

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

www.arcadis.com

Subject:

2022Landfill Inspection Report Fort Edward Landfill NYSDEC Site No. 558001 Contract No. D009804-7

Date:

February 20, 2023

Dear Mr. Long:

Arcadis of New York, Inc. (Arcadis) has prepared this letter report to summarize the annual landfill inspection completed on November 1, 2022 at the above-referenced site (Figure 1). The inspection form and accompanying site photograph log are included as Attachment A. In accordance with the Site Management Plan, the following items were assessed during the inspection:

Contact:

Andy Vitolins, P.G.

Phone:

518.250.7300

A. Landfill Cap and Closure Turf

- Erosion or damage such as exposed geomembrane;
- · Unwanted vegetation; and
- Settlement or low spots in cap system.

Email:

andy.vitolins@arcadis.com

Our ref: 30055713

B. Site Drainage System

- Erosion or damage to swales;
- · Obstructions or sedimentation in swales; and
- · Evidence of ponded water.

C. Monitoring Wells

- Damage to protective casings and concrete collars;
- Erosion of soils in the immediate area of the casings;
- Security of casing locks; and
- Damage to well seals.

NYSDEC Site No. 558001 Payson Long February 20, 2023

As detailed in the inspection form and shown in the photograph log, the following areas of concern were noted:

- Damaged PVC drain piping for cap drainage system.
- Burrowing rodent hole observed on the west side of the landfill cap.
- Iron staining and slight ponding of water was observed in the southern mid-cap swale.
- Vegetation growth in the perimeter drainage swales.

Arcadis will repair the damaged PVC drain piping as part of routine O&M and rodent burrows will be backfilled and monitored for new activity.

Iron staining and ponding in the mid-cap swale has been occurring since at least 2015. Arcadis removed sediment and vegetation and placed new riprap in portions of the mid-cap swale in June 2022. The condition of the swale will continue to be monitored but regrading of the swale may be necessary to restore proper flow.

Vegetation removal from the perimeter swales is currently planned for fall 2023.

All other areas of the landfill appeared to be in acceptable condition.

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

Sincerely,

Arcadis of New York, Inc.

Andy Vitolins, P.G. Vice President

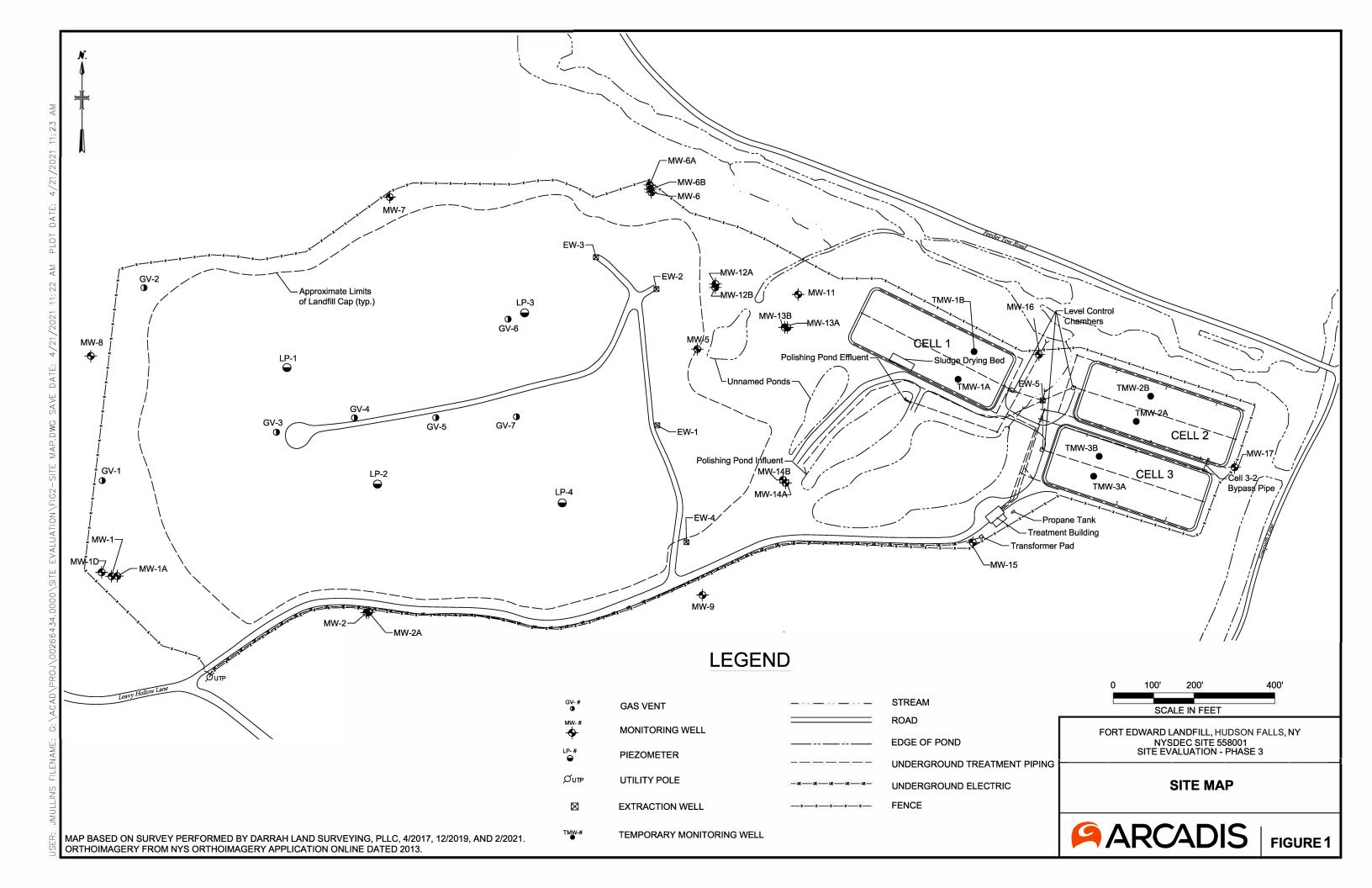
Copies:

Jeffrey Dyber, NYSDEC Jeremy Wyckoff, P.G., Arcadis Todd Carignan, Arcadis File

Enclosures:

Figure 1 - Site Map

Attachment A – Landfill Inspection Form and Photo Log



FORT EDWARD LANDFILL NYSDEC SITE 558001 POST CLOSURE INSPECTION FORM

Date: Weather:		11/1/2022 P. Cloudy ~55F		
wea	mer:	F. Cloudy ~33F		
<u>Chec</u>	<u>klist</u>			
A.	Capp	ed Area		
Capp	ed area	will be inspected by traversing the cover and examining for	the follow	ing items:
			<u>No</u>	<u>Yes</u>
	1.	Is there bare, dead or damaged grassed area?	<u>X</u>	
	2.	Is there evidence of cracks or subsidence?	<u>X</u>	
	3. 4.	Is there evidence of burrowing by animals? Is there any deep-rooted vegetation present?	<u></u>	<u>X</u> <u>X</u>
	4. 5.	Is there any deep-rooted vegetation present: Is there any erosion damage to grassed areas?		
	6.	Is there any low spots or settlement in cap system?	<u>X</u> <u>X</u>	
Com	ments	(Required for each Yes answer)		
COIII		ow on north central slope of landfill (photo).		
		tation in perimeter swales.		
B.	Site l	Drainage System		
The	drainage	e system will be inspected by traversing the full length of the s	system and	examining
	ne follov		y social direct	····-
			<u>No</u>	<u>Yes</u>
	1.	Is there any erosion damage to swales?	<u>X</u>	
	2.	Is there any debris in swales?	<u>X</u>	
	3.	Sediment in swales, ditches or culverts?	<u>X</u>	
	4.	Evidence of ponding water?		<u>X</u>
Com		(Required for each Yes answer)		
	Pond	ling in southern mid-cap swale (photo).		

Monitoring wells will be inspected for the following: <u>No</u> Yes 1. Is there any damage to the lock or locking cap? <u>X</u> Is there any evidence of erosion of soils in the immediate area around the well casing? 3. Is there any damage to the protective casing? Is concrete collar (well seal) cracked or settled? 4. <u>Comments</u>: (Required for each Yes answer) D. Gas Vents Gas vents will be inspected for the following: <u>No</u> <u>Yes</u> 1. Is there any damage to the risers? <u>X</u> 2. Are any insert screens broken or missing? X <u>Comments</u>: (Required for each Yes answer) E. Access Road Site access road will be inspected by examining the following items: No Yes 1. X Is there any surface erosion to the site access road? <u>Comments</u>: (*Required for each Yes answer*) F. **Leachate Collection System** Leachate system and associated systems with the landfill will be inspected: No Yes 1. Any damage to the primary leachate piping and collection vault? _X_ 2. Any damage to and leakage in the leachate collection MH's? <u>X</u> Any damage to the leachate forcemain piping? 3. <u>X</u> Are there any problems with the operation of the 4.

French Drain system?

C.

Monitoring Wells

X

5. 6.	Any damage to and leakage in the cleanouts? Are there any problems with the operation of the	<u>X</u>
0.	Extraction Well pumps?	_X
	(Required for each Yes answer) VC mid-cap drainage pipe damaged on southern slope (se	e photograph)
Inspector:	Jeremy Wyckoff	
Date:	11/1/2022	



Fort Edward 2022 Landfill Inspection 30055713



Photo: 1

Date:

November 1, 2022

Description:

Top of Landfill, Facing southeast. Gas vent GV-4 in background.

Location:

Northwest cap.



Photo: 2

Date:

November 1, 2022

Description:

Landfill piezometer LP-1, facing northwest.

Location:

Northwest corner of landfill cap.



Fort Edward 2022 Landfill Inspection 30055713



Photo: 3

Date:

November 1, 2022

Description:

Top of Landfill, Facing east. Gas vent GV-6 in background.

Location:

North slope of landfill.



Photo: 4

Date:

November 1, 2022

Description:

Gas vent GV-6. Facing southeast.

Location:

Top of landfill cap.



Fort Edward 2022 Landfill Inspection 30055713



Photo: 5

Date:

November 1, 2022

Description:

Landfill piezometer LP-3.

Location:

Northeast corner of landfill cap.



Photo: 6

Date:

November 1, 2022

Description:

Drainage swale on northeast corner of landfill, facing southwest.

Location:

Near extraction well EW-3.



Fort Edward 2022 Landfill Inspection 30055713



Photo: 7

Date:

November 1, 2022

Description:

Junction of mid-cap swales in northeast corner of landfill cap, facing southwest.

Location:

Northeast corner of landfill.



Photo: 8

Date:

November 1, 2022

Description:

Mid-cap drainage swale on east slope of landfill, facing north. Extraction well EW-3 in background.

Location:

Eastern slope of landfill cap.



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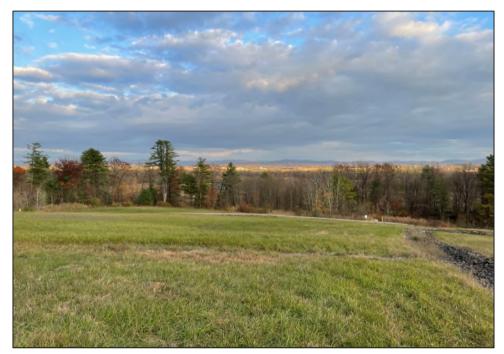


Photo: 9

Date:

November 1, 2022

Description:

Landfill cap and drainage swale in southeast corner of landfill, facing east. Extraction well EW-4 in background.

Location:

Southeast corner of landfill.



Photo: 10

Date:

November 1, 2022

Description:

Damaged drainage pipe in mid-cap drainage swale on south slope of landfill, facing south

Location:

Southeastern slope of landfill cap.



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Photo: 11

Date:

November 1, 2022

Description:

Southern mid-cap swale, facing west. Landfill access gate in background.

Location:

Southern slope of landfill.



Photo: 12

Date:

November 1, 2022

Description:

Iron staining in southern midcap swale, facing southwest.

Location:

Southern slope of landfill cap.



Fort Edward 2022 Landfill Inspection 30055713



Photo: 13

Date:

November 1, 2022

Description:

Southwestern mid-cap swale, facing west.

Location:

Southern landfill slope.



Photo: 14

Date:

November 1, 2022

Description:

Gas vent GV-3 with test pit stakes in foreground, facing north.

Location:

Western landfill cap.



Fort Edward 2022 Landfill Inspection 30055713



Photo: 15

Date:

November 1, 2022

Description:

Burrow on cap between LP-1 and GV-4, facing northwest.

Location:

Top of landfill – west side.



Photo: 16

Date:

November 1, 2022

Description:

Upper mid cap swales, facing

east.

Location:

Eastern landfill cap.



Fort Edward 2022 Landfill Inspection 30055713

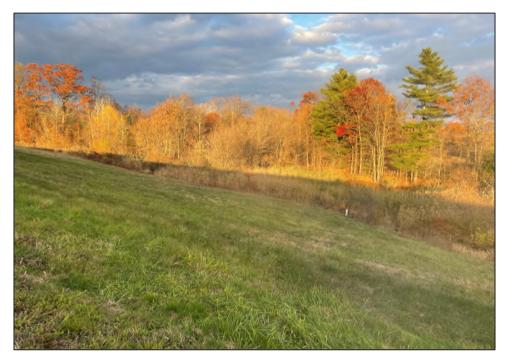


Photo: 17

Date:

November 1, 2022

Description:

East slope of landfill, facing north. Monitoring well MW-5 in background.

Location:

East slope of landfill.



Photo: 18

Date:

November 1, 2022

Description:

Extraction well EW-2, facing northeast.

Location:

East slope of landfill cap.