



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BETHLEHEM DISTRICT OFFICE

June 30, 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

S

ROUTING

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

Enclosure

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## INSPECTION REPORT – MUNICIPAL WASTE LANDFILL

Site I.D. 255983Site Name IESI PA BETHLEHEM LANDFILLAddress 2335 APPLEBUTTER RDMunicipality 8924 LOWER SAUCONResponsible Official SAMUEL DONATO, JR.Person Interviewed AL SCHLEYERInspector WALTER F. GOVERNeFACTS ID # PF 268729SF 266826

Telephone # \_\_\_\_\_

Operator Name IESI PA BETHLEHEM LANDFILLAddress 2335 APPLEBUTTER RDCounty NORTHAMPTONTitle PA DISTRICT MANAGERTitle COMPLIANCE MANAGERTitle SOLID WASTE SPECIALISTComment: This Routine Partial Inspection is in response to the storm water event that occurred on 06/13/2014.Inspection Date: 06/16/2014 Type: Routine Partial Insp Results: NO VIOLS Resolved: / /Permit Expiration Date: 04/17/2023 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>12/31/2014</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 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vehicles directed promptly to unloading area and promptly unloaded.	<input type="checkbox"/>	273.216(a), (b)	15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 06/16/2014

**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				
<b>DAILY OPERATIONS (Cont'd)</b>							
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator implements radiation protection action plan.	<input 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 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 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 type="checkbox"/>	273.223(g)	31
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intermediate cover applied within time limits.	<input type="checkbox"/>	273.233(a)	54
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intermediate slopes do not exceed 50%.	<input type="checkbox"/>	273.232(d)	55
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Final slopes stable and erosion controlled.	<input type="checkbox"/>	273.234(f)	58
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
				<b>WATER QUALITY PROTECTION</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Surface and groundwater treatment facilities properly operated and maintained.	<input type="checkbox"/>	273.241(b)	61
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
				<b>LINER SYSTEM</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Liner system designed, constructed, operated, and maintained when required.	<input type="checkbox"/>	273.251(a), (b)	65
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edge of liner requirements adhered to (i.e., no waste within 25 feet of 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Leachate detection zone monitored weekly.	<input type="checkbox"/>	273.255(c)	67
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Protective cover meets minimum requirements and at least 18 inches thick.	<input type="checkbox"/>	273.257(b)	69
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Leachate collection system within protective cover meets minimum requirements.	<input type="checkbox"/>	273.258(a), (b)	70
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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
				<b>WATER QUALITY MONITORING</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Approved monitoring system installed and maintained.	<input type="checkbox"/>	273.281(a), (b) & 273.283	82
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Groundwater assessment plan submitted and implement as required.	<input type="checkbox"/>	273.286(a)-(g)	84
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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
				<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 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





### INSPECTION REPORT COMMENTS

Date of Inspection 06/16/2014 Identification Number 100020

Company/Facility/Site Name IESI PA BETHLEHEM LANDFILL

**Comments:**

On June 16, 2014, the Pennsylvania Department of Environmental Protection (Department) conducted a routine partial inspection at IESI PA Bethlehem Landfill (IESI). This inspection was conducted in response to the storm water incident that occurred at IESI on June 13, 2014 between approximately 1530 hrs and 1700 hrs. As this is a routine partial inspection, not all line items in this report were evaluated due to time constraints. This is not a routine complete inspection. Most line items in this report are therefore marked as "not determined." Representing the Department during this inspection was Walter F. Govern III (this inspector). Representing IESI was Al Schleyer, Compliance Manager.

This inspector met with Mr. Schleyer regarding the storm water incident. Mr. Schleyer explained that on the morning of June 13, 2014, a rain event starting at approximately 0430 hrs, dropped a little over an inch and a half of rain in four hours. Then at approximately 1500 hrs, a second rain event dropped a little over an inch of rain in one hour. During this second rain event, a "floating walkway" that crossed the storm water channel was washed down to the inlet pipe of storm water basin 4. The walkway (still intact) partially blocked the inlet pipe to basin 4 and caused water to overflow the banks of the channel. Storm water washed silt and some litter out the entrance of the landfill, across Applebutter Road and onto the neighboring property of Calpine, south of the landfill. This storm water release occurred at approximately 1600 hrs. Mr. Schleyer contacted Mr. Dean Fisher (Department Waste Management Program Solid Waste Supervisor) and Ms. Sheena Ripple (Department Water Quality Program Water Quality Specialist) at around 1605 hrs by phone. Mr. Schleyer then called the Department's Northeast Regional Emergency Hotline to speak to a representative to report the incident.

Mr. Schleyer stated that Applebutter Road was cleaned of silt and passible by 1645 hrs. The litter on the adjacent Calpine property was collected and disposed of by Saturday June 14, 2014.

This inspector conducted a site tour of the landfill during the time of this inspection. The storm water channel and the inlet pipe were observed. Litter crews were in the process of collected litter throughout the storm water channel. Mr. Schleyer stated that IESI planned on collecting the litter and then cleaning out the silt from affected storm water control devices, inlet boxes, and connecting piping. This inspector also observed some erosion on the southern slopes of the landfill. The most erosion occurred at the cap tie-in of the newly capped area of the south slope. IESI was in the process of connecting the new cap liner with the existing cap liner when the storms occurred. Mr. Schleyer stated that an approximately two foot wide area of cover material was removed to expose the cap for the tie-in. Storm water washed down this excavated area and increased the width of the excavation. Mr. Schleyer stated that the erosions observed during this inspection will be repaired along with any seeps that may occur over the next few weeks in a timely manner.

This inspector observed a deposit of silt on the south side of Applebutter Road across from the entrance to IESI. This deposit of silt should also be included in IESI clean-up plans. Lower Saucon Township Host Municipality Inspector, Chris Taylor of Hanover Engineering, conducted a follow-up inspection on June 16, 2014. Mr. Taylor was not present at the landfill during the time of this inspector's inspection. Mr. Taylor's comments regarding this incident are attached to this inspection report.

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 1<sup>st</sup> Class Mail Date 06/30/2014  
(Signature)

Inspector Walter F. Govern III Date 06/30/2014  
(Signature)

## Govern, Walter

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**From:** Leskosky, John  
**Sent:** Monday, June 16, 2014 7:45 AM  
**To:** Govern, Walter  
**Subject:** FW: 6/13/2014 mudslide at IESI Landfill and Applebutter Road  
**Attachments:** 2014 06-13 mud slide IESI landfill DSCN4075.JPG; 2014 06-13 mud slide IESI landfill DSCN4074.JPG; 2014 06-13 mud slide IESI landfill DSCN4073.JPG

Wally,

See below/attached. Will need some follow-up, but give me a call first.

John

**John Leskosky** | Environmental Group Manager  
Department of Environmental Protection  
2 Public Square | Wilkes Barre, PA 18701-1915  
Phone: 570.826.2366 | Fax: 570.826.5448  
[www.depweb.state.pa.us](http://www.depweb.state.pa.us)

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**From:** deLeon, Priscilla [<mailto:deleon.priscilla@gmail.com>]  
**Sent:** Saturday, June 14, 2014 11:37 AM  
**To:** [aschleyer@iesi.com](mailto:aschleyer@iesi.com)  
**Cc:** Leskosky, John; Fisher, Dean J; [deleon.priscilla@gmail.com](mailto:deleon.priscilla@gmail.com); [lmcnemarpe@verizon.net](mailto:lmcnemarpe@verizon.net); [jbirdsall@hanovereng.com](mailto:jbirdsall@hanovereng.com); 'Chris Taylor'; [dlouder2013@gmail.com](mailto:dlouder2013@gmail.com); [thehijazis@hotmail.com](mailto:thehijazis@hotmail.com); [manager@lowersaucontownship.org](mailto:manager@lowersaucontownship.org); [asstmgr@lowersaucontownship.org](mailto:asstmgr@lowersaucontownship.org); [rsichler@msn.com](mailto:rsichler@msn.com)  
**Subject:** 6/13/2014 mudslide at IESI Landfill and Applebutter Road

Hi Al,

I understand that there was a mudslide at the landfill on Friday afternoon. A resident called me to let me know around 4 pm. I did drive out there and saw workers cleaning up the area inside the landfill, on Applebutter road and the surrounding area with equipment. I also notice lots of trash, etc. mixed in the mud along the road and in a large section of the grassy area across the street from the entrance to landfill.

I was able to take a few photos but they are not the best. See attached.

What time did the slide occur? What section(s) of the landfill? Was it in the same area as in the past? What time was DEP notified?

Thanking you in advance,

*Pris deLeon*

Email: [deLeon.Priscilla@gmail.com](mailto:deLeon.Priscilla@gmail.com), Cell: 610-216-0566

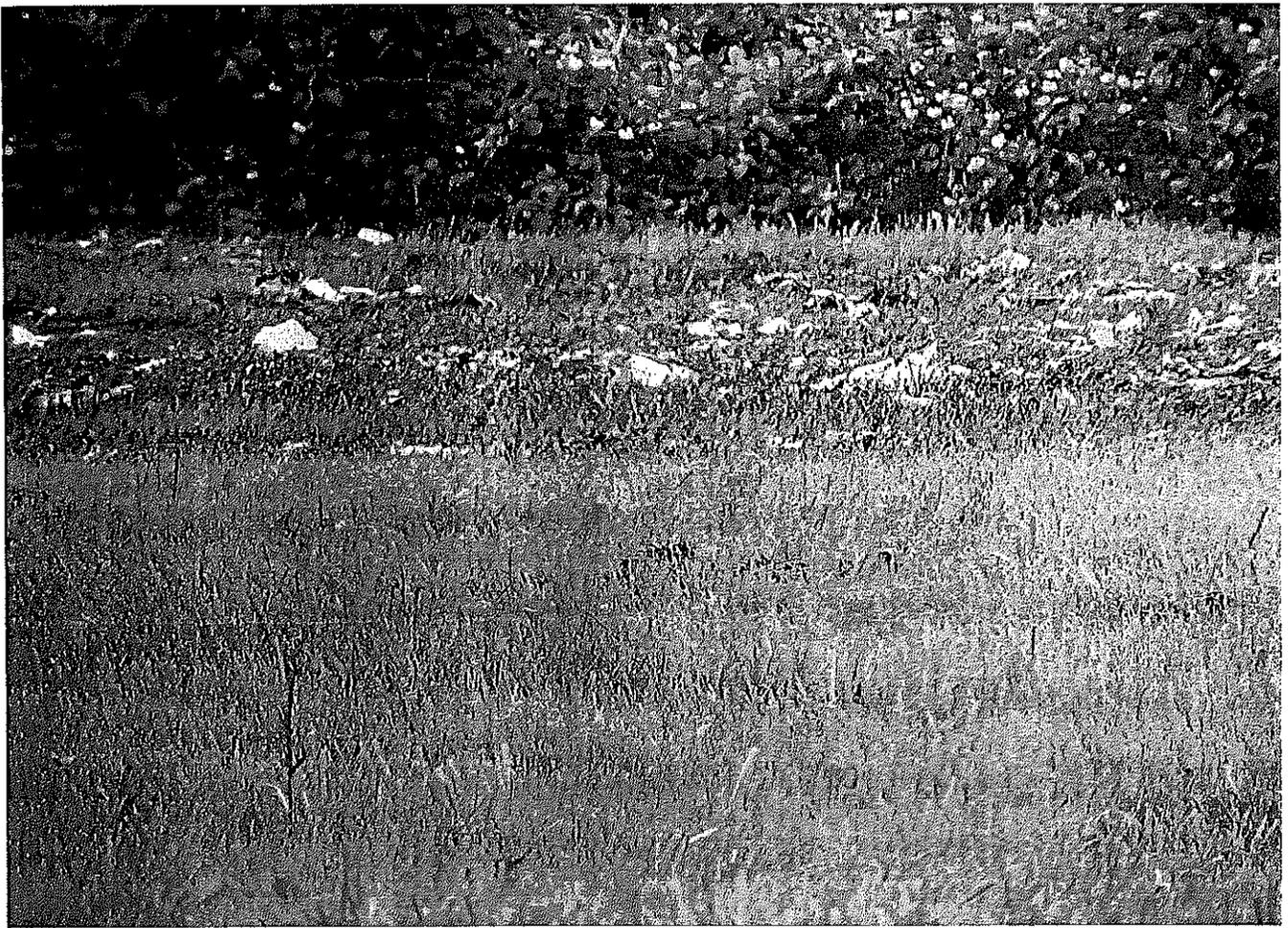
"Those who can, do. Those who can do more, volunteer." — Author Unknown

"It takes less time to do a thing right than to explain why you did it wrong." — Henry Wadsworth Longfellow

"When the people fear the government, there is tyranny. When the government fears the people, there is liberty" — Thomas Jefferson







**Govern, Walter**

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**From:** Allen Schleyer <aschleyer@iesi.com>  
**Sent:** Wednesday, June 18, 2014 2:12 PM  
**To:** Govern, Walter; Cahalan, Jack  
**Cc:** Chris Taylor; Leslie Huhn; Sam Donato  
**Subject:** Bethlehem Landfill 6-13-14 Incident Report  
**Attachments:** Bethlehem Landfill 6-13-14 Incident report.pdf; Bethlehem Rainfall data 6-13-14.pdf

Per your request, attached is a copy of the Bethlehem Landfill Incident Report from the June 13, 2014 storm event.

sincerely

**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](http://www.iesi.com)



**PA Bethlehem Landfill**  
2335 Applebutter Road  
Bethlehem, PA 18015-6004

## INCIDENT REPORT

**DATE:** 06/13/2014

**COMPANY:** IESI Bethlehem Landfill

**TIME:** 15:30 p.m. – 18:15 pm

**LOCATION OF INCIDENT:** Landfill Entrance & Applebutter Road

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**DESCRIPTION OF INCIDENT:** Storm event occurred in the morning approximately 04:30 to 08:30 am with 1.6" of rainfall. A second severe storm event occurred between 15:30 to 16:30 with an additional 1.07" of rainfall, mostly within a half hour timeframe 15:30 – 16:00. The second storm event resulted in the wooden walkway to pump station #1 (PS-1) (bridged over Channel A) to be washed down-channel by Storm water (SW) flow to the Basin 4 inlet pipe. This and floating debris partially obstructed the 3' diameter inlet pipe causing the SW to back up in the channel A and overflow. The overflow point was immediately above the landfill entrance by PS-1. SW, silt and floating debris washed down the access road clogging the SW inlet boxes and trough at the gate resulting in the remainder of the storm overflow exiting through the gate and crossing Applebutter Road onto the Calpine property across the street. Upon observing the overflow, Sam Donato (landfill manager) and I began alerting IESI personnel to redirect an excavator to the SW channel area by PS-1 and other clean up equipment to the landfill entrance. In addition, nearby contractors M. Walters and T. Walters were contacted to provide additional equipment and manpower. Applebutter Road was passable and cleaned up by approximately 16:45. The shoulders of the road and down gradient channels and lawn were then raked clean of debris. The overall cleanup was completed by 18:15.

**Additional information:** During the Applebutter Road cleanup M. Walters provided temporary emergency traffic control. A Lower Saucon Twp. Police officer arrived to observe the incident during the roadway cleanup. He spoke to M. Walters and then left the site with no indication there was a concern regarding traffic flow. I contacted the PADEP Bethlehem Office at approximately 16:05 and left voicemail to Mr. Dean Fisher and Ms. Sheena Ripple to report the incident. I then called the Northeast Regional PADEP emergency number in order to speak to a representative to report the incident.

**FOLLOW UP ACTION TAKEN:** Clean out SW channel and affected areas. Clean out storm water control devices, inlet boxes, trough at gate and connected piping. Redesign/evaluate different access to PS-1 to eliminate potential for floating/removable access structure.

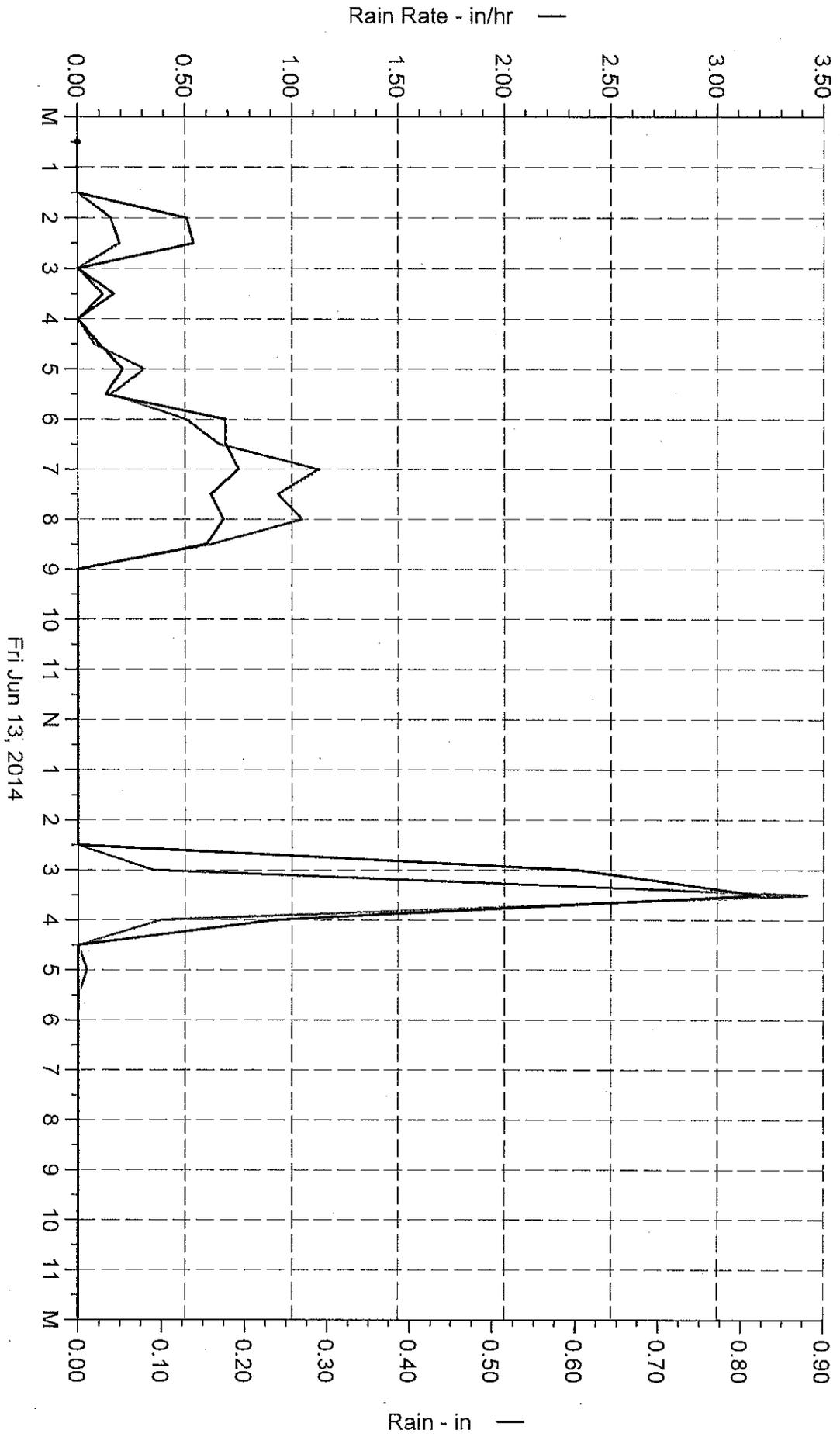
**COMMENTS:** The site was inspected on Monday June 16, 2014 by Chris Taylor, HMI and Walter Govern, PADEP regarding this incident.

**PERSON REPORTING:** Allen Schleyer

**TITLE:** Compliance Manager

Signature: Allen Schleyer

Beth



Rain

Rain Rate

Rain Rate - in/hr

Rain - in

Fri Jun 13, 2014

Beth 6/13/14

Date	Time	Temp Out	Hi Temp	Low Temp	Out Hum	Dew Pt.	Wind Speed	Wind Dir	Wind Run	Hi Speed	Hi Dir	Wind Chill	Heat Index	THW Index	Bar	Rain	Rain Rate	Heat D-D	Cool D-D
6/13/14	12:30a	67.3	67.3	67.3	97	66.4	2.0	SSW	1.00	7.0	WSW	67.3	69.1	69.1	29.935	0.00	0.00	0.000	0.048
6/13/14	1:00a	67.2	67.3	67.2	97	66.3	3.0	SSW	1.50	9.0	SW	67.2	68.9	68.9	29.921	0.00	0.00	0.000	0.046
6/13/14	1:30a	67.2	67.2	67.1	97	66.3	3.0	SW	1.50	9.0	SW	67.2	68.9	68.9	29.916	0.00	0.00	0.000	0.046
6/13/14	2:00a	67.0	67.2	67.0	97	66.1	3.0	SSW	1.50	9.0	SW	67.0	68.7	68.7	29.912	0.04	0.51	0.000	0.042
6/13/14	2:30a	66.9	67.0	66.9	97	66.0	2.0	SSW	1.00	8.0	SW	66.9	68.6	68.6	29.900	0.05	0.54	0.000	0.040
6/13/14	3:00a	67.0	67.0	66.9	97	66.1	3.0	SW	1.50	8.0	SW	67.0	68.7	68.7	29.896	0.00	0.00	0.000	0.042
6/13/14	3:30a	67.1	67.1	67.0	97	66.2	3.0	SW	1.50	8.0	WSW	67.1	68.8	68.8	29.882	0.03	0.17	0.000	0.044
6/13/14	4:00a	67.0	67.1	67.0	97	66.1	4.0	SW	2.00	9.0	SW	67.0	68.7	68.7	29.873	0.00	0.00	0.000	0.042
6/13/14	4:30a	67.0	67.0	67.0	96	65.8	3.0	SSW	1.50	9.0	SW	67.0	68.6	68.6	29.864	0.02	0.10	0.000	0.042
6/13/14	5:00a	66.9	67.0	66.9	96	65.7	3.0	SSW	1.50	8.0	S	67.0	68.6	68.6	29.855	0.08	0.21	0.000	0.042
6/13/14	5:30a	66.9	67.0	66.9	96	65.8	2.0	SSW	1.00	7.0	W	66.9	68.5	68.5	29.851	0.04	0.13	0.000	0.040
6/13/14	6:00a	67.0	67.0	66.9	96	65.8	3.0	SSW	1.50	10.0	SW	67.0	68.6	68.6	29.854	0.13	0.69	0.000	0.042
6/13/14	6:30a	67.1	67.1	67.0	97	66.2	1.0	SSW	0.50	6.0	SSW	67.1	68.8	68.8	29.856	0.17	0.69	0.000	0.044
6/13/14	7:00a	67.0	67.1	67.0	96	65.8	1.0	SSW	0.50	6.0	SSW	67.0	68.6	68.6	29.861	0.29	0.75	0.000	0.042
6/13/14	7:30a	66.9	67.0	66.9	97	66.0	1.0	SW	0.50	4.0	SSW	66.9	68.6	68.6	29.865	0.24	0.62	0.000	0.040
6/13/14	8:00a	67.4	67.4	66.9	97	66.5	1.0	SW	0.50	3.0	SW	67.4	69.2	69.2	29.867	0.27	0.68	0.000	0.050
6/13/14	8:30a	68.1	68.1	67.4	97	67.2	0.0	W	0.00	3.0	WNW	68.1	70.1	70.1	29.867	0.16	0.60	0.000	0.065
6/13/14	9:00a	69.2	69.2	68.1	97	68.3	0.0	WSW	0.00	3.0	W	69.2	71.8	71.8	29.870	0.00	0.00	0.000	0.087
6/13/14	9:30a	69.9	69.9	69.1	97	69.0	1.0	WNW	0.50	6.0	WSW	69.9	72.8	72.8	29.861	0.00	0.00	0.000	0.102
6/13/14	10:00a	70.7	70.7	69.8	95	69.2	3.0	WNW	1.50	8.0	WNW	70.7	73.3	73.3	29.855	0.00	0.00	0.000	0.119
6/13/14	10:30a	73.7	73.7	70.6	93	71.5	3.0	WNW	1.50	8.0	WNW	73.7	76.4	76.4	29.854	0.00	0.00	0.000	0.181
6/13/14	11:00a	74.4	74.4	73.6	88	70.6	1.0	NW	0.50	8.0	WNW	74.4	77.1	77.1	29.852	0.00	0.00	0.000	0.196
6/13/14	11:30a	75.1	75.1	74.3	86	70.6	1.0	NE	0.50	5.0	NE	75.1	78.2	78.2	29.849	0.00	0.00	0.000	0.210
6/13/14	12:00p	76.2	76.2	75.1	84	71.0	1.0	NE	0.50	6.0	NNE	76.2	79.4	79.4	29.842	0.00	0.00	0.000	0.233
6/13/14	12:30p	76.9	76.9	76.1	82	71.0	1.0	NE	0.50	5.0	NE	76.9	80.1	80.1	29.832	0.00	0.00	0.000	0.248
6/13/14	1:00p	79.3	79.3	76.9	77	71.5	2.0	WSW	1.00	7.0	W	79.3	82.8	82.8	29.815	0.00	0.00	0.000	0.298
6/13/14	1:30p	81.2	81.4	79.3	73	71.7	3.0	WNW	1.50	7.0	WNW	81.2	85.4	85.4	29.801	0.00	0.00	0.000	0.337
6/13/14	2:00p	80.7	81.4	80.4	73	71.2	2.0	WNW	1.00	7.0	WNW	80.7	84.5	84.5	29.791	0.00	0.00	0.000	0.327
6/13/14	2:30p	81.4	81.6	80.3	70	70.7	2.0	SW	1.00	6.0	SW	81.4	85.2	85.2	29.776	0.00	0.00	0.000	0.342
6/13/14	3:00p	78.9	78.9	78.9	80	72.2	2.0	SW	1.00	16.0	NNW	78.9	82.7	82.7	29.793	0.09	2.35	0.000	0.290
6/13/14	3:30p	66.7	78.9	66.7	93	64.6	7.0	NE	3.50	26.0	NNE	66.7	68.2	68.2	29.803	0.88	3.20	0.000	0.035
6/13/14	4:00p	66.8	67.0	66.8	94	65.0	2.0	NE	1.00	6.0	WNW	66.8	68.3	68.3	29.796	0.10	0.92	0.000	0.038
6/13/14	4:30p	67.9	67.9	66.8	95	66.4	2.0	NE	1.00	5.0	NE	67.9	69.8	69.8	29.786	0.00	0.00	0.000	0.060
6/13/14	5:00p	68.8	68.9	67.9	96	67.6	1.0	SSW	0.50	4.0	SSW	68.8	71.1	71.1	29.778	0.01	0.00	0.000	0.079
6/13/14	5:30p	68.9	69.1	68.8	95	67.4	1.0	SW	0.50	3.0	WNW	68.9	71.2	71.2	29.787	0.00	0.00	0.000	0.081
6/13/14	6:00p	69.8	70.4	68.9	94	68.0	1.0	SW	0.50	4.0	SSW	69.8	72.2	72.2	29.787	0.00	0.00	0.000	0.100
6/13/14	6:30p	70.3	70.3	69.6	93	68.2	1.0	NE	0.50	4.0	WNW	70.3	72.7	72.7	29.799	0.00	0.00	0.000	0.110
6/13/14	7:00p	70.7	70.7	70.3	93	68.6	1.0	NE	0.50	5.0	NNW	70.7	73.1	73.1	29.798	0.00	0.00	0.000	0.119
6/13/14	7:30p	70.3	70.7	70.3	93	68.2	1.0	SSW	0.50	4.0	SSW	70.3	72.7	72.7	29.814	0.00	0.00	0.000	0.110
6/13/14	8:00p	69.7	70.3	69.7	94	67.9	3.0	SW	1.50	7.0	SW	69.7	72.1	72.1	29.815	0.00	0.00	0.000	0.098
6/13/14	8:30p	69.2	69.7	69.2	94	67.4	1.0	SW	0.50	8.0	SW	69.2	71.5	71.5	29.821	0.00	0.00	0.000	0.087
6/13/14	9:00p	68.8	69.2	68.8	94	67.0	3.0	SW	1.50	7.0	SW	68.8	71.0	71.0	29.826	0.00	0.00	0.000	0.079
6/13/14	9:30p	68.5	68.8	68.5	94	66.7	3.0	SW	1.50	7.0	SW	68.5	70.6	70.6	29.831	0.00	0.00	0.000	0.073
6/13/14	10:00p	68.6	68.8	68.5	95	67.1	0.0	SSW	0.00	3.0	SSW	68.6	70.7	70.7	29.838	0.00	0.00	0.000	0.075
6/13/14	10:30p	68.4	68.8	68.4	92	66.0	2.0	NE	1.00	9.0	NE	68.4	70.3	70.3	29.844	0.00	0.00	0.000	0.071
6/13/14	11:00p	66.9	68.4	66.9	88	63.2	2.0	ENE	1.00	7.0	NE	66.9	68.3	68.3	29.859	0.00	0.00	0.000	0.040
6/13/14	11:30p	66.6	66.9	66.5	87	62.6	2.0	NE	1.00	5.0	NE	66.6	67.9	67.9	29.863	0.00	0.00	0.000	0.033
6/14/14	12:00a	66.4	66.7	66.4	89	63.1	1.0	NE	0.50	7.0	ENE	66.4	67.7	67.7	29.862	0.00	0.00	0.000	0.029

## Govern, Walter

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**From:** Chris Taylor <ctaylor@hanovereng.com>  
**Sent:** Wednesday, June 18, 2014 3:22 PM  
**To:** Jim Birdsall  
**Cc:** Govern, Walter; Jack Cahalan; Leslie Huhn  
**Subject:** Re: Bethlehem Landfill 6-13-14 Incident Report

To all:

The substance of Mr. Schleyer's report is consistent with my observations during my inspection on June 16. However, he has omitted two issues that I think are important and should be in the report:

1. The report should clarify why Channel A received that much of the stormwater flow. During my inspection, Mr. Schleyer stated that the work currently being conducted to construct the final cap on the next section of the south face involved a tie-in of the new cap with that of the adjacent section (standard and correct procedure). This entailed excavating to expose the edge of the last cap. This excavation ran up the south face and cut across the benches that are designed to carry stormwater flow to the gabion downchannel. Stormwater ran down this excavated cut instead of along the benches, feeding extra stormwater to Channel A that it would not otherwise receive. In my opinion, this was more a case of bad luck and bad timing than negligence, but it's still ultimately the landfill's responsibility to manage their stormwater properly.
2. The report should specify the source of the garbage that was contained in the outwash. During my inspection, Mr. Schleyer stated his belief that some of the garbage had been scoured out of the south face of the landfill by the water washing down the cut described above. He also stated his belief that some of the garbage was washed from the working face into Channel A.

Some of the "follow up actions" described in the report had already been taken as of my inspection on June 16. During tomorrow's regularly-scheduled inspection, I will confirm that the other items have been completed.

I will be in the office until 5:30 if anyone has any questions or needs further clarification. Thank you.

---

**From:** "Allen Schleyer" <aschleyer@iesi.com>  
**To:** "Walter Govern" <wgovern@pa.gov>, "Jack Cahalan" <manager@lowersaucontownship.org>  
**Cc:** "Chris Taylor" <ctaylor@hanovereng.com>, "Leslie Huhn" <asstmgr@lowersaucontownship.org>, "Sam Donato" <sjdonato@iesi.com>  
**Sent:** Wednesday, June 18, 2014 2:12:28 PM  
**Subject:** Bethlehem Landfill 6-13-14 Incident Report

Per your request, attached is a copy of the Bethlehem Landfill Incident Report from the June 13, 2014 storm event.

sincerely

**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](http://www.iesi.com)

**Case:** IESI Storm Water Incident  
**Location:** 2335 Applebutter Road  
**Municipality:** Lower Saucon Township  
**County:** Northampton  
**Date / Time:** 06/16/2014 / 1400  
**Photographer:** Walter F. Govern III



View of the western slope, no significant erosion channels observed.



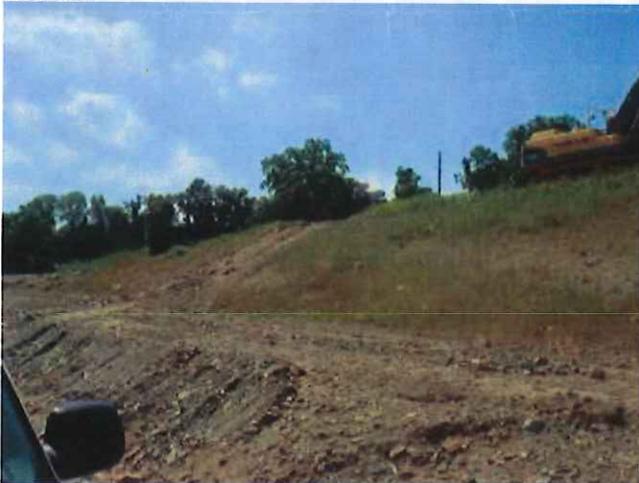
Close-up of the erosion channel from the previous photo.



View of the western slope, no significant erosion channels observed.



Sediment in the storm water (SW) channel heading east along the southern slope of the landfill. Looking west towards the erosion channel from the previous photos.



Erosion channel at the corner of the western and southern slopes of the landfill.



SW Channel looking east to Pumphouse 2 (pictured)



Silted over pipe in front of Pumphouse 2.



Photo of sediment in the SW channel, picture looking southeast.



Erosion Channel on the southern slope east of Pumphouse 2.



Following the SW channel again looking southeast to the eastern corner of the southern slope.



Close-up of erosion through the vegetation below the erosion channels pictured above.



Erosion at the tie-in of the new cap area on the southern slope.



Following the SW channel again looking southeast to the eastern corner of the southern slope.



Following SW channel past Pumphouse 1 towards the inlet pipe to basin 4.



Ersosion of the SW Channel at the corner mentioned above.



Close-up of inlet pipe to basin 4 from the SW channel side of the pipe.



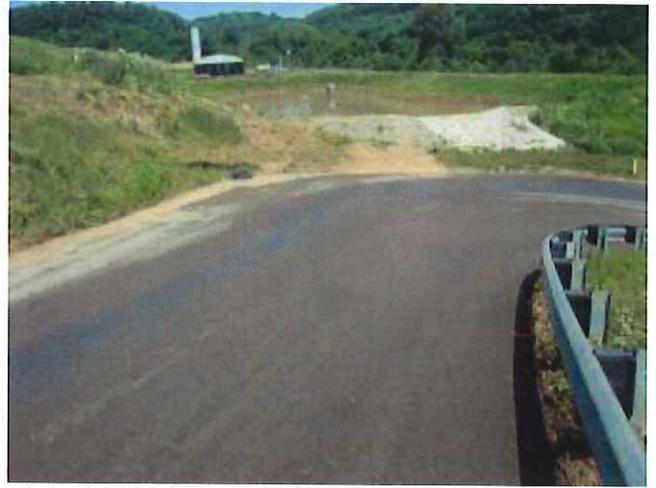
Following the SW channel looking east Pumphouse 1.



Floating walkway that was washed down the SW channel from Pumphouse 1, that caused the partial blockage of the inlet pipe to basin 4.



Photo of erosion, where water jumped the bank of the storm water channel and traveled towards the working face western access road.



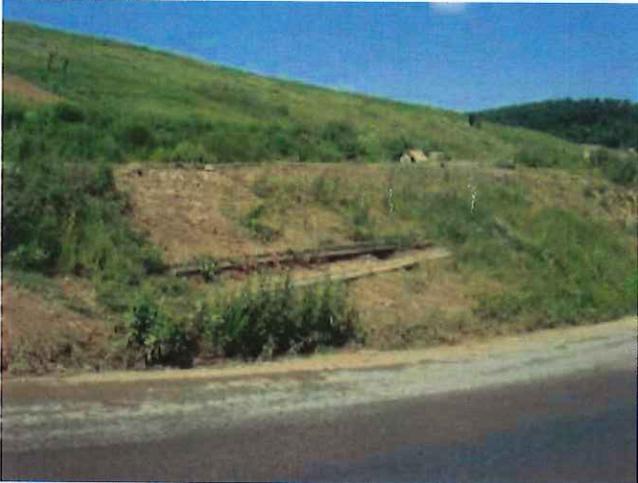
View of Basin 4 from the western access road. Photo shows the access road is clear of sediment and passable.



Sedimentation in the vegetation of the north bank to the western access road.



Access road heading south to the entrance to the landfill. Road is clear of sediment at the time of this inspection.



Sedimentation in the vegetation of the north bank to the western access road.



The entrance to IESI from Applebutter Road.



The entrance to IESI from Applebutter Road looking north.



Photo 2 of 3 showing sediment along the southern side of Applebutter Road across from the IESI entrance.



Entrance to IESI looking east along Applebutter Road.



Photo 3 of 3 showing sediment along the southern side of Applebutter Road across from the IESI entrance.



Photo 1 of 3 showing sediment that should be cleaned-up along the southern side of Applebutter Road across from the IESI entrance.



Entrance to IESI looking west along Applebutter Road.

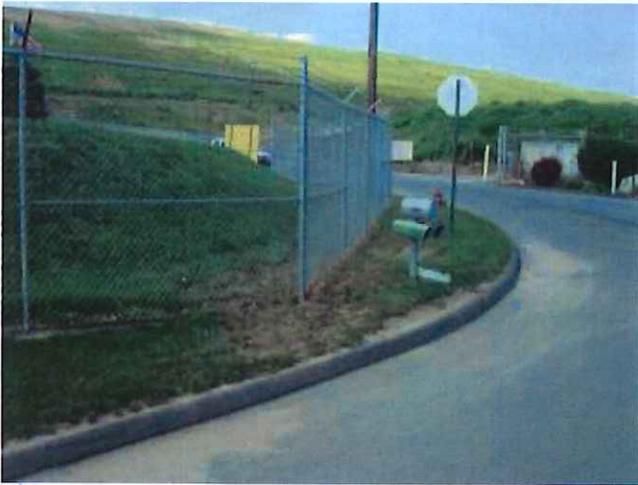


Photo along the perimeter fence at the entrance to the landfill showing path of storm water.



Photo showing the path of storm water onto the neighboring property owned by Calpine.



Photo showing sediment along the southern side of Applebutter Road across from the IESI entrance looking east



Storm water pipe traveling under Applebutter Road. Photo looking west.



Sedimentation on the southern side of Applebutter road looking west.



Storm water channel from the pipe from the previous photo.



Photo 1 of 2 of area where litter was observed off-site by Ms. DeLeon. Litter is confirmed to be collected as of the time of this inspection.



Photo 2 of 2 of area where litter was observed off-site by Ms. DeLeon. Litter is confirmed to be collected as of the time of this inspection.



End of visible area of the path of storm water from the incident that occurred at IESI.