WASTE MANAGEMENT

CLOSED SITE MANAGEMENT GROUP
1700 North Broad Street
Fairborn, OH 45324
937 318 5342
855 287 0564 Fax

July 27, 2017

FEDERAL EXPRESS

Ms. Kathleen Meier
Remedial Project Manager
U.S. EPA, SR-6J
77 West Jackson Boulevard
Chicago, IL 60604

SUBJECT: 2017 FIRST SEMI-ANNUAL PROGRESS REPORT
REMEDIAL ACTION
POWELL ROAD LANDFILL
U.S. EPA DOCKET NO. V-W-98-C- 466/465

Dear Ms. Meier:

Pursuant to the above referenced Orders WMO is presenting you with the progress report for the Remedial Action O&M activities at the Powell Road Landfill. This report is for the period of January 1, 2017 thru June 30, 2017. This report was prepared per the requirements specified in the above referenced UAO's and per the frequency approved by USEPA on May 10, 2004.

1.0 DESCRIPTION OF TASKS/ACTIONS PERFORMED IN ACCORDANCE WITH UAO V-W-98-C-466 DURING THIS REPORTING PERIOD

The following submittals were made:
02/15/17 – SA Progress Report
02/16/17 – SA GW Report
04/14/17 – Annual Report
04/17/17 – GW Sampling Notification

2.0 SUMMARY OF WORK COMPLETED (01/17-6/17)

The following occurred:

Quarterly inspection – 03/01/17
Qtrly gas probes – 03/1/17
1st SA GW event – 5/1-3/17
Quarterly inspection – 06/16/17
Qtrly gas probes – 06/16/17
Mowing – 07/17

LEACHATE SUMMARY	
January	0 gals
February	0 gals
March	0 gals
April	0 gals
May	11,000 gals
June	0 gals
Total	11,000 gals

GAS WELL TUNING	
1 Qtr	1/19/17
2 Qtr	5/12/17

The (03/01/17; 06/16/17) quarterly inspections and (01/19/17; 06/16/17) gas probe monitoring forms are attached. See attached system downtime and maintenance reports.

3.0 90 DAY SCHEDULE(S) WORK PLANNED (07/17-12/17)

The next semi-annual report submittal is in January 2018.

Qtrly inspection – 09/17
Qtrly gas probes – 09/17
Mowing – 09/17
2nd SA GW event – 11/17
Qtrly inspection - 12/17
Qtrly gas probes – 12/17
SA Progress Report – 01/18

4.0 SCHEDULE VARIANCES FROM APPROVED RA PROJECT SCHEDULE

No significant activity this reporting period.

5.0 SUMMARY OF GROUNDWATER ACTIVITY PER UAO V-W-98-C-465 DURING THIS PERIOD

No significant activity.

6.0 SUMMARY AND DISCUSSION OF ALL APPROVED AND UNAPPROVED CHANGES MADE IN THE RA DURING THIS PERIOD

WM turned off the leachate pumps at the extraction wells and began the MNA pilot study on February 3, 2015. The pilot study will continue for two years per the workplan.

7.0 SUMMARY OF PROBLEMS/DELAYS OR POTENTIAL PROBLEMS/DELAYS ENCOUNTERED DURING THIS PERIOD

As noted in the maintenance and inspection forms, the gas extraction system was not working during part of the first quarter due to an airline leak in the extraction field. The leachate extraction pumps are off due to the pilot study so this system was not affected by the air leak. The air is required; however, to operate the pumps in KO 1&2 otherwise the knock out liquid levels raise enough to cut off the vacuum to the flare. We isolated the broken area in the NW corner from the remainder of the system in March. During the second quarter the flare operated inconsistently during the 12-hour cycle period.

8.0 ACTIONS BEING TAKEN TO RECTIFY PROBLEMS/DELAYS

See attached downtime and maintenance reports.

9.0 CHANGES IN PERSONNEL DURING THIS REPORTING PERIOD

No changes in personnel.

10.0 PROJECTED WORK FOR THE NEXT REPORTING PERIOD

See items in Section 3 above.

11.0 COPIES OF REPORTS AND SAMPLING RESULTS GENERATED DURING THIS PERIOD

See attached downtime, gas and quarterly inspection reports.

Please contact Robin Jones regarding this submittal at 937-318-5342 or at rjones2@wm.com.

Respectfully,

Robin L. Jones
District Manager
WM Closed Sites
Powell Road Landfill Project Coordinator

attachment

cc. Scott Glum, OEPA/SWDO/DERR
PRL Distribution

POWELL 2 QUARTER 2017

POST-CLOSURE QUARTERLY INSPECTION FORM
Powell Road Landfill

Date:	6/16/2017	**Last Inspection Date:**	3/1/2017
Landfill Type:	Closed Municipal/CERCLA	**Evaluator:**	TOM MILLER
Total Acreage: 76	76	**Filled Acreage:**	38
Date Closed: 1984	1984	**Date Capped:**	1985 - 2000

	GOOD	ADEQUATE	ATTENTION	NOT APPLICABLE
SECURITY & ACCESS:				
1. Perimeter Fencing		√		
2. Signs Posted	√			
3. Access Road	√			
4. Undesirable Uses Prevented	√			
COVER & VEGETATION:				
1. Final Cover Erosion	√			
2. Top Slope Good Drainage	√			
3. Side Slope Good Drainage	√			
4. Evidence of Gas or Leachate	√			
5. Vegetation Quality & Density	√			
DRAINAGE:				
1. Appropriate Runoff Controls		√		
2. Diversion Ditches		√		
3. Perimeter Ditches		√		
4. Perimeter Stone		√		
5. Outlet Structures		√		
6. Roads	√			
GW MONITORING WELLS:				
1. Construction Integrity	√			
2. Security of Wells	√			
3. Identification of Wells	√			
LEACHATE & GAS SYSTEMS:				
1. Collection Sumps/Risers	√			
2. Electrical Components	√			
3. Leachate Pad Loading	√			
4. Storage Tank	√			
5. Security of System		√		
6. Flare/Blower Operation	√			
7. Extraction Wells/Pumps		√		
8. Mechanical Components	√			
9. Gas Probes	√			
9. Evidence of Odors/Migration	√			
10. Autodialer	√			

COMMENTS: see maintenance page for system updates

Fence, Signs, Gates, and Locks Inspection Sheet

Landfill Identification:	Powell Rd	**Landfill Owner/Client:**	Robin Jones
Technician:	TOM MILLER	**Landfill Location:**	Huber Heights
Date of Inspection:	June 16, 2017		

Property Perimeter Fence Inspection Data:	**Yes**	**No**	**Comments**
Are all fence posts straight & free of damage:		√	See Below
Are all fence panels in good condition (no breaks in the fence):	√		No Comments
Are all fence panels securely fastened to all fence posts:	√		No Comments
Does the fence have barb wire runners installed atop the fence:	√		No Comments
If so, are all barb wire hangers in good condition and in place:	√		No Comments
And are all barb wire strands in good condition and in place:	√		No Comments
Are there any signs of trespassing:		√	No Comments
Are there any gaps in the fence between the ground & the bottom of the fence:		√	No Comments
Are all required signs attached to the fence in 150 ft intervals:	√		No Comments
Are all signs clearly legible and in good condition:	√		No Comments
Are all fence panels and barb wire runners clear of vegetation:	√		No Comments

Flare / UST Station Fence Inspection Data:	**Yes**	**No**	**Comments**
Are all fence posts straight & free of damage:	√		No Comments
Are all fence panels in good condition (no breaks in the fence):	√		No Comments
Are all fence panels securely fastened to all fence posts:	√		No Comments
Does the fence have barb wire runners installed atop the fence:	√		No Comments
If so, are all barb wire hangers in good condition and in place:	√		No Comments
And are all barb wire strands in good condition and in place:	√		No Comments
Are there any signs of trespassing:		√	No Comments
Are there any gaps in the fence between the ground & the bottom of the fence:		√	No Comments
Are all required signs attached to the fence in 150 ft intervals:	√		No Comments
Are all signs clearly legible and in good condition:	√		No Comments
Are all fence panels and barb wire runners clear of vegetation:	√		No Comments

Man way and Main Site Entrance Gates Inspection Data:	**Yes**	**No**	**Comments**
Are all gates in good condition:	√		No Comments
Are all gate hinges in good condition:	√		No Comments
Do all gates close completely and evenly:	√		No Comments
Are all gates locked only with approved site locks:	√		No Comments
Are all security chains heavy duty & in good condition:	√		No Comments
Are all security chains tightly wrapped twice around the gate & the support pole:	√		No Comments
Are all required signs attached to the main entrance site gate(s):	√		No Comments
Are all required signs attached to the man way gate(s):	√		No Comments

Additional Comments:	see maintenance page

SURFACE WATER CONTROL INSPECTION LOG

Date Filed:_____

Ohio EPA Storm Water Construction General Permit No._____
Powell Road Landfill, Montgomery County, Ohio

Date of Inspection: 6/16/2017

Name of Inspector & Title: TOM MILLER-LANDFILL SUPERVISOR

Affiliation: WM EMPLOYEE

Qualifications _____

Weather Conditions: 81 dry

Completely fill in the information required below and sign where noted. Forward to Remedial Project Manager for filing.

1. Are measures to prevent erosion and sediment control adequate and properly implemented: YES
   (If no, describe observations, repairs needed, design changes needed, or other actions below.)
2. Are non structural practices (surface grading, vegetative cover, mulch, channel riprap) adequate: YES
3. Are structural practices (silt fencing and ditch checks) adeq N/A

Observations (NOTE: location, problem, erosion, sediment build up, damage, etc.):

A. Stabilization/Nonstructural Practices.

1. Surface Grading: In good condition

Actions to correct problem: N/A

2. Vegetative Cover In good condition

Actions to correct problem: N/A

3. Erosion Control Blanket and Mulch(NOTE: erosion control blankets and mulch are temporary controls and are designed to degrade overtime) In good condition

Actions to correct problem: N/A

Riprap Channel Lining: In good condition

Inspection Log - Cont. Date: 6/16/2017

Actions to correct problem: N/A

B. Structural Practices.

1. Silt fencing (NOTE: silt fencing is designed as a temporary control measure and will be removed once the vegetation is established): N/A

Actions to correct problems: N/A

2. Ditch checks (NOTE: ditch checks are designed as a temporary control measure and will be removed once the vegetation is established): In good condition

Actions to correct problems: N/A

C. Discharge locations (NOTE: any discharge of sediments off site): No

Actions to correct problems: N/A

D. Vehicles Tracking Sediment Off-Site NO

Actions to correct problem: N/A

E. Status of Previous Maintenance Activities (NOTE: location and problems):

Actions to correct problems: N/A

F. Other Remarks: N/A

Inspector's Signature: Signature on file

Date: 6/16/2017

Qr

Closed Site Management Group

Landfill Systems Equipment Inspection Report

Date: 6/16/2017 Location: Powell Rd Landfill Huber Heig hts, O H

Inspector: T. Miller

Landfill Gas Collection System:

		Yes	No	N/A	Comments
LFG Blower	Operating		x		
	Vibrations Noticed		x		
	Properly Greased	x			
	Excessive Noise		x		
Blower Motor	Properly Greased	x			
	Excessive Noise		x		
LFG Flare	Operating Properly		x		
	Igniter Functioning Properly	x			
	Pilot Fuel Operating Properly	x			
	Propane Supply Adequate	x			
Control Panel	Temperature Display Present	x			
	Display Lights Functioning	x			
	Blower Amps Functioning	x			
	Omnisite Ready / Functioning	x			
Electric Valves	Open During Operation	x			
	Closed During Shut-Down	x			

Air Supply:

Compressor	Maintaining Pressure	Yes			See Below
	Vibrations Noticed		No		None
	Proper Oil Level	Yes			None
	Excessive Noise		No		None

Leachate System:

Pump Stations	Sump Pumps Functioning		No		See below
	Fluids at an Acceptable Level	Yes			None
	Control Panel OK	Yes			None
	Air Supply OK	Yes			None
Storage Tank	Fluids at an Acceptable Level	Yes			None
	Proper Valve operation	Yes			None

LFG Dual Extraction Wells:

LFG Wells	Wellhead in Good Condition	Yes			Pumps have been removed from all wells
	Pump Connections Secure				N/A
	Proper Air Supply				N/A
	Cycle Counter Functioning				N/A
	Observed Pump Cycle				N/A

Comments: Flare is currently down. Working with the WM Gas Manager to review data and define a course of action. The flare is running inconsistently during the 12 hr on cycle.

Date: 6/16/2017 Location: Powell Rd Landfill Huber Heig hts, O H

Inspector: T Miller

PERMANENT GAS PROBE MONITORING REPORT
LANDFILL GAS EXTRACTION SYSTEM
POWELL ROAD LANDFILL

Combustible Gas Instrument Type:	CES Landtec GEM 5000	Serial No.:	gm5k0000-200-l
Date Last Calibrated:	6/16/2017	Method:	GA/Mode
Pressure Instrument Type:	CES Landtec GEM 5000	Serial No.:	gm5k0000-200-l
Water Level Instrument Type:	SOLINIST MODEL 101	Serial No.:	N/A
Weather Conditions:	81° dry	Barometric Pressure:	29.86

Monitor Point	Time	Pressure In. W.C. (+/-)	Percent Methane	Water Level	Comments
GP-1	8:42	0.00	0.0	17.5	No Comments
GP-2	9:08	0.01	0.0	18.2	Dry
GP-3	9:12	0.00	0.0	11.8	No Comments
GP-4	9:53	0.02	0.0	14.1	No Comments
GP-5	10:06	0.01	0.0	11.6	No Comments
GP-6	9:38	-0.01	0.0	12.2	No Comments

Date Performed: 6/16/2017

By: TOM MILLER

Powell Sierra Monitors

Date: 6/16/2017

Technician: TOM MILLER

	ADDRESS, NAME & PHONE NUMBER	MONITOR FUNCTIONING PROPERLY?	MONITOR CALIBRATED?	MONITOR NEEDS ATTENTION?
1	Onsite Compressor Building	Yes	No	No

COMMENTS:

Powell Blower / Flare Station Data

Technician:	Tom Miller
Date:	5/12/2017
Client:	R. Jones, WM
Site:	Powell Rd
Temperature:	74
Barometric Press.:	29.88

Before Tuning

Location	CH4	CO2	O2	Bal.	Press./Vac.	Temp.	Flow	Comments
Blower In	42	23.3	3.1	31.6	-37	63	449.5	None
Blower Out	39.8	25.4	3	32.1	3.2	71	449	None

After Tuning

Location	CH4	CO2	O2	Bal.	Press./Vac.	Temp.	Flow	Comments
Blower In	41.8	25	2.6	30.6	-38	64	448	None
Blower Out	40.2	26.4	2.3	31.1	3.3	71	448	None

Blower Data:

	Yes	No	Comments
Blower Operating Properly?	x		
Motor Operating Properly?	x		

	Yes	No		Yes	No
Lube Blowers:	x		Check Valves:	x	
Check Belts/Drive:	x		Check Actuator:	x	
Drain Blower:	x		Check Flame Arrestor:	x	
Check Propane: PSI 60%	x		Check Compressor:	x	
Blower Hours:	27503.4		Check Auto-Dialer:	x	
Blower Amps:	12.5		Long Distance Service Active:	N/A	

Flare Data:

Flare Temperature:	1056		Check Ignition System:	x	
Drain Flare Stack:	x		Other:	None	

Compressor Data:

System Pressure:	127	psi	Check Compressor Drains:	x	
Check Motor:	x		Compressor hours		

Comments:	Totalizer 3696019

Powell Wellfield Monitoring Data

Technician:	Tom Miller
Date:	5/12/2017
Client:	R. Jones, WM
Site:	Powell Rd
Temperature:	74
Barometric Press.:	29.88

ID	DATE	TIME	CH4	CO2	O2	Balance	Initial Static Press.	Temp. (Deg F)	Comments
POWLBLIN	5/12/2017	8:52	40.4	27.7	0.9	31.0	-37	71	
POWLBLOT	5/12/2017	8:55	38.8	26.7	1.1	33.4	3.1	83	
POWL0001	5/12/2017	9:05	2.8	1.6	19.5	76.1	-0.9	66	
POWL0002	5/12/2017	9:10	52.6	31.9	0.2	13.4	-9.8	69	
POWL0003	5/12/2017	9:18	41.0	34.3	0.6	22.2	-2.2	71	
POWL0004	5/12/2017	9:22	21.0	22.6	3.1	51.4	-0.7	73	
POWL0005	5/12/2017	9:29	49.2	37.5	0.9	10.5	-1.4	73	
POWL0006	5/12/2017	9:39	43.4	34.3	0.1	20.3	-2.3	71	
POWL0007	5/12/2017	9:48	31.0	30.7	0.5	35.9	-4.8	80	
POWL0008	5/12/2017	9:52	9.4	21.9	1.9	64.9	-1.1	75	
POWL0009	5/12/2017	10:08	3.0	1.1	19.7	76.2	-0.2	72	
POWL0010	5/12/2017	10:06	3.0	1.3	19.8	75.9	-0.3	74	
POWL0011	5/12/2017	10:04	15.8	20.4	4.6	57.3	-3.7	64	
POWL0012	5/12/2017	10:13	2.1	4.9	15.7	77.3	-0.6	75	
POWL0013	5/12/2017	10:16	24.1	23.5	2.8	47.7	-6.1	80	
POWL0014	5/12/2017	10:19	0.8	3.2	17.8	78.2	-0.1	77	
POWL0015	5/12/2017	10:21	34.5	26.3	0.1	37.2	-2.7	78	
POWL0016	5/12/2017	10:23	2.0	16.2	2.8	79.0	-0.3	79	
POWL0017	5/12/2017	10:26	23.2	24.8	2.5	47.6	-1.2	77	
POWL0018	5/12/2017	10:27	30.5	27.5	0.1	40.0	-6.5	78	
POWL0019	5/12/2017	10:31	57.6	14.7	4.9	20.9	-8.2	74	
POWL0020	5/12/2017	10:34	55.0	25.8	0.9	16.4	-37.1	77	
POWL0021	5/12/2017	10:38	2.1	3.5	16.9	75.6	-1.7	72	
POWL0022	5/12/2017	10:47	58.6	19.8	0.7	19.0	-8.0	75	
POWL0023	5/12/2017	10:53	59.5	26.9	0.3	11.4	-17.4	74	
POWL0024	5/12/2017	11:28	36.1	16.9	8.4	36.7	-6.9	62	
POWL0025	5/12/2017	11:33	56.5	29.3	1.3	11.0	-35.6	75	
POWL0026	5/12/2017	11:40	63.9	29.0	1.4	3.8	-19.2	72	
POWLBLIN	5/12/2017	12:03	40.1	27.4	0.7	31.8	-38.0	73	
POWLBLOT	5/12/2017	12:07	39.3	27.6	0.9	32.2	2.9	86	

Comments:

Waste Management, Powell Rd Landfill
Landfill Gas and Condensate Collection Systems Maintenance Summary Report

4/2017 to 6/2017 **WM Completed Maintenance**

Date	System Repaired	Proactive/ Reactive	Diagnosis of Problem Causing Reactive Action	Corrective Action / Description of Maintenance Performed
5/12/2017	Air	Reactive	Crack in HDPE line outside of compressor building	Repaired line using a fusion coupler to make the repair
5/18/2017	Fence	Proactive	Fence-age	Replaced 404' of fence on the Northside of the site along Powell Rd.
6/1/2017	Fence	Proactive	Damaged fence	Repaired several areas of fence around the site
6/16/2017	Flare compound	Reactive	Weed and grass control	Mowed and cleared flare yard

Additional Comments: The flare is currently down as of 7/17/17, working with the WM Gas Manager to review system data and define a course of action. The flare will not run consistently during the 12 hr on cycle.

Powell Road Omni Alarm System
April 1, 2017 to June 30, 2017

- Alarm History -				
Station	Device	Alarm Start	Alarm End	Alarm Duration
Input: Flare Failure				
Powell Rd.	28375	4/1/2017 12:07:56 AM	4/1/2017 10:32:51 AM	10:24:55
Powell Rd.	28375	4/1/2017 10:40:51 AM	4/2/2017 9:11:11 AM	22:30:20
Powell Rd.	28375	4/2/2017 9:14:02 AM	4/2/2017 9:15:31 AM	00:01:29
Powell Rd.	28375	4/2/2017 9:18:11 AM	4/3/2017 9:11:21 AM	23:53:10
Powell Rd.	28375	4/3/2017 9:22:01 PM	4/4/2017 9:10:52 AM	11:48:51
Powell Rd.	28375	4/4/2017 3:08:42 PM	4/4/2017 3:12:22 PM	00:03:40
Powell Rd.	28375	4/4/2017 3:16:02 PM	4/4/2017 3:16:42 PM	00:00:40
Powell Rd.	28375	4/4/2017 3:21:41 PM	4/4/2017 3:24:52 PM	00:03:11
Powell Rd.	28375	4/4/2017 3:29:42 PM	4/4/2017 3:37:31 PM	00:07:49
Powell Rd.	28375	4/4/2017 5:29:11 PM	4/4/2017 5:37:51 PM	00:08:40
Powell Rd.	28375	4/4/2017 6:11:42 PM	4/4/2017 6:21:51 PM	00:10:09
Powell Rd.	28375	4/4/2017 6:26:51 PM	4/4/2017 6:35:41 PM	00:08:50
Powell Rd.	28375	4/4/2017 6:40:42 PM	4/4/2017 6:43:52 PM	00:03:10
Powell Rd.	28375	4/4/2017 6:47:22 PM	4/4/2017 6:49:01 PM	00:01:39
Powell Rd.	28375	4/4/2017 7:01:41 PM	4/13/2017 10:16:41 AM	207:15:00
Powell Rd.	28375	4/13/2017 9:21:41 PM	4/14/2017 9:11:21 AM	11:49:40
Powell Rd.	28375	4/14/2017 9:21:41 PM	4/15/2017 9:11:22 AM	11:49:41
Powell Rd.	28375	4/15/2017 9:20:51 PM	4/16/2017 9:11:31 AM	11:50:40
Powell Rd.	28375	4/16/2017 9:20:01 PM	4/17/2017 9:11:21 AM	11:51:20
Powell Rd.	28375	4/17/2017 9:19:03 AM	4/17/2017 9:20:51 AM	00:01:48
Powell Rd.	28375	4/17/2017 9:28:52 AM	4/17/2017 9:30:52 AM	00:02:00
Powell Rd.	28375	4/17/2017 9:37:31 AM	4/17/2017 9:39:22 AM	00:01:51
Powell Rd.	28375	4/17/2017 9:45:41 AM	4/17/2017 9:47:31 AM	00:01:50
Powell Rd.	28375	4/17/2017 9:53:11 AM	4/17/2017 9:54:53 AM	00:01:42
Powell Rd.	28375	4/17/2017 10:00:35 AM	4/17/2017 10:02:22 AM	00:01:47
Powell Rd.	28375	4/17/2017 10:08:11 AM	4/17/2017 10:09:52 AM	00:01:41
Powell Rd.	28375	4/17/2017 10:15:31 AM	4/17/2017 10:17:11 AM	00:01:40
Powell Rd.	28375	4/17/2017 10:23:01 AM	4/17/2017 10:24:41 AM	00:01:40
Powell Rd.	28375	4/17/2017 10:30:22 AM	4/17/2017 10:32:03 AM	00:01:41
Powell Rd.	28375	4/17/2017 10:34:41 AM	4/25/2017 9:11:51 AM	190:37:10
Powell Rd.	28375	4/25/2017 9:22:31 PM	4/26/2017 9:11:31 AM	11:49:00
Powell Rd.	28375	4/26/2017 9:22:53 PM	4/27/2017 9:11:31 AM	11:48:38
Powell Rd.	28375	4/27/2017 9:20:21 PM	4/28/2017 9:11:31 AM	11:51:10
Powell Rd.	28375	4/28/2017 9:16:51 AM	4/28/2017 9:18:51 AM	00:02:00
Powell Rd.	28375	4/28/2017 9:30:21 AM	4/28/2017 9:32:01 AM	00:01:40
Powell Rd.	28375	4/28/2017 9:37:01 AM	4/28/2017 9:38:51 AM	00:01:50
Powell Rd.	28375	4/28/2017 9:43:51 AM	4/28/2017 9:45:31 AM	00:01:40
Powell Rd.	28375	4/28/2017 9:50:51 AM	4/28/2017 9:52:41 AM	00:01:50
Powell Rd.	28375	4/28/2017 9:58:02 AM	4/28/2017 10:00:16 AM	00:02:14
Powell Rd.	28375	4/28/2017 10:12:03 AM	4/28/2017 10:13:42 AM	00:01:39
Powell Rd.	28375	4/28/2017 9:20:32 PM	4/29/2017 9:11:31 AM	11:50:59
Powell Rd.	28375	4/29/2017 9:26:02 AM	4/29/2017 9:27:42 AM	00:01:40
Powell Rd.	28375	4/29/2017 9:32:41 AM	4/29/2017 9:34:31 AM	00:01:50
Powell Rd.	28375	4/29/2017 9:39:11 AM	4/29/2017 9:41:03 AM	00:01:52
Powell Rd.	28375	4/29/2017 9:46:21 AM	4/29/2017 9:48:03 AM	00:01:42

Powell Rd.	28375	4/29/2017 9:20:11 PM	4/30/2017 9:11:22 AM	11:51:11
Powell Rd.	28375	4/30/2017 9:19:02 PM	5/1/2017 9:11:21 AM	11:52:19
Powell Rd.	28375	5/1/2017 9:18:32 PM	5/2/2017 9:11:31 AM	11:52:59
Powell Rd.	28375	5/2/2017 9:40:11 AM	5/2/2017 9:42:11 AM	00:02:00
Powell Rd.	28375	5/2/2017 9:18:32 PM	5/3/2017 9:11:41 AM	11:53:09
Powell Rd.	28375	5/3/2017 9:17:21 AM	5/3/2017 9:22:31 AM	00:05:10
Powell Rd.	28375	5/3/2017 9:36:21 AM	5/3/2017 9:38:31 AM	00:02:10
Powell Rd.	28375	5/3/2017 9:47:11 AM	5/3/2017 9:49:11 AM	00:02:00
Powell Rd.	28375	5/3/2017 9:52:51 AM	5/10/2017 9:59:52 AM	168:07:01
Powell Rd.	28375	5/10/2017 9:21:51 PM	5/12/2017 8:31:51 AM	35:10:00
Powell Rd.	28375	5/12/2017 8:22:31 PM	5/13/2017 8:12:42 AM	11:50:11
Powell Rd.	28375	5/13/2017 8:23:21 PM	5/14/2017 8:12:41 AM	11:49:20
Powell Rd.	28375	5/14/2017 8:33:52 AM	5/14/2017 8:35:31 AM	00:01:39
Powell Rd.	28375	5/14/2017 8:51:23 AM	5/14/2017 8:53:03 AM	00:01:40
Powell Rd.	28375	5/14/2017 8:22:59 PM	5/15/2017 8:16:47 AM	11:53:48
Powell Rd.	28375	5/15/2017 8:20:21 AM	5/15/2017 8:22:01 AM	00:01:40
Powell Rd.	28375	5/15/2017 8:28:00 AM	5/15/2017 8:33:08 AM	00:05:08
Powell Rd.	28375	5/15/2017 8:37:02 AM	5/15/2017 8:37:05 AM	00:00:03
Powell Rd.	28375	5/15/2017 8:49:14 AM	5/15/2017 8:49:35 AM	00:00:21
Powell Rd.	28375	5/15/2017 8:22:42 PM	5/16/2017 8:12:42 AM	11:50:00
Powell Rd.	28375	5/16/2017 8:25:12 AM	5/16/2017 8:26:52 AM	00:01:40
Powell Rd.	28375	5/16/2017 8:32:52 AM	5/16/2017 8:34:43 AM	00:01:51
Powell Rd.	28375	5/16/2017 8:41:31 AM	5/16/2017 8:43:21 AM	00:01:50
Powell Rd.	28375	5/16/2017 8:52:41 AM	5/16/2017 8:54:31 AM	00:01:50
Powell Rd.	28375	5/16/2017 9:00:45 AM	5/16/2017 9:02:03 AM	00:01:18
Powell Rd.	28375	5/16/2017 8:22:11 PM	5/17/2017 8:12:41 AM	11:50:30
Powell Rd.	28375	5/17/2017 8:21:21 AM	5/17/2017 8:23:11 AM	00:01:50
Powell Rd.	28375	5/17/2017 8:31:12 AM	5/17/2017 8:33:02 AM	00:01:50
Powell Rd.	28375	5/17/2017 8:43:11 AM	5/17/2017 8:45:03 AM	00:01:52
Powell Rd.	28375	5/17/2017 8:53:41 AM	5/17/2017 8:55:31 AM	00:01:50
Powell Rd.	28375	5/17/2017 9:01:21 AM	5/17/2017 9:02:50 AM	00:01:29
Powell Rd.	28375	5/17/2017 9:08:02 AM	5/17/2017 9:09:51 AM	00:01:49
Powell Rd.	28375	5/17/2017 9:15:02 AM	5/17/2017 9:16:42 AM	00:01:40
Powell Rd.	28375	5/17/2017 9:36:11 AM	5/17/2017 9:37:51 AM	00:01:40
Powell Rd.	28375	5/17/2017 8:20:41 PM	5/18/2017 8:12:41 AM	11:52:00
Powell Rd.	28375	5/18/2017 8:20:51 AM	5/18/2017 8:23:01 AM	00:02:10
Powell Rd.	28375	5/18/2017 8:29:51 AM	5/18/2017 8:32:03 AM	00:02:12
Powell Rd.	28375	5/18/2017 8:38:41 AM	5/18/2017 8:40:51 AM	00:02:10
Powell Rd.	28375	5/18/2017 8:47:21 AM	5/18/2017 8:49:31 AM	00:02:10
Powell Rd.	28375	5/18/2017 8:55:51 AM	5/18/2017 8:57:51 AM	00:02:00
Powell Rd.	28375	5/18/2017 9:04:23 AM	5/18/2017 9:06:11 AM	00:01:48
Powell Rd.	28375	5/18/2017 8:20:41 PM	5/19/2017 8:12:41 AM	11:52:00
Powell Rd.	28375	5/19/2017 8:18:22 AM	5/19/2017 8:22:11 AM	00:03:49
Powell Rd.	28375	5/19/2017 8:37:31 AM	5/19/2017 8:39:51 AM	00:02:20
Powell Rd.	28375	5/19/2017 8:47:11 AM	5/19/2017 8:49:31 AM	00:02:20
Powell Rd.	28375	5/19/2017 8:56:31 AM	5/19/2017 8:58:41 AM	00:02:10
Powell Rd.	28375	5/19/2017 9:05:31 AM	5/19/2017 9:07:51 AM	00:02:20
Powell Rd.	28375	5/19/2017 9:15:22 AM	5/19/2017 9:17:12 AM	00:01:50
Powell Rd.	28375	5/19/2017 9:24:10 AM	5/19/2017 9:26:01 AM	00:01:51
Powell Rd.	28375	5/19/2017 9:33:41 AM	5/19/2017 9:35:41 AM	00:02:00
Powell Rd.	28375	5/19/2017 9:43:41 AM	5/19/2017 9:45:32 AM	00:01:51
Powell Rd.	28375	5/19/2017 9:55:41 AM	5/19/2017 9:58:02 AM	00:02:21
Powell Rd.	28375	5/19/2017 10:07:11 AM	5/19/2017 10:09:05 AM	00:01:54

Powell Rd.	28375	5/19/2017 10:18:41 AM	5/19/2017 10:20:23 AM	00:01:42
Powell Rd.	28375	5/19/2017 10:35:22 AM	5/19/2017 10:38:03 AM	00:02:41
Powell Rd.	28375	5/19/2017 10:50:05 AM	5/19/2017 10:53:04 AM	00:02:59
Powell Rd.	28375	5/19/2017 11:39:11 AM	5/19/2017 11:39:25 AM	00:00:14
Powell Rd.	28375	5/19/2017 11:40:57 AM	5/19/2017 11:41:09 AM	00:00:12
Powell Rd.	28375	5/19/2017 11:43:00 AM	5/19/2017 11:43:11 AM	00:00:11
Powell Rd.	28375	5/19/2017 11:51:02 AM	5/19/2017 11:53:22 AM	00:02:20
Powell Rd.	28375	5/19/2017 12:03:43 PM	5/19/2017 1:51:02 PM	01:47:19
Powell Rd.	28375	5/19/2017 1:57:02 PM	5/19/2017 1:58:51 PM	00:01:49
Powell Rd.	28375	5/19/2017 3:28:11 PM	5/19/2017 3:29:51 PM	00:01:40
Powell Rd.	28375	5/19/2017 3:38:21 PM	5/21/2017 3:26:52 PM	47:48:31
Powell Rd.	28375	5/21/2017 8:21:22 PM	5/22/2017 8:12:31 AM	11:51:09
Powell Rd.	28375	5/22/2017 8:24:11 AM	5/22/2017 8:26:11 AM	00:02:00
Powell Rd.	28375	5/22/2017 8:32:11 AM	5/22/2017 8:34:21 AM	00:02:10
Powell Rd.	28375	5/22/2017 8:43:01 AM	5/22/2017 8:44:52 AM	00:01:51
Powell Rd.	28375	5/22/2017 8:50:41 AM	5/22/2017 8:52:41 AM	00:02:00
Powell Rd.	28375	5/22/2017 8:58:11 AM	5/22/2017 9:00:51 AM	00:02:40
Powell Rd.	28375	5/22/2017 9:04:52 AM	5/22/2017 12:45:41 PM	03:40:49
Powell Rd.	28375	5/22/2017 8:21:21 PM	5/23/2017 8:15:01 AM	11:53:40
Powell Rd.	28375	5/23/2017 8:22:21 PM	5/24/2017 8:12:41 AM	11:50:20
Powell Rd.	28375	5/24/2017 8:21:41 PM	5/25/2017 8:12:42 AM	11:51:01
Powell Rd.	28375	5/25/2017 8:39:22 AM	5/25/2017 8:41:12 AM	00:01:50
Powell Rd.	28375	5/25/2017 8:47:52 AM	5/25/2017 8:49:52 AM	00:02:00
Powell Rd.	28375	5/25/2017 8:56:02 AM	5/25/2017 8:57:51 AM	00:01:49
Powell Rd.	28375	5/25/2017 9:03:21 AM	5/25/2017 9:05:12 AM	00:01:51
Powell Rd.	28375	5/25/2017 9:10:51 AM	5/25/2017 9:12:41 AM	00:01:50
Powell Rd.	28375	5/25/2017 9:18:21 AM	5/25/2017 9:20:11 AM	00:01:50
Powell Rd.	28375	5/25/2017 9:25:41 AM	5/25/2017 9:27:31 AM	00:01:50
Powell Rd.	28375	5/25/2017 9:33:12 AM	5/25/2017 9:34:52 AM	00:01:40
Powell Rd.	28375	5/25/2017 9:40:31 AM	5/25/2017 9:42:31 AM	00:02:00
Powell Rd.	28375	5/25/2017 9:47:42 AM	6/9/2017 8:42:52 AM	358:55:10
Powell Rd.	28375	6/9/2017 8:22:42 PM	6/10/2017 8:12:31 AM	11:49:49
Powell Rd.	28375	6/10/2017 8:21:11 PM	6/11/2017 8:12:41 AM	11:51:30
Powell Rd.	28375	6/11/2017 8:22:21 PM	6/12/2017 8:12:31 AM	11:50:10
Powell Rd.	28375	6/12/2017 8:22:01 PM	6/13/2017 8:12:41 AM	11:50:40
Powell Rd.	28375	6/13/2017 8:32:01 AM	6/13/2017 8:33:41 AM	00:01:40
Powell Rd.	28375	6/13/2017 8:39:51 AM	6/13/2017 8:41:42 AM	00:01:51
Powell Rd.	28375	6/13/2017 8:47:12 AM	6/13/2017 8:48:52 AM	00:01:40
Powell Rd.	28375	6/13/2017 8:54:33 AM	6/13/2017 8:56:12 AM	00:01:39
Powell Rd.	28375	6/13/2017 9:01:41 AM	6/13/2017 9:03:21 AM	00:01:40
Powell Rd.	28375	6/13/2017 9:06:32 AM	6/16/2017 8:30:02 AM	71:23:30
Powell Rd.	28375	6/16/2017 8:23:31 PM	6/17/2017 8:12:41 AM	11:49:10
Powell Rd.	28375	6/17/2017 8:22:01 PM	6/18/2017 8:12:52 AM	11:50:51
Powell Rd.	28375	6/18/2017 8:21:11 PM	6/19/2017 8:12:41 AM	11:51:30
Powell Rd.	28375	6/19/2017 8:23:11 AM	6/19/2017 8:25:01 AM	00:01:50
Powell Rd.	28375	6/19/2017 8:33:42 AM	6/19/2017 8:35:32 AM	00:01:50
Powell Rd.	28375	6/19/2017 8:42:31 AM	6/19/2017 8:44:21 AM	00:01:50
Powell Rd.	28375	6/19/2017 8:50:51 AM	6/19/2017 8:52:41 AM	00:01:50
Powell Rd.	28375	6/19/2017 8:56:21 AM		303:02:39
			HH:MM:SS	1851:17:55
Input: Primary Power				
Powell Rd.	28375	5/11/2017 1:12:25 AM	5/11/2017 2:08:41 AM	00:56:16
Powell Rd.	28375	5/28/2017 5:49:02 AM	5/28/2017 3:23:41 PM	09:34:39

HH:MM:SS	10:30:55

CYCLE TIMER SHUTDOWN 12 HRS DAILY	
*NOT ALL ALARMS SHUTDOWN THE SYSTEMS	HH:MM:SS
FLARE DOWNTIME MECHANICAL	1419:23:16
APR DAILY SHUTDOWN	120
MAY DAILY SHUTDOWN	144
JUNE DAILY SHUTDOWN	144

POWELL 1 QUARTER 2017

POST-CLOSURE QUARTERLY INSPECTION FORM
Powell Road Landfill

Date:	3/1/2017	**Last Inspection Date:**	12/5/2016
Landfill Type:	Closed Municipal/CERCLA	**Evaluator:**	TOM MILLER
Total Acreage: 76	76	**Filled Acreage:**	38
Date Closed: 1984	1984	**Date Capped:**	1985 - 2000

	GOOD	ADEQUATE	ATTENTION	NOT APPLICABLE
SECURITY & ACCESS:				
1. Perimeter Fencing		√		
2. Signs Posted	√			
3. Access Road	√			
4. Undesirable Uses Prevented	√			
COVER & VEGETATION:				
1. Final Cover Erosion	√			
2. Top Slope Good Drainage	√			
3. Side Slope Good Drainage	√			
4. Evidence of Gas or Leachate	√			
5. Vegetation Quality & Density	√			
DRAINAGE:				
1. Appropriate Runoff Controls		√		
2. Diversion Ditches		√		
3. Perimeter Ditches		√		
4. Perimeter Stone		√		
5. Outlet Structures		√		
6. Roads	√			
GW MONITORING WELLS:				
1. Construction Integrity	√			
2. Security of Wells	√			
3. Identification of Wells	√			
LEACHATE & GAS SYSTEMS:				
1. Collection Sumps/Risers	√			
2. Electrical Components	√			
3. Leachate Pad Loading	√			
4. Storage Tank	√			
5. Security of System		√		
6. Flare/Blower Operation	√			
7. Extraction Wells/Pumps		√		
8. Mechanical Components	√			
9. Gas Probes	√			
9. Evidence of Odors/Migration	√			
10. Autodialer	√			

COMMENTS: see maintenance page for system updates

Fence, Signs, Gates, and Locks Inspection Sheet

Landfill Identification:	Powell Rd	**Landfill Owner/Client:**	Robin Jones
Technician:	TOM MILLER	**Landfill Location:**	Huber Heights
Date of Inspection:	March 1, 2017		

Property Perimeter Fence Inspection Data:	**Yes**	**No**	**Comments**
Are all fence posts straight & free of damage:		√	See Below
Are all fence panels in good condition (no breaks in the fence):	√		No Comments
Are all fence panels securely fastened to all fence posts:	√		No Comments
Does the fence have barb wire runners installed atop the fence:	√		No Comments
If so, are all barb wire hangers in good condition and in place:	√		No Comments
And are all barb wire strands in good condition and in place:	√		No Comments
Are there any signs of trespassing:		√	No Comments
Are there any gaps in the fence between the ground & the bottom of the fence:		√	No Comments
Are all required signs attached to the fence in 150 ft intervals:	√		No Comments
Are all signs clearly legible and in good condition:	√		No Comments
Are all fence panels and barb wire runners clear of vegetation:	√		No Comments

Flare / UST Station Fence Inspection Data:	**Yes**	**No**	**Comments**
Are all fence posts straight & free of damage:	√		No Comments
Are all fence panels in good condition (no breaks in the fence):	√		No Comments
Are all fence panels securely fastened to all fence posts:	√		No Comments
Does the fence have barb wire runners installed atop the fence:	√		No Comments
If so, are all barb wire hangers in good condition and in place:	√		No Comments
And are all barb wire strands in good condition and in place:	√		No Comments
Are there any signs of trespassing:		√	No Comments
Are there any gaps in the fence between the ground & the bottom of the fence:		√	No Comments
Are all required signs attached to the fence in 150 ft intervals:	√		No Comments
Are all signs clearly legible and in good condition:	√		No Comments
Are all fence panels and barb wire runners clear of vegetation:	√		No Comments

Man way and Main Site Entrance Gates Inspection Data:	**Yes**	**No**	**Comments**
Are all gates in good condition:	√		No Comments
Are all gate hinges in good condition:	√		No Comments
Do all gates close completely and evenly:	√		No Comments
Are all gates locked only with approved site locks:	√		No Comments
Are all security chains heavy duty & in good condition:	√		No Comments
Are all security chains tightly wrapped twice around the gate & the support pole:	√		No Comments
Are all required signs attached to the main entrance site gate(s):	√		No Comments
Are all required signs attached to the man way gate(s):	√		No Comments

Additional Comments:

Fence along river is leaning due to trees falling but are not in need of repair at this time

Minor damage to fence along powell rd. Repairs planned for 2Q.

SURFACE WATER CONTROL INSPECTION LOG

Date Filed:_____

Ohio EPA Storm Water Construction General Permit No._____
Powell Road Landfill, Montgomery County, Ohio

Date of Inspection: 3/1/2017

Name of Inspector & Title: TOM MILLER-LANDFILL SUPERVISOR

Affiliation: WM EMPLOYEE

Qualifications _____

Weather Conditions: 50 wet

Completely fill in the information required below and sign where noted. Forward to Remedial Project Manager for filing.

1. Are measures to prevent erosion and sediment control adequate and properly implemented: YES
   (If no, describe observations, repairs needed, design changes needed, or other actions below.)
2. Are non structural practices (surface grading, vegetative cover, mulch, channel riprap) adequate: YES
3. Are structural practices (silt fencing and ditch checks) adeq N/A

Observations (NOTE: location, problem, erosion, sediment build up, damage, etc.):

A. Stabilization/Nonstructural Practices.

1. Surface Grading: In good condition

Actions to correct problem: N/A

2. Vegetative Cover In good condition

Actions to correct problem: N/A

3. Erosion Control Blanket and Mulch(NOTE: erosion control blankets and mulch are temporary controls and are designed to degrade overtime) In good condition

Actions to correct problem: N/A

Riprap Channel Lining: In good condition

Inspection Log - Cont. Date: 3/1/2017

Actions to correct problem: N/A

B. Structural Practices.

1. Silt fencing (NOTE: silt fencing is designed as a temporary control measure and will be removed once the vegetation is established): N/A

Actions to correct problems: N/A

2. Ditch checks (NOTE: ditch checks are designed as a temporary control measure and will be removed once the vegetation is established): In good condition

Actions to correct problems: N/A

C. Discharge locations (NOTE: any discharge of sediments off site): No

Actions to correct problems: N/A

D. Vehicles Tracking Sediment Off-Site NO

Actions to correct problem: N/A

E. Status of Previous Maintenance Activities (NOTE: location and problems):

Actions to correct problems: N/A

F. Other Remarks: N/A

Inspector's Signature: Signature on file

Date: 3/1/2017

Qr

Closed Site Management Group

Landfill Systems Equipment Inspection Report

Date: 3/1/2017 Location: Powell Rd Landfill Huber Heights, OH

Inspector: T. Miller

Landfill Gas Collection System:

		Yes	No	N/A	Comments
LFG Blower	Operating	x			
	Vibrations Noticed		x		
	Properly Greased	x			
	Excessive Noise		x		
Blower Motor	Properly Greased	x			
	Excessive Noise		x		
LFG Flare	Operating Properly	x			
	Igniter Functioning Properly	x			
	Pilot Fuel Operating Properly	x			
	Propane Supply Adequate	x			
Control Panel	Temperature Display Present	x			
	Display Lights Functioning	x			
	Blower Amps Functioning	x			
	Omnisite Ready / Functioning	x			
Electric Valves	Open During Operation	x			
	Closed During Shut-Down	x			

Air Supply:

Compressor	Maintaining Pressure	Yes			See Below
	Vibrations Noticed		No		None
	Proper Oil Level	Yes			None
	Excessive Noise		No		None

Leachate System:

Pump Stations	Sump Pumps Functioning		No		See below
	Fluids at an Acceptable Level	Yes			None
	Control Panel OK	Yes			None
	Air Supply OK	Yes			None
Storage Tank	Fluids at an Acceptable Level	Yes			None
	Proper Valve operation	Yes			None

LFG Dual Extraction Wells:

LFG Wells	Wellhead in Good Condition	Yes			Pumps have been removed from all wells
	Pump Connections Secure				N/A
	Proper Air Supply				N/A
	Cycle Counter Functioning				N/A
	Observed Pump Cycle				N/A

Comments: See status of KO pumps on site maintenance page.

Date: 3/1/2017 Location: Powell Rd Landfill Huber Heights, OH

Inspector: T Miller

PERMANENT GAS PROBE MONITORING REPORT
LANDFILL GAS EXTRACTION SYSTEM
POWELL ROAD LANDFILL

Combustible Gas Instrument Type:	CES Landtec GEM 5000	Serial No.:	gm5k0000-200-I
Date Last Calibrated:	3/1/2017	Method:	GA/Mode
Pressure Instrument Type:	CES Landtec GEM 5000	Serial No.:	gm5k0000-200-I
Water Level Instrument Type:	SOLINIST MODEL 101	Serial No.:	N/A
Weather Conditions:	50° Wet	Barometric Pressure:	29.72

Monitor Point	Time	Pressure In. W.C. (+/-)	Percent Methane	Water Level	Comments
GP-1	10:16	0.00	0.0	17.3	No Comments
GP-2	10:26	0.00	0.0	18.4	Dry
GP-3	9:45	0.00	0.0	11.6	No Comments
GP-4	9:40	0.01	0.0	14.5	No Comments
GP-5	9:35	0.01	0.0	11.5	No Comments
GP-6	9:26	-0.02	0.0	12.8	No Comments

Date Performed: 3/1/2017

By: TOM MILLER

Powell Sierra Monitors

Date: 3/1/2017

Technician: TOM MILLER

	ADDRESS, NAME & PHONE NUMBER	MONITOR FUNCTIONING PROPERLY?	MONITOR CALIBRATED?	MONITOR NEEDS ATTENTION?
1	Onsite Compressor Building	Yes	No	No

COMMENTS:

Powell Blower / Flare Station Data

Technician:	Tom Miller
Date:	1/19/2017
Client:	R. Jones, WM
Site:	Powell Rd
Temperature:	37
Barometric Press.:	30.01

Before Tuning

Location	CH4	CO2	O2	Bal.	Press./Vac.	Temp.	Flow	Comments
Blower In	40.4	27.7	0.9	31	-37	43	348	None
Blower Out	38.8	26.7	1.1	33.4	3.1	69	348	None

After Tuning

Location	CH4	CO2	O2	Bal.	Press./Vac.	Temp.	Flow	Comments
Blower In	40.1	27.4	0.7	31.8	-38	46	345	None
Blower Out	39.3	27.6	0.9	32.2	2.9	73	345	None

Blower Data:

	Yes	No	Comments
Blower Operating Properly?	x		
Motor Operating Properly?	x		

	Yes	No		Yes	No
Lube Blowers:	x		Check Valves:	x	
Check Belts/Drive:	x		Check Actuator:	x	
Drain Blower:	x		Check Flame Arrestor:	x	
Check Propane: PSI 60%	x		Check Compressor:	x	
Blower Hours:	26802.5		Check Auto-Dialer:	x	
Blower Amps:	15.15		Long Distance Service Active:	N/A	

Flare Data:

Flare Temperature:	1209		Check Ignition System:	x	
Drain Flare Stack:	x		Other:	None	

Compressor Data:

System Pressure:	108	psi	Check Compressor Drains:	x	
Check Motor:	x		Compressor hours	9313	

Comments:	Totalizer 94712432

Powell Wellfield Monitoring Data

Technician:	Tom Miller
Date:	1/19/2017
Client:	R. Jones, WM
Site:	Powell Rd
Temperature:	37
Barometric Press.:	30.01

ID	DATE	TIME	CH4	CO2	O2	Balance	Initial Static Press.	Temp. (Deg F)	Comments
POWLBLIN	1/19/2017	12:03	40.4	27.7	0.9	31.0	-37	43.0	
POWLBLOT	1/19/2017	12:08	38.8	26.7	1.1	33.4	3.1	69.0	
POWL0001	1/19/2017	12:38	40.2	31.9	0.1	25.9	-1.7	42.0	
POWL0002	1/19/2017	12:43	62.8	33.9	0.1	1.3	-8.4	53.0	
POWL0003	1/19/2017	12:50	48.6	35.9	0.1	13.5	-3.5	50.0	
POWL0004	1/19/2017	12:54	4.3	7.1	15.7	71.0	-0.9	35.0	
POWL0005	1/19/2017	12:57	44.0	36.7	0.1	17.3	-5	51.0	
POWL0006	1/19/2017	13:52	38.1	34.2	0.1	25.7	-5.1	49.0	
POWL0007	1/19/2017	13:56	38.3	32.5	0.1	27.2	-5.3	41.0	
POWL0008	1/19/2017	13:59	24.7	26.8	0.8	45.8	-0.7	38.0	
POWL0009	1/19/2017	14:04	2.2	2.0	19.7	76.1	-0.1	37.0	
POWL0010	1/19/2017	14:10	2.2	2.5	19.8	75.5	0	35.0	
POWL0011	1/19/2017	14:14	32.3	27.9	0.1	37.8	-2.6	35.0	
POWL0012	1/19/2017	14:21	2.4	2.2	19.9	75.5	-0.3	34.0	
POWL0013	1/19/2017	14:27	39.9	29.0	1.0	28.2	-5.1	33.0	
POWL0014	1/19/2017	13:20	0.1	4.5	17.5	76.0	-0.1	33.0	
POWL0015	1/19/2017	13:16	43.6	27.6	0.1	26.8	-7	49.0	
POWL0016	1/19/2017	12:20	1.3	17.9	1.2	77.7	-0.1	49.0	
POWL0017	1/19/2017	12:26	23.9	23.2	3.6	47.4	-1.1	32.0	
POWL0018	1/19/2017	12:30	40.8	30.1	0.1	27.1	-9	53.0	
POWL0019	1/19/2017	13:09	58.9	16.6	4.9	17.7	-9.6	35.0	
POWL0020	1/19/2017	13:13	63.7	26.7	1.1	6.6	-36.1	35.0	
POWL0021	1/19/2017	13:33	7.4	5.3	16.0	69.4	-0.5	33.0	
POWL0022	1/19/2017	13:38	72.9	18.6	1.3	5.3	-3.6	35.0	
POWL0023	1/19/2017	13:42	54.5	29.7	2.0	11.9	-35.4	50.0	
POWL0024	1/19/2017	13:46	3.0	1.4	20.6	75.0	-5.3	38.0	
POWL0025	1/19/2017	13:03	63.2	28.7	1.1	5.1	-35.3	38.0	
POWL0026	1/19/2017	13:06	62.4	32.7	0.9	2.1	-14.5	40.0	
POWLBLIN	1/19/2017	14:36	40.1	27.4	0.7	31.8	-38	46.0	
POWLBLOT	1/19/2017	14:40	39.3	27.6	0.9	32.2	2.9	73.0	

Comments:

Waste Management, Powell Rd Landfill
Landfill Gas and Condensate Collection Systems Maintenance Summary Report

1/2017 TO 3/2017 **WM Completed Maintenance**

Date	System Repaired	Proactive/ Reactive	Diagnosis of Problem Causing Reactive Action	Corrective Action / Description of Maintenance Performed
1/19/2017			Damaged Heater	Replaced heater in the compressor building
2/1/2017		Reactive	Gas System	Gas System was down for the Month of Feb. due to field issues with the air leak to the condensate sumps. System was left off to prevent issues that could arise from air intrusion into the site.
3/21/2017	Leachate	Reactive	Broken airline knock out system	Began installing Iso valves to contain damged line
3/24/2017	Leachate	Reactive	Broken airline knock out system	Installed isolation valves in the airline system: 1 on the north, 1 on the east, 2 on the south and 2 on the west. The damaged line is in the NW corner of the site and has been isolated to allow the system to function.

Additional Comments: 1/12/17 Turned air on to KO 1&2 to pump down levels. 1/13/17 turned air off
1/24/17 Turned air on to KO 1&2 to pump down level. 2/1/17 turned air off.

Powell Road Omni Alarm System
January 1, 2017 to March 31, 2017

- Alarm History -				
Station	Device	Alarm Start	Alarm End	Alarm Duration
Input: Flare Failure				
Powell Rd.	28375	1/1/2017 12:01:26 AM	1/13/2017 9:55:51 AM	297:54:25
Powell Rd.	28375	1/13/2017 8:19:31 PM	1/14/2017 8:09:32 AM	11:50:01
Powell Rd.	28375	1/14/2017 8:20:51 PM	1/15/2017 8:09:51 AM	11:49:00
Powell Rd.	28375	1/15/2017 8:20:51 PM	1/16/2017 8:09:41 AM	11:48:50
Powell Rd.	28375	1/16/2017 8:21:32 PM	1/17/2017 8:09:42 AM	11:48:10
Powell Rd.	28375	1/17/2017 8:20:01 PM	1/18/2017 8:10:42 AM	11:50:41
Powell Rd.	28375	1/18/2017 8:21:02 PM	1/19/2017 8:09:31 AM	11:48:29
Powell Rd.	28375	1/19/2017 8:20:32 PM	1/20/2017 8:10:22 AM	11:49:50
Powell Rd.	28375	1/20/2017 8:20:53 PM	1/22/2017 12:17:22 PM	39:56:29
Powell Rd.	28375	1/22/2017 12:25:11 PM	1/23/2017 8:26:32 AM	20:01:21
Powell Rd.	28375	1/23/2017 8:39:53 AM	1/24/2017 9:06:41 AM	24:26:48
Powell Rd.	28375	1/24/2017 9:09:31 AM	2/1/2017 1:01:12 PM	195:51:41
Powell Rd.	28375	2/1/2017 1:03:12 PM	3/1/2017 11:35:53 AM	670:32:41
Powell Rd.	28375	3/1/2017 12:04:46 AM	3/1/2017 11:35:53 AM	11:31:07
Powell Rd.	28375	3/1/2017 8:18:32 PM	3/2/2017 8:10:52 AM	11:52:20
Powell Rd.	28375	3/2/2017 8:20:12 PM	3/3/2017 8:10:51 AM	11:50:39
Powell Rd.	28375	3/3/2017 9:22:21 AM	3/8/2017 5:57:42 PM	128:35:21
Powell Rd.	28375	3/8/2017 8:22:01 PM	3/9/2017 8:11:21 AM	11:49:20
Powell Rd.	28375	3/9/2017 8:22:02 PM	3/10/2017 8:10:51 AM	11:48:49
Powell Rd.	28375	3/10/2017 8:20:32 PM	3/11/2017 8:10:41 AM	11:50:09
Powell Rd.	28375	3/11/2017 8:15:52 AM	3/11/2017 8:25:41 AM	00:09:49
Powell Rd.	28375	3/11/2017 8:21:41 PM	3/12/2017 9:10:51 AM	12:49:10
Powell Rd.	28375	3/12/2017 9:21:41 PM	3/13/2017 9:11:22 AM	11:49:41
Powell Rd.	28375	3/13/2017 9:21:32 PM	3/14/2017 9:10:51 AM	11:49:19
Powell Rd.	28375	3/14/2017 9:21:11 PM	3/15/2017 9:11:02 AM	11:49:51
Powell Rd.	28375	3/15/2017 9:15:31 AM	3/15/2017 9:18:22 AM	00:02:51
Powell Rd.	28375	3/15/2017 9:23:21 AM	3/15/2017 9:26:12 AM	00:02:51
Powell Rd.	28375	3/15/2017 9:21:12 PM	3/16/2017 9:11:02 AM	11:49:50
Powell Rd.	28375	3/16/2017 9:15:22 AM	3/16/2017 9:26:04 AM	00:10:42
Powell Rd.	28375	3/16/2017 9:21:42 PM	3/17/2017 9:10:51 AM	11:49:09
Powell Rd.	28375	3/17/2017 9:22:01 PM	3/18/2017 9:10:52 AM	11:48:51
Powell Rd.	28375	3/18/2017 9:20:51 PM	3/19/2017 9:10:51 AM	11:50:00
Powell Rd.	28375	3/19/2017 9:17:51 AM	3/19/2017 9:41:01 AM	00:23:10
Powell Rd.	28375	3/19/2017 9:45:51 AM	3/19/2017 9:50:11 AM	00:04:20
Powell Rd.	28375	3/19/2017 10:01:41 AM	3/19/2017 10:07:02 AM	00:05:21
Powell Rd.	28375	3/19/2017 10:21:41 AM	3/19/2017 10:27:21 AM	00:05:40
Powell Rd.	28375	3/19/2017 9:21:11 PM	3/20/2017 9:10:52 AM	11:49:41
Powell Rd.	28375	3/20/2017 9:20:52 PM	3/21/2017 9:11:01 AM	11:50:09
Powell Rd.	28375	3/21/2017 9:24:51 AM	3/21/2017 9:28:11 AM	00:03:20
Powell Rd.	28375	3/21/2017 11:54:02 AM	3/22/2017 9:16:04 AM	21:22:02
Powell Rd.	28375	3/22/2017 9:21:32 AM	3/22/2017 9:24:02 AM	00:02:30
Powell Rd.	28375	3/22/2017 9:36:42 AM	3/22/2017 9:39:11 AM	00:02:29
Powell Rd.	28375	3/22/2017 9:45:52 AM	3/22/2017 9:48:14 AM	00:02:22
Powell Rd.	28375	3/22/2017 9:50:21 AM	3/24/2017 9:11:11 AM	47:20:50
Powell Rd.	28375	3/24/2017 9:21:03 PM	3/25/2017 9:11:02 AM	11:49:59
Powell Rd.	28375	3/25/2017 9:22:31 PM	3/26/2017 9:11:11 AM	11:48:40

Powell Rd.	28375	3/26/2017 9:22:25 PM	3/27/2017 9:11:01 AM	11:48:36
Powell Rd.	28375	3/27/2017 9:16:42 AM	3/27/2017 9:18:52 AM	00:02:10
Powell Rd.	28375	3/27/2017 9:24:32 AM	3/27/2017 9:27:02 AM	00:02:30
Powell Rd.	28375	3/27/2017 9:32:25 AM	3/27/2017 9:34:42 AM	00:02:17
Powell Rd.	28375	3/27/2017 9:42:31 AM	3/27/2017 9:44:53 AM	00:02:22
Powell Rd.	28375	3/27/2017 9:22:02 PM	3/28/2017 9:10:51 AM	11:48:49
Powell Rd.	28375	3/28/2017 9:15:42 AM	3/28/2017 9:17:41 AM	00:01:59
Powell Rd.	28375	3/28/2017 9:08:21 PM	3/29/2017 9:59:21 AM	12:51:00
Powell Rd.	28375	3/29/2017 9:21:42 PM	3/30/2017 9:11:22 AM	11:49:40
Powell Rd.	28375	3/30/2017 9:22:11 PM	3/31/2017 9:11:02 AM	11:48:51
Powell Rd.	28375	3/31/2017 5:39:31 PM	3/31/2017 5:43:12 PM	00:03:41
Powell Rd.	28375	3/31/2017 5:46:12 PM	3/31/2017 5:47:42 PM	00:01:30
Powell Rd.	28375	3/31/2017 8:03:44 PM	3/31/2017 8:12:53 PM	00:09:09
Powell Rd.	28375	3/31/2017 9:02:02 PM	4/1/2017 10:32:51 AM	13:30:49
Powell Rd.	28375	4/1/2017 10:40:51 AM		13:18:09
			HH:MM:SS	2030:50:45

CYCLE TIMER SHUTDOWN 12 HRS DAILY	
*NOT ALL ALARMS SHUTDOWN THE SYSTEMS	HH:MM:SS
FLARE DOWNTIME MECHANICAL	1474:40:48
JAN DAILY SHUTDOWN	84
FEB DAILY SHUTDOWN	0
MAR DAILY SHUTDOWN	276