

Payson Long

New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation Bureau of Program Management 625 Broadway, 12th Floor Albany, NY 12233-7012 Arcadis of New York, Inc. 855 Route 146 Suite 210 Clifton Park New York 12065 Tel 518 250 7300 Fax 518 371 2757

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Subject

December 2021 Monthly Report Fort Edward Landfill NYSDEC Site No. 558001 Contract No. D009804-7

Date:

January 18, 2022

Contact:

Andy Vitolins, P.G.

Dear Mr. Long:

Arcadis of New York, Inc. (Arcadis) has prepared this letter report to summarize the leachate collection and treatment system operation, maintenance, and monitoring (OM&M) activities completed during the December 2021 reporting period at the above-referenced site.

Phone:

518.250.7300

Email:

andy.vitolins@arcadis.com

Our ref: 30055713

# LEACHATE COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE

#### **System Performance**

A total of 657,941 gallons of leachate were collected and treated through the system during December 2021. The monthly average total leachate recovery rate for leachate extraction wells EW-2, EW-3, and leachate collection well EW-4 was approximately 14.7 gallons per minute (gpm).

#### **System Operation Summary**

During each site visit, Arcadis personnel completed a NYSDEC Daily Inspection Report (Attachment A) to summarize site conditions and work performed. A Arcadis Weekly O&M Log (Attachment B) was completed to record system readings and document system performance.

NYSDEC Site No. 558001 Payson Long January 18, 2022

The following activities were completed during the December 2021 operating period:

- On December 21, 2021, NIMS placed sand on landfill access roads to improve traction and prevent new ice from forming.
- On December 21, 2021, Arcadis replaced the existing Aries 305 Bleach drum with Aries 345 Sodium Permanganate. This replacement was chosen to eliminate chlorine gas production in and to reduce health and safety risks and equipment damage.
- Iron and solids sludge processing was performed throughout the month. Three 55-gallon drums of Filter Sludge were generated during December 2021.
- Updated the National Fire Protection Association (NFPA) placard on the Treatment System building exterior in accordance with the sodium permanganate safety data sheet (SDS).
- Repaired the landfill mid-cap swale gabion caging facing leachate collection well EW-4.
- Collected routine monthly treatment system samples.

Additional details of activities completed in December 2021 are provided in Appendix A.

#### SYSTEM SAMPLING

Monthly water samples were collected by Arcadis on December 14, 2021 from the following treatment system locations:

- Influent (i.e., combined flow from extraction wells EW-1, EW-2, EW-3, and EW-4);
- Clarifier Catch Tank discharge;
- Cell 3 Bypass (i.e., treatment Cell 3 discharge into the Cell 2/3 bypass pipe);
- Cell 2 Effluent (i.e., treatment Cell 2 discharge into the effluent collection chamber); and
- Polishing Pond Effluent (PPE).

Samples were also collected from extraction wells EW-1, EW-2, EW-3, leachate collection well EW-4, and Cell 1 Effluent (treatment Cell 1 discharge into the effluent collection chamber). Samples from these locations are collected on a guarterly basis and will be sampled again in the first quarter of 2022.

The monthly and quarterly samples were submitted to Eurofins TestAmerica for analysis of Volatile Organic Compounds (VOCs), polychlorinated biphenyls (PCBs), metals, total dissolved solids (TDS), and total suspended solids (TSS).

The analytical results are discussed in the sections below and have been summarized in Table 1. The laboratory analytical data will be submitted to NYSDEC's EIMS Administrator in the required EQuIS EDD format.

#### **System Analytical Results**

During the December 2021 sampling event, there were no Fort Edward State Pollutant Discharge Elimination System (SPDES) Equivalency Permit Limit exceedances at the Polishing Pond Effluent for VOCs and conventional chemistry. Iron and nickel exceeded the Fort Edward SPDES Permit Limits at the Polishing Pond Effluent sampling location. Additional details of the system analytical results are provided below.

#### **VOCs**

As shown in Table 1, VOCs were detected in the Influent, Clarifier Catch Tank, Cell 2 Effluent, and Polishing Pond Effluent samples. VOCs were not detected in the Polishing Pond Effluent at concentrations greater than the compound quantitation limit.

#### **PCBs**

PCBs were not detected at concentrations greater than the reporting limit of 1.0 micrograms per liter  $(\mu g/L)$  during the December 2021 sampling event.

#### Metals

Iron concentrations ranged from a maximum of 10.6 milligrams per liter (mg/L) (Influent) to a minimum of 0.836 mg/L (Polishing Pond Effluent). The PPE iron concentration of 0.836 mg/L exceeded the Fort Edward SPDES Equivalency Permit Limit of 0.3 mg/L. Nickel concentrations ranged from a maximum of 0.025 milligrams per liter (mg/L) (Influent) to a minimum of 0.0136 mg/L estimated (Cell 2 Effluent). The PPE nickel concentration of 0.017 mg/L estimated exceeded the Fort Edward SPDES Equivalency Permit Limit of 0.0096 mg/L.

There were no other metal concentrations which exceeded the Fort Edward SPDES Equivalency Permit Limits in December 2021. Additional metal concentrations are shown on Table 1.

#### **Conventional Chemistry**

As shown on Table 1, TDS concentrations ranged from 402 mg/L (Cell 3 Bypass) to 570 mg/L (Influent), and TSS concentrations ranged from non-detect in several samples to 28 mg/L (Influent). These data are consistent with the results from previous sampling events. Since September 2016, TDS and TSS have ranged from 210 to 4,900 mg/L and non-detect to 591 mg/L, respectively.

#### **NEXT REPORTING PERIOD PLANNED ACTIVITIES**

The following activities are anticipated for January 2022:

- Continuation of iron and solids treatment and processing; and
- Routine monthly sampling.

If you have any questions, please do not hesitate to contact me or Jeremy Wyckoff.

Sincerely,

Arcadis of New York, Inc.

Vice President

NYSDEC Site No. 558001 Payson Long January 18, 2022

Copies:

Jeffrey Dyber, NYSDEC Jeremy Wyckoff, P.G., Arcadis Jasmine Mullins, E.I.T., Arcadis Todd Carignan, Arcadis File

Enclosures:

Attachment A – NYSDEC Daily Inspection Reports

**Attachment B** – Arcadis Weekly O&M Logs

Table 1 - December 2021 Treatment System Analytical Data

# ATTACHMENT A NYSDEC Daily Inspection Reports

Report No. 68 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_\_\_ Date: \_12/07/2021\_

**NYSDEC** 

Division of Environmental Remediation





Superintendent:

D009804

NYSDEC PM: Payson Long

**NYSDEC Contract No.** 

Consultant PM: Andy Vitolins, P.G.

Consultant Site Inspectors: Colby

Churchill

Site Location: Hudson Falls, New York

Weather Conditions				
General Description Sunny AM Cloudy P				
Temperature	32 °F	AM	28 °F	PM
Wind	6 MPH WNW	AM	7 MPH W	PM

#### **Health & Safety**

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

#### **Health & Safety Comments**

None at this time.

Summary of Work Performed	Arrived at site:	0830	Departed Site:	1650
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- Payson Long and associates of NYSDEC were on-site from 1115 to 1145 for a site walk.
- Completed prefill, onstream, blowdown, and cake discharge of the Filter Press.
- Containerized one 55-gallon drum of Filter Press Filter Sludge.
- Completed subsequent prefill of the Filter Press.
- Repeatedly transferred sludge from Inclined Plate Clarifier (IPC) to Thickener Tank.
- Performed routine housekeeping and chemical inspection within the Treatment System building.

#### **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA	
Were there any vehicles which were not tarped?	* Yes	No	NA	X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA	Х

#### **Personnel and Equipment**

Individual	Company	Trade		Trade		Total Hours
Colby Churchill	Arcadis	Jr. Enginee	r	8.4		
Equipment Description	Contractor/Vendor		Quantity	Used		

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

\*On-Site scale for off-site shipment, delivery ticket for material received

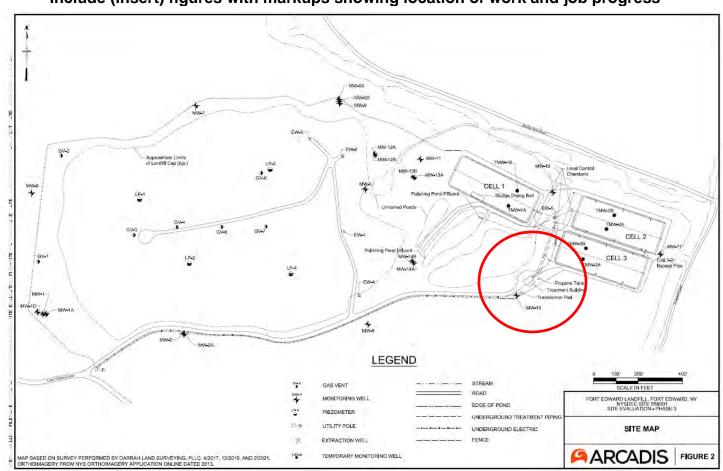
#### **Equipment/Material Tracking Comments:**

None at this time.

Date: \_12/07/2021\_

Visitors to Site					
Name		Representing	Entered Exclusion/CRZ Z		
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
Site Representatives			<u> </u>		
Name		Representing			
Payson Long NYSDEC		NYSDEC			
Project Schedule Comments		<u>.</u>			
None at this time.					
Issues Pending					
None at this time.					
Interaction with Public, Propert	y Owners, Media	a, etc.			
None at this time.					

# Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on December 7, 2021.





# **Site Photographs (Descriptions Below)**





Date: 12/07/2021

View of IPC plates before cleaning.

View of clear IPC discharge.

#### **Comments**

None at this time.

Site Inspector(s): Colby Churchill

# DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		



# **DAILY INSPECTION REPORT**

Page 4 of 4

Report No. 68 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_\_ \_ Date: \_12/07/2021\_

# REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
•	Yes to <u>any</u> of 1-4 above:  If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.  If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a	Yes □	No □
_	precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.  omments: one at this time.		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

Date: 12/14/2021

Report No. 69 Fort Edward Landfill - NYSDEC Site No. 558001

NYSDEC Contract No. **NYSDEC** Department of Environmental D009804 Division of Environmental Remediation Superintendent: Site Location: Hudson Falls, New York NYSDEC PM: Payson Long Weather Conditions Consultant PM: Andy Vitolins, P.G. **General Description** Sunny PMSunny Consultant Site Inspectors: Colby 36 °F AM 48 °F РМ **Temperature** Churchill Wind 8 MPH NNW AM 6 MPH NE PM**Health & Safety** If any box below is checked "Yes", provide explanation under "Health & Safety Comments". Were there any changes to the Health & Safety Plan? \*Yes No Х NA Were there any exceedances of the perimeter air monitoring reported on this date? \*Yes Χ No NA Were there any nuisance issues reported/observed on this date? \*Yes No X NA **Health & Safety Comments** None at this time. **Summary of Work Performed** Arrived at site: 0800 Departed Site: 1705 Competed routine monthly Treatment System sampling. Sample coolers were picked up by Pace courier. Completed onstream, blowdown, and cake discharge of the Filter Press. Containerized one 55-gallon drum of Filter Press Filter Sludge. Completed subsequent prefill and partial onstream of the Filter Press. Repeatedly transferred sludge from Inclined Plate Clarifier (IPC) to Thickener Tank. Performed routine housekeeping and chemical inspection within the Treatment System building. **Equipment/Material Tracking** If any box below is checked "Yes", provide explanation under "Material Tracking Comments". Were there any vehicles which did not display proper D.O.T numbers and placards? \*Yes NA No Were there any vehicles which were not tarped? \* Yes No NA Χ Were there any vehicles which were not decontaminated prior to exiting the work site? Yes No NA Χ Personnel and Equipment Individual Company Trade **Total Hours** Colby Churchill Arcadis Jr. Engineer 9.1 **Equipment Description** Contractor/Vendor Quantity Used Imported/ Daily **Waste Profile** Exported Source or Disposal Daily **Material Description** Delivered Weight off Site Facility (If Applicable) Loads (If Applicable) to Site (tons)\*

Equipment/Material Tracking Comments:

\*On-Site scale for off-site shipment, delivery ticket for material received

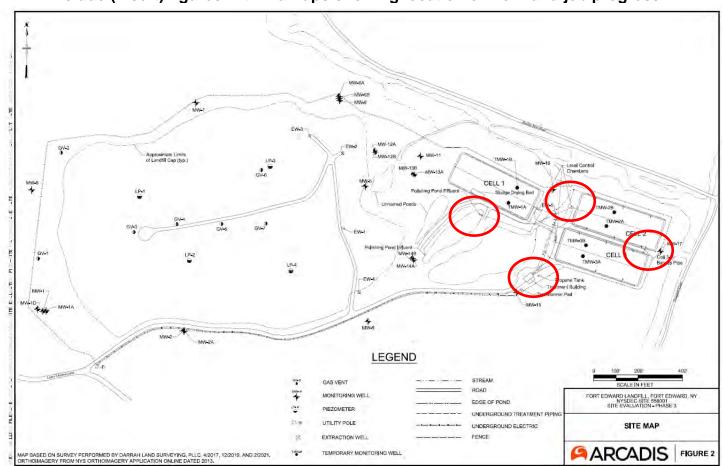
None at this time.



Date: \_12/14/2021\_

Visitors to Site				
Name	Re	presenting	Entered Exclusion/CRZ Zo	
			Yes	No
Site Representatives				<u> </u>
Name		Representing		
Project Schedule Comments		<u>-</u>		
None at this time.				
Issues Pending				
None at this time.				
Interaction with Public, Property	Owners, Media, e	tc.		
None at this time.				

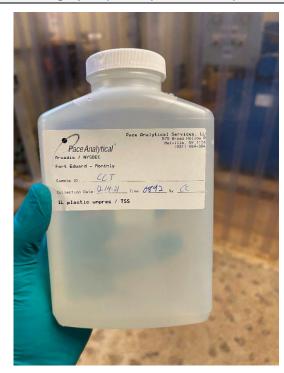
# Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on December 14, 2021.



# **Site Photographs (Descriptions Below)**



View of Clarifier Catch Tank (CCT) sample.



View of Filter Press Filter Sludge during cake discharge.



View of IPC mixing chambers.



View of IPC discharge.

Comments

None at this time.

Site Inspector(s): Colby Churchill

Date: 12/14/2021



# **DAILY INSPECTION REPORT**

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Report No. 69 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_\_ Date: \_12/14/2021\_\_

# DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		

# REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
If \	es to any of 1-4 above:		
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.		
	mments:		
No	ne at this time.		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

Report No. 70 Fort Edward Landfill - NYSDEC Site No. 558001 Date: 12/21/2021

#### **NYSDEC**

Division of Environmental Remediation





#### **NYSDEC Contract No.** D009804

Superintendent:

NYSDEC PM: Payson Long

Consultant PM: Andy Vitolins, P.G.

Consultant Site Inspectors: Colby Churchill, Jasmine Mullins

#### Site Location: Hudson Falls, New York

Weather Conditions					
General Description	Cloudy	AM	Clear	PM	
Temperature	27 °F	AM	32 °F	PM	
Wind	6 MPH NW	AM	5 MPH N	PM	

#### **Health & Safety**

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

#### **Health & Safety Comments**

None at this time.

Summary of Work Performed	Arrived at site:	0755	Departed Site:	2000
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- NIMS plow truck onsite to apply sand to landfill access roads.
- Teal's trailer onsite for delivery of two ARIES 345 Sodium Permanganate 55-gallon drums and four ARIES 2130 Coagulant 55-gal drums.
- Stern's Towing wrecker onsite to tow out Teal's trailer which got stuck in the snow around Cell 3.
- Replaced ARIES 305 (Bleach) with ARIES 345.
- Updated National Fire Protection Association (NFPA) placard outside of the Treatment System building.
- Repeatedly transferred sludge from the Incline Plate Clarifier (IPC) to the Thickener Tank.
- Completed onstream and blowdown of the Filter Press.
- Containerized one 55-gallon drum of Filter Press Filter Sludge.
- Completed subsequent prefill and partial onstream of the Filter Press.
- Repaired a portion of the landfill mid-cap swale gabion caging facing extraction well EW-4.
- Sprayed down the inside of the Clarifier Catch Tank (CCT).
- Performed routine housekeeping within the Treatment System building.

#### **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA	
Were there any vehicles which were not tarped?	* Yes	No	NA	X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA	Х

#### **Personnel and Equipment**

Individual		Company	Trade	Total Hours
	Colby Churchill	Arcadis	Jr. Engineer	12.1
	Jasmine Mullins	Arcadis	Engineer	12.1

Equipment Description	Contractor/Vendor	Quantity	Used

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

<sup>\*</sup>On-Site scale for off-site shipment, delivery ticket for material received

#### **Equipment/Material Tracking Comments:**

None at this time.

Date: 12/21/2021

#### **Project Schedule Comments**

None at this time.

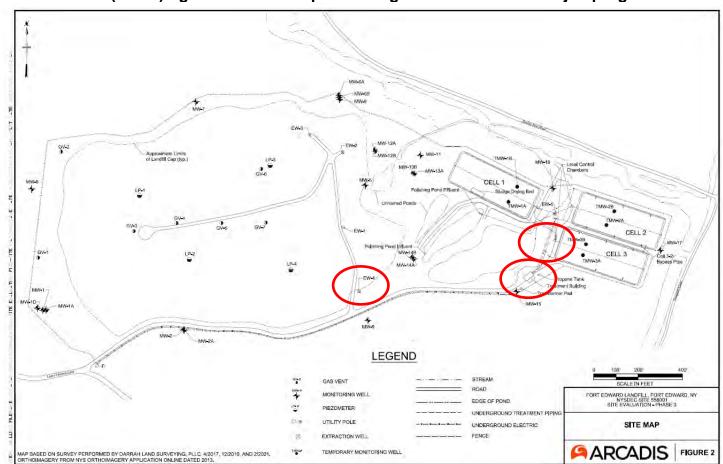
#### **Issues Pending**

None at this time.

Interaction with Public, Property Owners, Media, etc.

None at this time.

# Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on December 21, 2021.





\_\_Date: \_12/21/2021\_

# Site Photographs (Descriptions Below)





Date: 12/21/2021

View of new ARIES 345 drum online.

View of updated NFPA placard.

#### Comments

None at this time.

Site Inspector(s): Colby Churchill, Jasmine Mullins

#### DAILY HEALTH CHECKLIST

Yes ⊠	No □
Yes ⊠	No □
Yes □	No ⊠
	Yes ⊠ Yes ⊠ Yes ⊠ Yes ⊠ Yes ⊠

# **DAILY INSPECTION REPORT**

Page 4 of 4

Report No. 70 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_\_ Date: \_12/21/2021\_

# REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
• If \	Yes to <u>any</u> of 1-4 above:  If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	162	NO L
_	omments:		
No	one at this time.		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

Date: 12/23/2021

Report No. 71 Fort Edward Landfill - NYSDEC Site No. 558001

**NYSDEC Contract No. NYSDEC** Department of Environmental D009804 Division of Environmental Remediation Superintendent: Site Location: Hudson Falls, New York NYSDEC PM: Payson Long **Weather Conditions** Consultant PM: Andy Vitolins, P.G. **General Description** Sunny Cloudy PMConsultant Site Inspectors: Colby 37°F AM 39 °F ΡМ **Temperature** Churchill Wind 5 MPH W AM 3 MPH W PM**Health & Safety** If any box below is checked "Yes", provide explanation under "Health & Safety Comments". Were there any changes to the Health & Safety Plan? \*Yes No Х NA Were there any exceedances of the perimeter air monitoring reported on this date? \*Yes Χ No NA Were there any nuisance issues reported/observed on this date? \*Yes No X NA **Health & Safety Comments** None at this time. **Summary of Work Performed** Arrived at site: Departed Site: 1245 1145 Upon arrival, Aries 345 Sodium Permanganate was dosing as normal. Confirmed proper operation of the Aries 345 dosing pump. Completed inspection of sludge ports, Inclined Plate Clarifier (IPC), Clarifier Catch Tank (CCT), and Polishing Pond. Delivered supplies to the site. **Equipment/Material Tracking** If any box below is checked "Yes", provide explanation under "Material Tracking Comments". Were there any vehicles which did not display proper D.O.T numbers and placards? \*Yes No NA Were there any vehicles which were not tarped? \*Yes No NA X Were there any vehicles which were not decontaminated prior to exiting the work site? \*Yes No NA Χ Personnel and Equipment Individual Trade **Total Hours** Company Colby Churchill Arcadis Jr. Engineer 1.0 **Equipment Description** Contractor/Vendor Quantity Used Imported/ \_ .

Material Description	Delivered to Site	off Site	(If Applicable)	Facility (If Applicable)	Loads	Weight (tons)*
_						

\*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:** 

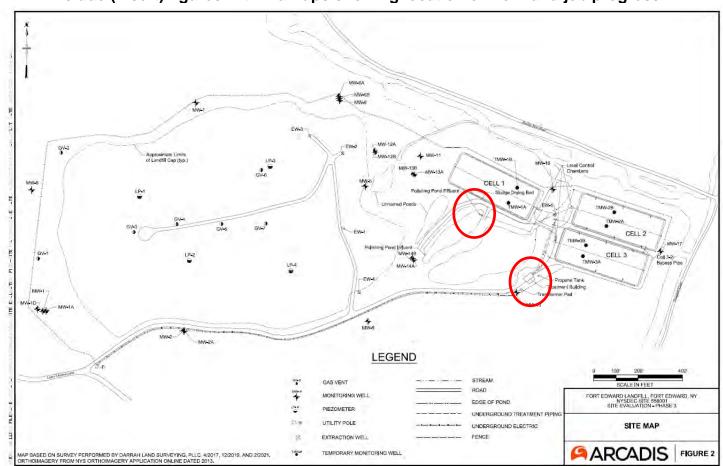
None at this time.



\_\_Date: \_12/23/2021\_

Name	Re	Representing		Exclusion/CRZ Zone
			Yes	No
Site Representatives				
Name		Representing		
Project Schedule Comments		<u>.</u>		
None at this time.				
Issues Pending				
None at this time.				
Interaction with Public, Property (	Owners, Media, e	tc.		
None at this time.	· · · · · · · · · · · · · · · · · · ·			

# Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on December 23, 2021.



# **Site Photographs (Descriptions Below)**





View of Sodium Permanganate pump.

View of clear IPC discharge.

#### Comments

None at this time.

Site Inspector(s): Colby Churchill

Date: 12/23/2021

# DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		

# **DAILY INSPECTION REPORT**

Page 4 of 4

Report No. 71 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_ \_ Date: \_12/23/2021\_\_

# REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
If `	Yes to any of 1-4 above:		
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.		
	omments:		
No	one at this time.		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

Date: 12/28/2021

Report No. 72 Fort Edward Landfill - NYSDEC Site No. 558001

NYSDEC Contract No. **NYSDEC** Department of Environmental D009804 Division of Environmental Remediation Superintendent: Site Location: Hudson Falls, New York NYSDEC PM: Payson Long Weather Conditions Consultant PM: Andy Vitolins, P.G. **General Description** Cloudy Cloudy PMConsultant Site Inspectors: Colby 22 °F AM 35 °F ΡМ **Temperature** Churchill Wind 2 MPH WSW AM 4 MPH SW PM**Health & Safety** If any box below is checked "Yes", provide explanation under "Health & Safety Comments". Were there any changes to the Health & Safety Plan? \*Yes No Χ NA Were there any exceedances of the perimeter air monitoring reported on this date? \*Yes Χ No NA Were there any nuisance issues reported/observed on this date? \*Yes No X NA **Health & Safety Comments** None at this time. **Summary of Work Performed** Arrived at site: 0830 Departed Site: 1715 Completed blowdown of the Filter Press. Completed subsequent prefill, onstream, and partial blowdown of the Filter Press. Repeatedly transferred sludge from Inclined Plate Clarifier (IPC) to Thickener Tank. Transferred approximately 3 inches of coagulant from the old drum into the current drum. Triple rinsed, removed old drum labels, and staged empty drums behind the Treatment System building. Performed routine housekeeping and chemical inspection within the Treatment System building. **Equipment/Material Tracking** If any box below is checked "Yes", provide explanation under "Material Tracking Comments". Were there any vehicles which did not display proper D.O.T numbers and placards? \*Yes NA No Were there any vehicles which were not tarped? \* Yes No NA Χ Were there any vehicles which were not decontaminated prior to exiting the work site? Yes No NA Χ Personnel and Equipment Individual Company Trade **Total Hours** Colby Churchill Arcadis Jr. Engineer 8.8 **Equipment Description** Contractor/Vendor Quantity Used Imported/ Daily **Waste Profile** Exported Source or Disposal Daily **Material Description** Delivered Weight Loads off Site Facility (If Applicable) (If Applicable) to Site (tons)\*

\*On-Site scale for off-site shipment, delivery ticket for material received

**Equipment/Material Tracking Comments:** 

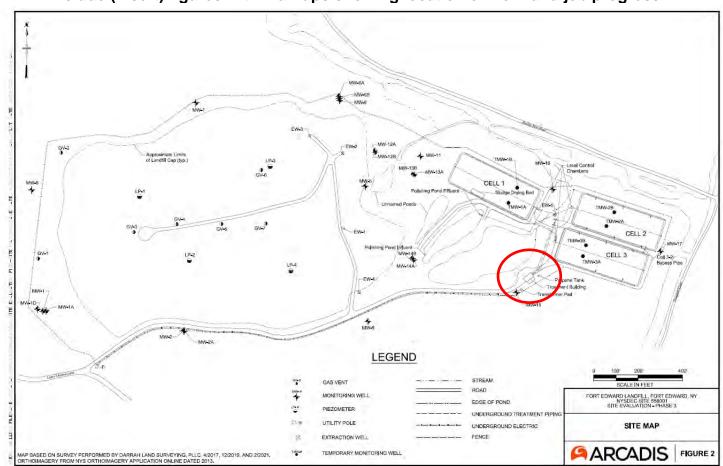
None at this time.



Fort Edward Landfill - NYSDEC Site No. 558001\_\_ \_ Date: \_12/28/2021\_

Visitors to Site	Т				
Name	Representing		Entered Exclusion/CRZ Zone		
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
Site Representatives					
Name		Representing			
Project Schedule Comments		<u>!</u>			
None at this time.					
Issues Pending					
None at this time.					
Interaction with Public, Property C	wners, Media, e	tc.			
None at this time.					

# Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on December 28, 2021.

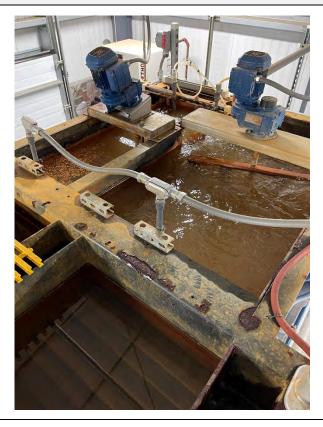


# \_Date: \_12/28/2021\_

# Site Photographs (Descriptions Below)







View of IPC mixing chambers.

#### Comments

None at this time.

Site Inspector(s): Colby Churchill Date: 12/28/2021

# DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		



# **DAILY INSPECTION REPORT**

Page 4 of 4

Report No. 72 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_\_ \_ Date: \_12/28/2021\_

# REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
•	Yes to <u>any</u> of 1-4 above:  If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.  If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a	Yes □	No □
_	precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.  omments: one at this time.		

# **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

# **ATTACHMENT B**

Arcadis Weekly O&M Logs

# Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff:	60	Date: 12	2-7-21

AR	CADIS	Design & Consultancy for natural and built assets
Time:	0830	

IMI SCREENS extraction Wells			Online (Y/N	) Auto	Manual	Flow (gpm)	Level (ft)	(psi)
ump Status/Flow		EW-1	N	-		0.0	13.87	0.0
Run pumps in "Manual" to confirm flow, if r	needed.	EW-2	V	y		21.78	9.98	7.49
Confirm pumps are operating between setp		EW-3	V	V	_	20.40	9-88	NA
Confirm pressure with pump cycling & not h		EW-4	V	V		30.77	9.79	7.12
pumps on, is water flowing into IPC (Y/N)	2 1	EW-5	14	V		NA	9.02	NA
					A POR			
Process - (Check if OK or fill in values)	-4	A2	pH		Auto rotate o	n/off		y-0
Chlorine Alarm status (on/off) A1	011				Discharge pu	ımp operating		
on - record chlorine concentration (ppm)						ımp pressure		
perate exhaust fan manually	-				Building tem			V
T-801 reading (GPM)	38.21				Mixers opera			
chemical rates normal for flow?							y-anhi	ent CI ti
Catch tank display level=actual?				AND DESCRIPTION OF THE PARTY OF	Other Alarms			<b>原以不同观别性在</b>
iltration (Check if OK)						and for	operation	
ir compressor pressure in range				CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	Solenoid stat	us correct for	Operation	The state of the s
ata (Check if OK)							经是投资的	(1) (1) (1) (1) (1)
o Daily & Yesterday Starts make sense				THE PERSON NAMED IN COLUMN TWO IS NOT THE	1000000000000000000000000000000000000			
larms					<b>地方是产生的</b>		<b>斯里斯沙尔斯</b> 伊斯	<b>建筑是到的国际</b>
II Alarms Enabled (Y/N)								
ist any disabled and indicate why	-							
UILDING/GROUNDS				日できたと 一方のいろ 日本の				
ir Compressor (Check if OK)					Check auto	drain operation	on	
ycle times normal for load					Check days	r - alarms? Cy	clina?	
heck oil level at least monthly					HY fan one	rates with con	pressor?	
elt tension								
Init Heaters (Check if OK)					Propage tar	nk level greate	r than 20%	11-38
hermostats set correctly (50-55 F)				+4	1 Topano ta	int io io i g		1
leaters working			TARROW INC. COMMON TO A COMMON					
PC (Y/N)					Check slude	ge ports (Slud	ge Y/N)	y
C discharge clear?	<u> </u>						Upper	Trace
loatables? (take photos if yes)	N				Indicate %		Mid	75%
oag visibly dosing?	<u> </u>				at eac	n port	Lower	100%
loc visibly dosing?	Y							
hemical Feed (Fill in values)		- A Cianal	7.0	# of Full Dr	ums Onsite	0		
05 Bleach Height (In)	15.5"	mA Signal Stroke Rate			ums Onsite	. 0		
120 Coagulant Height (in)	13.5"		0.7. 0	# of Full Ba				
668 Flocculant Volume (gai	18030	Slicke Rate		Chemicals		CUAN +	Flocula	nt
osing pumps at normal rate?	Y The state of the							
loor Sumps (Y/N)					Pump runs	but not emptyi	ng sump?	N
ump levels normal?		(check mont	hlv)			g after pump o		
igh-High level switches operate freely?		(CITOOK IIIOIII	,					
xcessive sludge/sediment?	Think Food	Press Feed	Floc Feed					
iaphragm pumps (Check if OK)	Thick Feed	1	C C					
roper operation/flow								
egulators working properly		-						
xhaust mufflers		高元 [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	<b>的</b> 有一种的一种					
ilter Press (Check if OK)						Sorbent pads		N
vdraulic ram operating normally				Hov	w many total f	illed Haz drum	ns onsite?	2
ydraulic pressure normal				How ma	any Haz drum	s filled & clos	ed today?	
ignificant leaks?		[2] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2						
eneral/Housekeeping		Δ	ny leaks?	N		Waste drums	needed?	N
line down dirty equipment/piping			working?	y		Drum labels	needed?	N
woon and/or wash floors			working?	V		Remov	ed trash?	N
tinguisher inspection (monuny)	1	LAIL SIGNS						
ludge in Clarifier Catch Tank?	<b>ラベルカナ なり きる 地 神 神 神 一 1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			<b>加烈表现是</b>				
counds		stral papala ar	nd cleanoute		Clear woody	vegetation fr	om swales a	and can
Library ctructures wells.	poliaras, cor	ili oi parieis ai	ia oleanouts					oap
w/trim around building, structures, well-					LOOK for dan	nage jencino <i>n</i>	ZHIBS	
rounds ow/trim around building, structures, wells, novel doorways, apply ice melt onfirm gates and doorways locked						nage fencing/g age container	**	



Extraction Well EW-1 EW-2 EW-3 EW-4 EW-5		Flow (gpm) 20 14 20 30 NA	Pressure (psi) 4.5 11 NA 20	Low-Low 2 1 1	Level (off) 3 3 7	Level (on) 10 10 10	High-High 20 25 20 36
Clarifier Catch Tan	k	INA	NA ,	Low-Low 0.5	Level (off)	10 Level (on) 2	20 High-High 3.25

# **Chlorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light.

<b>Chemical Dosing Rates</b>	HMI Setpoint	Stroke CD	Hond CD	Duman Caraan
	r ivii Setpoirit	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 gph	72 - 75

# Discharge Pumps

Typical speed 30-100%
Typical pressure 22 psi @ 100%

# Air compressor

operating range 90-175 psi regulator setpoint 90 psi

Auto drain On 5 seconds every 5 minutes

Dryer Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators	PSI Range
Thickener feed pump	40 psi max
Filter press feed pump	90 psi max
Floc feed pump	40 psi
Filter press hyd pump	
Blowdown	90 psi max

Notes:

# Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: [C Date: 12-14-3]



Check status and compare to normal conditions. See Reverse side for typical operating parameters.

Sump Status/Flow   February   F	HMI SCREENS		0-1 (V/N)	A. da	Manual	Flow (apm)	Lovel (ft)	(psi)
tun pumps in Manual' to confirm flow , if needed.  Confirm pumps are operating between selpoints  EW-3	Extraction Wells	Full	Online (Y/N)	Auto	Manual	Flow (gpm)	Level (ft)	
Confirm pressure operating between selpoints confirm pressure with pump cycling a not highly low promoting a not highly low promoting and the promoting pressure with pump cycling a not highly low promoting pressure with pump cycling a not highly low promoting process. (Check 16 K) of pump and the promoting process. (Check 16 K) of pump and the promoting pump and promoting pump and promoting pump and promoting pump pressure promoting promoting pump pressure promoting promoting pump pressure promoting promoting pump pressure promoting pro								
Confirm pressure with pump cycling & not highlylow pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI) Pumps on, is west flowing in the PC (NI)? Pumps on, is west flowing in the PC (NI) Pumps on, is west flowing in the PC (NI) Pumps on, is well as the PC (NI) Pumps on, is well as the PC (NI) PC (NI				<del></del> -				
Funns on, is water flowing into IPC (YNI)   Forcess. (Check if Ok or fill in values)				<u> </u>	_			
Process - Check if OK or fill in values)  Thomps Alarm status (noriff)  A1				<u> </u>			9.70	
Auto rotate on/off		<u>/</u> EW-5	<u>y</u>	<del>-</del>		NA	6,83	- NA
Discharge pump operating   Discharge pump operation   Discharge pump oper		1	"					
Discharge pump pressure normal Discharge pump pump pressure normal Discharge pump pump pump p		$\frac{\partial H}{\partial x}$ A2	off					
Check if OK)  Daily & Yesterday Starts make sense larms  All Alarms Enabled (Y/N)  List any disabled and indicate why suit large in the properties of the pr	f on - record chlorine concentration (ppm)	-						
Check if OK)  Daily & Yesterday Starts make sense larms  All Alarms Enabled (Y/N)  List any disabled and indicate why suit large in the properties of the pr	Operate exhaust fan manually	1		Dis	charge pu	mp pressure	normal	
Check if OK)  Daily & Yesterday Starts make sense larms  All Alarms Enabled (Y/N)  List any disabled and indicate why suit large in the properties of the pr	FT-801 reading (GPM)	6.42		Bui	Iding temp	accurate		
Salch tank display (evel-exclusion)  Illitration (Check if OK)  Irl compressor pressure in range  Jata (Check if OK)  Jo Early & Yesterday Starts make sense  Alarms  All Alarms Enabled (Y/N)  Jist any disabled and indicate why  BUILDING/GROUNDS  Check alto drain operation Check dryer - alarms? Cycling?  HX fan operates with compressor?  Unit Heaters (Check if OK)  Propane tank level greater than 20%	Chemical rates normal for flow?			Mix	ers operat	ting?	1	
Solenoid status correct for operation    All Alarms Enabled (PIN)  BUILDING/GROUNDS  Air Compressor (Check if OK)  Surp leasters (Check if OK)  Check auto drain operation   Check dury - alarms? Cycling?  Buil Balarms Enabled (PIN)  Surp leasters (Check if OK)  Propane tank level greater than 20%  Float sludge ports (Sludge YIN)  Indicate % of sludge YIN)  Indicate % of sludge ports (Sludge YIN)  Indicate % of sludge ying ying ying ying ying ying ying ying	Catch tank display level=actual?			Oth	ner Alarms	(Y/N)	- ambien	t Chlorise the
Air compressor pressure in range Jata (Check if OK) Do Daily & Yesterday Starts make sense Namms  Namms  Namms Enabled (Y/N) List any disabled and incloate why  Bull DING/GROUNDS  Air Compressor (Check if OK) Cycle times normal for load Check dilver a tleast monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working PC (Y/N) PC (Isocharge clear? PC (Y/N) PC (Isocharge clear? PC (Isocharge clear) PUmp runs but not emptying sump? Pump ru								
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Do Daily & Yesterday Starts make sense Alarms All Alarms Enabled (Y/N) List any disabled and indicate why sull bill bill bill bill bill bill bill b		100000	-	- 100	1	****		
Alarms All Alarms Enabled (YN) List any disabled and indicate why  BUILDING/GROUNDS Air Compressor (Check if OK) Cycle times normal for load Check oil level at least monthly Built Hasinon Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working IPC (YN) IPC discharge clear? Floatables? (take photos if yes) Coag visibly dosing? Floatables? (take photos if yes) Chemical Feed (Fill in values) 305 Bleach Height (in) Bios Bleach Height (in) Bios Bleach Height (in) Bios Bleach Floor Sumps (YN) Sump levels normal? High-High level switches operate freely? High-High level switches operate freely? High-High level switches operate freely? Floatables? Floatables? How many total filled Haz drums onsite High High (Floor Sumps) Floor Sumps (YN) Sump levels normal? High-High level switches operate freely? High-High level switches operate freely? Floatables murities Filter Press (Check if OK) Hydraulic ram operating normally Hydraulic pressure normal Significant leaks? General/Housekeeping Wipe down dirty equipment/ping Fire extinguisher inspection (monthly) Exit signs working? Exit signs working? Exit signs working?  Clear woody vegetation from swales and cap Look for damage fencing/gates								
All Alarms Enabled (YNI) List any disabled and indicate why  Salf Compressor (Check if OK) Cycle times normal for load Check duto drain operation Check dryer - alarms? Cycling? HX fan operates with compressor? Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working PPC (YNI) PPC (YNI) PPC (YNI) PPC (Solar) PRO discharge clear? Floatables? (take photos if yes) Coag visibly dosing? Floatables? (take photos if yes) All Alarms (Floatables) Alarms (Flo	and the second s							
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BUILDING/GROUNDS  Air Compressor (Check if OK) Cycle times normal for load Check oil level at least monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) The Fropane tank level greater than 20% Propane tank level gre		-						
Air Compressor (Check if OK) Cycle times normal for load Check oil level at least monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working PPC (YN) P	List arry disabled and indicate writy							
Cycle times normal for load Check all level at least monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC (discharge clear? Floatables? (take photos if yes) Coaq visibly dosing? Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC (sicharge clear? Floatables? (take photos if yes) Coaq visibly dosing? Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC (sicharge clear? Floatables? (take photos if yes) Coaq visibly dosing? Thermostats set correctly (50-55 F)  Propane tank level greater than 20%  The Cyrin) Indicate % of sludge V/N) Indicate % of sludge Upper (Mid Lower Vision) Indicate % of sludge V/N) Indicate % of sludge Upper (Mid Lower Vision) Indicate % of sludge V/N) Indicate % of sludge Upper (Mid Lower Vision) Indicate % of sludge Upper (Mid Lower Vision) Indicate % of sludge V/N) Indicate % of sludge V/N Indicate % of sludge V/N) Indicate % of sludge V/N Indicate % of s	BUILDING/GROUNDS							
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Belt tension Unit Heaters (Check if OK) Unit Heaters (Check if OK) Heaters working IPC (YN) Heaters working IPC (YN) IPC discharge clear? Floatables? (take photos if yes) Check sludge ports (Sludge Y/N) IPC discharge clear? Floatables? (take photos if yes) Chemical Feed (Fill in values) 305 Bleach Height (in) Belt Stroke Rate 13.0 Coagulant Height (in) Belt Stroke Rate 15.0 Stroke Rate 15.0 Stroke Rate 15.0 Stroke Rate 15.0 Heaters working Indicate % of sludge Y/N) Indicate % of sludge Y/N Indicate % of sludge indicate % of sludge indicate % of Full Drums Onsite Indicate % of sludge y/N Indicate % of sludge indicate % of Full Drums Onsite Indicate % of Full Drums Onsi	Cycle times normal for load							
Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working IPC (7/N) IPC (3charge clear? Floatables? (take photos if yes) Cag visibly dosing? Floatables? (take photos if yes) Chemical Feed (Fill in values) 305 Bleach Bloculant Volume (gal) 7/5 Stroke Rate 3.3.2 Floor Sumps (YIN) Sump levels normal? Floatables working IPC of scharge clear? Floatables? (take photos if yes) Chemical Feed (Fill in values) 305 Bleach Volume (gal) 7/5 Stroke Rate 3.3.2 Floatables (take photos if yes) Chemical Feed (Fill in values) 305 Bleach Volume (gal) 7/5 Stroke Rate 3.3.2 Floatables (take photos if yes) Chemical Feed (Fill or was one) Chemical Feed (Fill or was one) Indicate % of sludge Y/N) Indicate % of sludge Y/N) Indicate % of sludge Y/N) Indicate % of sludge y/N Indi								
Thermostats set correctly (50-55 F) Heaters working  PC (YN)    PC (Isokaprage clear?	Belt tension	V		H	X fan ope	erates with co	mpressor?	
Thermostats set correctly (50-55 F) Heaters working  PC (YN)    PC (Isokaprage clear?	Unit Heaters (Check if OK)							
Heaters working  PCP (Y/N)    PC (Jischarge clear?				F	ropane ta	nk level grea	ter than 20%	1-68
IPC (Y/N)   IPC discharge clear?   Y	그리고 그리고 있는 그들은 그는 그들은 그리고 그리고 있는 그리고 있는 것이 없는 것이다.							1
Check sludge ports (Sludge YN)   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge YN)   Indicate % of sludge at each port   Check sludge ports (Sludge Yn)   Indicate % of sludge at each port   Check sludge ports (Sludge Yn)   Indicate % of sludge at each port   Check sludge ports (Sludge Yn)   Indicate % of sludge at each port   Check sludge ports (Sludge Yn)   Indicate % of sludge at each port   Check sludge yn								
Indicate % of sludge at each port   Indicate % of sludge   Indicate % of s		y		(	Check sluc	lge ports (Slu	idge Y/N)	
Coag visibly dosing? Floc visibly dosing? Floc visibly dosing?  Any leaks?  Waste drums onsite?  Any leaks?  Waste drums needed?  Waste		N			Indicate 9	6 of sludge	Upper	trace
Floc visibly dosing?  Chemical Feed (Fill in values)  305 Bleach Height (in) 8.5 Stroke Rate 2130 Coagulant Height (in) 8.5 Stroke Rate 2130 Coagulant Height (in) 8.5 Stroke Rate 2130 Coagulant Height (in) 8.5 Stroke Rate 2130 Extractly a few processors of the processor of the	Coag visibly dosing?	У					Mid	75%
Chemical Feed (Fill in values)  305 Bleach Height (in) 8.5 Stroke Rate 2.3.2 # of Full Drums Onsite 0  2130 Coagulant Height (in) 8.5 Stroke Rate 2.3.2 # of Full Drums Onsite 0  1668 Flocoulant Volume (gal) 7.7 Stroke Rate 1/30 # of Full Bags Onsite Chemicals needed? Coag + bleach have been Over 1/40 been Over 1/40 been 0 over 1/40 been 0 over 1/40 been 0 over 1/40 been 0 over 1/40 been 1/40 been 0 over 1/40 been		Y			al ca	on port	Lower	100%
2130 Coagulant  Height (in)  S-5  Stroke Rate  1668 Flocculant  Volume (gal)  155  Stroke Rate  150  # of Full Bags Onsite Chemicals needed?  N  Decay + blegth hare been of the permitted of the	Chemical Feed (Fill in values)							
2130 Coagulant Height (in) 8.5 Stroke Rate 23.2 # of Full Drums Onsite Volume (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 3/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 4/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 4/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 4/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 4/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Coag + bkgck have been Owner (gal) 4/5 Stroke Rate 23.2 # of Full Bags Onsite Chemicals needed? Pull Bags Onsite Chemicals needed? Pull Bags Onsite Chemicals needed? Average for Full Ba	305 Bleach Height (in)	6.5 mA Sign	al 7.4	# of Full Drum	ns Onsite	0		
# of Full Bags Onsite Chemicals needed?   Tobal Press Feed Floor Feed Press Feed Floor Feed Press (Check if OK) Hydraulic ram operating normall Phydraulic pressure normal Phydraulic p			ate 23. 2	# of Full Drum	ns Onsite	0		
Dosing pumps at normal rate?  Floor Sumps (Y/N)  Sump levels normal?  High-High level switches operate freely?  Excessive sludge/sediment?  Diaphragm pumps (Check if OK)  Proper operation/flow  Regulators working properly  Exhaust mufflers  Filter Press (Check if OK)  Hydraulic ram operating normally  Hydraulic pressure normal  Significant leaks?  General/Housekeeping  Wipe down dirty equipment/piping  Sweep and/or wash floors  Fire extinguisher inspection (monthly)  Sludge in Clarifier Catch Tank?  Mount of the sum of the				# of Full Bags		1		
Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment? Piaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK) Hydraulic ram operating normally Hydraulic pressure normal Significant leaks? General/Housekeeping Wipe down dirty equipment/piping Sweep and/or wash floors Fire extinguisher inspection (monthly) Sludge in Clarifier Catch Tank? Grounds Mow/trim around building, structures, wells, bollards, control panels and cleanouts Shovel doorways, apply ice melt  Pump runs but not emptying sump?  Pump runs but not emptying sump?  Av  Pump runs but not emptying sump.  Av  Pump runs but not emptying sump.  Av  Pump runs but not empty supple sump.  Av  Pump runs but not empty sump.  Av  Pump runs but not empty sump.  Av  Pump runs but not empty sump.  Av  Pump	그렇게 이렇게 하는데 가게 하고 있다. 이렇게 하는데		1-	Chemicals ne	eded?	Coag + bkg	ach have	been unde
Sump levels normal?  High-High level switches operate freely?  Excessive sludge/sediment?  Diaphragm pumps (Check if OK)  Proper operation/flow  Regulators working properly  Exhaust mufflers  Filter Press (Check if OK)  Hydraulic ram operating normally  Hydraulic pressure normal  Significant leaks?  General/Housekeeping  Wipe down dirty equipment/piping  Sweep and/or wash floors  Fire extinguisher inspection (monthly)  Sudge in Clarifier Catch Tank?  Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt								
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Excessive sludge/sediment?  Diaphragm pumps (Check if OK)  Thick Feed Press Feed Floc Feed  Proper operation/flow  Regulators working properly  Exhaust mufflers  Filter Press (Check if OK)  Hydraulic ram operating normally  Hydraulic pressure normal  Significant leaks?  General/Housekeeping  Wipe down dirty equipment/piping  Wipe down dirty equipment/piping  Sweep and/or wash floors  Fire extinguisher inspection (monthly)  Sludge in Clarifier Catch Tank?  Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt  Note Floc Feed  Av  Sorbent pads replaced?  Av  How many total filled Haz drums onsite?  Av  How many Haz drums filled & closed today?  I Sudde in Clarifier Catch Tank?  Av  Clear woody vegetation from swales and cap  Look for damage fencing/gates	[2012] [1914] [1912] [1914] [1914] [1914] [1914] [1914] [1914] [1914] [1914] [1914] [1914] [1914] [1914] [1914	y (check m	nonthly)	E	Back flowing	ng after pump	cycle?	
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Significant leaks?  General/Housekeeping  Wipe down dirty equipment/piping  Sweep and/or wash floors  Fire extinguisher inspection (monthly)  Sludge in Clarifier Catch Tank?  Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt  How many Haz drums filled & closed today?  Waste drums needed?  Lights working?  Exit signs working?  Exit signs working?  Clear woody vegetation from swales and cap  Look for damage fencing/gates		V						3
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Wipe down dirty equipment/piping Sweep and/or wash floors Lights working? Fire extinguisher inspection (monthly) Sludge in Clarifier Catch Tank?  Grounds Mow/trim around building, structures, wells, bollards, control panels and cleanouts Shovel doorways, apply ice melt  Any leaks? Lights working?  Exit signs working?  Exit signs working?  Clear woody vegetation from swales and cap Look for damage fencing/gates			ACCURATION AND ADDRESS OF THE PARTY OF THE P					
Sweep and/or wash floors  Fire extinguisher inspection (monthly)  Sludge in Clarifier Catch Tank?  Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt  Lights working?  Exit signs working?  Exit signs working?  Clear woody vegetation from swales and cap  Look for damage fencing/gates	ALL STATES OF A STATES OF A STATE	V.	Any leaks?	N.		Waste dru	ms needed?	N
Fire extinguisher inspection (monthly)  Sludge in Clarifier Catch Tank?  Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt  Exit signs working?  Removed trash?  V  Clear woody vegetation from swales and cap  Look for damage fencing/gates		L						N
Sludge in Clarifier Catch Tank?  Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt  Clear woody vegetation from swales and cap  Look for damage fencing/gates				1		GEN GAL STEEL		
Grounds  Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Shovel doorways, apply ice melt  Clear woody vegetation from swales and cap Look for damage fencing/gates								
Mow/trim around building, structures, wells, bollards, control panels and cleanouts  Clear woody vegetation from swales and cap Look for damage fencing/gates								
Shovel doorways, apply ice melt  Look for damage fencing/gates		ollards, control pane	els and cleanou	ts	Clear woo	dy vegetation	from swales	and cap
Chotol doctriaje, apply to more		Sustant Solition parte						
	Confirm gates and doorways locked							



<b>Extraction Well</b>	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
EW-1	20	4.5	2	3	10	20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	0	7	10	36
EW-5	NA	NA	1	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
Clarifler Catch Tank			0.5	1	2	3.25

#### **Chlorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

Chemical Dosing Rates	HMI Setpoint	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 gph	72 - 75

**Discharge Pumps** 

Typical speed 30-100%
Typical pressure 22 psi @ 100%

Air compressor

operating range regulator setpoint 90-175 psi 90 psi

90 psi max

Auto drain

On 5 seconds every 5 minutes

Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators PSI Range
Thickener feed pump 40 psi max
Filter press feed pump 90 psi max
Floc feed pump 40 psi
Filter press hyd pump

Blowdown

Notes:

- Monthly	Samples	collected	holay
		111	

# Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: CC + JM

Date: 12-21-21

ARCADIS for natural and built assets

Check status and compare to normal conditions. See Reverse side for typical operating parameters.

HMI SCREENS				
Extraction Wells	Online (Y/N	) Auto Manual	Flow (gpm) Level (ft)	(psi)
Pump Status/Flow	EW-1 1		0.0 14.04	0.0
Run pumps in "Manual" to confirm flow, if needed.	EW-2	- Y	21.40 4.77	9.24
Confirm pumps are operating between setpoints	EW-3	y -	19.60 9.87	NA
Confirm pressure with pump cycling & not high/low	EW-4	'y -	30.77 7.77	8.54
If pumps on, is water flowing into IPC (Y/N)?	EW-5	<u> </u>	NA 7.62	NA
Process - (Check if OK or fill in values)				-
Chlorine Alarm status (on/off) A1 OFF	A2 <b>aff</b>	Auto rotate o	on/off	V
If on - record chlorine concentration (ppm)		Discharge p	ump operating	
Operate exhaust fan manually	_		ump pressure normal	
FT-801 reading (GPM) 35. 5	54	Building tem		
Chemical rates normal for flow?		Mixers opera		
Catch tank display level=actual?	_	Other Alarm	e (V/N) V - a.b.	nt Cl Frans.
		Other Alaim	3 (1/14)	AT CE 17403.
Filtration (Check if OK)		Calamaid ata	tue correct for energion	
Air compressor pressure in range	_	Soleriold sta	itus correct for operation	
Data (Check if OK)				
Do Daily & Yesterday Starts make sense				
Alarms				
All Alarms Enabled (Y/N)	-			
List any disabled and indicate why				_
BUILDING/GROUNDS				
Air Compressor (Check if OK)				
Cycle times normal for load		Check aut	to drain operation	
Check oil level at least monthly		Check dry	er - alarms? Cycling?	~
Belt tension		HX fan op	erates with compressor?	
Unit Heaters (Check if OK)				
Thermostats set correctly (50-55 F)		Propane to	ank level greater than 20%	V-55%
Heaters working				
IPC (Y/N)				
IPC discharge clear?		Check slu	dge ports (Sludge Y/N)	V
Floatables? (take photos if yes)		Indicato	% of sludge Upper	trace
Coag visibly dosing?				100%
Floc visibly dosing?		at ea	ach port Lower	100%
Chemical Feed (Fill in values)		A STATE OF THE STA		
305 Bleach Height (in) < 0.25	" mA Signal 7.5	# of Full Drums Onsite	0: NaM NO	is brown to
2130 Coagulant Height (in) 4.5		# of Full Drums Onsite	4	1, 1
1668 Flocculant Volume (gal) 350		# of Full Bags Onsite	-1	
Dosing pumps at normal rate?		Chemicals needed?		
Floor Sumps (Y/N)			CANADA TO THE TAXABLE TO	
Sump levels normal?	S. Tribelle F. H. H.	Pump runs	s but not emptying sump?	N
High-High level switches operate freely?	(check monthly)	Back flowi	ing after pump cycle?	N
Excessive sludge/sediment?				
Diaphragm pumps (Check if OK) Thick Fe	ed Press Feed Floc Feed			
Proper operation/flow	1/			
Regulators working properly				
Exhaust mufflers				
Filter Press (Check if OK)		19.0		E ST
Hydraulic ram operating normally			Sorbent pads replaced?	N
Hydraulic pressure normal		How many tota	I filled Haz drums onsite?	4
Significant leaks?	=		ıms filled & closed today?	1
General/Housekeeping				
Wipe down dirty equipment/piping	Any leaks?	N	Waste drums needed?	N
Sweep and/or wash floors	Lights working?	V	Drum labels needed?	N
Fire extinguisher inspection (monthly)	Exit signs working?		Removed trash?	N
Sludge in Clarifier Catch Tank?	_			
Grounds				
Mow/trim around building, structures, wells, bollards	s, control panels and cleanou	ts Clear woo	dy vegetation from swales	and cap
Shovel doorways, apply ice melt	A Charle Boston of Bullet Street 187		amage fencing/gates	
Confirm gates and doonways locked			torage container looked	



Extraction Well	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
EW-1	20	4.5	2	3	10	20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	. 0 *	7	10	36
EW-5	NA	NA	1 '4	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
<b>Clarifier Catch Tank</b>			0.5 🐪	1	2 -	3.25

#### **Chlorine Alarm**

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A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

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1668 Flocculant	0.20%	100	2.47 gph	72 - 75
Diecharge Pumps				

Discharge Pumps

Typical speed 30-100% 22 psi @ 100% Typical pressure

Air compressor

operating range regulator setpoint 90-175 psi 90 psi

On 5 seconds every 5 minutes

Auto drain Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

**PSI** Range Regulators 40 psi max Thickener feed pump Filter press feed pump 90 psi max 40 psi Floc feed pump

Filter press hyd pump

Blowdown

90 psi max

Notes:		2 20				to T.T.
		Sludge	ports	were:	upper	· 0%
		•			mid -	50%
					lover-	> 80%
	- Replaced	bleach	diam	w/	new down	mixture
	of 1	2 20)	Acies 36	15 + 4	baal wa	te.
	Starting	to tone	diva	height	= 30.25"	
				9		

#### Fort Edward Landfill - Weekly Operation and Maintenance Checklist 12-28-21 Date: Time: Check status and compare to normal conditions. See Reverse side for typical operating parameters. **HMI SCREENS Extraction Wells** Online (Y/N) Auto Manual Flow (gpm) Pump Status/Flow (psi) EW-1 0.0 Run pumps in "Manual" to confirm flow , if needed. EW-2 Confirm pumps are operating between setpoints EW-3 Confirm pressure with pump cycling & not high/low EW-4 If pumps on, is water flowing into IPC (Y/N)? EW-5 Process - (Check if OK or fill in values) Chlorine Alarm status (on/off) A2 Auto rotate on/off If on - record chlorine concentration (ppm) Discharge pump operating Operate exhaust fan manually

	FT-801 reading (GPM) Chemical rates normal for flow? Catch tank display level=actual? Filtration (Check if OK)	40.10		Discharge pu Building tem Mixers opera Other Alarms	iting?	N
	Air compressor pressure in range Data (Check if OK) Do Daily & Yesterday Starts make sense Alarms			Solenoid stat	tus correct for operation	
	All Alarms Enabled (Y/N) List any disabled and indicate why	1-				
345	Air Compressor (Check if OK) Cycle times normal for load Check oil level at least monthly Belt tension Unit Heaters (Check if OK) Thermostats set correctly (50-55 F) Heaters working IPC (Y/N) IPC discharge clear? Floatables? (take photos if yes) Coag visibly dosing? Floc visibly dosing? Chemical Feed (Fill in values) 205 Bleach Va Ma Cy 2130 Coagulant Height (in) Height (in) Volume (gal	Y N Y 33.0" 375 ad	mA Signal Stroke Rate Stroke Rate (21. 6	Check drye HX fan ope Propane tai		y - 40%.  Y trace 80%. 100%.
	Ploor Sumps at normal rate? Floor Sumps (Y/N) Sump levels normal?	- y	The Hale _ {2}	Chemicals needed?	but not emptying sump?	
	High-High level switches operate freely? Excessive sludge/sediment? Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK)	Thick Feed	(check monthly)  Press Feed Floc Feed	Back flowing	g after pump cycle?	
	Hydraulic ram operating normally Hydraulic pressure normal Significant leaks? General/Housekeeping	1		How many total f	Sorbent pads replaced? illed Haz drums onsite? s filled & closed today?	N
	Wipe down dirty equipment/piping Sweep and/or wash floors Fire extinguisher inspection (monthly) Sludge in Clarifier Catch Tank?	N	Any leaks? Lights working? Exit signs working?	N	Waste drums needed? Drum labels needed? Removed trash?	N Y

Grounds Mow/trim around building, structures, wells, bollards, control panels and cleanouts Shovel doorways, apply ice melt Confirm gates and doorways locked

Clear woody vegetation from swales and cap Look for damage fencing/gates Confirm storage container locked

#### Fort Edward Landfill - Typical Operating Parameters



	Extraction Well	Flow (gpm)	Pressure (psi)	L	ow-Low	Level (off)	Level (on)	High-High
	EW-1	20	4.5		2	3	10	20
	EW-2	14	11		1	3	10	25
	EW-3	20	NA		1	3	10	20
	EW-4	30	20		0	7	10	36
	EW-5	NA	NA		1	3	10	20
				L	ow-Low	Level (off)	Level (on)	High-High
(	Clarifier Catch Tank				0.5	1	2	3.25

#### **Chlorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

Chemical Dosing Rates	HMI Setpoint	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 gph	72 - 75

**Discharge Pumps** 

Typical speed 30-100% Typical pressure 22 psi @ 100%

Air compressor

operating range regulator setpoint 90-175 psi 90 psi

Auto drain On 5 seconds every 5 minutes

Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators

Thickener feed pump Filter press feed pump Floc feed pump

**PSI** Range 40 psi max 90 psi max 40 psi

Filter press hyd pump

Blowdown

90 psi max

N	^	٠	۵	•	٠

	2 0/4

# **TABLES**



Value   Valu	Location	Influent	Clarifier Catch	Cell 3 Bypass	Cell 2 Effluent	Fort Edward SPDES Equivalency	Polishing Pond Effluent
AGETONE BENZENE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMODICHLOROMETHANE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMODICHLOROMETHANE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMOFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMOFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMOFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMOFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U BROMOFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CARBON DISULFIDE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CARBON DISULFIDE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLOROBENZENE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLOROBENZENE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLORODIROMOMETHANE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLOROTHANE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLOROFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLOROFORM 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U CHLOROFORM 1.0 U 1.0	Date	12/14/2021	12/14/2021	12/14/2021	12/14/2021	Permit Limit	12/14/2021
BENZENE	Volatile Organic Compounds (μg/L)						
BROMOFICHLOROMETHANE	ACETONE	3.3 J	7.6	5.0 U	4.0 J		3.8 J
BROMOFICHLOROMETHANE		1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
BROMOFORM		1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
BROMOMETHANE		1.0 U	1.0 U	1.0 U	1.0 U		
2-BUTANONE (MEK)		1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CARBON DISULFIDE	2-BUTANONE (MEK)		5.0 U	5.0 U	5.0 U		5.0 U
CARBON TETRACHICRIDE							
CHLOROBENZENE							
CHLORODIBROMOMETHANE							
CHLOROFETHANE							
CHLOROFORM						20	
CHLOROMETHANE							
CYCLOHEXANE							
12-DIBROMO-3-CHLOROPROPANE							
1.2-DIBROMOETHANE (ETHYLENE DIBROMIDE)							
12-DICHLOROBENZENE							
1.3-DICHLOROBENZENE	, ,						
1.4-DICHLOROBENZENE							
DICHLOROBROMMETHANE							
DICHLORODIFLUOROMETHANE							
1.1-DICHLOROETHANE							
1,2-DICHLOROETHANE 1,0 U 1,0 U 1,0 U 1,0 U 1,0 U 1,0 U 1,1-DICHLOROETHENE 1,0 U 1,0							
1,1-DICHLOROETHENE							
CIS-1,2-DICHLOROETHENE							
TRANS-1,2-DICHLOROETHENE	•						
1,2-DICHLOROETHENE (TOTAL) 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 30 1,2-DICHLOROPROPANE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,2-DICHLOROPROPENE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,2-DICHLOROPROPENE 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1,0 U 1.0 U 1,0 U 1.0 U 1,0 U 1.0 U 1,0 U 1.0 U 1,0 U 1.0 U 1,0 U 1.0 U 1,1,1,2-TERACHLOROETHANE 1.0 U 1,1,1,2-TRICHLOROETHANE 1.0 U 1,1,1,2-TRICHLOROETHANE 1.0 U 1,1,1,2-TRICHLOROETHANE 1.0 U 1,1,1,2-TRICHLOROETHANE 1.0 U 1,1,1,2-TRICHLOROETHANE 1.0 U	·						
1,2-DICHLOROPROPANE							
CIS-1,3-DICHLOROPROPENE							
TRANS-1,3-DICHLOROPROPENE							
ETHYLBENZENE	·						
2-HEXANONE	·						
ISOPROPYLBENZENE (CUMENE)							
METHYL ACETATE       1.0 U       1.0 U       1.0 U       1.0 U        1.0 U         METHYL TERT-BUTYL ETHER (MTBE)       1.0 U       1.0 U       1.0 U       1.0 U       1.0 U        1.0 U         METHYL CYCLOHEXANE       1.0 U        1.0 U         METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)       5.0 U       1.0 U       1.0 U       1.0 U <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
METHYL TERT-BUTYL ETHER (MTBE)       1.0 U	,						
METHYL CYCLOHEXANE       1.0 U       1.0 U </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
METHYLENE CHLORIDE							
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)         5.0 U         5.0 U         5.0 U         5.0 U         5.0 U          5.0 U           STYRENE         1.0 U							
STYRENE         1.0 U         <							
1,1,1,2-TETRACHLOROETHANE       1.0 U	,				0.0		
TETRACHLOROETHENE (PCE)  1.0 U  1.0 U							
TOLUENE         1.0 U         <	, , ,	1.0 U					
1,2,4-TRICHLOROBENZENE       1.0 U       1.0	` '						
1,1,1-TRICHLOROETHANE       1.0 U       1.0							
1,1,2-TRICHLOROETHANE       1.0 U       1.0							
TRICHLOROETHENE (TCE)       1.0 U       1.0							
TRICHLOROFLUOROMETHANE         1.0 U         50         1.0 U           XYLENES, TOTAL         3.0 U         3.0		1.0 U	1.0 U				1.0 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE       1.0 U       1.0 U       1.0 U       1.0 U        1.0 U         VINYL CHLORIDE       1.0 U       1.0 U       1.0 U       1.0 U       1.0 U       50       1.0 U         XYLENES, TOTAL       3.0 U         TOTAL VOCs       3.3       12.5       ND       4.0        3.8	TRICHLOROETHENE (TCE)	1.0 U	1.0 U		1.0 U		1.0 U
VINYL CHLORIDE         1.0 U         1.0 U         1.0 U         1.0 U         50 U         1.0 U           XYLENES, TOTAL         3.0 U         3.0 U         3.0 U         3.0 U          3.0 U           TOTAL VOCs         3.3         12.5         ND         4.0          3.8	TRICHLOROFLUOROMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
XYLENES, TOTAL         3.0 U         3.0 U         3.0 U         3.0 U          3.0 U           TOTAL VOCs         3.3         12.5         ND         4.0          3.8	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1.0 U	1.0 U		1.0 U		1.0 U
TOTAL VOCs 3.3 12.5 ND 4.0 3.8	VINYL CHLORIDE	1.0 U	1.0 U		1.0 U	50	1.0 U
	XYLENES, TOTAL	3.0 U	3.0 U	3.0 U	3.0 U		3.0 U
	TOTAL VOCs	3.3	12.5	ND	4.0		3.8

#### Notes:

Constitutents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit at the Polishing Pond Effluent are highlighted in yellow.

1,2-dichloroethene (total) is the sum of cis-1,2,-dichloroethene and trans-1,2-dichloroethene.

#### **Definitions:**

J - The concentration is an approximate value.

 $\mu \text{g/L}$  - micrograms per liter.

ND - Non-detect.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

<sup>&</sup>quot;--" - Value does not exist for analyte.



Location	Influent	Clarifier Catch	Cell 3 Bypass	Cell 2 Effluent	Fort Edward SPDES Equivalency	Polishing Pond Effluent
Date	12/14/2021	12/14/2021	12/14/2021	12/14/2021	Permit Limit	12/14/2021
Polychlorinated Biphenyls (μg/L)						
PCB-1016 (AROCLOR 1016)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
PCB-1221 (AROCLOR 1221)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
PCB-1232 (AROCLOR 1232)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
PCB-1242 (AROCLOR 1242)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
PCB-1248 (AROCLOR 1248)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
PCB-1254 (AROCLOR 1254)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
PCB-1260 (AROCLOR 1260)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
Metals (mg/L)						
ALUMINUM	2.08	0.862	0.2 U	0.0538 J		0.0621 J
ANTIMONY	0.06 U	0.06 U	0.06 U	0.06 U		0.06 U
ARSENIC	0.01 U	0.01 U	0.01 U	0.01 U	0.15	0.01 U
BARIUM	0.0331 J	0.0282 J	0.0198 J	0.0402 J	3.5	0.0269 J
BERYLLIUM	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U
CADMIUM	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.001	0.0025 U
CALCIUM	71.8	73.6	69.4	90.3		84
CHROMIUM, TOTAL	0.01 U	0.01 U	0.01 U	0.01 U	0.21	0.0019 J
COBALT	0.05 U	0.05 U	0.05 U	0.05 U	0.005	0.05 U
COPPER	0.025 U	0.004 J	0.025 U	0.025 U	0.024	0.025 U
IRON	10.6	1.52	1.84	10.3	0.3	0.836
LEAD	0.005 U	0.005 U	0.005 U	0.005 U	0.0032	0.005 U
MAGNESIUM	17.6	17.8	12.7	15.8		16.2
MANGANESE	1.27	1.11	0.326	1.05		0.122
MERCURY	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0008	0.0002 U
NICKEL	0.025 J	0.0247 J	0.0173 J	0.0136 J	0.0096	0.017 J
POTASSIUM	2.56 J	2.36 J	6.7	2.01 J		2.9
SELENIUM	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U
SILVER	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U
SODIUM	47.7	49.4	31.3	30.6		32.8
THALLIUM	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U
VANADIUM	0.05 U	0.05 U	0.05 U	0.05 U	0.014	0.05 U
ZINC	0.0156 J	0.0237 J	0.02 U	0.02 U	0.17	0.02 U
Conventional Chemistry (mg/L)						
TOTAL DISSOLVED SOLIDS	570	484	402	490	500	436
TOTAL SUSPENDED SOLIDS	28	6.4	10 U	10 U	50	10

# Notes:

Constitutents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit at the Polishing Pond Effluent are highlighted in yellow.

#### **Definitions:**

J - The concentration is an approximate value.

mg/L - milligrams per liter.

 $\mu g/L$  - micrograms per liter.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

<sup>&</sup>quot;--" - Value does not exist for analyte.

<sup>1,2-</sup>dichloroethene (total) is the sum of cis-1,2,-dichloroethene and trans-1,2-dichloroethene.



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