlorobenzene	20.0	19.1		ug/L		95	65 - 135	0	53
Chloroethane	20.0	16.9		ug/L		84	40 - 160	2	78

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

Lab Sample ID: LCSD 460-775387/5
Matrix: Water
Analysis Batch: 775387

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	17.4		ug/L		87	70 - 130	0	41
Trichloroethene			20.0	19.6		ug/L		98	65 - 135	3	48

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*
4-Bromofluorobenzene	*94*		*60 - 140*
Toluene-d8 (Surr)	*89*		*60 - 140*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 460-775527/10
Matrix: Water
Analysis Batch: 775527

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			05/03/21 23:00	1
1,1-Dichloroethane	ND		5.0		ug/L			05/03/21 23:00	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/21 23:00	1
Benzene	ND		5.0		ug/L			05/03/21 23:00	1
Chlorobenzene	ND		5.0		ug/L			05/03/21 23:00	1
Chloroethane	ND		5.0		ug/L			05/03/21 23:00	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/03/21 23:00	1
Toluene	ND		5.0		ug/L			05/03/21 23:00	1
Trichloroethene	ND		5.0		ug/L			05/03/21 23:00	1
o-Chlorotoluene	ND		5.0		ug/L			05/03/21 23:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*		*05/03/21 23:00*	*1*
4-Bromofluorobenzene	*98*		*60 - 140*		*05/03/21 23:00*	*1*
Toluene-d8 (Surr)	*93*		*60 - 140*		*05/03/21 23:00*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*05/03/21 23:00*	*1*

Lab Sample ID: LCS 460-775527/4
Matrix: Water
Analysis Batch: 775527

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	21.0		ug/L		105	70 - 130
1,1-Dichloroethane			20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethene			20.0	22.2		ug/L		111	50 - 150
Benzene			20.0	19.5		ug/L		98	65 - 135
Chlorobenzene			20.0	20.2		ug/L		101	65 - 135
Chloroethane			20.0	18.5		ug/L		93	40 - 160
Toluene			20.0	18.8		ug/L		94	70 - 130
Trichloroethene			20.0	21.3		ug/L		106	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*
4-Bromofluorobenzene	*99*		*60 - 140*

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

Lab Sample ID: LCS 460-775527/4
Matrix: Water
Analysis Batch: 775527

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Lab Sample ID: LCSD 460-775527/5
Matrix: Water
Analysis Batch: 775527

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	18.5		ug/L		93	70 - 130	13	36
1,1-Dichloroethane			20.0	18.0		ug/L		90	70 - 130	10	40
1,1-Dichloroethene			20.0	20.1		ug/L		100	50 - 150	10	32
Benzene			20.0	18.1		ug/L		91	65 - 135	7	61
Chlorobenzene			20.0	19.4		ug/L		97	65 - 135	4	53
Chloroethane			20.0	17.3		ug/L		86	40 - 160	7	78
Toluene			20.0	17.6		ug/L		88	70 - 130	6	41
Trichloroethene			20.0	19.2		ug/L		96	65 - 135	10	48

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*
4-Bromofluorobenzene	*98*		*60 - 140*
Toluene-d8 (Surr)	*92*		*60 - 140*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-578799/1-A
Matrix: Water
Analysis Batch: 579616

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 578799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		05/04/21 09:13	05/05/21 16:05	1

Lab Sample ID: LCS 480-578799/2-A
Matrix: Water
Analysis Batch: 579616

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 578799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron			10000	9423		ug/L		94	85 - 115

Lab Sample ID: 480-183860-1 MS
Matrix: Water
Analysis Batch: 579616

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 578799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	2530		10000	11950		ug/L		94	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-183860-1 MSD
Matrix: Water
Analysis Batch: 579616

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 578799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	2530		10000	12070		ug/L		95	70 - 130	1	20

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

Lab Sample ID: MB 480-578605/1
Matrix: Water
Analysis Batch: 578605

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			04/29/21 14:47	1

Lab Sample ID: LCS 480-578605/2
Matrix: Water
Analysis Batch: 578605

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			359	355.6		mg/L		99	88 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-580293/1
Matrix: Water
Analysis Batch: 580293

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		100	99 - 101		

QC Association Summary

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

Job ID: 480-183860-1

GC/MS VOA

Analysis Batch: 775387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183860-1	Effluent	Total/NA	Water	624.1	
480-183860-3	Trip Blank	Total/NA	Water	624.1	
MB 460-775387/10	Method Blank	Total/NA	Water	624.1	
LCS 460-775387/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-775387/5	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 775527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183860-2	Influent	Total/NA	Water	624.1	
MB 460-775527/10	Method Blank	Total/NA	Water	624.1	
LCS 460-775527/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-775527/5	Lab Control Sample Dup	Total/NA	Water	624.1	

Metals

Prep Batch: 578799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183860-1	Effluent	Total Recoverable	Water	200.7	
480-183860-2	Influent	Total Recoverable	Water	200.7	
MB 480-578799/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-578799/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-183860-1 MS	Effluent	Total Recoverable	Water	200.7	
480-183860-1 MSD	Effluent	Total Recoverable	Water	200.7	

Analysis Batch: 579616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183860-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	578799
480-183860-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	578799
MB 480-578799/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	578799
LCS 480-578799/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	578799
480-183860-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	578799
480-183860-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	578799

General Chemistry

Analysis Batch: 578605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183860-1	Effluent	Total/NA	Water	SM 2540D	
480-183860-2	Influent	Total/NA	Water	SM 2540D	
MB 480-578605/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-578605/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 580293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183860-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-183860-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-580293/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Waste Management
Job ID: 480-183860-1
Project/Site: ChemTrol Site: Monthly GW

Client Sample ID: Effluent
Lab Sample ID: 480-183860-1
Date Collected: 04/26/21 15:00
Matrix: Water
Date Received: 04/27/21 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	775387	05/03/21 12:13	CJM	TAL EDI
Total Recoverable	Prep	200.7			578799	05/04/21 09:13	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	579616	05/05/21 16:12	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	578605	04/29/21 14:47	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	580293	05/10/21 18:55	KEB	TAL BUF

Client Sample ID: Influent
Lab Sample ID: 480-183860-2
Date Collected: 04/26/21 15:30
Matrix: Water
Date Received: 04/27/21 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		2	775527	05/04/21 00:54	GXY	TAL EDI
Total Recoverable	Prep	200.7			578799	05/04/21 09:13	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	579616	05/05/21 16:34	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	578605	04/29/21 14:47	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	580293	05/10/21 18:58	KEB	TAL BUF

Client Sample ID: Trip Blank
Lab Sample ID: 480-183860-3
Date Collected: 04/26/21 00:00
Matrix: Water
Date Received: 04/27/21 11:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	775387	05/03/21 11:50	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
Job ID: 480-183860-1
Project/Site: ChemTrol Site: Monthly GW

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)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
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 GW

Job ID: 480-183860-1

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 GW

Job ID: 480-183860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-183860-1	Effluent	Water	04/26/21 15:00	04/27/21 11:17	
480-183860-2	Influent	Water	04/26/21 15:30	04/27/21 11:17	
480-183860-3	Trip Blank	Water	04/26/21 00:00	04/27/21 11:17	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 480-147092-28522.1
Client Contact: Mr. Dino Zack	Phone:	E-Mail: roxanne.cisneros@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #:

Address: 257 West Genesee Street Suite 400	Due Date Requested:	Analysis Requested	Preservation Codes: A - HCL M - Hexane
City: Buffalo	TAT Requested (days):		
State, Zip: NY, 14202-2657			
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 5070005494		
Email: dino.zack@aecom.com	WO #:		
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwat	Project #: 48002447		L - EDA Z - other (specify)
Site: New York	SSOW#:		Other:

480-183860 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of contai	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	4/26/21	1500	G	Water	N	N	1	3	1	1		
Influent	4/26/21	1530	G	Water	N	N	1	3	1	1		
Trip Blank	4/26/21	-	G	Water	N	N		1				

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Sam P. Connelly	4/27/21 @ 1117	Aecom	Tom Uhlen	4/27/21 @ 1117	AECOM
2	Tom Uhlen	4/27/21 @	AECOM	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/27/21 1117	Company TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-63171.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-183860-1
Address: 777 New Durham Road, ,	Due Date Requested: 5/17/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: ChemTrol Site: Monthly GW	Project #: 48002447			
Site: Chem Trol Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC/624_Prep (MOD) 624	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Effluent (480-183860-1)	4/26/21	15:00 Eastern		Water			X	3	
Influent (480-183860-2)	4/26/21	15:30 Eastern		Water			X	3	
Trip Blank (480-183860-3)	4/26/21	Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 04/28/21 1745	Company: TA	Received by: [signature] via FedEx
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 4/29/21 1000 Company ETAFLi
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: X Yes Δ No	Custody Seal No.: 1452828	Cooler Temperature(s) °C and Other Remarks: 3.4°/3.1°C IR11

Ver: 11/01/2020

May 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, 63 F
Date: 05/17/2021 Arrival Time: 09:30 Departure Time: 10:20

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**	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	**X**	Tank in-line but filter media removed; not required.
Flow Meters	**X**	See Notes/Explanations section.
Gauges	**X**	
Stripper Blower	**X**	Offline
Indication of Alarm	**X**	High level alarm on EW-1, EW-2 and EW-3.

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**	System was off upon arrival and there was no discharge at outfall. Restarted system and returned later in day to collect samples.
Cleanout	**X**	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	260 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	177 Inches
Flow Meter Reading	28,528,520 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	201 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	15.5 Inches H2O

Effluent Flow

Total System Meter Reading	72,089,841 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 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

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

The system was off upon arrival. The thermal alarm inside the blower control box was reset allowing the system to be restarted and the wells to begin pumping again. The high-level alarm for EW-1, EW-2 and EW-3 cleared once the wells began pumping again. The system ran for about five hours to let water circulate before samples were collected at the outfall and influent port. The totalizer reading was recorded when sampling occurred.

Total system flow was timed at 3.5 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 EW-1 flow meter/totalizer screen is blank and no longer functioning correctly.

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 (1Q2021) were collected on 3/25/21.

The most recent acid wash was performed on 3/25/21 by AECOM.

The monthly samples were collected today, 5/17/21 by AECOM.

Table 1
May 17, 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*	631	631	144,000	gpd	NA	NA	NA
pH	7.3	7.7	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 5	< 5.0	5	ug/L	< 0.0000	0.006	lbs/day
Chlorobenzene	< 5	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
cis-1,2-Dichloroethene	< 5	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Benzene	< 5	< 5.0	5	ug/L	< 0.0000	0.006	lbs/day
1,1,1-Trichloroethane	< 5	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Chloroethane	22	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
1,1-Dichloroethane	18	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
1,1-Dichloroethene	< 5	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Trichloroethene	< 5	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
o-Chlorotoluene	1,200	< 5.0	10	ug/L	< 0.0000	0.012	lbs/day
Iron - Total	1,180	875	3,000	ug/L	0.00	3.61	lbs/day
TSS	< 4	7	20	mg/L	0.04		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 April 26, 2021 through May 17, 2021.*

Table 2
May 17, 2021 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 5/17/2021	units	Prior Report 4/26/2021
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	260	Inches	271
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	177	Inches	183
Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	201	Inches	208
Flow Meter Reading	15,696,380	gallons	15,696,380
Air Stripper			
Stripper Blower Pressure	15.5	inches H_2O	15.5
Effluent Flow			
Total System Meter Reading	72,089,841	gallons	72,076,593
Average System Flow Since Prior Report	631	gpd	
	26.3	gph	
	0.4	gpm	
Influent o-Chlorotoluene concentration	1,200	ug/L	
Current month mass removal	0.1	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-184803-1
Client Project/Site: ChemTrol Site - Monthly GW
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
5/28/2021 11:50:33 AM
Joshua Velez, Project Management Assistant I
joshua.velez@eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

Table of Contents

Definitions/Glossary

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

Job ID: 480-184803-1

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.
¤	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

Job ID: 480-184803-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-184803-1

Comments
No additional comments.

Receipt
The samples were received on 5/18/2021 7:00 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 3.5º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-184803-2). 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 (480-184803-1) and Influent (480-184803-2).

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 GW

Job ID: 480-184803-1

Client Sample ID: Effluent — Lab Sample ID: 480-184803-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	875		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	7.2		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.7	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	21.0	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-184803-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	18		5.0		ug/L	5		624.1	Total/NA
Chloroethane	22		5.0		ug/L	5		624.1	Total/NA
o-Chlorotoluene	1200		5.0		ug/L	5		624.1	Total/NA
Iron	1180		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.3	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	21.2	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-184803-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 480-184803-1

Client Sample ID: Effluent

Date Collected: 05/17/21 14:30
Date Received: 05/18/21 07:00

Lab Sample ID: 480-184803-1

Matrix: Water

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			05/20/21 01:40	1
1,1-Dichloroethane	ND		5.0		ug/L			05/20/21 01:40	1
1,1-Dichloroethene	ND		5.0		ug/L			05/20/21 01:40	1
Benzene	ND		5.0		ug/L			05/20/21 01:40	1
Chlorobenzene	ND		5.0		ug/L			05/20/21 01:40	1
Chloroethane	ND		5.0		ug/L			05/20/21 01:40	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/20/21 01:40	1
Toluene	ND		5.0		ug/L			05/20/21 01:40	1
Trichloroethene	ND		5.0		ug/L			05/20/21 01:40	1
o-Chlorotoluene	ND		5.0		ug/L			05/20/21 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*05/20/21 01:40*	*1*
4-Bromofluorobenzene	*87*		*60 - 140*		*05/20/21 01:40*	*1*
Toluene-d8 (Surr)	*95*		*60 - 140*		*05/20/21 01:40*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*		*05/20/21 01:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**875**		50.0		ug/L		05/24/21 10:55	05/24/21 19:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**7.2**		4.0		mg/L			05/19/21 09:34	1
pH	**7.7**	**HF**	0.1		SU			05/26/21 14:02	1
Temperature	**21.0**	**HF**	0.001		Degrees C			05/26/21 14:02	1

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

Job ID: 480-184803-1

Client Sample ID: Influent

Date Collected: 05/17/21 14:45
Date Received: 05/18/21 07:00

Lab Sample ID: 480-184803-2

Matrix: Water

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			05/20/21 05:49	5
1,1-Dichloroethane	**18**		5.0		ug/L			05/20/21 05:49	5
1,1-Dichloroethene	ND		5.0		ug/L			05/20/21 05:49	5
Benzene	ND		5.0		ug/L			05/20/21 05:49	5
Chlorobenzene	ND		5.0		ug/L			05/20/21 05:49	5
Chloroethane	**22**		5.0		ug/L			05/20/21 05:49	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/20/21 05:49	5
Toluene	ND		5.0		ug/L			05/20/21 05:49	5
Trichloroethene	ND		5.0		ug/L			05/20/21 05:49	5
o-Chlorotoluene	**1200**		5.0		ug/L			05/20/21 05:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*05/20/21 05:49*	*5*
4-Bromofluorobenzene	*84*		*60 - 140*		*05/20/21 05:49*	*5*
Toluene-d8 (Surr)	*96*		*60 - 140*		*05/20/21 05:49*	*5*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*05/20/21 05:49*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1180**		50.0		ug/L		05/24/21 10:55	05/24/21 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			05/19/21 09:34	1
pH	**7.3**	**HF**	0.1		SU			05/26/21 14:04	1
Temperature	**21.2**	**HF**	0.001		Degrees C			05/26/21 14:04	1

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

Job ID: 480-184803-1

Client Sample ID: Trip Blank

Date Collected: 05/17/21 00:00
Date Received: 05/18/21 07:00

Lab Sample ID: 480-184803-3

Matrix: Water

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			05/19/21 22:38	1
1,1-Dichloroethane	ND		5.0		ug/L			05/19/21 22:38	1
1,1-Dichloroethene	ND		5.0		ug/L			05/19/21 22:38	1
Benzene	ND		5.0		ug/L			05/19/21 22:38	1
Chlorobenzene	ND		5.0		ug/L			05/19/21 22:38	1
Chloroethane	ND		5.0		ug/L			05/19/21 22:38	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/19/21 22:38	1
Toluene	ND		5.0		ug/L			05/19/21 22:38	1
Trichloroethene	ND		5.0		ug/L			05/19/21 22:38	1
o-Chlorotoluene	ND		5.0		ug/L			05/19/21 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*05/19/21 22:38*	*1*
4-Bromofluorobenzene	*84*		*60 - 140*		*05/19/21 22:38*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*05/19/21 22:38*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*05/19/21 22:38*	*1*

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

Lab Sample ID: MB 460-778996/8
Matrix: Water
Analysis Batch: 778996

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			05/19/21 22:15	1
1,1-Dichloroethane	ND		5.0		ug/L			05/19/21 22:15	1
1,1-Dichloroethene	ND		5.0		ug/L			05/19/21 22:15	1
Benzene	ND		5.0		ug/L			05/19/21 22:15	1
Chlorobenzene	ND		5.0		ug/L			05/19/21 22:15	1
Chloroethane	ND		5.0		ug/L			05/19/21 22:15	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/19/21 22:15	1
Toluene	ND		5.0		ug/L			05/19/21 22:15	1
Trichloroethene	ND		5.0		ug/L			05/19/21 22:15	1
o-Chlorotoluene	ND		5.0		ug/L			05/19/21 22:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*05/19/21 22:15*	*1*
4-Bromofluorobenzene	*87*		*60 - 140*		*05/19/21 22:15*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*05/19/21 22:15*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*05/19/21 22:15*	*1*

Lab Sample ID: LCS 460-778996/3
Matrix: Water
Analysis Batch: 778996

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	21.0		ug/L		105	70 - 130
1,1-Dichloroethane	20.0	23.5		ug/L		118	70 - 130
1,1-Dichloroethene	20.0	20.7		ug/L		103	50 - 150
Benzene	20.0	22.5		ug/L		112	65 - 135
Chlorobenzene	20.0	21.8		ug/L		109	65 - 135
Chloroethane	20.0	22.3		ug/L		111	40 - 160
Toluene	20.0	21.5		ug/L		108	70 - 130
Trichloroethene	20.0	21.2		ug/L		106	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene	*87*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*98*		*60 - 140*

Lab Sample ID: LCSD 460-778996/4
Matrix: Water
Analysis Batch: 778996

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	19.9		ug/L		99	70 - 130	6	36
1,1-Dichloroethane	20.0	22.4		ug/L		112	70 - 130	5	40
1,1-Dichloroethene	20.0	20.6		ug/L		103	50 - 150	0	32
Benzene	20.0	21.8		ug/L		109	65 - 135	3	61
Chlorobenzene	20.0	20.4		ug/L		102	65 - 135	7	53
Chloroethane	20.0	20.7		ug/L		104	40 - 160	7	78

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

Lab Sample ID: LCSD 460-778996/4
Matrix: Water
Analysis Batch: 778996

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	20.7		ug/L		103	70 - 130	4	41
Trichloroethene			20.0	20.6		ug/L		103	65 - 135	3	48

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
4-Bromofluorobenzene	*90*		*60 - 140*
Toluene-d8 (Surr)	*101*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-582179/1-A
Matrix: Water
Analysis Batch: 582515

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 582179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		05/24/21 10:55	05/24/21 17:54	1

Lab Sample ID: LCS 480-582179/2-A
Matrix: Water
Analysis Batch: 582515

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 582179

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron			10000	9807		ug/L		98	85 - 115

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

Lab Sample ID: MB 480-581617/1
Matrix: Water
Analysis Batch: 581617

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			05/19/21 09:34	1

Lab Sample ID: LCS 480-581617/2
Matrix: Water
Analysis Batch: 581617

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			303	300.4		mg/L		99	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-582798/1
Matrix: Water
Analysis Batch: 582798

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		100	99 - 101

QC Association Summary

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

Job ID: 480-184803-1

GC/MS VOA

Analysis Batch: 778996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184803-1	Effluent	Total/NA	Water	624.1	
480-184803-2	Influent	Total/NA	Water	624.1	
480-184803-3	Trip Blank	Total/NA	Water	624.1	
MB 460-778996/8	Method Blank	Total/NA	Water	624.1	
LCS 460-778996/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-778996/4	Lab Control Sample Dup	Total/NA	Water	624.1	

Metals

Prep Batch: 582179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184803-1	Effluent	Total Recoverable	Water	200.7	
480-184803-2	Influent	Total Recoverable	Water	200.7	
MB 480-582179/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-582179/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 582515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184803-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	582179
480-184803-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	582179
MB 480-582179/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	582179
LCS 480-582179/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	582179

General Chemistry

Analysis Batch: 581617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184803-1	Effluent	Total/NA	Water	SM 2540D	
480-184803-2	Influent	Total/NA	Water	SM 2540D	
MB 480-581617/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-581617/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 582798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184803-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-184803-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-582798/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Waste Management
Job ID: 480-184803-1
Project/Site: ChemTrol Site - Monthly GW

Client Sample ID: Effluent
Lab Sample ID: 480-184803-1
Date Collected: 05/17/21 14:30
Matrix: Water
Date Received: 05/18/21 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	778996	05/20/21 01:40	AMS	TAL EDI
Total Recoverable	Prep	200.7			582179	05/24/21 10:55	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	582515	05/24/21 19:20	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	581617	05/19/21 09:34	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	582798	05/26/21 14:02	JPS	TAL BUF

Client Sample ID: Influent
Lab Sample ID: 480-184803-2
Date Collected: 05/17/21 14:45
Matrix: Water
Date Received: 05/18/21 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		5	778996	05/20/21 05:49	AMS	TAL EDI
Total Recoverable	Prep	200.7			582179	05/24/21 10:55	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	582515	05/24/21 19:24	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	581617	05/19/21 09:34	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	582798	05/26/21 14:04	JPS	TAL BUF

Client Sample ID: Trip Blank
Lab Sample ID: 480-184803-3
Date Collected: 05/17/21 00:00
Matrix: Water
Date Received: 05/18/21 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	778996	05/19/21 22:38	AMS	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 GW

Job ID: 480-184803-1

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)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
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 GW

Job ID: 480-184803-1

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 GW

Job ID: 480-184803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-184803-1	Effluent	Water	05/17/21 14:30	05/18/21 07:00	
480-184803-2	Influent	Water	05/17/21 14:45	05/18/21 07:00	
480-184803-3	Trip Blank	Water	05/17/21 00:00	05/18/21 07:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-157179-28522.1
Client Contact: Chad Moose	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:			Job #:

Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:		
City: Morrisville	TAT Requested (days):		
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No		
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: Purchase Order Requested		
Email: cmoose@wm.com	WO #:		
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwate	Project #: 48002447		
Site: New York	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	5/17/21	1430	G	Water	N	N	1	3	1	1		
Influent	5/17/21	1445	G	Water	N	N	1	3	1	1		
Trip Blank	5/17/21	-	G	Water	N	N		1				

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

480-184803 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/18/21 0700	Company Accom	Received by:	Date/Time: 5/18/21 @0700	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.5 #1

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-63779.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-184803-1
Address: 777 New Durham Road, ,	Due Date Requested: 6/8/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: ChemTrol Site	Project #: 48002447			
Site: Chem Trol Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC/624_Prep (MOD) 624	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Effluent (480-184803-1)	5/17/21	14:30 Eastern		Water			X	3	
Influent (480-184803-2)	5/17/21	14:45 Eastern		Water			X	3	
Trip Blank (480-184803-3)	5/17/21	Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Thomas Cicolo	5/18/21 1700	TA	Gaetano via Fedex	5/19/21 945	TAE
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	1513003 1513002	3.0°C/2.5°C 2.6°C/2.1°C

Ver: 11/01/2020

June 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: Sunny, 70 F
Date: 06/16/2021 Arrival Time: 08:45 Departure Time: 11:30

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**	A new air stripper was installed the first week of June 2021.
Iron Removal Filter	**X**	The iron removal tank was removed during the first week of June 2021 when the new air stripper was installed.
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**	During the first week of June, new effluent piping was installed between the air stripper and cleanout located outside the treatment building. Additionally, a cleanout was installed for the new effluent piping.

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	258 Inches
Flow Meter Reading	Not Working Gallons

EW-2

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

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	192 Inches
Flow Meter Reading	15,696,380 Gallons

Air Stripper

Stripper Blower Pressure	15.0 Inches H2O

Effluent Flow

Total System Meter Reading	72,125,300 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 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

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

The system was off upon arrival. The thermal alarm inside the blower control box was reset allowing the system to be restarted and the wells to begin pumping again. The system ran for approximately two hours to let water circulate before samples were collected at the outfall and the influent port. The totalizer reading was recorded when sampling occurred.

During the first week of June, AECOM subcontractor Matrix Environmental replaced the air stripper and blower as well as the clogged effluent piping between the air stripper and cleanout located outside the treatment building. Additionally, a cleanout was installed for the new effluent piping. The system was restarted and all wells were pumping following installation.

716 Dumpsters were onsite today to retrieve the dumpster used during the air stripper and piping upgrade work.

Total system flow was timed at 3 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 EW-1 flow meter/totalizer screen is blank and no longer functioning correctly.

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 (1Q2021) were collected on 3/25/21.

The most recent acid wash was performed on 3/25/21 by AECOM. Acid washes will no longer be necessary with the new air stripper. The trays are removable and mechanical cleaning methods will be utilized for cleaning (pressure washer)

The monthly samples were collected today, 6/12/21 by AECOM.

Table 1
June 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*	1,223	1,223	144,000	gpd	NA	NA	NA
pH	7.2	7.8	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	9.5	< 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	1,200	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Iron - Total	2,380	875	3,000	ug/L	0.01	3.61	lbs/day
TSS	< 4	< 4	20	mg/L	< 0.04		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 May 17, 2021 through June 16, 2021.*

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

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 6/16/2021	units	Prior Report 5/17/2021
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	258	Inches	260
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	171	Inches	177
Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	192	Inches	201
Flow Meter Reading	15,696,380	gallons	15,696,380
Air Stripper			
Stripper Blower Pressure	15.0	inches H_2O	15.5
Effluent Flow			
Total System Meter Reading	72,125,300	gallons	72,089,841
Average System Flow Since Prior Report	1,223	gpd	
	50.9	gph	
	0.8	gpm	
Influent o-Chlorotoluene concentration	1,200	ug/L	
Current month mass removal	0.2	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-186148-1
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:
6/25/2021 11:20:50 AM

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

Table of Contents

Definitions/Glossary

Client: Waste Management
Job ID: 480-186148-1
Project/Site: ChemTrol Site: Monthly

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.
¤	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: 480-186148-1

Job ID: 480-186148-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-186148-1

Comments
No additional comments.

Receipt
The samples were received on 6/16/2021 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 3.3º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-186148-2). 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 (480-186148-1) and Influent (480-186148-2). 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 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: 480-186148-1

Client Sample ID: Effluent — Lab Sample ID: 480-186148-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	343		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.8	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	22.0	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-186148-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.5		5.0		ug/L	5		624.1	Total/NA
Chloroethane	21		5.0		ug/L	5		624.1	Total/NA
o-Chlorotoluene	1200		5.0		ug/L	5		624.1	Total/NA
Iron	2380		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.2	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	22.1	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-186148-3

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 480-186148-1

Client Sample ID: Effluent

Date Collected: 06/16/21 11:25
Date Received: 06/16/21 12:15

Lab Sample ID: 480-186148-1

Matrix: Water

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			06/23/21 10:05	1
1,1-Dichloroethane	ND		5.0		ug/L			06/23/21 10:05	1
1,1-Dichloroethene	ND		5.0		ug/L			06/23/21 10:05	1
Benzene	ND		5.0		ug/L			06/23/21 10:05	1
Chlorobenzene	ND		5.0		ug/L			06/23/21 10:05	1
Chloroethane	ND		5.0		ug/L			06/23/21 10:05	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			06/23/21 10:05	1
Toluene	ND		5.0		ug/L			06/23/21 10:05	1
Trichloroethene	ND		5.0		ug/L			06/23/21 10:05	1
o-Chlorotoluene	ND		5.0		ug/L			06/23/21 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*06/23/21 10:05*	*1*
4-Bromofluorobenzene	*120*		*60 - 140*		*06/23/21 10:05*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*06/23/21 10:05*	*1*
Dibromofluoromethane (Surr)	*125*		*60 - 140*		*06/23/21 10:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**343**		50.0		ug/L		06/18/21 07:43	06/18/21 21:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			06/21/21 14:41	1
pH	**7.8**	**HF**	0.1		SU			06/17/21 12:51	1
Temperature	**22.0**	**HF**	0.001		Degrees C			06/17/21 12:51	1

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

Job ID: 480-186148-1

Client Sample ID: Influent

Date Collected: 06/16/21 11:05
Date Received: 06/16/21 12:15

Lab Sample ID: 480-186148-2

Matrix: Water

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			06/23/21 17:39	5
1,1-Dichloroethane	**9.5**		5.0		ug/L			06/23/21 17:39	5
1,1-Dichloroethene	ND		5.0		ug/L			06/23/21 17:39	5
Benzene	ND		5.0		ug/L			06/23/21 17:39	5
Chlorobenzene	ND		5.0		ug/L			06/23/21 17:39	5
Chloroethane	**21**		5.0		ug/L			06/23/21 17:39	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			06/23/21 17:39	5
Toluene	ND		5.0		ug/L			06/23/21 17:39	5
Trichloroethene	ND		5.0		ug/L			06/23/21 17:39	5
o-Chlorotoluene	**1200**		5.0		ug/L			06/23/21 17:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*06/23/21 17:39*	*5*
4-Bromofluorobenzene	*117*		*60 - 140*		*06/23/21 17:39*	*5*
Toluene-d8 (Surr)	*102*		*60 - 140*		*06/23/21 17:39*	*5*
Dibromofluoromethane (Surr)	*125*		*60 - 140*		*06/23/21 17:39*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2380**		50.0		ug/L		06/18/21 07:43	06/18/21 21:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			06/21/21 14:41	1
pH	**7.2**	**HF**	0.1		SU			06/17/21 12:54	1
Temperature	**22.1**	**HF**	0.001		Degrees C			06/17/21 12:54	1

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

Job ID: 480-186148-1

Client Sample ID: Trip Blank
Date Collected: 06/16/21 11:00
Date Received: 06/16/21 12:15

Lab Sample ID: 480-186148-3
Matrix: Water

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			06/23/21 09:40	1
1,1-Dichloroethane	ND		5.0		ug/L			06/23/21 09:40	1
1,1-Dichloroethene	ND		5.0		ug/L			06/23/21 09:40	1
Benzene	ND		5.0		ug/L			06/23/21 09:40	1
Chlorobenzene	ND		5.0		ug/L			06/23/21 09:40	1
Chloroethane	ND		5.0		ug/L			06/23/21 09:40	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			06/23/21 09:40	1
Toluene	ND		5.0		ug/L			06/23/21 09:40	1
Trichloroethene	ND		5.0		ug/L			06/23/21 09:40	1
o-Chlorotoluene	ND		5.0		ug/L			06/23/21 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*06/23/21 09:40*	*1*
4-Bromofluorobenzene	*121*		*60 - 140*		*06/23/21 09:40*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*06/23/21 09:40*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*06/23/21 09:40*	*1*

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

Lab Sample ID: MB 460-785991/9
Matrix: Water
Analysis Batch: 785991

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			06/23/21 09:17	1
1,1-Dichloroethane	ND		5.0		ug/L			06/23/21 09:17	1
1,1-Dichloroethene	ND		5.0		ug/L			06/23/21 09:17	1
Benzene	ND		5.0		ug/L			06/23/21 09:17	1
Chlorobenzene	ND		5.0		ug/L			06/23/21 09:17	1
Chloroethane	ND		5.0		ug/L			06/23/21 09:17	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			06/23/21 09:17	1
Toluene	ND		5.0		ug/L			06/23/21 09:17	1
Trichloroethene	ND		5.0		ug/L			06/23/21 09:17	1
o-Chlorotoluene	ND		5.0		ug/L			06/23/21 09:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*06/23/21 09:17*	*1*
4-Bromofluorobenzene	*117*		*60 - 140*		*06/23/21 09:17*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*06/23/21 09:17*	*1*
Dibromofluoromethane (Surr)	*124*		*60 - 140*		*06/23/21 09:17*	*1*

Lab Sample ID: LCS 460-785991/5
Matrix: Water
Analysis Batch: 785991

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	21.6		ug/L		108	70 - 130		
1,1-Dichloroethane			20.0	19.0		ug/L		95	70 - 130		
1,1-Dichloroethene			20.0	20.3		ug/L		101	50 - 150		
Benzene			20.0	15.9		ug/L		79	65 - 135		
Chlorobenzene			20.0	18.2		ug/L		91	65 - 135		
Chloroethane			20.0	21.0		ug/L		105	40 - 160		
Toluene			20.0	16.2		ug/L		81	70 - 130		
Trichloroethene			20.0	18.2		ug/L		91	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
4-Bromofluorobenzene	*118*		*60 - 140*
Toluene-d8 (Surr)	*102*		*60 - 140*
Dibromofluoromethane (Surr)	*125*		*60 - 140*

Lab Sample ID: LCSD 460-785991/6
Matrix: Water
Analysis Batch: 785991

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	20.3		ug/L		102	70 - 130	6	36
1,1-Dichloroethane			20.0	18.4		ug/L		92	70 - 130	3	40
1,1-Dichloroethene			20.0	18.9		ug/L		94	50 - 150	7	32
Benzene			20.0	15.3		ug/L		76	65 - 135	4	61
Chlorobenzene			20.0	16.9		ug/L		85	65 - 135	8	53
Chloroethane			20.0	20.6		ug/L		103	40 - 160	2	78

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

Lab Sample ID: LCSD 460-785991/6
Matrix: Water
Analysis Batch: 785991

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	15.3		ug/L		76	70 - 130	6	41
Trichloroethene			20.0	17.0		ug/L		85	65 - 135	7	48

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*
4-Bromofluorobenzene	*118*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*125*		*60 - 140*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-585918/1-A
Matrix: Water
Analysis Batch: 586233

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 585918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		06/18/21 07:43	06/18/21 21:10	1

Lab Sample ID: LCS 480-585918/2-A
Matrix: Water
Analysis Batch: 586233

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 585918

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10000	9695		ug/L		97	85 - 115		

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

Lab Sample ID: MB 480-586281/1
Matrix: Water
Analysis Batch: 586281

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			06/21/21 14:41	1

Lab Sample ID: LCS 480-586281/2
Matrix: Water
Analysis Batch: 586281

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			299	284.4		mg/L		95	88 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-585897/23
Matrix: Water
Analysis Batch: 585897

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: 480-186148-1

GC/MS VOA

Analysis Batch: 785991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186148-1	Effluent	Total/NA	Water	624.1	
480-186148-2	Influent	Total/NA	Water	624.1	
480-186148-3	Trip Blank	Total/NA	Water	624.1	
MB 460-785991/9	Method Blank	Total/NA	Water	624.1	
LCS 460-785991/5	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-785991/6	Lab Control Sample Dup	Total/NA	Water	624.1	

Metals

Prep Batch: 585918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186148-1	Effluent	Total Recoverable	Water	200.7	
480-186148-2	Influent	Total Recoverable	Water	200.7	
MB 480-585918/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-585918/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 586233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186148-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	585918
480-186148-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	585918
MB 480-585918/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	585918
LCS 480-585918/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	585918

General Chemistry

Analysis Batch: 585897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186148-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-186148-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-585897/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 586281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186148-1	Effluent	Total/NA	Water	SM 2540D	
480-186148-2	Influent	Total/NA	Water	SM 2540D	
MB 480-586281/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-586281/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-186148-1

Client Sample ID: Effluent

Lab Sample ID: 480-186148-1

Date Collected: 06/16/21 11:25
Matrix: Water
Date Received: 06/16/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	785991	06/23/21 10:05	CJM	TAL EDI
Total Recoverable	Prep	200.7			585918	06/18/21 07:43	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	586233	06/18/21 21:51	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	586281	06/21/21 14:41	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	585897	06/17/21 12:51	JPS	TAL BUF

Client Sample ID: Influent

Lab Sample ID: 480-186148-2

Date Collected: 06/16/21 11:05
Matrix: Water
Date Received: 06/16/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		5	785991	06/23/21 17:39	CJM	TAL EDI
Total Recoverable	Prep	200.7			585918	06/18/21 07:43	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	586233	06/18/21 21:54	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	586281	06/21/21 14:41	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	585897	06/17/21 12:54	JPS	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-186148-3

Date Collected: 06/16/21 11:00
Matrix: Water
Date Received: 06/16/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	785991	06/23/21 09:40	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: 480-186148-1

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)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
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: 480-186148-1

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: 480-186148-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-186148-1	Effluent	Water	06/16/21 11:25	06/16/21 12:15	
480-186148-2	Influent	Water	06/16/21 11:05	06/16/21 12:15	
480-186148-3	Trip Blank	Water	06/16/21 11:00	06/16/21 12:15	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Emily Au	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-161926-28522.1
Client Contact: Chad Moose	Phone: 716-531-3312	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:			Job #:

Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested: STD	Analysis Requested	Preservation Codes:
City: Morrisville	TAT Requested (days): STD.		A - HCL; B - NaOH; C - Zn Acetate; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No		
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: Purchase Order Requested		
Email: cmoose@wm.com	WO #:		
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwate	Project #: 48002447		
Site: New York	SSOW#:		Other:

480-186148 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of co	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	6/16/21	1125	G	Water			1	3	1	1		
Influent	6/16/21	1105	G	Water			1	3	1	1		
Trip Blank	6/16/21	1100	G	Water				1				

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) per contract

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Emily Au	6/16/21 1215	Accom			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/16/21 1215	Company TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 #1

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-64644.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Ryan.VanDette@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-186148-1
Address: 777 New Durham Road, ,	Due Date Requested: 7/7/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: ChemTrol Site: Monthly	Project #: 48002447			
Site: Chem Trol Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC/624_Prep (MOD) 624	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Effluent (480-186148-1)	6/16/21	11:25 Eastern		Water			X	3	
Influent (480-186148-2)	6/16/21	11:05 Eastern		Water			X	3	
Trip Blank (480-186148-3)	6/16/21	11:00 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[illegible]	6/21/21 1700	TA	[illegible]	6/22/21 9:35	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 151398 | Cooler Temperature(s) °C and Other Remarks: #9 - 5.9=4.9

Ver: 11/01/2020

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6/25/2021