



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BETHLEHEM DISTRICT OFFICE

September 17, 2014

Lower Saucon Township Manager
3700 Old Philadelphia Pike
Bethlehem, PA 18015



Attn: Mr. Jack Cahalan

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

Dear Mr. Cahalan:

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.

If you have any questions, please feel free to contact me at 610-861-2136.

Sincerely,

Walter F. Govern III
Solid Waste Specialist
Waste Management Program

Enclosure

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



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 SAMUEL DONATO, JR.
 Person Interviewed AL SCHLEYER, SAM DONATO

Telephone # _____
 Operator Name IESI PA BETHLEHEM LANDFILL
 Address 2335 APPLEBUTTER RD
BETHLEHEM, PA 18015
 County NORTHAMPTON
 Title PA DISTRICT MANAGER
 Title COMPLIANCE MANAGER, PA DISTRICT
MANAGER,
 Title SOLID WASTE SPECIALIST

Inspector WALTER F. GOVERN
 eFACTS ID # PF 268729 SF 266826

Comment: _____

Inspection Date: 08/27/2014 Type: Routine Partial Results: **VIOLS** Resolved: / /
Inspection

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				
GENERAL PROVISIONS							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Required insurance in effect (expiration date 12/31/2014)	<input type="checkbox"/>	271.371	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operation in accordance with approved plans and permit.	<input checked="" 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
DAILY OPERATIONS							
<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 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	08/27/2014

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				
DAILY OPERATIONS (Cont'd)							
<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator implements nuisance minimization and control plan.	<input 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 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 type="checkbox"/>	273.218(b)(3)	22
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	273.221(a)	24
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements radiation protection action plan.	<input type="checkbox"/>	273.223(a)	25
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	273.223(b)	26
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	273.223(c)	27
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	273.223(d)	28
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator notifies Department immediately and isolates vehicle when radiation dose rates are exceeded.	<input type="checkbox"/>	273.223(e)	29
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring equipment is calibrated at frequency specified by manufacturer, but not less than once a year.	<input type="checkbox"/>	273.223(f)	30
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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				
DAILY OPERATIONS (Continued)							
<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
COVER/SLOPES/REVEGETATION							
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Daily/intermediate cover meets performance and design requirements.	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
WATER QUALITY PROTECTION							
<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

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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
LINER SYSTEM							
<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
LEACHATE TREATMENT							
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Leachate collected and handled through Department approved method(s).	<input type="checkbox"/>	273.272(a)-(c)	74
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Leachate transportation requirements adhered to.	<input type="checkbox"/>	273.273(a)-(c)	75
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Leachate recirculation in accordance with regulations.	<input type="checkbox"/>	273.274(1)-(4)	78
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Leachate flow rate measured daily; analyzed quarterly.	<input type="checkbox"/>	273.276(a)-(b)	80
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Department notified when remedial action(s) required.	<input type="checkbox"/>	273.277(1)-(4)	81
WATER QUALITY MONITORING							
<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
RECORDKEEPING AND REPORTING							
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
				MINERALS AND GAS	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gas venting and monitoring in accordance with approved plans.	<input type="checkbox"/>	273.292(a)-(d)	90
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Combustible gas levels not exceeded.	<input type="checkbox"/>	273.292(e)	91
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forced gas venting if required.	<input type="checkbox"/>	273.292(f)	92
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
				EMERGENCY PROCEDURES			
<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
				RECYCLING			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Salvaged materials stored in an approved area or transported offsite.	<input type="checkbox"/>	273.331(c)	97
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drop off center established for at least three recyclables.	<input type="checkbox"/>	273.332(a)	98
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
				SPECIAL HANDLING AND RESIDUAL WASTES			
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Infectious waste disposal restrictions adhered to.	<input type="checkbox"/>	273.511(a)-(d)	103
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chemotherapeutic waste disposal restrictions adhered to.	<input type="checkbox"/>	273.512	104
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sewage sludge co-disposal and monofill requirements followed.	<input type="checkbox"/>	273.513	105
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 08/27/2014 Identification Number 100020

Company/Facility/Site Name IESI PA BETHLEHEM LANDFILL

Comments:

On August 27, 2014 the Pennsylvania Department of Environmental Protection (Department) conducted a routine partial joint inspection with the Department's Air Quality Program at IESI PA Bethlehem Landfill (IESI). Walter F. Govern III, Department Solid Waste Specialist, Tara Redding, Department Air Quality Specialist, and Jessica Wagoner, Department Air Quality Specialist were representing the Department during the time of this inspection. Rob Tyler, of Martin & Martin, Inc., was representing IESI during the time of this inspection. Al Schleyer, IESI Compliance Manager and Sam Donato, IESI PA District Manager, were also interviewed via phone during the time of this inspection. As this is a routine partial inspection, only the items mentioned below were observed during the time of this inspection, due to time constraints. During the time of this inspection it was Sunny, 86°F with wind out of the west-southwest (WSW) at 4mph.

SITE TOUR & SURFACE MONITORING

Prior to entering the landfill for the inspection, an odor patrol was conducted along Applebutter Road, throughout Steel City and around the north side of the landfill on Riverside Drive, out to Easton Road and along Skyline Drive. See attached odor patrol log dated 08/27/2014 for details.

The entrance road to the facility and the access roads to the working face were clean and free of litter and debris.

The flare was in operation at IESI during the time of this inspection. Landfill gas was being burned in the Flare. Landfill gas from IESI was also being burned at the Bethlehem Renewable Energy (BRE) Plant adjacent the landfill during the time of this inspection.

During the time of this inspection, this inspector observed the misting lines installed to assist with odor control. The misters were not on during the time of this inspection. Mr. Schleyer stated that the misters are turned on every morning prior to removing the tarp on the working face. If odors are under control the misters are turned off until needed.

Cell 4E Stage II was the area accepting waste during the time of this inspection. A tipper is onsite and was in use during the time of this inspection.

During the time of this inspection, this inspector along with Ms. Redding, Ms. Wagoner, and Mr. Tyler walked the area of the old landfill (Phase I area) on the northeastern corner of the landfill, north and east of the access road that extends around the eastern side of the landfill. On the eastern side of the old landfill, there was an area where the liner was exposed that had no cover soils on it. This is the liner of the sediment trap built in this area. The cap for the old landfill is under this protective liner. There were no odors, and no gas emissions detected in this area. IESI should be sure that this cap material be covered to prevent the material from being damaged. During this rest of the surface monitoring of the old landfill, no areas of exposed waste and no odors were observed. There were no gas emissions observed during this part of surface monitoring. For details regarding data collected during this part of the inspection, please refer to the Department's Air Quality Inspection Report, completed by Ms. Redding, dated, 08/27/2014.

Cell 4F, created by the MSE wall, and Cells 4B, 4C and parts of Cell 4D and 4A were also inspected by this inspector along with Ms. Redding, Ms. Wagoner, and Mr. Tyler. During the tour, cracks and holes in the intermediate cover were observed in Cell 4F, and at the top of the landfill in Cell 4B. In the area of these breaches in the intermediate cover, strong landfill gas odors were observed. Also observed, were areas at the top of the landfill where solid waste was sticking through the intermediate cover. Gas wells on the cells mentioned above were also determined to have gas emissions during the time of this inspection. For details regarding data collected during this part of the inspection, please refer to the Department's Air Quality Inspection Report, completed by Ms. Redding, dated, 08/27/2014.

During this inspection, this inspector spoke to Al Schleyer and Sam Donato via phone. Mr. Schleyer and Mr. Donato stated that IESI had contracted the installation of additional gas collection wells at the top of the landfill and the MSE wall in Cells 4B and 4F. This inspector observed a drilling company bringing equipment onto the landfill during the time of this inspection. Installation of the new gas wells are expected to begin the day after Labor Day (September 2, 2014).

Calibration for the radiation monitor was conducted on 06/09/2014 and is due 06/09/2015.

Insurance certificates were reviewed and are valid. The certificate expires 12/31/2014.

COMPLAINT INVESTGATIONS

Please see attached spreadsheet regarding the data collected for the complaints received by the Department since the last inspection.

VIOLATIONS

- 1) IESI PA Bethlehem Landfill failed to operate the landfill in accordance with approved plans and permit in violation of 25 Pa Code § 273.201(c)(2), detailed in violation #2.
- 2) IESI PA Bethlehem Landfill failed to maintain intermediate cover so as to prevent odors and to cover solid waste after it is placed without change in its properties and without regard to weather in violation of 25 Pa Code § 273.233(b)(1) and 25 Pa Code § 273.233(b)(2); specifically, the intermediate cover over Cells 4F, 4B, and 4C were not maintained to prevent holes and cracks where odors were able to escape and where solid waste was visible through the intermediate cover.

On August 28, 2014, Sam Donato, IESI PA District Manager, sent an email to the Department outlining corrections made to remediate the violations observed during the time of the inspection. Mr. Donato reported that IESI completed the placement of additional cover soils where surface gas emissions were identified. Corrective measures to gas wells where surface gas emissions where observed began on August 28, 2014 and are expected to be completed by August 29, 2014. In ten days, IESI's consultant will be back on site to re-evaluate the corrective measures that were completed.

On September 12, 2014, Sam Donato and Al Schleyer met with Dean Fisher, Department Solid Waste Supervisor, Andy Schweitzer, Department Air Quality Supervisor, and this inspector to discuss the corrective measures completed by IESI to resolve issues noted during the last inspection. Mr. Donato stated that the intermediate cover issues had been remediated on August 28, 2014. Corrective measures to gas wells where surface gas emissions where observed were completed on August 29, 2014. On September 5, 2014, IESI's consultant completed the re-evaluation of the corrective measures on the gas wells and found no exceedances. Mr. Donato also explained that IESI began the installation of new gas wells in the area of Cells 4F, 4B, and 4D on September 3, 2014. IESI plans to install approximately sixteen new gas wells, four of which have been installed as of September 12, 2014. Mr. Donato also stated that IESI plans to revegetate the southern slope of the landfill to help minimize the potential for surface erosion. Mr. Donato stated that due to the drought condition in August, re-vegetation of the southern slope had been delayed.

Gas flow comparisons were reviewed between the flare at IESI and BRE. This review showed that as gas flow to BRE increased, the gas flow to the flare at IESI decreased to equal and maintain the total flow of gas pulled from the landfill.

This concludes this inspection report.

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 or Department records.

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 on this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

Person Interviewed Sent Via Certified Mail 7002 0510 0003 6628 4716
(Signature)

Date 09/17/2014

Inspector Walter W. Jr.
(Signature)

Date 09/17/2014

Case: IESI PA Bethlehem RTPT Insp
Location: 2335 Applebutter Road
Municipality: Lower Saucon Township
County: Northampton
Date / Time: 08/27/2014 / 0900 hrs
Photographer: Walter F. Govern III



Photo of the liner of the sediment trap at the eastern side of the old landfill (Phase I area). This is not the cap of the landfill. The cap of the landfill is under this protective liner. No odors or gas emissions observed during the time of this inspection.



Photo of gas well HW 4-21 in Cell 4F. In the area around this gas well, two holes in the intermediate cover were observed having odors and gas emissions during the time of this inspection.



Hole in intermediate cover adjacent HW 4-21 where strong landfill gas odors/gas emissions were observed during the time of the inspection.



Close-up of the hole from the previous photo.



Hole in intermediate cover adjacent HW 4-21 where strong landfill gas odors/gas emissions were observed during the time of the inspection.



Close-up of hole from previous photo.



A minor erosion channel and crack where strong landfill gas odors/gas emissions were observed during the time of the inspection.



Close-up of crack under a rock from the bottom of the previous photo.



Area at the top of the landfill in Cell 4B, where garbage bags containing waste were observed sticking through the intermediate cover.



Close-up of the garbage bags from the previous photo.



Area at the top of the landfill in Cell 4B, where a roll of carpeting was observed sticking through the intermediate cover.



Close-up of the garbage bags from the previous photo.



Hole in intermediate cover adjacent LC-20 where strong landfill gas odors/gas emissions were observed during the time of the inspection.



Close-up of the hole from the previous photo.



Soil stockpiled on Cell 4C to repair erosion on the southern slope of the landfill.



Crushed lunch cooler on the south slope of Cell 4C.



Partially buried mattress in Cell 4C.



Gas well EW 4-18 with discolored soil around it. Strong landfill gas odor was observed around this gas well.

Investigator: Debra G. Gower III + Robbing + ^{Town} ^{Programs} ^{Jersey}
 Weather Conditions: Sunny, 74.2 °F wind out of SSE @ 6.9 mph Date: 08/27/14

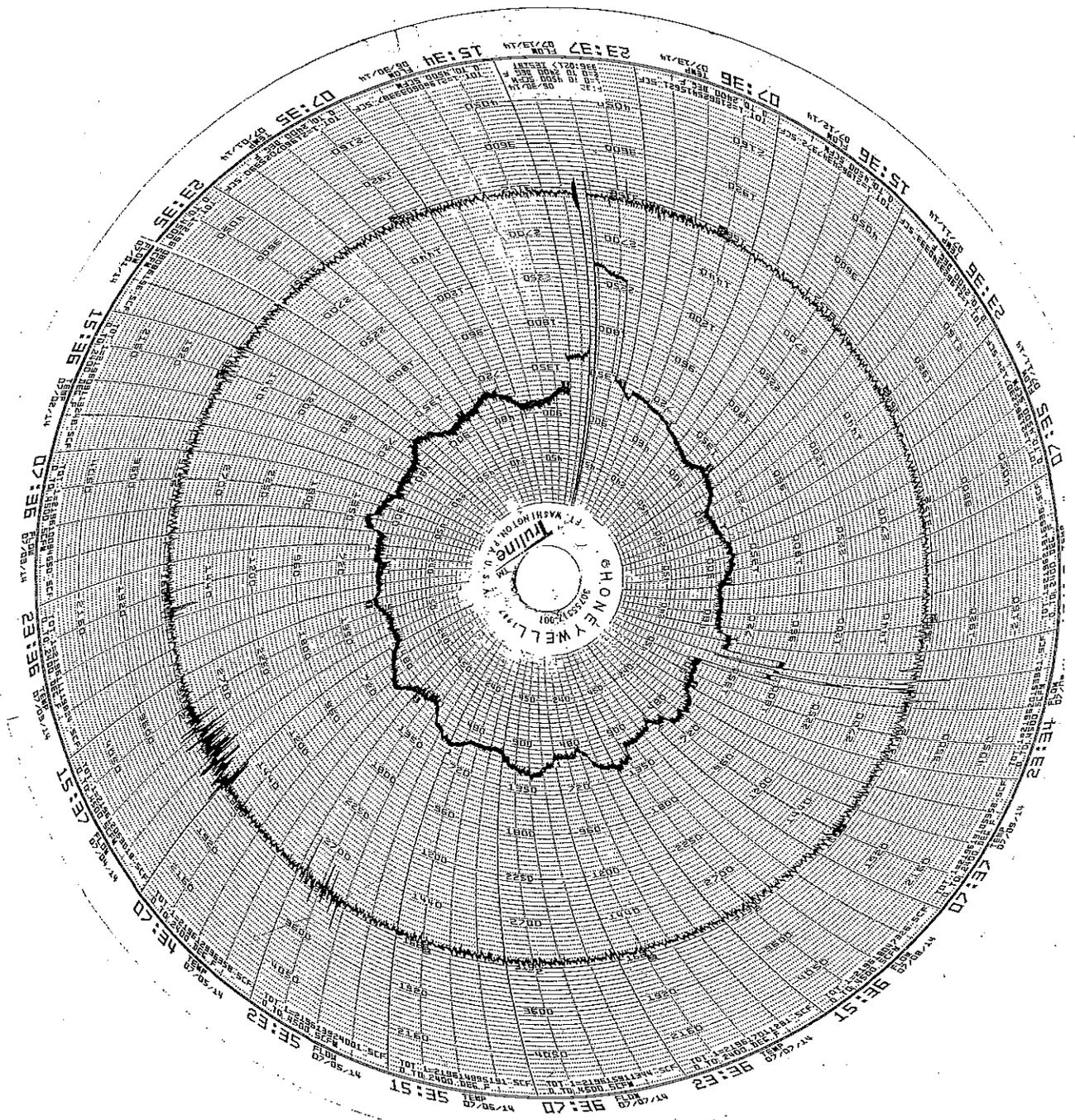
IESI PA BETHLEHEM LANDFILL
 ODOR PATROL SURVEY

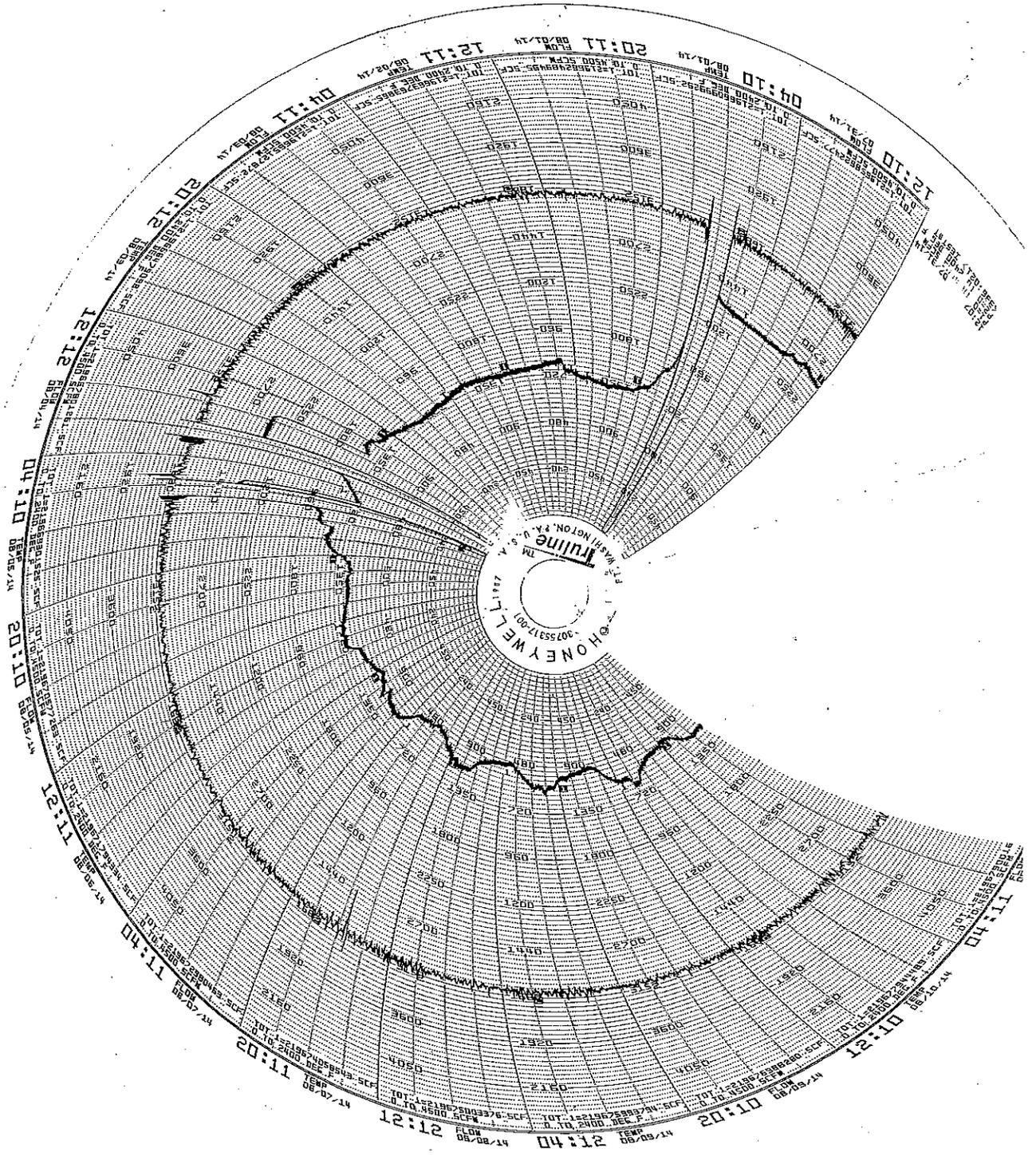
SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Skinnerville Rd.					
Main St. Freemansburg	0931	SC-M	P	S	
Shmarnville Rd.	0932	SL	I	S	
Saucun Ave	0936	N	N	-	
Roberts Ave	0937	M	P	O	Burning Odor
Mixsell Ave + Northass Ave	0938	M	P	O	Burning Odor
Jefferson Ave	0941	SC	P	O	LGE Odors - Grass Clippings
Nissell Ave	0944	N	-	-	
Adams Ave	0945	SC	I	O	Burning Odors
Riverside Dr.	0946	N	N	-	Field Obs. Flag @ Hill Club Road - No Odors
Riverside Dr.	0948	SC	I	LFG + Burning	From Road in Riverside Dr. after Hill Club to the gas line
Ridlington Rd.	0953	N	N	-	
L. Saucun Rd.	0957	N	N	-	
Kings Mill Rd. (west)	0959	N	N	-	
Kings Mill Rd. (east)	1001	N	N	-	
L. Saucun Rd.	1001	N	N	-	
Easton Rd (west)	1005	N	N	-	
Easton Rd (east)	1008	N	N	-	

eFACTS ID # 2303142

IESI ODOR COMPLAINT LOG for August 27, 2014 Inspection Report (2335 Applebutter Rd, Bethlehem, PA 18017)

Date	Time	Address	Distance from Landfill (miles)	Weather Date (Wassergas (PAHLEU2))	Skies	Temperature	Wind (out of)	Resident Location in Relation to Landfill	Residence / Drive-by	Description / Notes	Gas Management Data	Addressed in Insp Report		
				www.wunderground.com							Flare (cfm)	BRE (cfm)	Total (cfm)	Date
08/27/14	0800 hrs	Valley View Rd, Hellertown	2.607	58.9°F	Clear	73.2°F	SW @ 3.0 mph	E	Residence	Smelled a bad odor	1146	2209	3355	8/27/2014
08/27/14	1011 hrs	Saucun Ave, Steel City	0.883	73.2°F	Clear	73.2°F	SE @ 2.2 mph	NW	Residence	Garbage smell from IESI	1264	2066	3330	8/27/2014
08/27/14	1530 hrs	Kitchline Rd, Hellertown	2.611	82.2°F	Broken Clouds	82.2°F	S @ 5.0 mph	ESE	Residence	Methane leachate odor coming from the landfill	2543	Shutdown	2543	8/27/2014
08/27/14	0118 hrs	Fritz Ave, Steel City	0.950	68.1°F	Broken Clouds	68.1°F	Calm - No Wind	NW	Residence	Foul odors on east side of home coming from the landfill	2444	Shutdown	2444	8/27/2014
08/27/14	1358 hrs	Fritz Ave, Steel City	0.950	80.7°F	Broken Clouds	80.7°F	Calm - No Wind	NW	Residence	Foul odors on east side of home coming from the landfill	1641	2068	3709	8/27/2014
08/27/14	2125 hrs	Mixell Ave, Steel City	0.801	67.1°F	Broken Clouds	67.1°F	N @ 3.5 mph	NW	Residence	Gas smell from landfill	1399	2155	3514	8/27/2014
08/09/14	0720 hrs	Jafferson Ave, Steel City	0.741	63.4°F	Broken Clouds	63.4°F	N @ 3.5 mph	W	Residence	Odor on Property	1296	2082	3378	8/27/2014
08/09/14	0719 hrs	Skyline Drive, Bethlehem	0.627	63.4°F	Broken Clouds	63.4°F	N @ 3.5 mph	W	Residence	Onionlike odor of natural gas at 0600 hrs no one is doing anything	1425	1931	3356	8/27/2014
08/09/14	1031 hrs	Fritz Ave, Steel City	0.950	68.1°F	Broken Clouds	68.1°F	NNW @ 4.0 mph	NW	Residence	Neutral gas odors	1410	1939	3349	8/27/2014
08/05/14	0721 hrs	Fritz Ave, Steel City	N/A	67.8°F	Broken Clouds	67.8°F	Calm - No Wind	No Address Provided	Drive-by	Reporting odors on County Line Ln.	2472	Shutdown	2472	8/27/2014
08/05/14	0733 hrs	Kitchline Rd, Hellertown	2.611	69.3°F	Broken Clouds	69.3°F	Calm - No Wind	ESE	Residence	Terrible Odor	2482	Shutdown	2482	8/27/2014
08/05/14	0745 hrs	Kitchline Rd, Hellertown	2.679	64.0°F	Broken Clouds	64.0°F	Calm - No Wind	ESE	Residence	Terrible odor, cannot open windows	2482	Shutdown	2482	8/27/2014
08/05/14	0747 hrs	Valley View Rd, Hellertown	2.607	64.0°F	Broken Clouds	64.0°F	Calm - No Wind	ESE	Residence	Reporting terrible odors	1252	2045	3297	8/27/2014
08/05/14	0747 hrs	????????	N/A	64.0°F	Broken Clouds	64.0°F	Calm - No Wind	No Address Provided	?	Reporting odors (no location given)	1260	2143	3403	8/27/2014
08/05/14	0747 hrs	Butternut Rd, Hellertown	2.583	64.0°F	Broken Clouds	64.0°F	Calm - No Wind	ESE	Residence	Terrible Odors	1260	2143	3403	8/27/2014
08/05/14	0813 hrs	W Butternut Rd, Hellertown	2.388	64.3°F	Broken Clouds	64.3°F	SW @ 4.0 mph	ESE	Residence	Smelled real bad at 0620 hrs	1262	2062	3324	8/27/2014
08/05/14	0947 hrs	Kitchline Rd, Hellertown	2.611	70.6°F	Broken Clouds	70.6°F	SSW @ 4.0 mph	ESE	Residence	Methane odor all day & night	1284	2067	3351	8/27/2014
08/07/14	0702 hrs	Kitchline Rd, Hellertown	2.679	61.3°F	Broken Clouds	61.3°F	SW @ 3.0 mph	ESE	Residence	Reporting odors	1101	2217	3318	8/27/2014
08/08/14	0713 hrs	Kitchline Rd, Hellertown	2.679	59.5°F	Broken Clouds	59.5°F	S @ 3.5 mph	ESE	Residence	Odor on Property	924	2251	3175	8/27/2014
08/08/14	2022 hrs	Fritz Ave, Steel City	0.950	70.6°F	Broken Clouds	70.6°F	NW @ 1.2 mph	NW	Residence	Odor on Property	1035	2195	3230	8/27/2014
08/09/14	1128 hrs	Fritz Ave, Steel City	0.950	84.7°F	Broken Clouds	84.7°F	NNW @ 3.5 mph	W	Residence	Strong Odor	1082	2120	3212	8/27/2014
08/10/14	1424 hrs	Skyline Drive, Bethlehem	0.627	85.1°F	Broken Clouds	85.1°F	NW @ 1.2 mph	W	Residence	Repeated gas odors have been more frequent this past week	1134	2099	3237	8/27/2014
08/10/14	1450 hrs	Kitchline Rd, Hellertown	2.679	85.5°F	Broken Clouds	85.5°F	NW @ 3.5 mph	ESE	Residence	Odor from landfill	1190	2077	3157	8/27/2014
08/10/14	1525 hrs	Fritz Ave, Steel City	0.950	89.7°F	Broken Clouds	89.7°F	WNW @ 1.2 mph	NW	Residence	Odors	1141	2118	3159	8/27/2014
08/11/14	0919 hrs	Fritz Ave, Steel City	0.950	76.5°F	Broken Clouds	76.5°F	Calm - No Wind	NW	Drive-by	Reporting gas odors on Skyline Dr. between Matthew & Saucun Ave	1074	2021	3155	8/27/2014
08/11/14	1344 hrs	Wilson Ave, Bethlehem	0.078	83.6°F	Broken Clouds	83.6°F	NE @ 2.0 mph	N	Residence	Garbage odors on property, burns your nose	1142	2041	3183	8/27/2014
08/12/14	0936 hrs	Johnston Ave, Steel City	1.083	68.4°F	Broken Clouds	68.4°F	NNW @ 4.6 mph	NE	Residence	Strong odor from landfill	985	2128	3108	8/27/2014
08/14/14	0734 hrs	W Butternut Rd, Hellertown	2.588	58.4°F	Broken Clouds	58.4°F	Calm - No Wind	ESE	Residence	Strong odor coming from the landfill	877	2188	3075	8/27/2014
08/14/14	0737 hrs	Applebutter Rd, Bethlehem	N/A	58.4°F	Broken Clouds	58.4°F	Calm - No Wind	No Address Provided	Residence	Reporting strong odors from the landfill	891	2174	3065	8/27/2014
08/14/14	0823 hrs	Valley View Rd, Hellertown	2.607	60.9°F	Broken Clouds	60.9°F	SW @ 2.3 mph	E	Residence	Odor from landfill	874	2179	3117	8/27/2014
08/16/14	0907 hrs	Valley View Rd, Hellertown	2.607	66.0°F	Broken Clouds	66.0°F	W @ 3.5 mph	E	Drive-by	Odor from landfill	878	2239	3147	8/27/2014
08/16/14	0926 hrs	W Butternut Rd, Hellertown	2.588	64.7°F	Broken Clouds	64.7°F	Calm - No Wind	ESE	Residence	Odor from landfill	889	2220	3119	8/27/2014
08/18/14	0713 hrs	Wilson Ave, Bethlehem	0.778	59.0°F	Broken Clouds	59.0°F	SSW @ 3.5 mph	N	Residence	Small of methane from landfill	892	2185	3072	8/27/2014
08/18/14	0907 hrs	Kitchline Rd, Hellertown	2.611	58.9°F	Broken Clouds	58.9°F	SSW @ 3.5 mph	ESE	Residence	Odor from landfill	887	2185	3072	8/27/2014
08/18/14	0904 hrs	Valley View Rd, Hellertown	2.607	62.3°F	Broken Clouds	62.3°F	Calm - No Wind	E	Residence	Gas odors on property for past several hours	919	2164	3088	8/27/2014
08/20/14	0813 hrs	Fritz Ave, Steel City	0.950	70.4°F	Broken Clouds	70.4°F	W @ 2.3 mph	NW	Residence	Foul Gas Odor	1080	2161	3241	8/27/2014
08/20/14	0822 hrs	Johnston Ave, Steel City	1.083	70.9°F	Broken Clouds	70.9°F	Calm - No Wind	NW	Residence	Reporting Comments??	1084	2160	3244	8/27/2014
08/20/14	0823 hrs	Adams Ave, Steel City	0.923	71.6°F	Broken Clouds	71.6°F	SE @ 3.5 mph	NW	Residence	Reporting Comments??	1087	2162	3249	8/27/2014
08/22/14	0023 hrs	Fritz Ave, Steel City	0.950	65.8°F	Rain	65.8°F	NW @ 3.5 mph	NW	Residence	Foul Gas Odor	1019	2360	3379	8/27/2014
08/22/14	0800 hrs	Saucun Ave, Steel City	0.978	64.5°F	Broken Clouds	64.5°F	N @ 2.0 mph	NW	Residence	Reporting Comments??	1013	2369	3376	8/27/2014
08/22/14	0803 hrs	Saucun Ave, Steel City	0.950	64.8°F	Broken Clouds	64.8°F	N @ 2.0 mph	NW	Residence	Reporting Comments??	983	2388	3371	8/27/2014
08/22/14	1353 hrs	Fritz Ave, Steel City	0.950	75.8°F	Broken Clouds	75.8°F	NW @ 4.0 mph	NW	Residence	Foul Gas Odor	1071	2296	3367	8/27/2014
08/22/14	1746 hrs	Fritz Ave, Steel City	0.950	72.8°F	Broken Clouds	72.8°F	N @ 4.0 mph	NW	Residence	Foul Gas Odor	1051	2258	3289	8/27/2014
08/22/14	1833 hrs	Quincy Ave, Steel City	0.827	72.1°F	Broken Clouds	72.1°F	N @ 6.9 mph	NW	Residence	Reporting Comments??	1060	2365	3426	8/27/2014
08/22/14	1838 hrs	Saucun Ave, Steel City	1.160	71.3°F	Broken Clouds	71.3°F	NW @ 3.5 mph	NW	Residence	Reporting Comments??	1040	2356	3376	8/27/2014
08/22/14	2007 hrs	Linwood St, Bethlehem	2.815	69.3°F	Broken Clouds	69.3°F	NNE @ 1.2 mph	WNW	Residence	Reporting Comments??	1026	2262	3288	8/27/2014
08/22/14	2007 hrs	Fritz Ave, Steel City	0.950	69.3°F	Broken Clouds	69.3°F	NNE @ 1.2 mph	NE	Residence	Reporting Comments??	1026	2262	3288	8/27/2014
08/22/14	2007 hrs	Johnston Ave, Steel City	1.083	69.3°F	Broken Clouds	69.3°F	NNE @ 1.2 mph	NE	Residence	Reporting Comments??	1026	2262	3288	8/27/2014
08/23/14	1409 hrs	Skyline Dr, Bethlehem	No Address Provided	67.3°F	Broken Clouds	67.3°F	NW @ 6.0 mph	W	Residence	Reporting Comments??	1493	1651	3144	8/27/2014
08/23/14	1857 hrs	Fritz Ave, Steel City	0.950	64.2°F	Broken Clouds	64.2°F	Calm - No Wind	NW	Residence	Reporting Comments??	1288	1942	3170	8/27/2014
08/23/14	1917 hrs	Quincy Ave, Steel City	0.827	64.2°F	Broken Clouds	64.2°F	Calm - No Wind	NW	Residence	Reporting Comments??	1233	1949	3182	8/27/2014
08/23/14	2356 hrs	Saucun Ave, Steel City	0.904	61.5°F	Broken Clouds	61.5°F	Calm - No Wind	NW	Residence	Reporting Comments??	1219	1915	3134	8/27/2014
08/24/14	1202 hrs	Fritz Ave, Steel City	0.950	76.3°F	Broken Clouds	76.3°F	Calm - No Wind	NW	Residence	Reporting Comments??	1216	2025	3241	8/27/2014
08/25/14	1301 hrs	King Will Rd, Hellertown	1.669	65.0°F	Broken Clouds	65.0°F	Calm - No Wind	SE	Residence	Reporting Comments??	1190	2011	3201	8/27/2014
08/25/14	1401 hrs	Fritz Ave, Steel City	0.950	83.0°F	Broken Clouds	83.0°F	WNW @ 4.6 mph	NW	Residence	Reporting Comments??	1219	2127	3346	8/27/2014
08/26/14	0805 hrs	Skyline Dr, Bethlehem	No Address Provided	67.8°F	Broken Clouds	67.8°F	Calm - No Wind	W	Residence	Reporting Comments??	1185	2072	3257	8/27/2014





Incident Report



LOWER SAUCON TOWNSHIP POLICE DEPARTMENT
3700 OLD PHILADELPHIA PIKE
BETHLEHEM, PA 18015

Phone: (610)317-6110 Fax: (610)694-9609

Approved Report 175 - THOMAS BARNDT

Municipality LOWER SAUCON TWP (210)
Report Type INCIDENT

Incident #

Reference #

20140813M3180

2709

Location 2187 SKYLINE DR - BETHLEHEM 18015

Landmark

Premise HOME OF COMPLAINANT

Point of Entry
Meth. of Entry

Patrol Zone Grid

Reported 08/13/2014 @ 07:04 (Wed)

Discovered @

Last Secure @

Received 07:04 Dispatched 07:04

Arrived 07:24 Cleared 07:28

Status CLOSED/CLEARED

Disposition CLOSED - NO FURTHER ACTION

Clear Date 08/13/2014

Badge 160 - PTL JEREMY HANTZ

Criminal Code	Title :	
	Section :	
	Sub-Section :	
	Description :	

UCR Codes	3840 FIRES (INCLUDING ALARMS-FOUNDED/UNFOUND)

Investigating Officer

Signature

Date

Approving Officer

Signature

Date

Persons Involved

WALTERS, EMILY

Arrest Date :

Disposition Date :

Role	Incident Classification	How Charged	Disposition
COMPLAINANT	3840 FIRES (INCLUDING ALARMS-FOUNDED/UNFOUND)		
Alias			
Age-DOB - / /	Height		
Race WHITE	Weight 0	Home Addr 2187 SKYLINE DR	
Sex FEMALE	Hair	BETHLEHEM, PA 18015	
Ethnicity NON-HISPANIC	Eyes		
Marital Stat UNKNOWN	Build	Home Ph # (610)865-3316	
Residency Unknown	Complex.	Work Ph #	
SSN		Cell Ph #	
Gang		Other Ph #	No Photo
Tattoo		E-Mail	
Clothing		Employer	
GBM Id			
-Entered / /		Occupation	
-Released / /		Addl Addr None	
OLN/State /			
Injury			

Main Narrative

PTL JEREMY HANTZ (160)

08/13/2014 15:02 - 160 PTL JEREMY HANTZ Code 3

Dispatched along with fire for an odor investigation. Homeowner at mentioned residence reports an odor of natural gas that is making her nauseated. As I arrived, Fire cleared me, stating that everything was fine and there was no odor of natural gas. Fire stated that it was the overwhelming odor coming from the landfill that made her sick. While enroute, I passed the landfill on Applebutter Road and the smell was stronger than ever.

I cleared.

Nothing further.

Supplemental Narrative

POLICE CLERK - JULIE (CLRK)

SUPPLEMENTAL 08/14/2014 08:35:53 - CLRK POLICE CLERK - JULIE

At. Sgt. Barndt's request - this incident was given to the township management.

Govern, Walter

From: Fisher, Dean J
Sent: Thursday, August 28, 2014 10:40 AM
To: Govern, Walter
Subject: FW: called PADEP again around 6 pm for gas odor RE: gas odor 8/23 and 8/24/2014 at my home
Attachments: ER-JK-082314 REDACTED DJF 8-27-14.pdf

Include (e-mail chain below and attachment) with your report as attachment.

Dean J. Fisher | Solid Waste District Supervisor
Department of Environmental Protection
Waste Management Program | Operations Compliance Enforcement
Bethlehem District Office – Carbon, Lehigh, Monroe & Northampton Counties
4530 Bath Pike | Bethlehem, PA 18017-9074
Phone: 610.861.2063 | Fax: 610.861.2072
www.dep.state.pa.us

From: Fisher, Dean J
Sent: Wednesday, August 27, 2014 3:59 PM
To: manager@lowersaucontownship.org; 'Leslie Huhn'; 'tmaxfield@lowersaucontownship.org'; 'dwillard@lowersaucontownship.org'; 'priscilla deLeon'; 'pdeleon@lowersaucontownship.org'; 'rhoriszny@lowersaucontownship.org'; 'rwhoriszny@hotmail.com'; 'gkern@lowersaucontownship.org'
Cc: zoning@lowersaucontownship.org; 'Jim Birdsall'; 'Chris Taylor'; Sam Donato - IESI; Allen Schleyer - IESI; Schweitzer, Andrew
Subject: RE: called PADEP again around 6 pm for gas odor RE: gas odor 8/23 and 8/24/2014 at my home

Today the Department conducted a joint Waste Management Program and Air Quality Program inspection at IESI Pa Bethlehem Landfill. Intermediate cover was identified as an area of concern during this inspection. Review of the inspection findings by the Department is pending. Upon completion, the Department's reports for this inspection will be provided to Lower Saucon Township as per standard practice.

On Saturday August 23, 2014 the Department conducted an emergency response investigation due to the receipt of multiple odor complaints. As requested, attached is a copy of the inspection report. The report is redacted to protect the identity of the complainant as per Department procedures. The findings within this report remain under review by the Department.

It is my understanding that IESI representatives conducted odor complaint response over the weekend.

Dean J. Fisher | Solid Waste District Supervisor
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4530 Bath Pike | Bethlehem, PA 18017-9074
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From: priscilla deLeon [<mailto:PmdeLeon@aol.com>]
Sent: Sunday, August 24, 2014 6:19 PM
To: manager@lowersaucontownship.org; 'Leslie Huhn'; aschleyer@iesi.com; sjdonato@iesi.com
Cc: 'Linc Treadwell'; zoning@lowersaucontownship.org; 'Jim Birdsall'; 'Lauressa McNemar'; 'Chris Taylor';

rsichler@msn.com; thehijazis@hotmail.com; dlouder2013@gmail.com; Fisher, Dean J; 'deLeon, Priscilla'
Subject: called PADEP again around 6 pm for gas odor RE: gas odor 8/23 and 8/24/2014 at my home

Called PADEP again around 6 pm today for the gas odor...again

Priscilla deLeon

Email: deLeon.Priscilla@gmail.com, Cell: 610-216-0566

From: deLeon, Priscilla [<mailto:deleon.priscilla@gmail.com>]

Sent: Sunday, August 24, 2014 11:28 AM

To: manager@lowersaucontownship.org; 'Leslie Huhn'; aschleyer@iesi.com; sidonato@iesi.com

Cc: 'Linc Treadwell'; zoning@lowersaucontownship.org; 'Jim Birdsall'; 'Lauressa McNemar'; 'Chris Taylor'; rsichler@msn.com; deLeon.priscilla@gmail.com; thehijazis@hotmail.com; dlouder2013@gmail.com; defisher@pa.gov

Subject: gas odor 8/23 and 8/24/2014 at my home

Hi!

Just wanted you know that I personally smelled the gas odor again at my home on Saturday, August 23, 2014 at 7:23 pm and again on Sunday, August 24, 2014 at 12:15 am which was very strong. I did call PADEP both times to report it. I also received complaints from other residents who called DEP. I am now asking residents to email the township with their complaints so we have a record.

I am following up with this email to the township and IESI regarding my complaint.

Thank you,

Priscilla deLeon, Councilwoman, Lower Saucon Township Council

2140 Saucon Avenue, Bethlehem, PA 18015

Email: deLeon.Priscilla@gmail.com

Cell: 610.216.0566

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
EMERGENCY RESPONSE FIELD INSPECTION REPORT**

Type of incident: Odor Complaint at residence		Date: Sat. 8/23/2014	
Facility or Location: IESI Landfill			
Municipality: Lower Saucon Twp.		County: Northampton	
Latitude: 40° 37' 22.5"		Longitude: 75° 19' 23.6"	
Call Out Time: 1516hrs		Return Time: 1926hrs	
Site Arrival Time: 1708hrs		Site Departure Time: 1820hrs	
Beginning Mileage: 32322		Ending Mileage: 32403	
Complainant Name and Address: [REDACTED]		Skyline Dr., Bethlehem, PA (Lower Saucon Twp) [REDACTED]	
Telephone Number [REDACTED]			
Responsible Party Name and Address: IESI Landfill			
Telephone Number ()			
Weather Conditions: Partly Cloudy, Temp – 60s, wet conditions after day's rain.			
Remarks:			
<p>1516hrs -- call from Bob Bisignani, ER Coordinator, to respond to odor complaint phoned in by [REDACTED]. I called [REDACTED] who informed me that there was a strong odor at [REDACTED] Skyline Dr. [REDACTED] stated that [REDACTED] called a representative of Bethlehem Renewable Energy and was told that the plant was running normally without any problem and [REDACTED] had observed that the IESI landfill flare was operating. I gave [REDACTED] an ETA of about 90 minutes.</p> <p>I drove to the Bethlehem office and obtained the Thermo TVA-1000B meter and turned the meter on to warm it up. After 10 minutes, I bump-tested the meter's FID detector with a 500ppm methane calibration cylinder and it read 500ppm. The background FID reading was 2.4ppm.</p> <p>1658hrs – I turned onto Applebutter Rd. from Shimersville Rd. and detected the odor of landfill gas. The FID readings was 3.2ppm. I drove out Skyline Dr. to the dead-end and parked at the red farm gate in view of the landfill at 1703hrs. The FID reading was 2.0ppm and no gas odor was present. I drove west on Skyline Dr. to the bottom of the road to [REDACTED] Skyline and then drove up the hill into the driveway – a distinct and persistent landfill gas odor was present about ½ way up the hill and on the [REDACTED] property. The FID reading was 5.6ppm when on the property. The complainant confirmed that the odor present was the reason for the complaint and that the odor was considered objectionable. The odor was reported to be present on and off throughout the day – in the morning and around 2pm on this day. (Sat 8/23/14) The landfill gas odor was present on Skyline Drive as I drove to the east toward the landfill and the FID readings ranged from 5.0ppm at the intersection of Skyline and the bottom of the driveway to [REDACTED] at 1717hrs to 7.9ppm at 1719hrs at Skyline and Hador Lane to a peak of 10.0ppm at the top of the hill near [REDACTED] Skyline at 1720hrs. I drove east on Skyline to the end of the paved road and the FID was 3.7 at 1722hrs, I backed into the pull-off at the red farm gate and the reading was 4.3ppm and a slight gas odor was present. As I drove west and climbed the hill the landfill gas odor became apparent with the FID reading of 6.0 at the fire hydrant and a reading of 11.4 at the top of the hill at 1729hrs across from [REDACTED] Skyline Dr. At Hador Lane, the FID read 10.0, and at [REDACTED] Skyline (the low point in the road) the FID was 7.3, 6.9 at the driveway to 2187 at 1733hrs, 7.3 in the driveway of [REDACTED] parked next to the well cap at 1734hrs, and the landfill gas odor was present at all these locations. I drove further west on Skyline and the odor was no longer present and the FID readings decreased – 4.5ppm at [REDACTED] Skyline at 1736hrs, 4.0ppm at 1737 at [REDACTED] Skyline Dr., 2.8ppm at [REDACTED] Skyline (just east of border Lower Saucon Twp and Bethlehem City), 2.4 at Skyline and Applebutter Rd at 1741hrs. I drove out Applebutter Rd. to the Bethlehem Renewable Energy Facility and the entrance gate to IESI landfill and had no odor of landfill gas or FID readings above the background reading of 2.4ppm. I turned around at Ringhoffer Rd. and drove west on Applebutter Rd. – I detected a landfill gas odor at 1801hrs at 2237 Applebutter Rd near the Gate C for Beth. Energy Center and had an FID reading of 3.7ppm. The odor was not present at [REDACTED] Applebutter Rd or further west on the road and the FID readings were not above background. The Allentown Weather summary for Allentown on 8/23/14 indicated the temp in the 60s, with a relative humidity of 73-93% (it rained most of the day before I arrived) with a wind from the east at an average of 4.3mph up to 12mph. A wind direction from the east is consistent with my observations of the Connectiv Energy Stacks from Skyline Dr.</p>			
Materials Used: N/A			
Sample Collected? N/A		Sample Numbers:	
		Analysis?	
Investigated By: J. Kunkle (ER-JK-082314.docx)		PADEP Northeast Regional Office	

Govern, Walter

From: Sam Donato <sjdonato@iesi.com>
Sent: Thursday, August 28, 2014 3:17 PM
To: Fisher, Dean J; Govern, Walter
Cc: Allen Schleyer
Subject: RE: called PADEP again around 6 pm for gas odor RE: gas odor 8/23 and 8/24/2014 at my home

Dean / Wally :

Just a follow up to the Departments inspection on 8-27:

1. The site has completed the placement of additional cover soils where surfaces gas emissions were identified .
2. The gas wells that were identified with surfaces gas emissions ,the work was started today and will be completed tomorrow.
3. SCS will be back at the site in 10 days to complete the retesting.

Also CBI will start drilling additional gas wells the week of 9-1 to expand the gas collection system.

If additional information is needed please contact me.

Thanks ...Sam

Samuel Donato
District Manager

IESI
A Progressive Waste Solutions Company

C: 610-554-5082

Mailing Address
2335 Applebutter Road
Bethlehem, PA 18015

www.iesi.com

From: Fisher, Dean J [mailto:dfisher@pa.gov]
Sent: Wednesday, August 27, 2014 3:59 PM
To: manager@lowersaucontownship.org; 'Leslie Huhn'; tmaxfield@lowersaucontownship.org; dwillard@lowersaucontownship.org; priscilla deLeon; pdeleon@lowersaucontownship.org; rhoriszny@lowersaucontownship.org; rwhoriszny@hotmail.com; gkern@lowersaucontownship.org
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Dean J. Fisher | Solid Waste District Supervisor
Department of Environmental Protection
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Priscilla deLeon, Councilwoman, Lower Saucon Township Council

2140 Saucon Avenue, Bethlehem, PA 18015

Email: deLeon.Priscilla@gmail.com

Cell: 610.216.0566

Govern, Walter

From: Allen Schleyer <aschleyer@iesi.com>
Sent: Thursday, September 11, 2014 3:47 PM
To: Govern, Walter
Cc: Sam Donato
Subject: Bethlehem data
Attachments: BETH-BRE LFG flow rates 7-30 to 8-26-2014.pdf; Bethlehem LF Form H.pdf; August odor complaints.xlsx; 1162 1-LFG AB 05-12-14.pdf

Wally

Attached is the requested data. I am still working with Ken to get the BRE flow data for June 6 to Aug 20, 2014.

The gas drawing has the disposal cells delineated by a dash line with the cell name inside.

Al Schleyer

Compliance Manager

IESI

A Progressive Waste Solutions Company

T: 610-317-3200 Bethlehem
T: 717-709-1700 Blue Ridge
C: 484-357-3135

IESI PA Blue Ridge Landfill
PO Box 399
Scotland, PA 17254

IESI PA Bethlehem Landfill
2335 Apple Butter Road
Bethlehem, PA 18015

www.iesi.com

Date	Time	Flow Rate (SCFM)	Vacuum (" H2O)	Average Flare Flow Rate (SCFM)
7/30/2014	0800 hrs	2209	-84.7	1146
7/31/2014	1011 hrs	2066	-79.6	1264
7/31/2014	1530 hrs	Shutdown		2543
8/1/2014	0118 hrs	Shutdown		2444
8/1/2014	1558 hrs	2068	-75.4	1641
8/1/2014	2125 hrs	2155	-80.4	1359
8/2/2014	0720 hrs	2082	-85.8	1296
8/3/2014	0719 hrs	1931	-86	1425
8/3/2014	1031 hrs	1933	-85.8	1410
8/5/2014	0721 hrs	Shutdown		2472
8/5/2014	0733 hrs	Shutdown		2482
8/5/2014	0733 hrs	Shutdown		2482
8/6/2014	0745 hrs	2045	-85.8	1252
8/6/2014	0747 hrs	2143	-85.8	1260
8/6/2014	0747 hrs	2143	-85.8	1260
8/6/2014	0747 hrs	2143	-85.8	1260
8/6/2014	0813 hrs	2062	-85.8	1262
8/6/2014	0947 hrs	2067	-86	1284
8/7/2014	0702 hrs	2217	-94.5	1101
8/8/2014	0713 hrs	2251	-90.4	924
8/8/2014	2022 hrs	2195	-89.4	1035
8/9/2014	1728 hrs	2120	-84.5	1092
8/10/2014	1424 hrs	2093	-80.6	1134
8/10/2014	1450 hrs	2027	-80.6	1130
8/10/2014	1525 hrs	2018	-81.4	1141
8/11/2014	0919 hrs	2121	-85.8	1074
8/11/2014	1334 hrs	2041	-84.5	1142
8/12/2014	0936 hrs	2123	-74.9	985
8/14/2014	0734 hrs	2198	-79.3	877
8/14/2014	0737 hrs	2174	-79.3	891
8/14/2014	0825 hrs	2171	-79.3	894
8/16/2014	0907 hrs	2239	-79.3	878
8/16/2014	0926 hrs	2220	-79.3	899
8/18/2014	0607 hrs	2161	-78.8	892
8/18/2014	0713 hrs	2185	-78.8	887
8/18/2014	0804 hrs	2164	-78.8	919
8/20/2014	0813 hrs	2161	-77.7	1080

8/20/2014	0822 hrs	2160	-77.7	1084
8/20/2014	0840 hrs	2162	-77.7	1087
8/22/2014	0028 hrs	2360	-81.4	1019
8/22/2014	0805 hrs	2363	-81.4	1013
8/22/2014	0853 hrs	2388	-81.4	983
8/22/2014	1353 hrs	2296	-75.8	1071
8/22/2014	1746 hrs	2238	-75.8	1051
8/22/2014	1754 hrs	2365	-75.8	1060
8/22/2014	1818 hrs	2336	-75.8	1040
8/22/2014	2007 hrs	2262	-75.8	1026
8/22/2014	2007 hrs	2262	-75.8	1026
8/22/2014	2007 hrs	2262	-75.8	1026
8/23/2014	1409 hrs	1651	-60.4	1493
8/23/2014	1857 hrs	1942	-70.5	1228
8/23/2014	1917 hrs	1949	-70.5	1233
8/23/2014	2356 hrs	1915	-70.5	1219
8/24/2014	1202 hrs	2025	-70.5	1216
8/25/2014	0815 hrs	2011	-70.5	1190
8/25/2014	1401 hrs	2127	-70.5	1219
8/26/2014	0805 hrs	2072	-70.5	1165

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8/22/2014	0028 hrs	2360	-81.4	1019
8/22/2014	0805 hrs	2363	-81.4	1013
8/22/2014	0853 hrs	2388	-81.4	983
8/22/2014	1353 hrs	2296	-75.8	1071
8/22/2014	1746 hrs	2238	-75.8	1051
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8/25/2014	1401 hrs	2127	-70.5	1219
8/26/2014	0805 hrs	2072	-70.5	1165



Coordination #

**FORM H
REVEGETATION**

<p>This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided herein. Improperly completed forms may be rejected by the Department, may be considered to be violations of the Department's Rules and Regulations, and may result in assessment of fines and penalties.</p>	DEP USE ONLY
	<p>Application or Facility ID# _____ (Assigned by DEP)</p> <p>Stamp Date Application Received</p>

General References: Sections 273.142, 275.401, 277.142, 281.131, 288.142, 298.142, 291.415, 295.131

Instructions: Attach information on 8 1/2 x 11 inch sheet(s) if additional space is required. Identify each sheet as Form 16 and specify soil test plan, temporary or final cover.

SECTION A. APPLICANT IDENTIFIER

Applicant Name **IESI PA Bethlehem Landfill Corporation**

SECTION B. SOIL TEST PLAN

Provide a soil test plan for determining plant nutrients and soil amendments required to establish temporary and final cover.

SECTION C. TEMPORARY COVER

- | a) | Seed Mixture No. | Seed Mixture (Species) | Rate of Appl. (lbs./acre) | (Min. % Germ.) | Seed Quality (Min. % Purity) | Seeding Dates (Months) |
|----|------------------|------------------------|---------------------------|----------------|------------------------------|------------------------------|
| | 1 | Winter Rye | 112 | 85 | 98 | late August to early October |
- b) The proposed use of each seed mixture. Include where and when each mixture is to be used.
See Attachment H-1
 - c) The seedbed preparation, including lime and fertilizer application and incorporation procedures.
Lime and fertilize in accordance with soil test recommendations (See Attachment)
 - d) Method(s) of seeding.
Either broadcasting followed by a covering of straw or hay mulch or by hydroseeding.
 - e) Type(s) of mulch to be used and rate(s) of application.
Use grass hay or cereal straw at a rate of 3 tons per acre. Place mulch immediately after seeding or within 48 hours after seeding is complete (See Attachment).
 - f) The technique to be used to evaluate the success of revegetation.
See Attachment H-1
 - g) Proposed maintenance procedures.

SECTION D. PERMANENT COVER

a)	Seed Mixture No.	Seed Mixture (Species)	Rate of Appl. (lbs./acre)	Seed Quality		Seeding Dates (Months)
				(Min. % Germ.)	(Min. % Purity)	
	3	Birdsfoot Trefoil Plus Tall	10	60	98	Aug. - Sept.
		Fescue Plus Redtop	15 3	80 80	95 92	March - Sept. March - June
	7	Birdsfoot Trefoil Plus Crownvetch Plus Tall Fescue	10 20	60 40 30	98 98 80	Aug. - Sept March - June March - Sept.

b) The proposed use of each seed mixture. Include where and when each mixture is to be used. Permanent seeding will be applied to the entire disturbed area at the landfill. The optimum seeding periods occur during the spring and late summer seasons. (See Attachment)

c) The seedbed preparation, including lime and fertilizer application and incorporation procedures. Prior to seeding apply limestone and at the time of seeding apply fertilizer. Lime and fertilizer surface and subsurface layers to a depth of 12 inches.

d) Method(s) of seeding.
Same as temporary cover.

e) Type(s) of mulch to be used and rate(s) of application.
Same as temporary cover.

f) The technique to be used to evaluate the success of revegetation.
Same as temporary cover.

g) Proposed maintenance procedures.
Same as temporary cover. In addition, maintain growth of vegetation by mowing bimonthly when needed.

**IESI BETHLEHEM LANDFILL
APPLICATION FOR PERMIT MODIFICATION
PHASE IV DISPOSAL AREA**

**ATTACHMENT H-1
FORM H – SUPPLEMENTAL INFORMATION**

A. Soil Test Plan

Soil testing will be performed on the designated borrow area materials to estimate the structure and fertility of the soil. A sufficient number of soil samples should be randomly selected from the site to obtain a representative sample. One sample should not represent more than 10 to 20 acres (see Penn State Agronomy Guide: 1991-1992).

(a) Physical Testing

Physical testing is used to determine the particle size distribution of the soil. Particle sizes will be analyzed according to ASTM D 422 (Standard Method for Particle Size Analysis of Soils). Material not in compliance with the Pennsylvania DEP regulations will be produced to meet standards by crushing, screening, washing and recombining borrow material.

(b) Chemical Testing

Chemical testing is used to estimate the fertility status of the soil. An approved laboratory test analysis will be performed to determine the concentration levels of the following primary and secondary plant nutrients; phosphorus, potassium, magnesium and calcium. The appropriate amounts of nutrients needed will be determined accordingly and reported as pounds per acre of the individual constituents. The pH of the soil will also be measured at the time of sampling. A testing laboratory that bases its interpretation and recommendations on local conditions should be used.

(c) Seedbed Preparation

Prior to seeding, the recommended amount of ground agricultural-grade limestone will be worked into the final cover material to a depth of 6 inches using a tandem disc harrow or other appropriate equipment. At seeding time, the recommended amount of fertilizer will, likewise, be worked into the final cover material to a depth of 6 inches.

(e) Mulch Application

The seeded areas will be mulched using grass hay or cereal straw at an average rate of three tons per acre. On the steep slopes, hay rather than straw should be used. Mulch should be spread evenly to produce a loose layer $\frac{3}{4}$ to 1 inch deep, immediately after seeding or not more than 48 hours after seeding is complete.

(f) Methods for Evaluation Success of Revegetation

In the event that there is a question regarding the success of revegetation in a particular area, the following can be implemented.

1. Vegetation Density

An estimate of the percentage of vegetative cover established on the site can be used to determine the success of the revegetation. Vegetative density will be measured at several study plots using a cover frame known as "Daubenmire Frame". A sufficient number of study plots should be randomly selected from the site to obtain a representative sample. This method provides a calibrated area within which the observer estimates the percent of the area within the frame that is covered by living biomass.

2. Root Biomass

The ability of the vegetation to become established in a soil can be estimated by the depth and density of the root structure. Root penetration will be estimated by excavating several shallow pits or removing core samples and measuring the depth to which the rootlets and root hairs penetrate into the substrate material. The greater the extent of root development in terms of vertical penetration and biomass density, the more likely the species will become strongly established. A sufficient number of samples should be selected randomly to obtain a representative sample of the site.

B. Temporary Cover

(f) Use of Seed Mixture

Use recommended mixture on areas in which intermediate cover has been placed, and on areas which neither waste nor final cover is expected for 30 days or more. Seed exposed excavation and borrow areas that will be exposed for more than 20 days and are not subject to traffic.

(g) Maintenance Procedures

Fertilization should be applied ever two to three years as needed to maintain a dense vegetative cover. Areas of the site which contain less than the required cover density as specified per PaDEP Regulation 273.236 should be reseeded and mulched. Check lime requirements every 4 years and apply agricultural grade limestone as needed.

C. Permanent Cover

(b) Use of Seed Mixture

Seed mixture No. 3 is to be used for areas flatter than 3:1 slopes. This includes all grassed drainageways in which the rate of application should be increased to four (4) pounds per 1,000 square feet.

Seed mixture No. 7 is to be used for areas of 3:1 slopes and steeper.

All seed used for permanent cover will be blue-tagged and Pennsylvania certified as meeting the stated minimum requirements.

D. Topsoil

- (a) Final cover (atop cap) shall include six (6) inches of topsoil, as shown on the Design Plans.

Govern, Walter

From: Allen Schleyer <aschleyer@iesi.com>
Sent: Friday, September 12, 2014 2:41 PM
To: Govern, Walter
Cc: Sam Donato
Subject: Bethlehem flow correlation
Attachments: Bethlehem -BRE flow correlation 8-7&8-14.pdf

Wally

Attached for your review is a graph showing the BRE flow vs. time for August 7 and 8, 2014 and the Flare chart for those days. This does show the cyclical correlation between the BRE turbine and flare. Ken said it is a little time consuming to reduce the data from the 15 minute intervals to what he has on the graph. If you still want the full data set let me know. Ken will provide it but it may take a few days.

thanks

Al Schleyer

Compliance Manager

IESI

A Progressive Waste Solutions Company

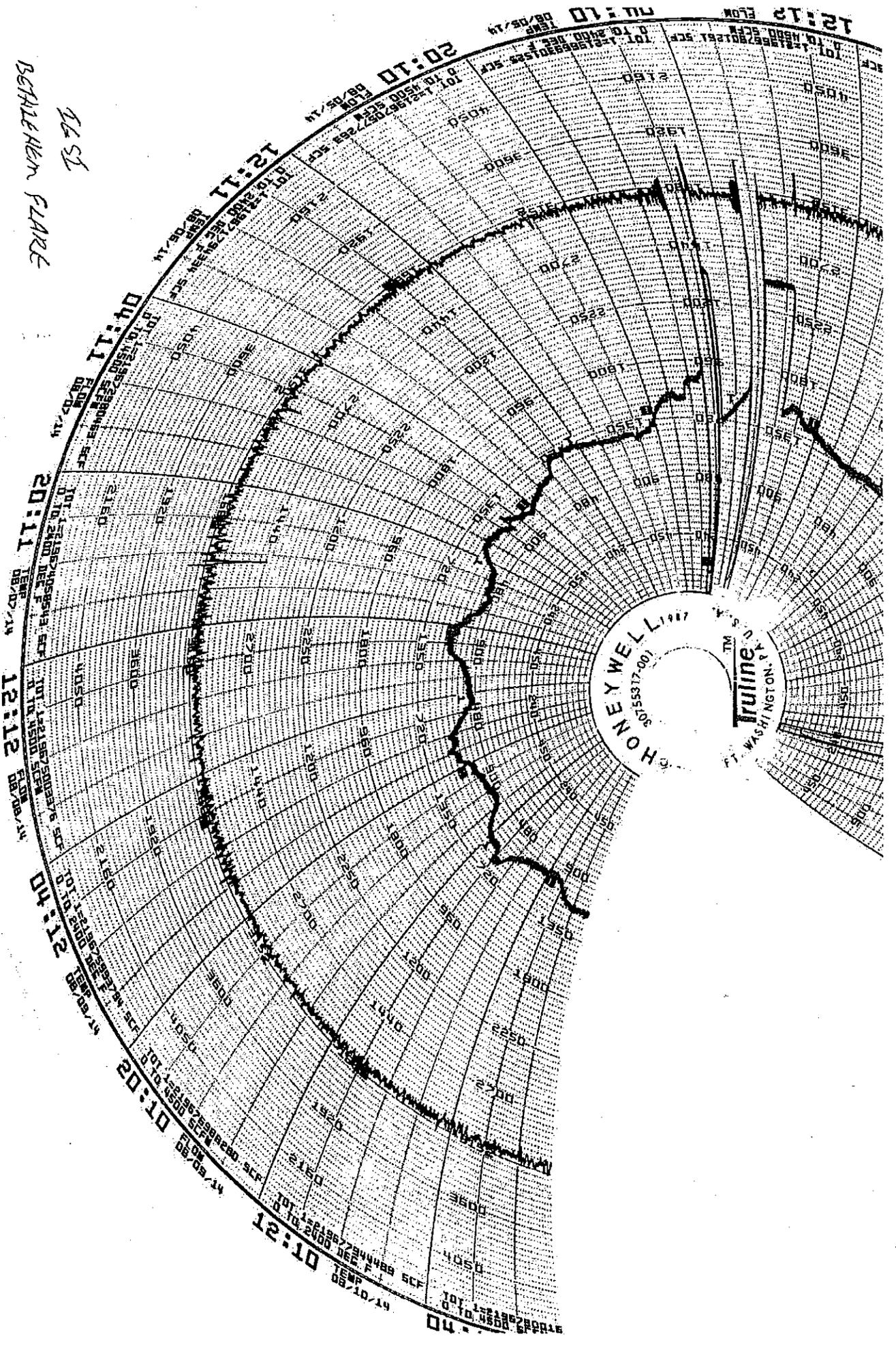
T: 610-317-3200 Bethlehem
T: 717-709-1700 Blue Ridge
C: 484-357-3135

IESI PA Blue Ridge Landfill
PO Box 399
Scotland, PA 17254

IESI PA Bethlehem Landfill
2335 Apple Butter Road
Bethlehem, PA 18015

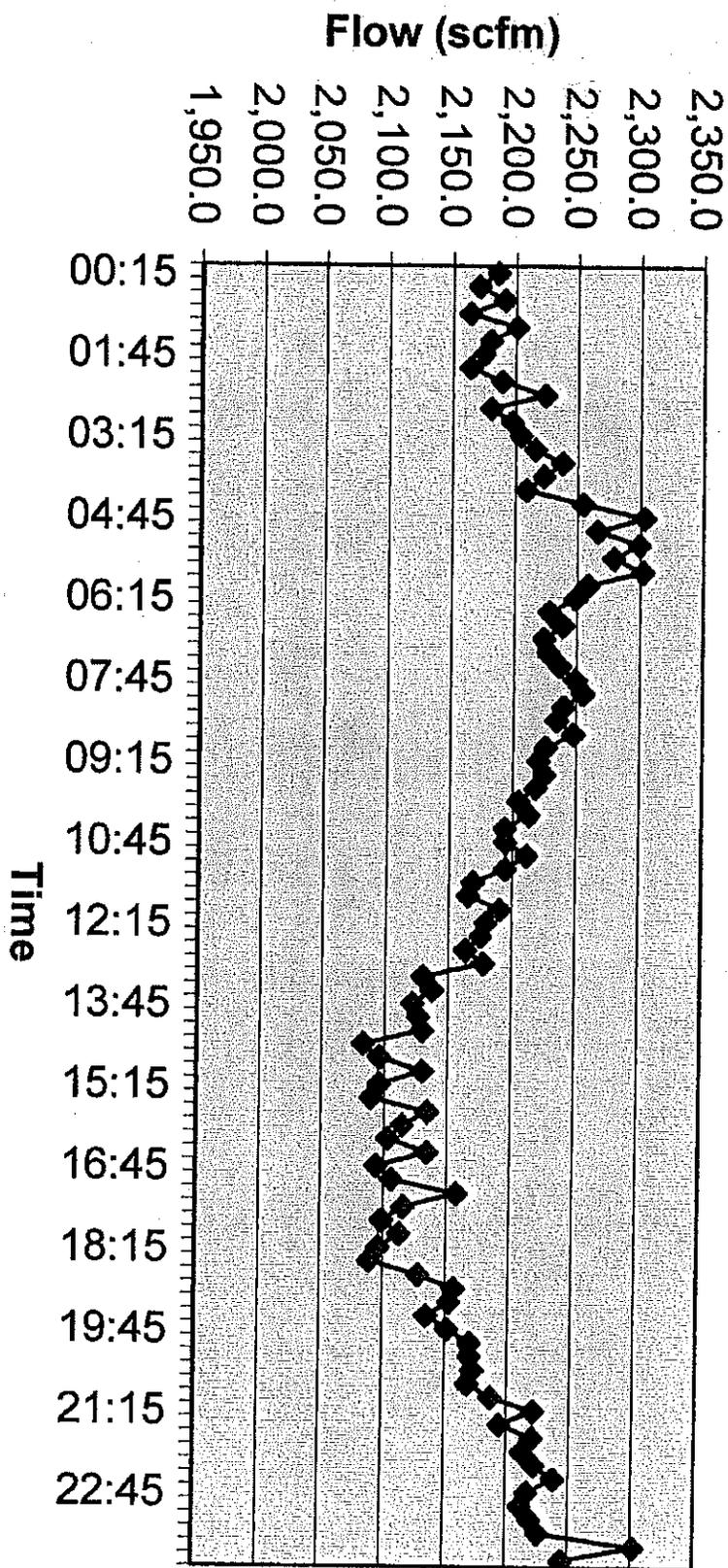
www.iesi.com

BSL
RETALIATION PLATE



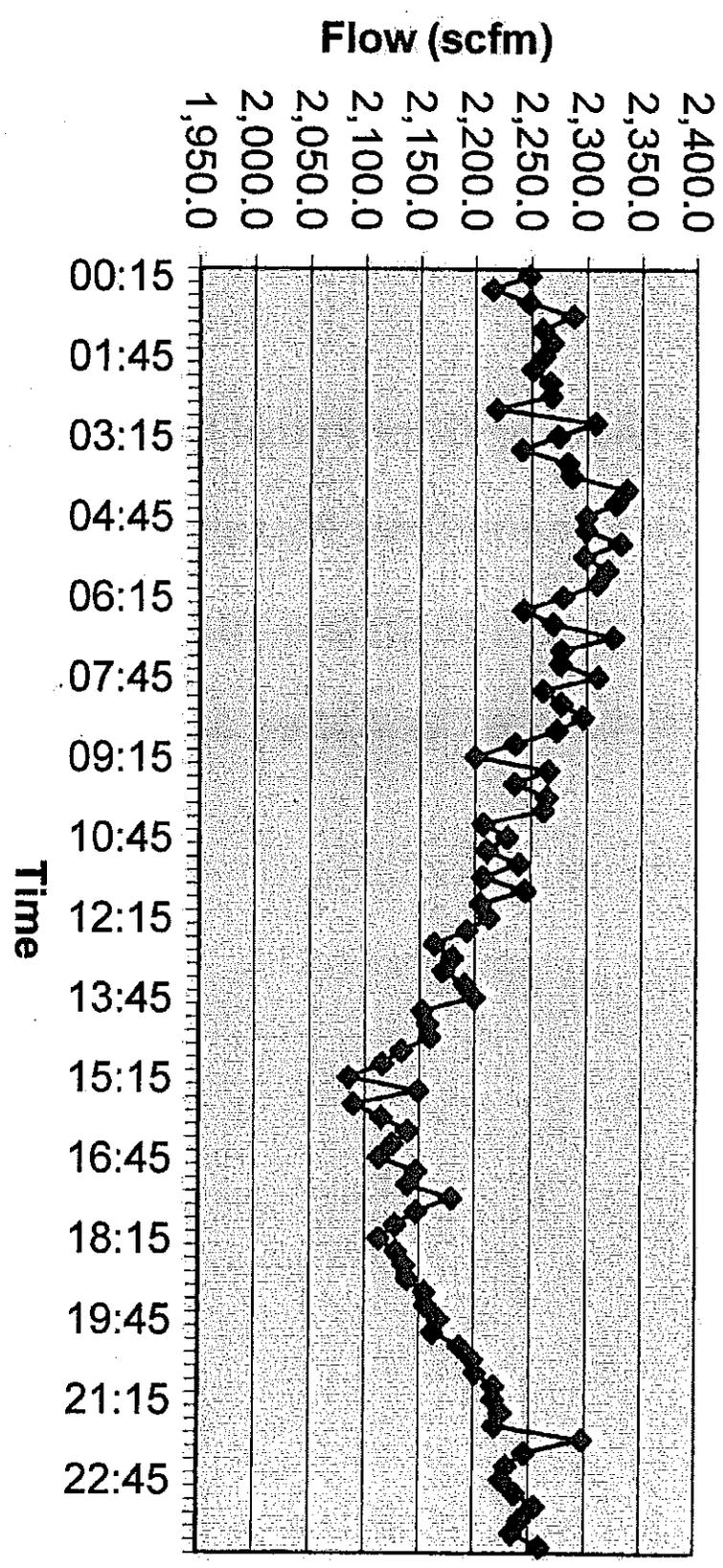
BRE

Turbine plant flow 8/7/14



BRE

Turbine plant flow 8/8/14



**The Following Odor Patrol Logs
Are General Odor Patrols
Not Associated with an IESI Inspection
(General Odor Patrols are Conducted as Time Permits)**

Investigator: A. Fawick Date: 7/30/14
 Weather Conditions: Clear 67°F wind 4W

IESI PA BETHLEHEM 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 EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Ph. 412	917	N			
Shinnessville	920	S	P	S	Strong, Persistent Sewage odor near sewerage treatment plant
Applebutter	922	M	P	LFG	Moderate, Persistent gas odor @ IESI entrance just east of entrance
Applebutter X Valley Views	920	M	1	D	Moderate, intermittent wood burning odor
Valley Views	930	SL	1	G	light, intermittent garbage odor (traveling behind garbage field)
Buttermilk	933	N			
Kitch line	934	N			
W. Butternut	934	SL	1	G	very light, intermittent garbage odor @ W. Butternut X
Woodland	936	N			
Kitch line	937	N			
W. Butternut	939	N			met w/ complainant - no odor on property
W. Butternut	950	SL	1	G	very light, intermittent garbage odor @ W. Butternut X Woodland
Woodland	952	N			
Kitch line	953	N			
Buttermilk	954	D			
Texas	957	N			
Buttermilk	1005	N			
Lower Sausen Rd	1006	M	1	D	Moderate, intermittent SL on L odor

EFACTS # 2291056

Investigator: A. Faulstich Date: 7/30/14
 Weather Conditions: Clear, 63°F, Wind 4W

IESI PA BETHLEHEM 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 EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Applebutter	1067	SL	1	G	light, intermittent garbage odor east of IESI
Ringhoffer	1012	SL	1	O	light, intermittent wood burning odor
Eastern Rd	1015	N			
Ringhoffer	1020	N			
Shermy Hill	1021	SL	1	G	light, intermittent, sharp garbage odor
Applebutter	1025	SL	1	G	light, intermittent garbage odor just east of IESI
Shimersville	1031	N			
Saucen Ave	1032	N			
Roberts Ave	1033	N			
Mixell	1034	N			
Adams	1035	N			
Riverside	1035	N			
Beddingfen	1039	N			
Lower Saucen Rd	1042	SL	1	O	light, intermittent spruce odor
Applebutter	1044	SL	1	G	very light, intermittent garbage odor just east of IESI
ENTER LANDFILL	1048				
Applebutter	1131	N			odor patrol w/ Mike Swaiden of IESI
Shermy Hill	1134	N			

Investigator: Walter Gouvert Jessica Date: 9/6/14
 Weather Conditions: 20.6°F Cloudy Wind east @ 15-20 mph @ 6.9 mph

IESI PA BETHLEHEM 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 EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
L. Sauer Rd.	0945	N	N	-	
Applebaster Rd.	0948	N	N	-	
Ringbaster Rd.	0950	M	P	CFG	
Easton Rd (East)	0952	N	N	-	
L. Sauer Rd.	0953	N	N	-	
Kings Mill Rd. (West)	0955	N	N	-	
Kings Mill Rd. (East)	0957	N	N	-	
L. Sauer Rd.	0957	N	N	-	
Easton Rd.	1001	SL	P	-	Soil odors Earthmoving activities <small>Hellerbourn Materials Entrance</small>
Ringbaster Rd.	1003	N	N	-	
Sherry Hill Rd.	1006	SL	I	LFG	Q Int. of Ringbaster Rd & Sherry Hill Rd.
Applebaster Rd.	1009	S	P	LFG	Just east of IESI entrance
Entrance to IESI	1009	M	P	LFG/G	
Applebaster Rd.	1012	N	N	-	
Skyline Dr. (East)	1019	N	N	-	
Skyline Dr. (West)	1024	N	N	-	
Applebaster Rd.	1024	N	N	-	
Shinersville Rd.	1025	N	N	-	

eFACTS ID # 2303135

Investigator: Walter Goveard & Wagoner Date: 8/6/14
 Weather Conditions: _____

IESI PA BETHLEHEM 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 EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Saucer Ave.	1027	SL	F	O	Musty Mowmow-like odor (observed by Driver/Spot)
Roberts Ave	1028	N	N	—	
Mixsell Ave	1029	N	N	—	
Adams Ave.	1030	N	N	—	
Riverside Dr.	1035	SL	P	O	Glass Cutting odors
Ridgford Rd.	1039	N	N	—	
L. Saucor Pl.	1040	N	N	—	
Applebutter Rd.	1044	SL	P	LFG	Odor intensity is decreasing compared to the last pass.
Entrance to IESI	1044	SL	P	LFG	
Applebutter Rd	1046	SL-M	I	S	Adjacent to Auto Body Shop
Shinersville Rd	1048	N	N	—	
End of Patrol	1048	—	—	—	