



MEMORANDUM

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: 12/9/13

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of November 18, 2013. The audit was performed at 11:00 AM on **November 20, 2013** by Jo Spear, Jr. in the presence of David Geier.

Landfill Operations Audit:

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

- Working face moving along Phase 3 in the Northwest corner of Phase 7
- Previous working face serving as windscreen along West edge
- One compactor, 1 Dozer and 1 excavator in use during audit
 - D8 Dozer in repair shop
- Autofluff stockpiled for cover
- Leachate discharging to MMSD; no recirculation
- One blower in operation; no flares in use
 - Gas delivery ongoing
- Vegetation in fair condition
- One storm events since last audit; approximately 2"
 - Severe storms on 11/17/ 13
 - Storm water required pumping in construction area
- No odors noticed
- Liquid loads are periodic
- Litter mostly confined to on-site areas
 - Litter in trees along North edge of Emerald Park & South side of Future Parkland
 - Pickers working
- US 45 & 8 Mile Road clean; site roads muddy in spots
- New stone added to access roads
- Tipping scale camera in use; equipment operator; no spotter
 - Approximately 1,500 tons per day

Attachments:

Action Items List / Landfill Operations Audit Form
Audit Photos



MEMORANDUM

- Random load inspected on 11/12/13
- Predominately MSW; some C&D
- No rejected loads
- Residential drop-off area clean
 - E-waste container in place
- Liner deployed on 11/16/13
- Lining leachate collection trough today
 - Could not view soil underneath liner
 - Placement of generators on liner suspect
- New stone added to unpaved roads
- Leachate leak at valve in Phase 5
 - Vault detected, repaired, clean-up on-going
- Header/lateral repair in West slope of Phase 3 on-going

Construction Audit Notes:

- Construction, other than repairs & storm water control halted due to wet weather
 - Pumps in use

Attachments:

Action Items List / Landfill Operations Audit Form
Audit Photos

VEOLIA Emerald Park Landfill
Action Items Checklist
City of Muskego Audit

Opened: 5/09/2013

Updated: 5/09/2013

| Item Number | DATE month/date/year | Condition Description | Permit or Contract Reference | Initial Schedule for Completion | Observed Completion Date | Elapsed Time (Days) | Notes |
|-------------|-------------------------|---|------------------------------------|--|--------------------------------|---------------------------|---|
| 1 | 5/09/2013 | Seep in Rainflap, Southwest corner of Phase 7 | | ASAP | 06/06/2013 | 28 | All contact water is being treated as leachate and pumped back into Phase 7. Repaired liner with welds. |
| 2 | 07/25/2013 | Construction entrance open and unattended | NR530.10(11 | ASAP | 07/25/2013 | 0 | David Geier, Site Manager, closed and locked gate during audit |
| | | | | | | | |
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ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL
 LANDFILL OPERATIONS AUDIT FORM
 CITY OF MUSKEGO

PROJECT NO. 1020.10030

DATE November 20, 2013
 Auditor on site at: Open Close

TIME 11:00

WEATHER Clear Sunny

WIND ~~SE~~ 10-20
 N S E W

TEMP Maximum 45 °F Minimum 32 °F

B.P. 30.10

MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS

| No. | DESCRIPTION | Rented | Contracted | No. | DESCRIPTION | Rented | Contracted |
|-----|-------------|--------|------------|-----|-------------|--------|------------|
| 1 | Compactor | | | | | | |
| 1 | Dozer | | | | | | |
| 1 | Excavator | | | | | | |
| | Haul Truck | | | | | | |
| | Water Truck | | | | | | |
| | Grader | | | | | | |

MAJOR EQUIPMENT BONEYARD

| No. | DESCRIPTION | Broken | Maintenance | No. | DESCRIPTION | Broken | Maintenance |
|-----|-------------|--------|-------------|-----|-------------|--------|-------------|
| 1 | DB Dozer | ✓ | | | | | |
| | | | | | | | |

A. Working Face Size and Location:

Working face against Phase 3 in Northwest corner of Phase 7. Previous working face acting as wind screen along West edge



Cover Material:

Autofluh stockpile

B. Leachate Management:

| | | | |
|-------------------|-------------------------------------|---------------|--------------------------|
| Discharge to MMSD | <input checked="" type="checkbox"/> | Recirculation | <input type="checkbox"/> |
|-------------------|-------------------------------------|---------------|--------------------------|

Phases:

C. Gas Monitoring and Management: Check appropriate box.

| | | | | | | | | |
|-----------------------------|------|-------------------------------------|-----------|-------------------------------------|------|--------------------------|------|--------------------------|
| Flares in Operation: | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> | # | 1 | | |
| Blowers in Operation: | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> | # | 1 | | |
| Flare use since last audit | # | | <i>NA</i> | | | | | |
| Shutdowns Since Last Audit: | # | | <i>1</i> | | | | | |
| Flow to MMSD: | # | | cfm | | | | | |
| Vegetation Condition: | Good | <input checked="" type="checkbox"/> | Fair | <input type="checkbox"/> | Poor | <input type="checkbox"/> | Dead | <input type="checkbox"/> |

Comments:

Gas delivery ongoing

D. Surface Water Management:

| | | | | |
|-------------------------|---|---|-------------|------------|
| Storm Events Since Last | # | 1 | Est. Volume | <i>22"</i> |
|-------------------------|---|---|-------------|------------|

EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:

Severe Storms on 11/17/2013, Pumping required for construction area

E. Odor Control:

| | | | | |
|----------------|--------|--------------------------|---------|--------------------------|
| Odors Present: | Onsite | <input type="checkbox"/> | Offsite | <input type="checkbox"/> |
|----------------|--------|--------------------------|---------|--------------------------|

Comments:

No odors noticed

F. Liquid Loads Received:

Periodic



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"/> | # |

Comments:

Litter on site trees along North edge of Emerald park, South Future Parkland

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 & 3 Mile Cleanup Site roads muddy in spots. New stone for access roads

I. Inspection of incoming Waste:

| | | | | | |
|-------------------------------|------------|-------------------------------------|----|-------------------------------------|---|
| Scale Camera Operator: | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> | # |
| Equipment Operator: | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> | # |
| Spotter: | YES | <input type="checkbox"/> | NO | <input checked="" type="checkbox"/> | # |
| Random Load Inspection Dates: | 11/12/2013 | | | | |
| Tonnage: | 1,500 TPD | | | | |

Comments:

MSW Primary with some C&D

J. Rejected Loads:

| | Date/Time | Reason for Rejection |
|----|-----------|----------------------|
| 1. | | None |
| 2. | | |

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



M. Other Comments:

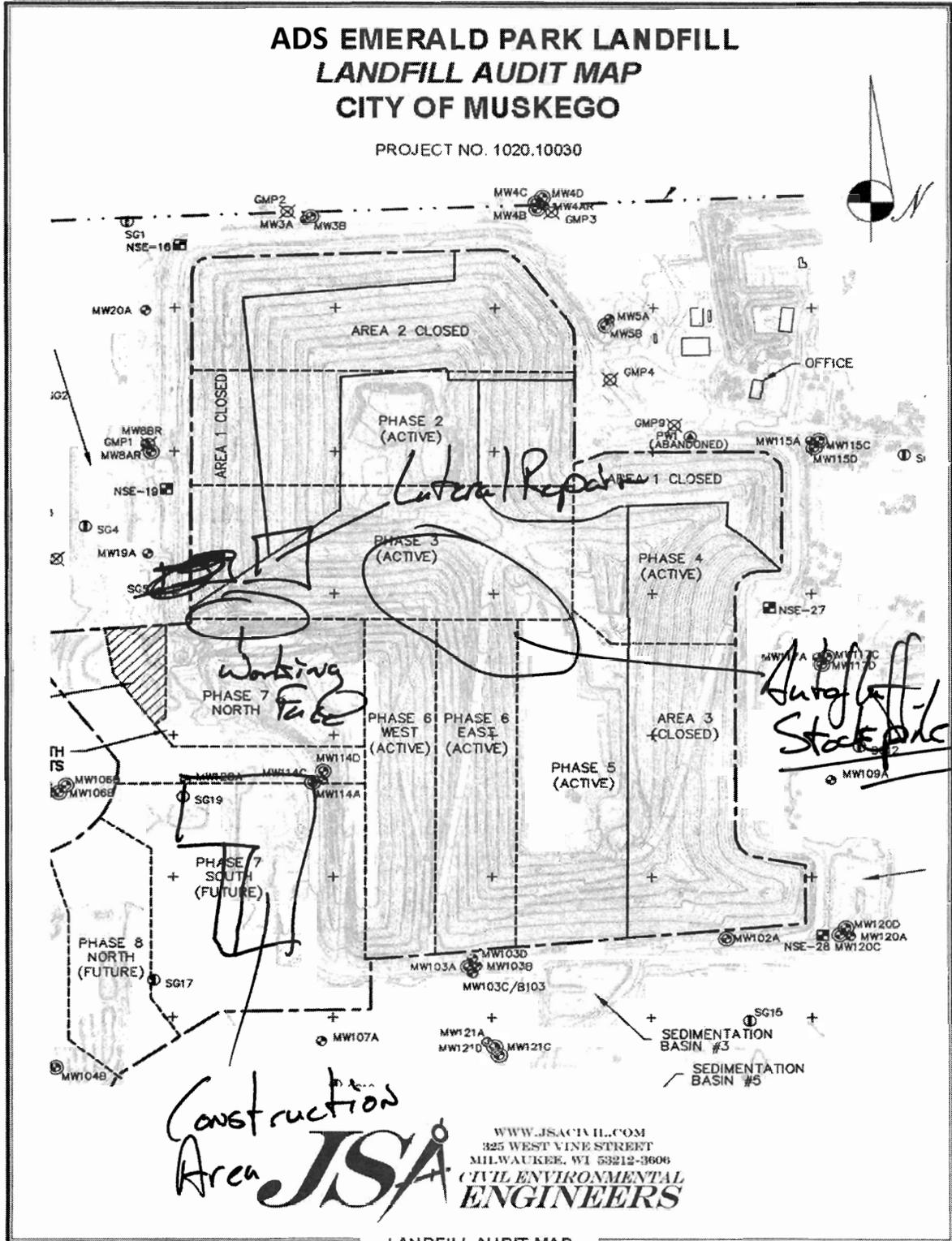
- * ~~Liner deployment expected after Thanksgiving Holiday.~~
- * Liner deployed on 11/16/2013, today lining of leachate collection trench only. No view of soils underneath. Placement of generators on Liner Suspect.
- * All other constructions halted due to wet weather active pumping ongoing.
- * New stone added to ~~top~~ unpaved roads
- * Leachate leak at valve in Phase 5 Vault detected, repaired, cleanup ongoing.
- * Header/lateral repair in West slope of Phase 3 ongoing.

Auditor's Signature: [Signature] Date: 11/20/13
Auditor's Printed Name: Jo-Walter Spear Jr
Management Signature: [Signature] Date: 11/20/13
Management Printed Name: David Geier
Management Title: Operations Manager
JSA Principal Signature: _____ Date: _____



ADS EMERALD PARK LANDFILL LANDFILL AUDIT MAP CITY OF MUSKEGO

PROJECT NO. 1020.10030



B. Excavations / Soil Management:

C. Off Site Hauling

| | Weight Ticket Number | Weight of Load in Pounds |
|----|----------------------|--------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

Auditor's Signature: _____
Auditor's Printed Name: _____
Management Signature: _____
Management Printed Name: _____
Management Title: _____

Date: _____
Date: _____



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

PROJECT NO. 1012.10030



Ditch cleaned after leachate exposure.



Vault with leaking flange. Cleanup completed, testing will be done to assure.



Phase 7



Approach to active area



C&D stockpile at East end of Phase 7



Working face



New Cell



Geotextile over liner



Half the lined area covered with geotextile for leachate collection. Collection ditch liner welding being attempted during audit



Silt on liner from storm events.



New Cell nearly lined, silt removal will be necessary before placement of drainage layer.



HDPE West edge of Phase 8



Generator, for powering welding equipment, on new liner



Digging in Phase 3, West slope, to repair lateral



Sump and remainder of Phase 8