

Municipal Waste Landfill Inspection Report

Permit Number	100022	EPA ID Number	----
Facility Name	CHRIN BROS SANI LDFL	Operator Name	CHRIN BROS INC
Address	1225 INDUSTRIAL DR	Address	1225 INDUSTRIAL DR
City/State/Zip	EASTON PA 18042-6829	City/State/Zip	EASTON PA 18042-6829
Municipality	Williams Township	County	Northampton
Responsible Official	Gregory Chrin	Title	Owner/Operator
Person Interviewed	Joseph Klobusicky	Title	Environmental Manager
Lead Inspector	AMY E FAULCH	Telephone #	1
Site ID	238053	Title	SLD WASTE SUPV
PF ID	240650	Client ID	42952
Inspection Start Date	08/01/2023 10:00 AM	SF ID	201820
Inspection Type	RTNC - Routine/Complete Inspection	Inspection End Date	08/01/2023 12:00 PM
Permit Expiration Date	01/06/2030	Inspection Result	No Violations Noted
		Days/Week Operated	6
		Max. Daily Volume	2000 Tons/Day

Check Lists

Municipal Waste Landfill (0131)			
Status	Requirement	Chapter Citation	Line Item
GENERAL PROVISIONS			
No Violation	Required insurance in effect	271.371	1
	(expiration date) 12/02/2023		1A
No Violation	Operation in accordance with approved plans and permit.	273.201(c)(2)	2
No Violation	Operation within permit boundaries (vertical and horizontal).	273.201(c)(2)	3
No Violation	Disposal Timing and sequence as per Section 273.112(1).	273.201(c)(2)	4

No Violation	No unapproved wastes or liquids.	273.201(d)-(m)	5
No Violation	Isolation distances are adhered to.	273.202(a)	6
No Violation	Facilities certification requirements followed.	273.203(a), (b)	7
No Violation	Written Department approval of new construction prior to waste disposal.	273.203(c)	8
DAILY OPERATIONS			
No Violation	Proper signs posted.	273.211(a)	9
No Violation	Site perimeter clearly marked and grid coordinate system in use.	273.211(b)-(d)	10
No Violation	Proper barriers installed around site and access controlled when attendant not present.	273.212(a)-(i)	11
No Violation	Access roads maintained and negotiable by collection vehicles.	273.213(a)-(i)	12
No Violation	Approved means of measuring and inspected waste utilized.	273.214(a), (b)	13
No Violation	Adequate equipment on-site and stand-by equipment available.	273.215(a), (b)	14
No Violation	Vehicles directed promptly to unloading area and promptly unloaded.	273.216(a), (b)	15
No Violation	Solid waste spread and compacted as approved by Department as part of permit.	273.216(c)	16
No Violation	Operator implements fugitive air contaminant control/measures and prevents and controls air pollution including no exceeding of ambient air quality standards, no open burning, and minimizing generation of fugitive dust emissions from facility.	273.217(a)	17
No Violation	Operator complies with Air Quality Plan approval and Air quality Operating Permit.	273.217(b)	18
No Violation	Operator does not cause or allow attraction, harborage, or breeding of vector.	273.218(a)	19
No Violation	Operator implements nuisance minimization and control plan.	273.218(b)(1)	20

No Violation	Operator performs regular, frequent, and comprehensive site inspections to reduce potential for offsite odors.	273.218(b)(2)	21
No Violation	Operator promptly addresses and correct problems and deficiencies discovered during inspections.	273.218(b)(3)	22
No Violation	Operator implements nuisance minimization and control plan to minimize and control other conditions harmful to the environment or public health, or which create safety hazards, odors, dirt, noise, unsightliness and other public nuisances.	273.218(c)	23
No Violation	Operator does not receive solid waste at a landfill in excess of the maximum or average daily volume approved in the permit.	273.221(a)	24
No Violation	Operator implements radiation protection action plan.	273.223(a)	25
No Violation	Operator monitors incoming waste in accordance with Department's guidance or in a manner at least as protective of the environment, facility staff and public health and safety.	273.223(b)	26
No Violation	Radiation detector elements shall be as close as practical to wasteload and in appropriate geometry to monitor the waste.	273.223(c)	27
No Violation	Operator has portable radiation monitors capable of determining the dose rate and presence of contamination of a vehicle that has caused an alarm. Upon exceedance of alarm level, a radiological survey of the vehicle is performed.	273.223(d)	28
No Violation	Operator notifies Department immediately and isolates vehicle when radiation dose rates are exceeded.	273.223(e)	29
No Violation	Monitoring equipment is calibrated at frequency specified by manufacturer, but not less than once a year.	273.223(f)	30

No Violation	If radioactive material is detected, vehicle containing material shall not leave facility without written Department approval and an authorized federal Department of Transportation exemption form.	273.223(g)	31
No Violation	Uniform cover of the approved daily cover material is placed on exposed solid waste at the end of each working day or at the end of every 24 hours, whichever interval is less.	273.232(a)	32
No Violation	If intermediate cover requires revegetation, it is established within 30 days.	273.233(e)	33
No Violation	Slopes constructed during daily landfilling and intermediate cover activities may not exceed 50 percent.	273.233(f)	34
No Violation	Operator does not cause or allow waste pollution within or outside the site from operation of the facility.	273.241(a)-(c)	35
Not Applicable	Operator has restored or replaced adversely affected water supply with an alternative source of like quantity and quality.	273.245(a)	36
Not Applicable	Temporary water supply is provided within 48 hours.	273.245(b)	37
Not Applicable	Permanent water supply is provided within 90 days.	273.245(c)	38
No Violation	No waste 15 feet of inside top of the lined perimeter berm.	273.252(e)	39
No Violation	Lined perimeter berm 4 ft. high constructed and maintained along edge of the lined disposal area.	273.252(f)	40
No Violation	Edge of liner clearly marked.	273.252(g)	41
Not Applicable	Alternate leachate recirculation method may be used if approved if one of the liner systems is a composite liner.	273.274(b)	42
No Violation	Underground pipes used to transport leachate to leachate storage impoundments or tanks equipped with secondary containment or comply with 245.445.	273.275(g)	43

Not Applicable	Operator isolates coal seams, coal outcrops and coal refuse from waste deposits to prevent combustion of waste and damage to liner.	273.291(a)	44
Not Applicable	Mine openings within site sealed as approved by Department.	273.291(b)	45
Not Applicable	Operator implements plan for controlling potential damage from subsidence submitted and approved under 273.120.	273.291(c)	46
No Violation	Landfill designed, constructed, maintained and operated to prevent and minimize potential for fire, explosion, or release of solid waste constituents into air, water, or soil of the Commonwealth.	273.301	47
No Violation	Emergency equipment including portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment available. For fire equipment requiring water, facility has a water supply of or adequate quantity and pressure to supply the equipment.	273.302(a)	48
No Violation	Emergency equipment tested and maintained.	273.302(c)	49
No Violation	Adequate space maintained to allow unobstructed movement of emergency personnel and equipment.	273.302(d)	50
No Violation	Litter controlled/collected and barriers/fences in place.	273.220(a)-(c)	51
COVER/SLOPES/REVEGETATION			
No Violation	Daily/intermediate cover meets performance and design requirements.	273.232(b), 273.233(b), (c)	52
No Violation	Minimum 5 day supply of daily and intermediate cover maintained on-site.	273.232(c) & 273.233(d)	53
No Violation	Intermediate cover applied within time limits.	273.233(a)	54
No Violation	Intermediate slopes do not exceed 50%.	273.232(d)	55
No Violation	Cap placed over entire surface of final lift meets performance standards.	273.234(a)(1)	56
No Violation	Final cover meets performance and design requirements; applied within time limits.	273.234(b)-(e)	57

No Violation	Final slopes stable and erosion controlled.	273.234(f)	58
No Violation	Final slopes graded 3-15% or terraced to 33% as approved.	273.234(g)	59
No Violation	Minimum revegetation and successful revegetation requirements adhered to.	273.235(a)-(e) 273.236(a), (b)	& 60
WATER QUALITY PROTECTION			
No Violation	Surface and groundwater treatment facilities properly operated and maintained.	273.241(b)	61
No Violation	Surface water percolation minimized/prevented.	273.242(b)(1) & 273.234(e) (4)	62
No Violation	Soil erosion and sedimentation controls designed and implemented as per approved plans; gullies over nine inches repaired.	273.242(a)-(c)	63
No Violation	Sedimentation ponds and discharge structures designed, constructed, operated, and maintained in accordance with Chapters 273, 102, and 105.	273.243(a)-(g) & 273.244	64
LINER SYSTEM			
No Violation	Liner system designed, constructed, operated, and maintained when required.	273.251(a), (b)	65
No Violation	Edge of liner requirements adhered to (i.e., no waste within 25 feet if adjacent liner, 4 feet high lined berm, to prevent lateral escape of leachate, adequate spacing on inside of berm to collect stormwater and sediment).	273.252(d)	66
No Violation	Leachate detection zone monitored weekly.	273.255(c)	67
No Violation	Protective cover protects primary liner and leachate collection system and allows free flow of leachate into the collection system.	273.257(a)	68
No Violation	Protective cover meets minimum requirements and at least 18 inches thick.	273.257(b)	69
No Violation	Leachate collection system within protective cover meets minimum requirements.	273.258(a), (b)	70

No Violation	Barrier designed, constructed and maintained as required to prevent lateral migration of leachate off-site in surface mined areas.	273.259(a)-(d)	71
No Violation	8 feet of select waste placed over protective cover.	273.260	73
LEACHATE TREATMENT			
No Violation	Leachate collected and handled through Department approved method(s).	273.272(a)-(c)	74
Not Applicable	Leachate transportation requirements adhered to.	273.273(a)-(c)	75
No Violation	Cessation of site operation if alternate leachate handling not available.	273.273(d)	76
Not Applicable	Leachate treatment system permitted and fully operational at least 3 years before closure.	273.273(e)	77
Not Applicable	Leachate recirculation in accordance with regulations.	273.274(1)-(4)	78
No Violation	Leachate collection and storage systems on-site have capacity of 30 days or 250,000 gallons, whichever is greater.	273.275(a)-(f)	79
No Violation	Leachate flow rate measured daily; analyzed quarterly.	273.276(a)-(b)	80
No Violation	Department notified when remedial action(s) required.	273.277(1)-(4)	81
WATER QUALITY MONITORING			
No Violation	Approved monitoring system installed and maintained.	273.281(a), (b) & 273.283	82
No Violation	Quarterly and annual monitoring requirements adhered to and results submitted Department within time constraints.	273.284 & 273.285	83
No Violation	Groundwater assessment plan submitted and implement as required.	273.286(a)-(g)	84
No Violation	Groundwater abatement plan submitted and implemented as required.	273.287(a)-(f)	85
RECORDKEEPING AND REPORTING			

No Violation	Operational records maintained, available and submitted as required.	273.288 & 273.311-273.313	86
No Violation	Daily Operational Records kept in accordance with regulations for the life of the facility bond or longer if necessary.	273.311(d)	87
No Violation	Operator submits quarterly operation report.	273.312	88
No Violation	Operator submits annual operation report with fee.	273.313	89
MINERALS AND GAS			
No Violation	Gas venting and monitoring in accordance with approved plans.	273.292(a)-(d)	90
No Violation	Combustible gas levels not exceeded.	273.292(e)	91
No Violation	Forced gas venting if required.	273.292(f)	92
No Violation	Gas recovery conducted as per approved plan and §273.293, including annual analysis.	273.293(a), (b)	93
EMERGENCY PROCEDURES			
No Violation	Contingency plan implemented if there is an emergency.	273.303(a)-(c)	94
RECYCLING			
No Violation	Operator shall salvage and recycle waste in accord with recycling plan. (273.196)	273.331(a)	95
No Violation	Salvaging and recycling controlled by operator and prevents interference within operations and prevents health hazardous nuisance.	273.331(b)	96
No Violation	Salvaged materials stored in an approved area or transported offsite.	273.331(c)	97
No Violation	Drop off center established for at least three recyclables.	273.332(a)	98
No Violation	Drop off center properly located, contains bins or containers, open at least 8 hours per week and 4 hours during evenings or weekends.	273.332(b), (c)	99
No Violation	Approved public notice of availability of drop off center availability is provided.	273.332(d)	100

No Violation	On or before January 15 each year, operator informs municipality in writing of weight and type of materials recycled previous year.	273.332(e)	101
SPECIAL HANDLING AND RESIDUAL WASTES			
No Violation	Special handling and residual wastes disposed with prior Department approval, and in accordance with permit and Chapter 273.	273.501	102
Not Applicable	Infectious waste disposal restrictions adhered to.	273.511(a)-(d)	103
Not Applicable	Chemotherapeutic waste disposal restrictions adhered to.	273.512	104
No Violation	Sewage sludge co-disposal and monofill requirements followed.	273.513	105
No Violation	Sewage sludge sampling requirements adhered to and sludge meets standards for control of pathogens, vectors, and odors.	273.513(c)	106
Not Applicable	Disposal of municipal waste incineration ash in landfill or landfill cell that meets Chapter 273 requirements.	273.514(a)	107
Not Applicable	Ash residue disposal in dedicated landfill or landfill cell unless co-disposal in accordance with Chapter 273 (including leachability treatment).	273.514(b)	108
Not Applicable	Ash residue covered immediately or as approved by the Department.	273.514(c)	109
BONDING AND INSURANCE			
No Violation	Bond filed with Department.	271.312	110
No Violation	Bond maintained in an amount and with guarantees as required.	271.333(b)	111
	Bond amount \$		111A
	Phased deposit due date		111B
No Violation	Proof of a commercial policy of liability insurances submitted to the Department as specified by 271.374.	271.374	112

Policy # GEC003617611	112A
Insurer (company name) Greenwich Insurance Company. NAIC 22322	112B
Expiration Date: 12/01/2023	112C

Comments

On August 1, 2023, the PA Department of Environmental Protection (“Department”) conducted a routine complete inspection at Chrin Bros. Sanitary Landfill (“Chrin”). Representing the Department was Amy Faulch (“this inspector”) and Edward McNulty. Joseph Klobusicky provided a site tour and was interviewed on behalf of Chrin. See the 8/1/23 odor patrol log for weather details.

The following Department personnel entered the landfill since the last 6/9/23 inspection: A. Faulch and S. White on 6/9/23; M. Glogowski and B. Lester on 6/29/23; R. Malizia on 7/18/23; and A. Faulch and E. McNulty on 8/1/23.

SITE TOUR:

Prior to entering Chrin, this inspector conducted an odor patrol in the areas surrounding the facility. A very light, intermittent sewage odor was detected near the sewage treatment plant. A light, intermittent garbage odor was detected along Industrial Dr. while driving behind a garbage truck. A very light, intermittent gas odor was detected along Morvale Rd. See 8/1/23 odor patrol log for details. During the site tour, this inspector viewed the working face in Stage 9B. Two trucks were dumping at the working face. An “excavated waste” odor was detected to the west of the working face. The perimeter line odor control misters were in operation.

Chrin has continued to improve intermediate cover in the Stage 9A and 9B areas. Some access road washouts from recent heavy rains have been repaired. Access roads were being watered at the time of this inspection. Excavated waste from the 3E waste relocation project is going to both the working face and to the 3D/3E to bring this area to grade for final capping. Construction and testing of the new leachate tank is complete. The new pad for Flare 3 is complete. Road work was being conducted on Industrial Dr. near Chrin’s entrance for running a new heat exchanger line to the new maintenance building. Chrin has begun moving equipment to the new maintenance building and dismantling the old 501 building.

Flare 4 was in operation during this inspection with a temperature of 1732°F and a flow of 2018 scfm. Flare 3 and the candlestick flare were not in operation. Two engines have been delivered to the new maintenance building for the gas to energy project.

ODOR COMPLAINTS:

The department received two new complaints since the last inspection on 6/9/23. The Department conducted odor patrols on 7/5/23 (efacts ID# 3579392), 7/14/23 (efacts ID# 3585152), 7/24/23 (efacts ID# 3588757), 8/1/23 (efacts ID# 3595789) and 8/18/23 (efacts ID# 3602454).

Check List Comments

Line Item 13 - Approved means of measuring and inspected waste utilized.

Remark: Chrin's scale was calibrated on 7/28/23. Chrin had xx overweight vehicles in June and XX overweight vehicles in July 2023.

Line Item 23 - Operator implements nuisance minimization and control plan to minimize and control other conditions harmful to the environment or public health, or which create safety hazards, odors, dirt, noise, unsightliness and other public nuisances.

Remark: Chrin's daily odor patrol logs and nuisance load logs were reviewed. Chrin's odor patrols and odor control measures appear to be following their nuisance minimization and control plan.

Line Item 24 - Operator does not receive solid waste at a landfill in excess of the maximum or average daily volume approved in the permit.

Remark: Daily tonnages were reviewed since the last inspection. There were no exceedances of the 2,000 ton limit. The greatest one-day tonnages to date are as follows: June 27- 760 tons; July 5- 826 tons.

Line Item 26 - Operator monitors incoming waste in accordance with Department's guidance or in a manner at least as protective of the environment, facility staff and public health and safety.

Remark: Radiation source checks were reviewed. Chrin's stationary radiation meters were calibrated on 7/8/23. Chrin has had no radiation hits since the last inspection.


Line Item 80 - Leachate flow rate measured daily; analyzed quarterly.

Remark: Leachate flow rates are as follows: June: 45,946 gallons per day July: 63,989 gallons per day

Inspection Report Signature Page

This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning either Violations noted herein, or other violations identified as a result of review of laboratory analyses. This report does not constitute an order or other appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein. Signature by the persons interviewed does not necessarily imply concurrence with the findings of this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

Signatures

Person Interviewed	Unable To Obtain Reason: Sent to facility via email	Date	--/------
Inspector		Date	08/18/2023

CASE: Chris Landfill

Investigator: A. Fauth

Date: 7/5/23

Weather Conditions: Sunny, 89°F, wind NW @ 3mph, 49% H

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
				EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
1-78	1300	N			
MHR x Industrial	1302	N			
Cedarville	1303	N			
Knollwood	1305	N			
Auburn	1306	N			
Sewage Trt. Plant	1309	SL	I	S	sewage odor
Congressional	1312	N			
Clubhouse	1313	N			
Turnberry	1315	N			
Menion	1316	N			
Water Tower	1317	N			
Clubhouse	1318	N			
Pine valley	1319	N			
Bethpage	1320	N			
Waterford	1320	N			
Prestwick	1321	N			
Oldcourse	1321	N			
St. Andrews	1322	N			

eFACTS # 3579392

Investigator: A. FaulchDate: 7/5/23CASE: Chrin Landfill

Weather Conditions: _____

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Oak Hill	1323	N			
MHR	1326	N			
MHR x Industrial	1327	N			
Industrial	1328	N			
Morvale	1330	N			
MHR	1334	N			
Waltman Loop	1335	N			
Mt. Top	1336	SL	I	O	"dead animal" odor
Spring Valley	1337	N			
MHR	1341	N			

Investigator: A. FaulchDate: 7/14/23CASE: Chrin LandfillWeather Conditions: Partly Cloudy, 85°F, wind WNW @ 2mph, 63% H.

ODOR PATROL SURVEY

eFACTS # 3585152

SURVEY LOCATION	TIME	ODOR INTENSITY	ODOR DURATION	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
		S = Strong M = Moderate SL = Slight N = None	P = Persistent I = Intermittent N = None	EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
1-78	1334	N			
MHR x Cedarville	1338	N			
Cedarville	1339	N			
Knollwood	1342	N			
Auburn	1343	N			
Sewage TA Plant	1346	SL	1	S	sewage odor - very light
Congressional	1350	N			
Clubhouse	1351	N			
Turnberry	1352	N			
Merion	1353	N			
Water Tower	1354	N			
Clubhouse	1356	N			
Pinehurst	1358	N			
Pine Valley	1400	N			
Bethpage	1401	N			
Waterford	1402	N			
Prestwick	1402	N			
Old Course	1403	N			

Investigator: A. Faulch Date: 7/14/23

CASE: Chrin Landfill
ODOR PATROL SURVEY

Weather Conditions: _____

SURVEY LOCATION	TIME	ODOR INTENSITY	ODOR DURATION	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
		S = Strong M = Moderate SL = Slight N = None	P = Persistent I = Intermittent N = None	EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
St. Andrews	1403	N			
Oak Hill	1404	N			
Spring Valley	1407	N			
Mt. Top	1408	N			
Waltman Loop	1410	N			
MHR	1411	N			
Merrake	1411	N			
Industrial	1415	N			
MHRx Industrial	1418	N			
MHR	1419	N			

Investigator: A. Faulch / E. McNulty Date: 7/24/23

CASE: Chrin Landfill

Weather Conditions: 73°F Cloudy Wind S 3mph Humidity 77%

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
I 78	9:03	S	I	O	Fertilizer odor
Morgan Hill Rd	9:06	N	N		
Industrial Dr. N	9:07	↓	↓		
Hilton St	9:08	↓	↓		
Industrial Dr.	9:13	↓	↓		
Morgan Hill Rd	9:13	S	I	O	Gasalime - from turkey Hill?
Morgan Hill x industrial	9:14	N	N		
Cedarville Rd	9:15	↓	↓		
Cedar Park	9:15	↓	↓		
Knollwood	9:16	↓	↓		
Auburn	9:17	↓	↓		
Cedar Park Blvd	9:17	↓	↓		
Cedarville Rd	9:18	SL	I	S	Very light
Congressional Dr	9:22	N	N		
Clubhouse Dr	9:23	↓	↓		
Turkeyberry Dr	9:24	↓	↓		
Merian Ln	9:25	↓	↓		
Water Tower	9:25	↓	↓		

CASE: Chirn Landfill

Investigator: A. Faulstich / E. McNulty Date: 7/24/23

Weather Conditions: _____

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY	ODOR DURATION	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
		S = Strong M = Moderate SL = Slight N = None	P = Persistent I = Intermittent N = None	EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
Clubhouse	9:28	N			
Pinehurst	9:30				
Pine Valley Terr	9:30				
Beth Page Terr	9:32				
Waterford	9:32				
Prestwick	9:32				
Old Course	9:33				
St Andrews	9:33				
Oak Hill	9:34				
Morgan Hill Rd	9:35				
Morg Hill x Ind. Rd	9:37	↓			
Industrial	9:38	SL	I	G	Fishy garbage odor by gas station
Monvale Rd	9:46	N			
Morgan Hill Rd	9:49				
Waltman Loop Ln	9:49				
Mountain Top	9:51				
Spring Valley	9:52	↓			

Investigator: A. FaulchDate: 8/18/23CASE: Chrin LandfillWeather Conditions: Partly Cloudy, 73°F, wind W @ 16mph, 65% H

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
				EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
I-78	1100	N			
MHR x Industrial	1102	N			
Cedarville	1103	N			
Knollwood	1108	N			
Auburn	1109	N			
Sewage Trt Plant	1112	SL	1	S	light sewage odor
Congressional	1114	N			
Clubhouse	1115	N			
Turnberry	1116	N			
Mendon	1117	N			
Water Tower	1117	N			
Clubhouse	1119	N			
Pinehurst	1121	N			
Pine Valley	1122	N			
Bethpage	1124	N			
Waterford	1125	N			
Prestwick	1125	N			
Old Course	1126	N			

eFACTS # 3602454

Investigator: _____ Date: _____

Weather Conditions: _____

CASE: _____

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
				EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
St. Andrews	1126	N			
Sak Hill	1127	N			
MHR	1128	N			
MHR x Industrial	1129	N			
Industrial	1130	SL	I	O	light "fried food" odor @ Pop's
Morvale	1133	N			
MHR	1138	N			
Waltman Loop	1138	N			
Mt. Top	1139	N			
Spring Valley	1140	SL	I	G	very light garbage odor @ end of SVR
MHR	1146	N			
MHR x Industrial	1148	N			

Investigator: E. McNulty A. Faulch Date: 8-1-2023

CASE: Chrin Landfill

Weather Conditions: 73°F Sunny Winds 6mph N 51% Humidity

ODOR PATROL SURVEY

eFACTS # 3595789

SURVEY LOCATION	TIME	ODOR INTENSITY	ODOR DURATION	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS	
		S = Strong M = Moderate SL = Slight N = None	P = Persistent I = Intermittent N = None	EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)		
I 78	10:03	N				
MHR x Industrial	10:04					
Cedarville	10:05					
Knoll Wood	10:07					
Auburn	10:08					
Cedarville	10:09					
Treatment Plant	10:10		SL	I	S	very light sewage odor
Congressional			N			
Cedarville	10:11					
Congressional	10:13					
Clubhouse	10:14					
Turnberry	10:15					
Marion	10:15					
Water Tower	10:16					
Clubhouse	10:18					
Pinehurst	10:19					
Pine Valley	10:20					
Both Page	10:22		✓			

Investigator: A. Faulds / E. McNulty Date: 8/1/23
 Weather Conditions: _____

CASE: Chrin Landfill
ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
				EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
Waterford	10:23	N			
Prestwick	10:23				
Old Course	10:23				
St. Andrews	10:24				
Oak Hill	10:24				
Marg. Hill	10:25				
MHR x Industrial	10:26				
Industrial	10:27	SL	I	G	Driving behind garbage Truck
Morcalle	10:30	SL	I	LFG	very light gas odor
Marg. Hill	10:33	N			
Spring Valley	10:34				
Cell tower	10:38				
Spring Valley	10:42				
Mountain Top	10:42				
Waltman Loop	10:43				
Marg. Hill	10:44				
Morcalle	10:45				
Industrial	10:46				

Enter Landfill — 10:46

CHRIN ODOR COMPLAINT LOG (1225 Industrial Dr., Easton, PA 18042)

Date	Time	Address	Distance from Landfill (miles)	Weather Data (Allentown KABE) www.wunderground.com			Residence / Drive-by	Description / Notes	Gas Management Data					Date of Initial Response	Addressed in Insp Report Dated	
				Skies	Temperature °F	Wind (out of)			Flare 1 (scfm)	Flare 3 (scfm)	Flare 4 (scfm)	PPL (scfm)	Total (scfm)			
01/02/23	17:28	Pine Valley Ter., Easton	NA		53	West 0-1 mph	Drive-by	Calling regarding the Chrin Landfill in Williams Twp. It just stinks so bad on Industrial Dr. every time I drive by there. It's dangerous. It's not good to be breathing this or have my kids breathing it, it's just terrible. I don't bother filling out complaints anymore because nothing ever changes. You guys aren't ever going to tell the dump not to be there, you know, no matter what happened until we're supposed to cap it. It definitely smells worse on Industrial Dr. than it does at my house. There's not a day that it doesn't stink on Industrial Blvd. in the evening and that's when I'm usually driving there. I don't know if it's because once the air cools, something happens.		1672				1672	01/04/23	01/06/23
01/09/23	16:29	Pine Valley Ter., Easton	NA		40	Northwest 0-1 mph	Drive-by	I live in Williams Twp. & I just wanted to let you guys know I smell it now. Today is a colder day. So I can smell it on the switchback coming down to town.		1428				1428	01/26/23	02/09/23
03/31/23	19:33	Pine Valley Ter., Easton	1.348		57	South 5-6 mph	Residence	Odors of human waste have been on caller's property for w few hours.		1540				1540	04/03/23	05/04/23
04/14/23	10:27	Spring Valley Rd., Easton	unknown		79	North 1-2 mph	Residence	Odor complaint-submitted to Williams Twp.		1213				1213	04/17/23	05/04/23
05/06/23	1:46	Merion Ln., Easton	1.744		44	Southeast 0-1 mph	Residence	Heavy gas odor on property		1441				1441	05/08/23	05/04/23
05/07/23	7:43	Merion Ln., Easton	1.744		54	Southeast 0-1mph	Residence	Landfill odor on property		1416				1416	05/08/23	05/04/23
5/7/23?	unknown	Spring Valley Rd., Easton	unknown		no time frame	no time frame	Residence	Odor complaint-submitted to Williams Twp. Odor over the weekend at residence, comes & goes, but no odor at time of call. Smell of rotting fish in garage & car.		1416				1416	05/08/23	05/04/23
06/05/23	6:27	Pine Valley Ter., Easton	1.297				Residence	Landfill associated gaseous smell on my property this morning.							06/09/23	06/09/23
07/21/23	0:17	Pine Valley Ter., Easton	1.297				Residence	I took my dog out at 12:15 AM today and the smell from the landfill made me sick to my stomach, the odor was so strong!							07/24/23	08/01/23
08/18/23	13:05	Waltman Loop Lane	0.943				Residence	Excessive odors from the Chrin landfill. I'm out working in my yard and it's enough to choke a horse!							08/18/23	08/01/23

2023	Daily	Total Week	Month Average	Day	Total Month	Total Quarter
June						
1	704.1		704.1	1	704.1	31,582.7
2	718.9		711.5	2	1,423.0	32,301.6
3	222.1		548.4	3	1,645.1	32,523.7
4		3,421.50			1,645.1	32,523.7
5	700.6		586.4	4	2,345.7	33,224.3
6	670.2		603.2	5	3,015.9	33,894.5
7	720.5		622.7	6	3,736.4	34,615.0
8	665.8		628.9	7	4,402.2	35,280.8
9	637.3		629.9	8	5,039.5	35,918.1
10	98.3		570.9	9	5,137.8	36,016.4
11		3,492.70			5,137.8	36,016.4
12	683.5		582.1	10	5,821.3	36,699.9
13	629.3		586.4	11	6,450.6	37,329.2
14	597.9		587.4	12	7,048.5	37,927.1
15	664.8		593.3	13	7,713.3	38,591.9
16	536.9		589.3	14	8,250.2	39,128.8
17	74.2		555.0	15	8,324.4	39,203.0
18		3,186.60			8,324.4	39,203.0
19	743.4		566.7	16	9,067.8	39,946.4
20	624.8		570.2	17	9,692.6	40,571.2
21	675.8		576.0	18	10,368.4	41,247.0
22	625.8		578.6	19	10,994.2	41,872.8
23	538.1		576.6	20	11,532.3	42,410.9
24	107.7		554.3	21	11,640.0	42,518.6
25		3,315.60			11,640.0	42,518.6
26	674.2		559.7	22	12,314.2	43,192.8
27	760.6		568.5	23	13,074.8	43,953.4
28	607.8		570.1	24	13,682.6	44,561.2
29	696.5		575.2	25	14,379.1	45,257.7
30	588.7		575.7	26	14,967.8	45,846.4
Month Total						
14,967.8						
Quarter Total						
45,846.4						

2023	Daily	Total Week	Month Average	Day	Total Month	Total Month
JULY						
1	121.5		121.5	1	121.5	121.5
2		121.50			121.5	121.5
3	742.3		431.9	2	863.8	863.8
4	HOLIDAY				863.8	863.8
5	826.9		287.9	3	863.8	1,690.7
6	788.9		422.7	4	1,690.7	2,479.6
7	714.5		495.9	5	2,479.6	3,194.1
8	194.7		532.4	6	3,194.1	3,388.8
9		3,267.30			3,388.8	3,388.8
10	732.2		484.1	7	3,388.8	4,121.0
11	711.9		515.1	8	4,121.0	4,832.9
12	602.2		537.0	9	4,832.9	5,435.1
13	655.9		543.5	10	5,435.1	6,091.0
14	574.0		553.7	11	6,091.0	6,665.0
15	125.9		555.4	12	6,665.0	6,790.9
16		3,402.10			6,790.9	6,790.9
17	713.5		522.4	13	6,790.9	7,504.4
18	701.6		536.0	14	7,504.4	8,206.0
19	711.2		547.1	15	8,206.0	8,917.2
20	728.8		557.3	16	8,917.2	9,646.0
21	629.9		567.4	17	9,646.0	10,275.9
22	130.7		570.9	18	10,275.9	10,406.6
23		3,615.70			10,406.6	10,406.6
24	755.6		547.7	19	10,406.6	11,162.2
25	725.5		558.1	20	11,162.2	11,887.7
26	765.0		566.1	21	11,887.7	12,652.7
27	743.5		575.1	22	12,652.7	13,396.2
28	619.6		582.4	23	13,396.2	14,015.8
29	93.1		584.0	24	14,015.8	14,108.9
30		3,702.30			14,108.9	14,108.9
31	761.8		594.8	25	14,870.7	14,870.7
Month Total						
14,870.7						

Chrin Brothers Sanitary Landfill 2023 Leachate Flow Summary

Leachate

Reading Date	Month	Reading	Monthly Flow	Gallons Per Day	GPD Per Acre	Quarterly Flows			
						Flow	Gal/Day	GPD/Ac	
12/31/2023	DEC	19,492,444	1,957,786						
1/31/2023	JAN	798,604	2,103,354	67,850	643				meter reset
2/28/2023	FEB	2,600,852	1,802,248	64,366	610				
3/31/2023	MAR	4,562,869	1,962,017	63,291	599	5,867,619	65,196	617	
4/30/2023	APR	5,790,300	1,227,431	40,914	387				
5/31/2023	MAY	7,581,380	1,791,081	57,777	547				
6/30/2023	JUN	8,959,755	1,378,375	45,946	435	4,396,886	48,317	458	
7/31/2023	JUL	1,289,415	1,983,672	63,989	606				meter reset
8/31/2023	AUG	0	-1,289,415	-41,594	-394				
9/30/2023	SEP	0	0	0	0	694,257	7,546	71	
10/31/2023	OCT	0	0	0	0				
11/30/2023	NOV	0	0	0	0				
12/31/2023	DEC	0	0	0	0	0	0	0	
Total Yearly Flow			12,916,548	35,388	335				

1. There are 105.6 acres of area contributing to the leachate flows, 30 acres of the old unlined landfill and 75.6 acres of lined landfill.
2. Chrin changed flowmeters and the sewer discharge location to MH-2 on April 7, 2014.
3. Meter reset January 2023

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Friday, June 30, 2023 8:56 AM
To: Faulch, Amy
Subject: [External] FW: PADEP Inspection today June 9 2023
Attachments: June 2023 DEP Inspection Follow Up Sheet.xlsx

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FYI – inspection followup

From: Justin Souders <jsouders@chrin.org>
Sent: Friday, June 30, 2023 8:47 AM
To: Joe Klobusicky <jklobusicky@chrin.org>; Gregchrin@aol.com; Charlie R Chrin <charliec@chrin.org>; Tom McMonigle <tmcmonigle@chrin.org>; Tom Beauduy <tbeauduy@chrin.org>; grchrin@gmail.com; nnichols211@gmail.com; Willy Schneebeli <willys@chrin.org>
Subject: Re: PADEP Inspection today June 9 2023

Joe,

I updated the follow up sheet from the June 9 DEP Inspection to include the 30 day follow ups that I completed. There were no further exceedances recorded. The sheet is also located in the June 2023 SEM Data folder in the "chrinenv" drive.

Thanks,
Justin

From: Justin Souders <jsouders@chrin.org>
Sent: Thursday, June 15, 2023 8:07 AM
To: Joe Klobusicky <jklobusicky@chrin.org>; Gregchrin@aol.com <GregChr@aol.com>; Charlie R Chrin <charliec@chrin.org>; Tom McMonigle <tmcmonigle@chrin.org>; Tom Beauduy <tbeauduy@chrin.org>; grchrin@gmail.com <grchrin@gmail.com>; nnichols211@gmail.com <nnichols211@gmail.com>; Willy Schneebeli <willys@chrin.org>
Subject: Re: PADEP Inspection today June 9 2023

Joe,

I attached the Memo and Follow Up/Exceedance Sheet for the DEP Inspection from 6/9 to this email. I will update the sheet with the 30-day follow ups when those are completed and send an updated copy to you. They are saved under the June 2023 SEM folder in the "chrinenv" drive as well.

Thanks,
Justin

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Monday, June 12, 2023 11:24 AM
To: Justin Souders <jsouders@chrin.org>; Gregchrin@aol.com <GregChr@aol.com>; Charlie R Chrin

<charliec@chrin.org>; Tom McMonigle <tmcmonigle@chrin.org>; Tom Beauduy <tbeauduy@chrin.org>; grchrin@gmail.com <grchrin@gmail.com>; nnichols211@gmail.com <nnichols211@gmail.com>; Willy Schneebeili <willys@chrin.org>

Subject: RE: PADEP Inspection today June 9 2023

Great. Thank you

From: Justin Souders <jsouders@chrin.org>

Sent: Monday, June 12, 2023 11:24 AM

To: Joe Klobusicky <jklobusicky@chrin.org>; Gregchrin@aol.com; Charlie R Chrin <charliec@chrin.org>; Tom McMonigle <tmcmonigle@chrin.org>; Tom Beauduy <tbeauduy@chrin.org>; grchrin@gmail.com; nnichols211@gmail.com; Willy Schneebeili <willys@chrin.org>

Subject: Re: PADEP Inspection today June 9 2023

Sounds good Joe. I will complete the follow-ups and send over a memo/exceedance sheet upon completion with the updated readings and dates they were recorded.

Thanks,
Justin

From: Joe Klobusicky <jklobusicky@chrin.org>

Sent: Monday, June 12, 2023 11:21 AM

To: Gregchrin@aol.com <GregChrIn@aol.com>; Charlie R Chrin <charliec@chrin.org>; Tom McMonigle <tmcmonigle@chrin.org>; Tom Beauduy <tbeauduy@chrin.org>; Justin Souders <jsouders@chrin.org>; grchrin@gmail.com <grchrin@gmail.com>; nnichols211@gmail.com <nnichols211@gmail.com>; Willy Schneebeili <willys@chrin.org>

Subject: RE: PADEP Inspection today June 9 2023

FYI - I will need verification for all corrected readings / repairs. I took photos today of the leachate seep repairs and bench road repairs.

Joe k

From: Joe Klobusicky

Sent: Friday, June 9, 2023 1:39 PM

To: Gregchrin@aol.com; Charlie R Chrin <charliec@chrin.org>; Tom McMonigle <tmcmonigle@chrin.org>; Tom Beauduy <tbeauduy@chrin.org>; Justin Souders <jsouders@chrin.org>; grchrin@gmail.com; nnichols211@gmail.com; Willy Schneebeili <willys@chrin.org>

Subject: PADEP Inspection today June 9 2023

PADEP Solid Waste (Amy Faulch) and Air Quality (Sydney White) were onsite for an inspection today – general site inspection, leachate sample taken, air surface monitoring conducted.

DEP Inspection June 9, 2023:

Surface Monitoring performed by DEP

9 exceedances above 500 at well locations and surface areas were noted:

- GW161 – 6,000ppm.....gas odor at top of boot
- GW49 – 469ppm – top of boot
- GW69 – 1492ppm – gas odor at base of well
- GW96 – 1180ppm – odor at boot of well
- GW30 – 1200ppm – odor / tear near base of the well
- GW042 – 6,000ppm – base of well
- GW173 – 966ppm – base of well
- GW173 - >10,000 (liner torn; temp cap at base of well)
- DR069 – 760ppm – at elbow
- DR56 – 3,000ppm – odor at boot and bottom of hose

Numerous Leachate seeps Stage 8 above temp cap

Many gas wells need relabeling

The benches on Stage 8 need to be regraded / material added (very washed out / not maintained).

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Friday, August 18, 2023 1:54 PM
To: Faulch, Amy
Subject: RE: [External] RE: Odor on Spring Valley Rd.

Your welcome. We'll keep an eye on it. Tom will be doing an end of day patrol as well.

From: Faulch, Amy <a Faulch@pa.gov>
Sent: Friday, August 18, 2023 1:53 PM
To: Joe Klobusicky <jklobusicky@chrin.org>
Subject: RE: [External] RE: Odor on Spring Valley Rd.

OK, thank you Joe for following up on this.

Amy E. Faulch | Solid Waste Supervisor
Department of Environmental Protection | Waste Management
Bethlehem District Office
4530 Bath Pike | Bethlehem, PA 18017
Phone: 610.861.2063
www.depweb.state.pa.us

DEP is Going Paperless: To assist DEP in reaching this goal, the NERO Waste Management Program is requesting that **ALL documents** submitted to the Northeast Regional Office Waste Management Program, with the exception of documents submitted through the ePermitting or OnBase applications, be submitted by email as an attachment to this resource account ra-epwm-nero@pa.gov

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Friday, August 18, 2023 1:52 PM
To: Faulch, Amy <a Faulch@pa.gov>
Subject: RE: [External] RE: Odor on Spring Valley Rd.

Hi Amy,

I did not get any odor on Spring Valley and Waltman Loop.....

I did get onsite odor to the west of the working face on my way back through the facility.

Our odor control measures are in place and operating. Disposal operations are in cell 9B today. The winds are gusting pretty heavy though.

Joe k

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.
5:51 AM	64 °F	60 °F	87 %	CALM	0 mph	0 mph	29.33 in	0.3 in
6:51 AM	63 °F	60 °F	90 %	WNW	5 mph	0 mph	29.32 in	0.0 in
7:51 AM	66 °F	62 °F	87 %	WSW	6 mph	0 mph	29.34 in	0.0 in
8:51 AM	67 °F	61 °F	81 %	W	7 mph	0 mph	29.36 in	0.0 in

9:51 AM	70 °F	60 °F	71 %	W	10 mph	0 mph	29.36 in	0.0 in
10:51 AM	72 °F	59 °F	64 %	W	10 mph	0 mph	29.37 in	0.0 in
11:51 AM	74 °F	58 °F	57 %	WNW	13 mph	22 mph	29.38 in	0.0 in
12:51 PM	72 °F	57 °F	59 %	WNW	13 mph	21 mph	29.38 in	0.0 in

From: Faulch, Amy <afaulch@pa.gov>
Sent: Friday, August 18, 2023 1:07 PM
To: Joe Klobusicky <jklobusicky@chrin.org>
Subject: RE: [External] RE: Odor on Spring Valley Rd.

Thanks Joe,

We also just had an odor complaint come in from Waltman Loop just a minute ago...

Amy E. Faulch | Solid Waste Supervisor
 Department of Environmental Protection | Waste Management
 Bethlehem District Office
 4530 Bath Pike | Bethlehem, PA 18017
 Phone: 610.861.2063
www.depweb.state.pa.us

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From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Friday, August 18, 2023 1:04 PM
To: Faulch, Amy <afaulch@pa.gov>
Subject: [External] RE: Odor on Spring Valley Rd.

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Hi Amy,
 I'll take a run up there now.

Joe k

From: Faulch, Amy <afaulch@pa.gov>
Sent: Friday, August 18, 2023 1:02 PM
To: Joe Klobusicky <jklobusicky@chrin.org>
Subject: Odor on Spring Valley Rd.

Hi Joe,

I was out doing a quick odor patrol around Chrin today, and I got a very light, intermittent garbage odor at the end of Spring Valley Rd. Is it possible to follow-up in this area to see if there is still any odor?

Thank you,

Amy E. Faulch | Solid Waste Supervisor
Department of Environmental Protection | Waste Management
Bethlehem District Office
4530 Bath Pike | Bethlehem, PA 18017
Phone: 610.861.2063
www.depweb.state.pa.us

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R. Malizia (email PDF)
A. Faulch (PDF)

Chrin: Joseph Klobusicky
jklobusicky@chrin.org

Williams Township: Melody Ernst
mernst@williamstwp.org