

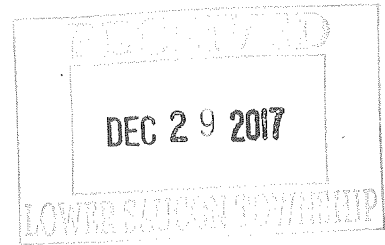


**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

BETHLEHEM DISTRICT OFFICE

December 27, 2017

Lower Saucon Township Municipal Building  
3700 Old Philadelphia Pike  
Bethlehem, Pennsylvania 18015



Attention: Ms. Leslie Huhn, Township Manager

Re: IESI PA Bethlehem Landfill  
I.D. #100020  
Lower Saucon Township, Northampton County

Dear Ms. Huhn:

Please find enclosed a copy of the report of an inspection performed by this District Office at the IESI PA Bethlehem Landfill, located in your municipality. A copy of the inspection report is being provided to you pursuant to the provisions of Section 1101(a)(1) of Act 101, the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988.

Sincerely,

Amy E. Faulch  
Solid Waste Supervisor  
Waste Management Program

Enclosure

- S
- ROUTING
- Council
  - Manager *orig.*
  - Asst. Mgr.
  - Zoning
  - Finance
  - Police
  - P. Works
  - P/C
  - P & R
  - EAC
  - Engineer
  - Solicitor
  - Planner
  - Landfill
  - EMC
  - Other *Web*



## INSPECTION REPORT – MUNICIPAL WASTE LANDFILL

Site I.D. 255983  
 Site Name IESI PA BETHLEHEM LANDFILL  
 Address 2335 APPLEBUTTER RD  
BETHLEHEM, PA 18015  
 Municipality 8924 LOWER SAUCON  
 Responsible Official Don Hallock  
 Person Interviewed Nick Rogers  
 Inspector Amy E. Faulch, Jennifer Cimera  
 eFACTS ID # PF 268729 SF 266826

Telephone # 610-317-3200  
 Operator Name IESI PA BETHLEHEM LANDFILL  
 Address 2335 APPLEBUTTER RD  
BETHLEHEM, PA 18015  
 County NORTHAMPTON  
 Title District Manager  
 Title Environmental Compliance Manager  
 Title Solid Waste Supervisor, Environmental Trainee

Comment: Additional efacts #2675071

Inspection Date: 12/01/2017 Type: RTNC Results: NOVIO Resolved: / /  
 Permit Expiration Date: 4/17/2023 Days/Week Operated: 6 Max. Daily Volume: 1800

**1 - No Violation Observed    2 - Not-Applicable    3 - Not-Determined    4 - Non-Compliance**

STATUS				REVISION	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<b>GENERAL PROVISIONS</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Required insurance in effect (expiration date <u>08/01/2018</u> )	<input type="checkbox"/>	271.371	1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operation in accordance with approved plans and permit.	<input type="checkbox"/>	273.201(c)(2)	2
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operation within permit boundaries (vertical and horizontal).	<input type="checkbox"/>	273.201(c)(2)	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disposal Timing and sequence as per Section 273.112(1).	<input type="checkbox"/>	273.201(c)(2)	4
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No unapproved wastes or liquids.	<input type="checkbox"/>	273.201(d)-(m)	5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolation distances are adhered to.	<input type="checkbox"/>	273.202(a)	6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Facilities certification requirements followed.	<input type="checkbox"/>	273.203(a), (b)	7
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Written Department approval of new construction prior to waste disposal.	<input type="checkbox"/>	273.203(c)	8
<b>DAILY OPERATIONS</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper signs posted.	<input type="checkbox"/>	273.211(a)	9
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site perimeter clearly marked and grid coordinate system in use.	<input type="checkbox"/>	273.311(b)-(d)	10
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper barriers installed around site and access controlled when attendant not present.	<input type="checkbox"/>	273.212(a)-(i)	11
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Access roads maintained and negotiable by collection vehicles.	<input type="checkbox"/>	273.213(a)-(i)	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved means of measuring and inspected waste utilized.	<input checked="" type="checkbox"/>	273.214(a), (b)	13
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adequate equipment on-site and stand-by equipment available.	<input type="checkbox"/>	273.215(a), (b)	14
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vehicles directed promptly to unloading area and promptly unloaded.	<input type="checkbox"/>	273.216(a), (b)	15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Solid waste spread and compacted as approved by Department as part of permit.	<input type="checkbox"/>	273.216(c)	16
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.	<input type="checkbox"/>	273.217(a)	17
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator complies with Air Quality Plan approval and Air quality Operating Permit.	<input type="checkbox"/>	273.217(b)	18

Site Name	IESI PA BETHLEHEM LANDFILL
ID Number	100020
Date	12/01/17

**INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)**

1 - No Violation Observed 2 - Not-Applicable 3 - Not-Determined 4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
				<b>DAILY OPERATIONS (Cont'd)</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator does not cause or allow attraction, harborage, or breeding of vector.	<input type="checkbox"/>	273.218(a)	19
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements nuisance minimization and control plan.	<input checked="" type="checkbox"/>	273.218(b)(1)	20
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator performs regular, frequent, and comprehensive site inspections to reduce potential for offsite odors.	<input checked="" type="checkbox"/>	273.218(b)(2)	21
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator promptly addresses and correct problems and deficiencies discovered during inspections.	<input checked="" type="checkbox"/>	273.218(b)(3)	22
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.	<input checked="" type="checkbox"/>	273.218(c)	23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator does not receive solid waste at a landfill in excess of the maximum or average daily volume approved in the permit.	<input checked="" type="checkbox"/>	273.221(a)	24
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator implements radiation protection action plan.	<input checked="" type="checkbox"/>	273.223(a)	25
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.	<input checked="" type="checkbox"/>	273.223(b)	26
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Radiation detector elements shall be as close as practical to wasteload and in appropriate geometry to monitor the waste.	<input checked="" type="checkbox"/>	273.223(c)	27
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.	<input checked="" type="checkbox"/>	273.223(d)	28
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator notifies Department immediately and isolates vehicle when radiation dose rates are exceeded.	<input checked="" type="checkbox"/>	273.223(e)	29
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Monitoring equipment is calibrated at frequency specified by manufacturer, but not less than once a year.	<input checked="" type="checkbox"/>	273.223(f)	30
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.	<input checked="" type="checkbox"/>	273.223(g)	31
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.	<input type="checkbox"/>	273.232(a)	32
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If intermediate cover requires revegetation, it is established within 30 days.	<input type="checkbox"/>	273.233(e)	33
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slopes constructed during daily landfilling and intermediate cover activities may not exceed 50 percent.	<input type="checkbox"/>	273.233(f)	34
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator does not cause or allow waste pollution within or outside the site from operation of the facility.	<input type="checkbox"/>	273.241(a)-(c)	35
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator has restored or replaced adversely affected water supply with an alternative source of like quantity and quality.	<input type="checkbox"/>	273.245(a)	36
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temporary water supply is provided within 48 hours.	<input type="checkbox"/>	273.245(b)	37
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Permanent water supply is provided within 90 days.	<input type="checkbox"/>	273.245(c)	38
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No waste 15 feet of inside top of the lined perimeter berm.	<input type="checkbox"/>	273.252(e)	39

**INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)**

1 - No Violation Observed 2 - Not-Applicable 3 - Not-Determined 4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
				<b>DAILY OPERATIONS (Continued)</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lined perimeter berm 4 ft. high constructed and maintained along edge of the lined disposal area.	<input type="checkbox"/>	273.252(f)	40
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edge of liner clearly marked.	<input type="checkbox"/>	273.252(g)	41
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alternate leachate recirculation method may be used if approved if one of the liner systems is a composite liner.	<input type="checkbox"/>	273.274(b)	42
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underground pipes used to transport leachate to leachate storage impoundments or tanks equipped with secondary containment or comply with 245.445.	<input type="checkbox"/>	273.275(g)	43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator isolates coal seams, coal outcrops and coal refuse from waste deposits to prevent combustion of waste and damage to liner.	<input type="checkbox"/>	273.291(a)	44
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mine openings within site sealed as approved by Department.	<input type="checkbox"/>	273.291(b)	45
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements plan for controlling potential damage from subsidence submitted and approved under 273.120.	<input type="checkbox"/>	273.291(c)	46
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.	<input type="checkbox"/>	273.301	47
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.	<input type="checkbox"/>	273.302(a)	48
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency equipment tested and maintained.	<input type="checkbox"/>	273.302(c)	49
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adequate space maintained to allow unobstructed movement of emergency personnel and equipment.	<input type="checkbox"/>	273.302(d)	50
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Litter controlled/collected and barriers/fences in place.	<input type="checkbox"/>	273.220(a)-(c)	51
				<b>COVER/SLOPES/REVEGETATION</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily/intermediate cover meets performance and design requirements.	<input type="checkbox"/>	273.232(b), 273.233(b), (c)	52
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimum 5 day supply of daily and intermediate cover maintained on-site.	<input type="checkbox"/>	273.232(c) & 273.233(d)	53
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intermediate cover applied within time limits.	<input type="checkbox"/>	273.233(a)	54
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intermediate slopes do not exceed 50%.	<input type="checkbox"/>	273.232(d)	55
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cap placed over entire surface of final lift meets performance standards.	<input type="checkbox"/>	273.234(a)(1)	56
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final cover meets performance and design requirements; applied within time limits.	<input type="checkbox"/>	273.234(b)-(e)	57
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final slopes stable and erosion controlled.	<input type="checkbox"/>	273.234(f)	58
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final slopes graded 3-15% or terraced to 33% as approved.	<input type="checkbox"/>	273.234(g)	59
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimum revegetation and successful revegetation requirements adhered to.	<input type="checkbox"/>	273.235(a)-(e) & 273.236(a), (b)	60
				<b>WATER QUALITY PROTECTION</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surface and groundwater treatment facilities properly operated and maintained.	<input type="checkbox"/>	273.241(b)	61
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surface water percolation minimized/prevented.	<input type="checkbox"/>	273.242(b)(1) & 273.234(e)(4)	62

Site Name IESI PA BETHLEHEM LANDFILL  
 ID Number 100020  
 Date 12/01/17

## INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)

1 - No Violation Observed    2 - Not-Applicable    3 - Not-Determined    4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil erosion and sedimentation controls designed and implemented as per approved plans; gullies over nine inches repaired.	<input type="checkbox"/>	273.242(a)-(c)	63
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sedimentation ponds and discharge structures designed, constructed, operated, and maintained in accordance with Chapters 273, 102, and 105.	<input type="checkbox"/>	273.243(a)-(g) & 273.244	64
				<b>LINER SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Liner system designed, constructed, operated, and maintained when required.	<input type="checkbox"/>	273.251(a), (b)	65
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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).	<input type="checkbox"/>	273.252(d)	66
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate detection zone monitored weekly.	<input type="checkbox"/>	273.255(c)	67
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective cover protects primary liner and leachate collection system and allows free flow of leachate into the collection system.	<input type="checkbox"/>	273.257(a)	68
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective cover meets minimum requirements and at least 18 inches thick.	<input type="checkbox"/>	273.257(b)	69
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate collection system within protective cover meets minimum requirements.	<input type="checkbox"/>	273.258(a), (b)	70
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Barrier designed, constructed and maintained as required to prevent lateral migration of leachate off-site in surface mined areas.	<input type="checkbox"/>	273.259(a)-(d)	71
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 feet of select waste placed over protective cover.	<input type="checkbox"/>	273.260	73
				<b>LEACHATE TREATMENT</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate collected and handled through Department approved method(s).	<input type="checkbox"/>	273.272(a)-(c)	74
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate transportation requirements adhered to.	<input type="checkbox"/>	273.273(a)-(c)	75
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cessation of site operation if alternate leachate handling not available.	<input type="checkbox"/>	273.273(d)	76
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate treatment system permitted and fully operational at least 3 years before closure.	<input type="checkbox"/>	273.273(e)	77
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate recirculation in accordance with regulations.	<input type="checkbox"/>	273.274(1)-(4)	78
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate collection and storage systems on-site have capacity of 30 days or 250,000 gallons, whichever is greater.	<input type="checkbox"/>	273.275(a)-(f)	79
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate flow rate measured daily; analyzed quarterly.	<input checked="" type="checkbox"/>	273.276(a)-(b)	80
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Department notified when remedial action(s) required.	<input type="checkbox"/>	273.277(1)-(4)	81
				<b>WATER QUALITY MONITORING</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved monitoring system installed and maintained.	<input type="checkbox"/>	273.281(a), (b) & 273.283	82
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Quarterly and annual monitoring requirements adhered to and results submitted Department within time constraints.	<input type="checkbox"/>	273.284 & 273.285	83
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Groundwater assessment plan submitted and implement as required.	<input type="checkbox"/>	273.286(a)-(g)	84
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Groundwater abatement plan submitted and implemented as required.	<input type="checkbox"/>	273.287(a)-(f)	85
				<b>RECORDKEEPING AND REPORTING</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operational records maintained, available and submitted as required.	<input type="checkbox"/>	273.288 & 273.311-273.313	86
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily Operational Records kept in accordance with regulations for the life of the facility bond or longer if necessary.	<input type="checkbox"/>	273.311(d)	87

**INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)**

1 - No Violation Observed 2 - Not-Applicable 3 - Not-Determined 4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator submits quarterly operation report.	<input type="checkbox"/>	273.312	88
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator submits annual operation report with fee.	<input type="checkbox"/>	273.313	89
				<b>MINERALS AND GAS</b>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gas venting and monitoring in accordance with approved plans.	<input type="checkbox"/>	273.292(a)-(d)	90
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Combustible gas levels not exceeded.	<input type="checkbox"/>	273.292(e)	91
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forced gas venting if required.	<input type="checkbox"/>	273.292(f)	92
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gas recovery conducted as per approved plan and §273.293, including annual analysis.	<input type="checkbox"/>	273.293(a), (b)	93
				<b>EMERGENCY PROCEDURES</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Contingency plan implemented if there is an emergency.	<input type="checkbox"/>	273.303(a)-(c)	94
				<b>RECYCLING</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator shall salvage and recycle waste in accord with recycling plan. (273.196)	<input type="checkbox"/>	273.331(a)	95
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Salvaging and recycling controlled by operator and prevents interference within operations and prevents health hazardous nuisance.	<input type="checkbox"/>	273.331(b)	96
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Salvaged materials stored in an approved area or transported offsite.	<input type="checkbox"/>	273.331(c)	97
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop off center established for at least three recyclables.	<input type="checkbox"/>	273.332(a)	98
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop off center properly located, contains bins or containers, open at least 8 hours per week and 4 hours during evenings or weekends.	<input type="checkbox"/>	273.332(b), (c)	99
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved public notice of availability of drop off center availability is provided.	<input type="checkbox"/>	273.332(d)	100
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On or before January 15 each year, operator informs municipality in writing of weight and type of materials recycled previous year.	<input type="checkbox"/>	273.332(e)	101
				<b>SPECIAL HANDLING AND RESIDUAL WASTES</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special handling and residual wastes disposed with prior Department approval, and in accordance with permit and Chapter 273.	<input type="checkbox"/>	273.501	102
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Infectious waste disposal restrictions adhered to.	<input type="checkbox"/>	273.511(a)-(d)	103
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chemotherapeutic waste disposal restrictions adhered to.	<input type="checkbox"/>	273.512	104
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sewage sludge co-disposal and monofill requirements followed.	<input type="checkbox"/>	273.513	105
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sewage sludge sampling requirements adhered to and sludge meets standards for control of pathogens, vectors, and odors.	<input type="checkbox"/>	273.513(c)	106
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Disposal of municipal waste incineration ash in landfill or landfill cell that meets Chapter 273 requirements.	<input type="checkbox"/>	273.514(a)	107
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ash residue disposal in dedicated landfill or landfill cell unless co-disposal in accordance with Chapter 273 (including leachability treatment).	<input type="checkbox"/>	273.514(b)	108
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ash residue covered immediately or as approved by the Department.	<input type="checkbox"/>	273.514(c)	109





COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WASTE MANAGEMENT

**INSPECTION REPORT COMMENTS**

Date of Inspection 12/01/2017 Identification Number 100020

Company/Facility/Site Name IESI PA Bethlehem Landfill

**Comments:**

The PA Department of Environmental Protection ("Department") conducted a routine complete inspection on December 1, 2017 at 0840 hours at IESI PA Bethlehem Landfill ("IESI"). Amy Faulch (this inspector) and Ms. Jennifer Cimera accompanied Ms. Jessica Wagoner of the Department's Air Quality Program for routine surface monitoring. See the 12/1/17 Air Quality inspection report for surface monitoring details. Mr. Nick Rogers provided a site tour and was interviewed on behalf of IESI. See the 12/1/17 odor patrol log for weather details.

**SITE TOUR:**

Prior to entering the landfill, this inspector, Ms. Wagoner and Ms. Cimera conducted an odor patrol in the areas surrounding the landfill. A light, persistent wood burning odor and "fruity" odor were detected along Saucon Ave. A light, persistent wood burning odor and "earthy" odor were detected along Johnston Ave and Sherry Hill Rd. A light, persistent wood burning odor was detected along Jefferson Ave. A light, persistent tobacco smoke odor and wood burning odor were detected along Riverside Dr. A light, persistent sewage odor was detected along Applebutter Rd. A light, intermittent "vegetation" odor was detected along Skyline Dr. No other offsite odors were detected during this odor patrol. See the 12/1/17 odor patrol log for details.

The working face was located in Cell 4D/4E; there were two trucks dumping at the time of this inspection. A moderate odor was detected just south of the working face at the time of this inspection. Use of IESI's line misters have been discontinued for the winter, however IESI was operating a portable spray boom mister to the north of the working face at the time of this inspection.

IESI is continuing Southeastern realignment construction activities. IESI has begun MSE wall construction at the southeastern portion of the landfill. New leachate management chamber LCM1-R has been installed in this area, which is an extension/relocation of LMC-1, however it is not yet hooked up. This inspector also observed the continued removal of topsoil from the Cell SE-1 area (for "Piggyback" liner installation).

At the time of this inspection the Flare was operating at 1830 scfm and 1688°F. BRE had one compressor operating at the time of this inspection.

**COMPLAINT INVESTIGATIONS:**

IESI has had no odor complaints since the last inspection on 11/2/17.

Line item #13: Overweight truck logs revealed: 48 overweight trucks in November 2017.

Line item #20-23: IESI's daily inspection logs were not reviewed at the time of this inspection. IESI's odor control measures appear to be following their Nuisance Minimization and Control Plan.

Line item #24: Daily tonnages were reviewed for November 2017 to date. There did not appear to be any exceedances of the 1800 ton daily limit. The greatest one-day tonnage for November is as follows:  
11/30/17: 1792.64 tons

Line item #26-31: Due to time constraints, radiation records were not reviewed at the time of this inspection.

Line item # 80: Leachate flow rates:  
November: 612,881 gallons

This concludes this inspection report.

*AR* 12/27/17

Person Interviewed Sent via First Class Mail Date \_\_\_\_\_

(Signature)

Inspector \_\_\_\_\_ Date 12/27/17

(Signature)



# IESI PA BETHLEHEM LANDFILL ODOR PATROL SURVEY

Investigator: Jennifer Cimeva Date: 11-30-17  
 Weather Conditions: Sunny Clear 49°F

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
Riverside Dr	1:32				
Matthews Ave	1:33				
Snyder	1:36				
Schwab	1:37	SL	I	O	wild onion odor
Mixsell	1:38				
Jefferson	1:40				
Adams	1:42	SL	I	O	wood burning odor
Riverside					
Reddington					
Lower Sawcon					
Applebutter Rd	1:58	SL	I	O	vehicle exhaust odors
Skyline Dr	2:00				
Apple Scatter	2:09				
Ringhoffer	2:11				
Sherry Hill	2:13				
Applebutter	2:16	M	P	S	sewage odor

2675120  
 eFACTS # ~~2675077~~ AR

IESI PA BETHLEHEM LANDFILL  
ODOR PATROL SURVEY

Investigator: Jennifer Cima Date: December 1, 2017  
Weather Conditions: Sunny, Clear 37°F

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
Shinersville	8:40	N			eFACTS # 2675071
Riverside Dr	8:40	N			
Saucan Ave	8:41	SL	P	O	
Roberts	8:43	N			
Mathews Ave	8:43	N			
Maxsell Ave	8:44	N			
Adams Ave	8:44	N			
Johnston	8:45	SL	P	O	
Jefferson	8:46	SL	P	O	
Riverside	8:46	N			
Fritz	8:47	N			
Mathews Ave	8:47	N			
Snyder Ave	8:49	N			
Mathews	8:50	N			
Riverside	8:50	SL	P	O	
Beddington	8:56	N			
Lower Saucan	8:59	N			
Applebutter Rd	9:00	N			



Saturday Tonnage @ 500  
 Monthly Budget Tonnage 23,150  
 Days in Month 25

November Day Number	Date	Tonnage	ADC	Month QDAT	Day of Quarter	Quarter Tonnage	Quarter QDAT	Remaining Days	Remaining Quarter Tonnage	Daily Tonnage Sat. @ 500.0	Remaining # of days Mon.-Fri.	Remaining # of Saturdays
1	1-Nov	1,129.14	0.00	5,471.79	28	2,334.2	83.4	49	-2,334.2	-56.9	41	8
2	2-Nov	1,205.09	0.00	2,171.33	29	1,205.1	41.6	48	-1,205.1	-30.1	40	8
3	3-Nov	1,114.13	0.00	1,045.85	30	2,319.2	77.3	47	-2,319.2	-59.5	39	8
4	4-Nov	369.80		505.86	31	2,689.0	86.7	46	-2,689.0	-70.8	38	8
5	6-Nov	1,653.63		330.73	32	4,342.7	135.7	45	-4,342.7	-117.4	37	8
6	7-Nov	1,539.76		532.23	33	5,882.4	178.3	44	-5,882.4	-159.0	37	7
7	8-Nov	1,684.13		696.79	34	7,566.5	222.5	43	-7,566.5	-210.2	36	7
8	9-Nov	1,709.90		823.43	35	9,276.4	265.0	42	-9,276.4	-265.0	35	7
9	10-Nov	1,525.36		901.42	36	10,801.8	300.1	41	-10,801.8	-317.7	34	7
10	11-Nov	541.47		865.43	37	11,343.3	306.6	40	-11,343.3	-343.7	33	7
11	13-Nov	1,493.50		922.52	38	12,836.8	337.8	39	-12,836.8	-401.1	32	7
12	14-Nov	1,481.33		969.09	39	14,318.1	367.1	38	-14,318.1	-447.4	32	6
13	15-Nov	1,568.74		1,015.22	40	15,886.8	397.2	37	-15,886.8	-512.5	31	6
14	16-Nov	1,564.10		1,054.42	41	17,450.9	425.6	36	-17,450.9	-581.7	30	6
15	17-Nov	1,649.91		1,094.12	42	19,100.9	454.8	35	-19,100.9	-658.7	29	6
16	18-Nov	795.44		1,075.45	43	19,896.3	462.7	34	-19,896.3	-710.6	28	6
17	20-Nov	1,605.40		1,106.63	44	21,501.7	488.7	33	-21,501.7	-796.4	27	6
18	21-Nov	1,725.57		1,141.01	45	23,227.3	516.2	32	-23,227.3	-860.3	27	5
19	22-Nov	1,724.99		1,171.75	46	24,952.3	542.4	31	-24,952.3	-959.7	26	5
20	24-Nov	1,251.32		1,119.74	48	26,203.6	545.9	29	-26,203.6	-1,091.8	24	5
21	25-Nov	478.66		1,142.53	48	26,682.2	555.9	29	-26,682.2	-1,111.8	24	5
22	27-Nov	1,711.50		1,168.40	49	28,393.7	579.5	28	-28,393.7	-1,234.5	23	5
23	28-Nov	1,766.42		1,194.40	50	30,160.2	603.2	27	-30,160.2	-1,311.3	23	4
24	29-Nov	1,538.83		1,208.75	51	31,699.0	621.5	26	-31,699.0	-1,378.2	23	4
25	30-Nov	1,792.64		1,232.10	52	33,491.6	644.1	27	-33,491.6	-1,456.2	23	4
Month Total:												
Month Total:										34,620.76	0.0	

## Faulch, Amy

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Monday, December 04, 2017 10:06 AM  
**To:** Bellas, Roger; Faulch, Amy; Wagoner, Jessica; Cimera, Jennifer  
**Cc:** 'Leslie Huhn'; Donald Hallock; Jason Frey  
**Subject:** November 2017 Leachate Demand Report  
**Attachments:** Mo. Leachate Report 11-17.pdf

Good afternoon Roger,

Attached is the monthly leachate demand report for Bethlehem landfill for November 2017. If you have any questions please let me know and have a Merry Christmas!

Thank you

**Nick Rogers**  
**Northeast Environmental Scientist**  
**Waste Connections**

Work Cell: 484-456-1650  
Blue Ridge Landfill: 717-709-1700 F: 717 709 9012  
Bethlehem Landfill: 610-317-3200 F: 610-317-8799  
Finksburg TS: 410-526-3535



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**From:** Nicholas Rogers  
**Sent:** Thursday, November 02, 2017 12:49 PM  
**To:** 'Bellas, Roger'; 'Faulch, Amy'; 'Wagoner, Jessica'; 'jcimera@pa.gov'; 'Malizia, Richard'  
**Cc:** 'Leslie Huhn'; Donald Hallock; 'Jason Frey'  
**Subject:** October 2017 Leachate Demand Report

Good afternoon Roger,

Attached is the monthly leachate demand report for Bethlehem landfill for October 2017. If you have any questions please let me know.



December 4, 2017

Roger Bellas  
Program Manager  
PA Department of Environmental Protection  
2 Public Square  
Wilkes-Barre, PA 18711-0790

Re: Abatement Well Reports/Data Collection Update

Dear Mr. Bellas:

Enclosed are the Leachate Demand and Ground Water Demand Reports for the month of November 2017. The overall Abatement Well pump stations, data collection and reporting equipment were operational. .

If you have any questions please call me at 610-317-3200.

Sincerely

Nick R. Rogers  
Environmental Compliance Manager

Enclosure

Cc: Rich Malizia, PADEP Bethlehem Office  
Leslie Huhn, Lower Saucon Township  
Martin & Martin  
File

**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**  
**November 2017**

<u>Location</u>	<u>Total gallons</u>
LMC-6	6,460
LMC-7	10,472
LMC-8	23,814
LMC-10	806,000
PS-1	224,677
PS-2	133,445
PS-3	95,258
Phase-IV	453,380

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3.

**Total Discharge**

LMC-10	806,000
<u>Phase IV</u>	<u>453,380</u>
<b>TOTAL</b>	<b>1,259,380gallons</b>

**Total Leachate**

Leachate	127,225
<u>Phase IV</u>	<u>453,380</u>
<b>TOTAL</b>	<b>612,881 gallons</b>

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 678,775 gallons (Neptune Flow meters)

**BETHLEHEM LANDFILL**  
**GROUNDWATER DEMAND REPORT**  
**November 2017**

<b>Well No.</b>	<b>Water Level (avg. ft SWL*)</b>	<b>Flow (avg. GPM)</b>	<b>(Total gal)</b>
AB-1	82.1	4.5	216295
AB-2	71.4	0.3	12036
AB-3	35.5	0.1	902
AB-4	36.6	1.3	55851
AB-5	54.2	0.2	3654
AB-6	48.0	2.3	26919
AB-7	52.0	2.1	126163
AB-8	29.7	2.0	95200
AB-9	26.7	0.2	98684
AB-10	47.0	6.6	43071
TW-1	42.8	<0.1	0
<b>Total Flow</b>			<b>678,775 gallons</b>

\*SWL above transducer set point

\* Per DEP approval well TW-1 was shut down September 14, 2009.



## Faulch, Amy

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Monday, November 27, 2017 10:01 AM  
**To:** Wagoner, Jessica; Faulch, Amy; Cimera, Jennifer  
**Cc:** 'Leslie Huhn'; Donald Hallock  
**Subject:** BRE Plant Update

Good morning,

I hope everyone had a Happy Thanksgiving! I just want to send an update that the BRE plant will be down today until Thursday for a planned maintenance outage. The flare will be the main GCCS during this time. If you have any questions please let me know.

Thank you

**Nick Rogers**  
**Northeast Environmental Scientist**  
**Waste Connections**

Work Cell: 484-456-1650  
Blue Ridge Landfill: 717-709-1700 F: 717 709 9012  
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Finksburg TS: 410-526-3535



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Original: PA DEP NERO WM File-thru R. Bellas/D. Ritter

Cc: Facility-sent via First Class Mail & email PDF  
BDO WM File- thru A. Faulch  
Lower Saucon Township  
A. Faulch (PDF)  
D. Ritter (e-mail PDF)  
AQ: J. Wagoner/A. Schweitzer (e-mail PDF)  
S. French (e-mail PDF)  
R. Malizia (email PDF)  
J. Cimera (email PDF)