



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego
FROM: Jo-Walter Spear, Jr., P.E.
COPIES: File
DATE: 09/18/2020
PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of September 13, 2020. The audit was performed at 11:15 AM on **September 15, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on September 10, 2020

The weather conditions were sunny, clear, and drying

Landfill Operations Audit:

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

The operation required the use of one compactor and two bulldozers.

Contractors were operating three excavators and two haul trucks

A) Working Face and Location

- Working face in Southwest corner of Phase 7 South, on outboard slope, end of lift across Phase 7 from North to South.
 - Current lift being developed to protect active area for future lifts to the East
- No liquid loads being accepted
 - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
- Soils from site being used for cover on outboard slope

B) Leachate Management

- Leachate being pumped to MMSD treatment
 - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
 - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
 - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
 - Temp sed basin bottom being scrapped again for contaminates from seep in rain flap

C) Gas Monitoring and Management

- Gas volume 700 cfm being destructed by flare, 1,800 cfm delivery to MMSD today
- MMSD controlling flow rates
- MMSD has been pushing back a scheduled shutdown, now set for 9/21/2020

Attachments:

Action Items List / Landfill Operations Audit Form
Audit Photos



- D) Surface Water Management
 - Several rain events throughout August and September
 - Basins have freeboard
 - Erosion repairs ongoing as slopes receive cover
 - Vehicle traffic erosion at junction of Phase 3 and 7, West slope
- E) Odor Control
 - Autofluff and waste odors on US 45
 - No odors on Access road
- 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
 - Advanced is limiting pickers on the site to minimize risk
 - Two pickers active on site
 - Litter minimal
- H) Vehicle Impacts
 - US 45 and Union Church clean; but dusty
 - Debris in left turn lanes
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators and two contractors
 - Receiving MSW, soil project, and C&D ~1,800 TPD
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Site closed and clean
- L) Other Comments
 - All 34 gas wells that require pumps to lower liquid levels have working pumps
 - Temp Sed basin/Phase 7 rainflap repairs ongoing
 - Awaiting availability of liner crew
 - Well redrills and horizontal gas well scheduled for end of September

Attachments:

Action Items List / Landfill Operations Audit Form
Audit Photos

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL
 LANDFILL OPERATIONS AUDIT FORM
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE September 15, 2020 TIME 11:15
 Auditor on site at: Open Close

PREVIOUS DATE: September 10, 2020 Completed

WEATHER Clear, Sunny, drying WIND 10-15
 N E
 TEMP Maximum 79 °F Minimum 57 °F B.P. 30.25

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
2	Dozer						
1	Excavator		✓				
1	Haul Truck		✓				
	Water Truck						
	Grader						

MAJOR EQUIPMENT BONEYARD

No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
1	Backhoe	✓					

A. Working Face Size and Location:

Working face at South end of
Phase 6 South at very end of
Phase 7 Previous lift placed on
West edge of Phase 7 to protect
next lift



Cover Material:

Soils from site

B. Leachate Management:

Discharge to MMSD	<input checked="" type="checkbox"/>	Recirculation	<input type="checkbox"/>
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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		#	<i>—</i>			
Shutdowns Since Last Audit:		#	<i>0</i>			
Total Number of Wells	#	Under vacuum	#			
Flow to MMSD:	#	<i>1,800</i>	cfm			

700 cfm to flare

Comments:

MMSD has increased volume delivered
MMSD shutdown scheduled for 9/21/2020

D. Surface Water Management:

Storm Events Since Last	#	<i>3</i>	Est. Volume	<i>284</i>
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EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

Basins have plenty of free board
Erosion repairs as slopes receive cover

E. Odor Control:

Odors Present:	Onsite	<input type="checkbox"/>	Offsite	<input checked="" type="checkbox"/>
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Comments:

Auto fluff and waste odor on USFS

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:

Pickers active in Southeast of footprint
Litter minimal

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

US 45 has debris in turn lanes, US 45 & Clavin
Church & Lewis, but dusty

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"/>	#	0
Random Load Inspection Dates:	7/11/2020				Form	<input type="checkbox"/>
Tonnage:	1,800 TPD					

Comments:

MWD, C&D, soil projects.

J. Rejected Loads:

	Date/Time	Reason for Rejection
1.		None
2.		

K. Residential Drop Off: Open During Audit E-Waste Container Present

Residrop-off clean, boxes mostly empty

L. Other Comments:

* All 34 wells with pumps, ~~inoperative~~ have working pumps to drain

* Temp sed basin rain flap repairs ongoing

* Redills stippl planned for end of Month

Auditor's Signature: _____

Auditor's Printed Name: _____

Management Signature: _____

Management Printed Name: _____

Management Title: _____

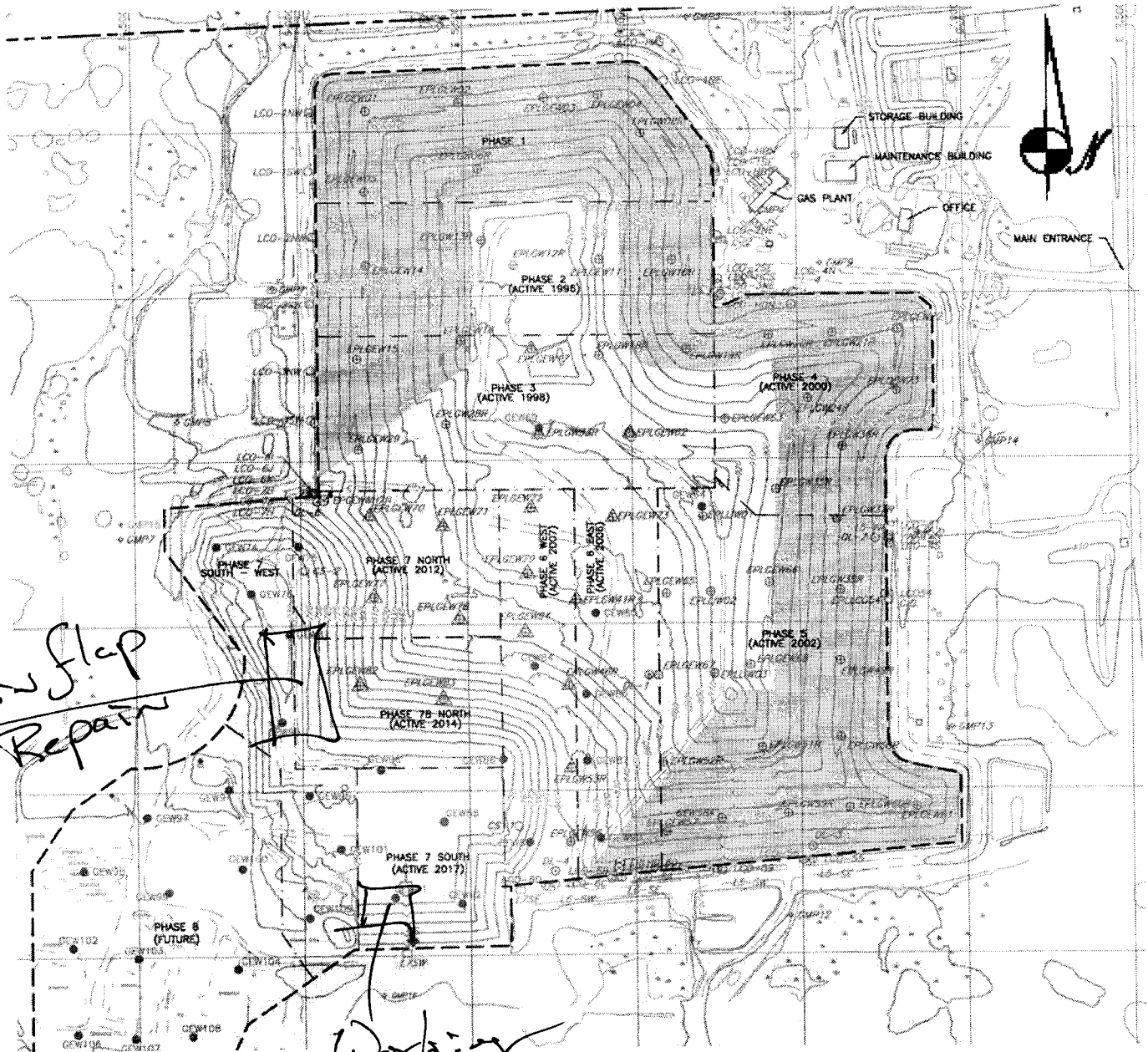
JSA Principal Signature: _____

Date: 9/15/2020

Date: 9-15-20

Date: _____

Advanced Disposal Emerald Park Landfill Audit Map



Repair Flap
Repair

Working Face

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

PROJECT NO. 1012.10030



Overview of Emerald Park Landfill from West





Erosion channels on West slope of Phase 3/7, left side of photo



Overview of landfill from West



South end of footprint viewed from West



Working face at South end of Phase 7 South



Southwest corner of Phase 7 South, working face being developed to bring lift up to current grade



Working face at very South end of Phase 7 South, bring grade up to current lift



Stockpiled cover adjacent to working face at Southwest corner of Phase 7 South



Stockpiled cover adjacent to working face at Southwest corner of Phase 7 South



Active area viewed from North, working face below visible grade



Lift along West slope of Phase 7 South, creates protected areas for future placements

**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			Site management addressing issue
2	05/28/2020	Leachate elevations above maintenance levels	POO & RD&D Permit	ASAP			Site management addressing issue, DNR serviing an NOV