



GFL Emerald Park Landfill Audit Summary

To: GFL Emerald Park Landfill Standing Committee, City of Muskego
FROM: Jo-Walter Spear, Jr., P.E.
COPIES: File
DATE: 3/1/2021
PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental (JSA) and Green For Life Environmental (GFL) are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of February 21, 2021. The audit was performed at 1:24 PM on **February 24, 2021** by Jo Spear, Jr.; in the presence of Chad Seigel, the Site Manager.

The last audit was performed on February 19, 2021

The weather conditions were overcast with breaks of sun

The site has been thawing for roughly three days

Landfill Operations Audit:

The following conditions were noted during this Audit of the GFL EPLI Facility:

The operation required the use of:

- 1 compactor
- 1 bulldozer
- 1 excavator

Contractor installing new pump in Phase 7 leachate vault

A) Working Face and Location

- Working face moving West across active area in protected area
- No other working faces in operation
- Cover being placed is auto-fluff and other ADC

B) Leachate Management

- Leachate being pumped to MMSD treatment

C) Gas Monitoring and Management

- Total destruction volume 2,500 cfm; 1,800 being delivered to MMSD
- One shutdown for an hour due to moisture content
- MMSD controlling flows.

D) Surface Water Management

- Temp sed basin without pump; however pump is repaired and will be restored with thawing conditions.

Attachments:

Action Items List / Landfill Operations Audit Form
Audit Photos



- Temp sed basin frozen, pumping not viable
 - One snow event since last audit, temperatures above freezing since 2/21/2021
 - Site conditions mucky
- E) Odor Control
- No odors on or off site
- F) Liquid Loads
- Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
- GFL is limiting pickers on the site to minimize risk
 - No offsite litter
 - As snow melt litter appears in ditches and along fences
- H) Vehicle Impacts
- US 45 recently swept and 8 Mile Road clean
 - Site entrance very potholed, site roads clean
- I) Inspection of Incoming Waste
- Site operating with three equipment operators
 - Receiving MSW and C&D ~1,000 TPD
- J) Rejected Loads
- No rejected loads
- K) Residential Drop Off
- E-Waste Container present
 - Site clean
- L) Other Comments
- Site manager identified LFG and odor release at two vaults on South end of Phase 7.
 - no odor complaints since work was done the previous week
 - New vault pump for Phase 7 South, will run more frequently and with better depth control

Attachments:

Action Items List / Landfill Operations Audit Form
Audit Photos

GREEN FOR LIFE ENVIRONMENTAL (GFL) EMERALD PARK LANDFILL
 LANDFILL OPERATIONS AUDIT FORM
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE February 24, 2021

TIME 1:24

Auditor on site at: Open Close

PREVIOUS DATE: February 19, 2021 Completed

WEATHER Overcast with some sun breaks

WIND 5-15 MPH
 N S E W

TEMP Maximum 60 40 °F Minimum 54 19 °F B.P. 29.88

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
<u>1</u>	<u>Compactor</u>						
<u>1</u>	<u>Dozer</u>						
<u>1</u>	<u>Excavator</u>						
	<u>Haul Truck</u>						
	<u>Water Truck</u>						
	<u>Grader</u>						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance

A. Working Face Size and Location:

Working face is middle of phase 7.
Migrating westward across the
Phase. No other working faces



Cover Material:

Autofluff and ADC

B. Leachate Management:

Discharge to MMSD Recirculation

Phases:

C. Gas Monitoring and Management: Check appropriate box.

Flares in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Blowers in Operation:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	#	1
Flare use since last audit			#	—
Shutdowns Since Last Audit:			#	
Total Number of Wells	#	Under vacuum	#	
Flow to MMSD:	#	2,500	cfm	

flare delivery

Comments:

1 Shutdown due to moisture content
MMSD accepting 1,800 - 1,850 cfm of gas

D. Surface Water Management:

Storm Events Since Last	#	1	Est. Volume	218
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EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

Snow event over weekend. Site thawing quickly, site unpaved roads very muddy

E. Odor Control:

Odors Present: Onsite Offsite

Comments:

No odors on or off site

F. Liquid Loads Received:

None

G. Litter Control:

Litter Present Onsite:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	
Litter Present Offsite:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	
Pickers Active:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	# 2

Comments:

Litter exposed as snow melts and in ditches

H. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.

USAs recently swept, entrance rough, paved roads clean.

I. Inspection of incoming Waste:

Scale Camera Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	1
Equipment Operator:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	#	3
Spotter:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	#	
Random Load Inspection Dates:	YES				2/27/2021	Form <input type="checkbox"/>
Tonnage:	YES				1,000 TPD	

Comments:

MOW, ADL, C&D

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		

K. Incoming Waste:

Residential Drop-off:	Open During Audit:	<input checked="" type="checkbox"/>	E-Waste Container Present:	<input checked="" type="checkbox"/>
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Site clean, boxes mostly empty

L. Other Comments:

* Two vaults in these 6 & 7 carefully
inspected for possible gas leaks last
week. No odors since

* New vault pump to control leachate
elevation in two vaults, longer pump
life and more stable elevation

Auditor's Signature: 

Date: 02/24/2021

Auditor's Printed Name: Walter Spear, Jr.

Management Signature: 

Date: 2-24-21

Management Printed Name: Chris Sigel

Management Title:

JSA Principal Signature:

Date: _____

Green For Life Environmental (GFL) Emerald Park Landfill Audit Map



**ADVANCED DISPOSAL SERVICES
EMERALD PARK LANDFILL / CITY OF MUSKEGO
AUDIT PHOTOS**

PROJECT NO. 1012.10030



South slope of Phase 7. Some thawed patches from header and similar locations. No odors or seeps





Tipping continues on top of working face and pushing waste down



Working face moving Westward across Phase



Access road about Phase 7



Thawing conditions in Phase 7



Phase 7, viewed from Phase access in Northwest. Active area rapidly thawing



East of Phase 7, temp sed basin and future cells. Well frozen

**ADS Emerald Park Landfill
Action Items Checklist
City of Muskego Audit**

Opened: 05/28/2020

Updated: 01/09/2014 - Cleared

Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes
1	05/28/2020	Leachate Seep, discharge into Temp Sed Basin	POO	ASAP	11/06/2020	153	Site management addressing issue
2	05/28/2020	Leachate elevations above maintenance levels	POO & RD&D Permit	ASAP	11/06/2020	153	Site management addressing issue, DNR serviing an NOV