18459

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III – 6th & Walnut Sts.
Philadelphia, Pa. 19106

SUBJECT: RCRA Inspection - Boyertown Sanitary Disposal Co., Inc. **DATE:** 4/5/83
PAD 048603005

FROM: Gregory Koltonuk gk
Environmental Scientist (3AW22)

TO: File

THRU: Walter Lee WL
Chief, Waste Enforcement Section (3AW22)

BASED UPON A REVIEW OF THE RCRA INSPECTION REPORT FOR THE FACILITY REFERENCED ABOVE, I HAVE DETERMINED THAT NO FUTHER ACTION IS REQUIRED AT THIS TIME.

OC 2-25-83

ARDOUS WASTE INSPECTION REPOR.
TSD Facilities - Part A

Date of inspection 2/18/83 Time start 800 Time finish

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL CO., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title ~~OWNER~~ PRES.

ling address P.O. BOX 360, R.D. 1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed MR. MICHAEL MILLER

Title VICE-PRES.

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA.

Area code and phone no. (215) 367-7524

1. Site characterization:

   a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biological

   b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste piles

   c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal treatment

   d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
   LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

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Div. of Hazardous Waste

LEACHATE GOES TO A POTW.

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
100550	2/18/83	

NAME OF DISPOSAL FACILITY	FACILITY ADDRESS
Boyertown Waste Disposal Co. Inc.	300 Mill Rd

MUNICIPALITY	COUNTY
Douglass Twp	Montgomery

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER)
Mr. Michael Miller V Pres

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
	0-5	5

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
26	75.21(m)(3)	Suitable barrier blocks access to site when attendant is not present.	X		
27	75.21(s)	25' setback line buffer zone present	X		
28	75.21(l)(1), (2), (3)	Adequate fire equipment or procedure for minimizing fire hazard	X		
29	75.21(q)	Approved operational safety program being utilized	X		
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly	X		
31	75.21(m)(2)	Hours of operation prominently posted	X		
32	75.21(k)	Telephone or other communications available	X		
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X		
34	75.21(r)(1), (2), (3), (4); 75.24(c)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X		
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift	X		
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X		
37	75.24(c)(2)(ii), (iii), & 75.37(d)(1), (2)	Final slopes within 1 to 15 percent or as approved by Department	X		
38	75.24(c)(2)(xi) & 75.38 II(8)(viii)	Adequate source and type of cover material being utilized	X		
39	75.24(c)(2)(v) & 75.38 II(8)(ii)(iv)(vi)	Site access roads are negotiable by loaded collection vehicles	X		
40	75.24(c)(2)(ii)(iii), 75.37(d)(1)(2) & 75.38 II(8)(viii)	Slopes, benching and terracing in accord with regulations	X		
41	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(ii)	Fire breaks	X		

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES, DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
42	75.24(c)(2)(xxiv), 75.37(k) & 75.38 II(6)	Gas management	X		
43	75.24(b)(4)(i), 75.37(k)(6), & 75.38 II(8)(i)	Ground water monitoring requirements being met	X		
44	75.24(c)(2)(xi), 75.37(k) & 75.38 II(8)(ii)	Approved cover material being utilized	X		
45	75.24(c)(2)(x)	Approved subbase being utilized	X		
	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X		
	75.25(h)	Lined site, under drains operable	X		
48	75.25(i)	Are liners in place and covered with protective earth	X		
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained	X		
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly			
51	75.26(o), 75.37(g), 75.38 II(8)(viii)	Erosion controlled on site, diversion ditches as required	X		
52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X		
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X		
54	75.26(f)	Regulation ban on open burning adhered to	X		
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X		
	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day		X	
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X		
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X		
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X		
60	75.26(i)	Working face area confined to size suitable for daily cover/compaction	X		
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans	X		
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X		
63	75.26(j), (k)	Blowing litter controlled	X		
64	75.26(c)	Provision for standby equipment available when needed	X		
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X	
66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

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PAGE 4 CENTRAL OFFICE

ER SWM-1B,2B,3B

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

DISPOSAL FACILITY Bowerston Landfill

DATE 2/18/83

Time 8:00 PM
Weather clear and
snow on ground from
last week

Annual collateral bond payment is
due on or before March 12, 1983.

(5b) Behind on daily covers. There are operational problems
during cold weather conditions. The
working face must be adequately covered at end of each
working day - advised of this from study.

Leachate pond is full
Sludge to trash ratio appears to be running critical, due
to cause operational problems if increased any more

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Department of Environmental Resources Representative

Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

15460

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III – 6th & Walnut Sts.
Philadelphia, Pa. 19106

SUBJECT: RCRA Inspection- Boyertown Sanitary Disposal Co., Inc.
PAD 048603005

DATE: 4/5/83

FROM: Gregory Koltonuk GK
Environmental Scientist (3AW22)

TO: File

THRU: Walter Lee
Chief, Waste Enforcement Section (3AW22)

BASED UPON A REVIEW OF THE RCRA INSPECTION REPORT FOR THE FACILITY REFERENCED ABOVE, I HAVE DETERMINED THAT NO FUTHER ACTION IS REQUIRED AT THIS TIME.

HAZARDOUS WASTE INSPECTION REPORT
TSD Facilities - Part A

Cl 2-16-83

Date of inspection 2/10/83 Time start 11 45 Time finish

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL Co., INC

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title ~~Owner~~ PRES.

Mailing address P.O. BOX 360, R.D.1, GLENMORE, PA.

a code and phone no. (215) 458-5274

Name of person interviewed MR. MICHAEL MILLER

Title VICE-PRES.

Mailing address (if different from above) 300 MERKEL RD GILBERTSVILLE, PA

Area code and phone no. (215) 367-7524

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Div. of Hazardous Waste

1. Site characterization:

a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biologic

b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste piles

c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal tre men

d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

LEACHATE GOES TO A POTW.

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
100550	2/10/83	

NAME OF DISPOSAL FACILITY	FACILITY ADDRESS
Boyertown Sanitation, Donald Co. Inc.	300 Mickel Rd

MUNICIPALITY	COUNTY
Douglass Twp	Montgomery

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER)
Mr. Melvin Miller V. Pres.

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
	yes	5½

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
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29	75.21(q)	Approved operational safety program being utilized	X		
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly	X		
31	75.21(m)(2)	Hours of operation prominently posted	X		
32	75.21(k)	Telephone or other communications available	X		
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X		
34	75.21(r)(1), (2), (3), (4), 75.24(e)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X		
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift	X		
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X		
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Div. of Hazardous Waste

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES, DEMOLITION SITES, FLYASH SITES, SLAG SITES
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	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X		
47	75.25(h)	Lined site, under drains operable	X		
48	75.25(i)	Are liners in place and covered with protective earth	X		
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained			
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly			
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52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X		
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X		
54	75.26(f)	Regulation ban on open burning adhered to	X		
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X		
	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day	X		
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X		
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X		
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X		
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66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

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ER -SWM-1B,2B,3B

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

DISPOSAL FACILITY B. [illegible] Landfill

DATE 1/10/83

Time 11:45 am
Weather sunny cold
Ground

Berks Mont Sewage Treatment Plant pumped up the lines due from the landfill monday 1/17/83. The landfill has capacity to store sludge in the lagoons and the landfill has received a contract with Pottstown Waste Treatment Plant to haul the sludge.

The lack of daily cover, stakes in dirt spot (illegible) - areas are adequately covered and working face is very small.

Chem Waste again brought in 3 trucks (illegible) and time today the sludge was spread. The still blows the problem of moving the sludge enough to minimize odor problems. Time needs to cross the sludge with chemical volume of trash.

Dirt roads are [illegible]

Collected disposal payment for 19[illegible] in the amount of $[illegible]

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Div. of Hazardous Waste

[illegible] 1/10/83
Department of Environmental Resources Representative

Skip Kunel
Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

18461

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III – 6th & Walnut Sts.
Philadelphia, Pa. 19106

SUBJECT: RCRA Inspection - Boyertown Sanitary Disposal Co., Inc.
PAD 048603005

DATE: 4/3/83

FROM: Gregory Koltonuk GK
Environmental Scientist (3AW22)

TO: File

THRU: Walter Lee WLS
Chief, Waste Enforcement Section (3AW22)

BASED UPON A REVIEW OF THE RCRA INSPECTION REPORT FOR THE FACILITY REFERENCED ABOVE, I HAVE DETERMINED THAT NO FUTHER ACTION IS REQUIRED AT THIS TIME.

HAZARDOUS WASTE INSPECTION REPORT
TSD Facilities - Part A

Cl 2.8.83

Date of inspection 2/4/83 Time start 3:55PM Time finish 5:00PM

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL CO., INC

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title ~~Owner~~ PRES.

Mailing address P.O. BOX 360, R.D.1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed MR. MICHAEL MILLER

Title VICE-PRES.

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA

Area code and phone no. (215) 367-7524

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2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number: LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

LEACHATE GOES TO A POTW.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

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SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
1001510	2/4/83	

NAME OF DISPOSAL FACILITY	FACILITY ADDRESS
Boyertown Sanitary Disposal Co. Inc.	300 Mushet Rd.

MUNICIPALITY	COUNTY
Douglass Twp.	Montgomery

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER)
Mr. Michael Miller V.P.

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
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Div. of Hazardous Waste

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
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60	75.26(i)	Working face area confined to size suitable for daily cover/compaction		X	
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans	X		
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X		
63	75.26(j), (k)	Blowing litter controlled	X		
64	75.26(c)	Provision for standby equipment available when needed	X		
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X	
66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

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Div. of Hazardous Waste

ER -SWM-1B,2B,3B

Time 4:10 PM
Weather Cloudy

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

DISPOSAL FACILITY Re Town Landfill

DATE 2/4/83

(5) (6) Daily cover is inadequate. Many areas of refuse [illegible] not covered. The working area in new cell has not been [illegible] Also, demolition rubble is being disposed of in the landfill. The problem is caused by demolition (Editors) debris (rubble) being brought to the site. The landfill has been incorporating much debris at one time (apparently stockpiling it) and [illegible] [illegible] This should not happen on a small [illegible] building site. It should be removed the following day. Adam [illegible] be notified of violations and [illegible] violations.

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Div. of Hazardous Waste

Thomas Allen 2/4/83

Department of Environmental Resources Representative | Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

18462

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III – 6th & Walnut Sts.
Philadelphia, Pa. 19106

SUBJECT: RCRA Inspection-Boyertown Sanitary Disposal Co., Inc.
PAD0048603005

DATE:

FROM: Gregory Koltonuk GK
Environmental Scientist (3AW22)

TO: File

THRU: Walter Lee
Chief, Waste Enforcement Section (3AW22)

THE STATE IS TAKING ACTION TO RESOLVE THE VIOLATIONS IN THIS INSPECTION REPORT.

WE WILL MONITOR THE STATE ACTIVITY REGARDING RESOLUTION OF THESE VIOLATIONS.

HAZARDOUS WASTE INSPECTION REPORT
TSD Facilities - Part A

Cl 1-19-83 (y3)

Date of inspection 1/7/82 Time start 10 AM Time finish

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL Co., I

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title ~~Owner~~ PRES.

Mailing address P.O. BOX 360, R.D.1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed MR. MICHAEL MILLER

Title VICE-PRES.

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE,

Area code and phone no. (215) 367-7524

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Div. of Hazardous Waste

1. Site characterization:

   a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biolog

   b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste pil

   c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal t

   d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
   LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

LEACHATE GOES TO A POTW.

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16-24)
100550	1/7/82	

NAME OF DISPOSAL FACILITY	FACILITY ADDRESS
Morrison Sanitary Disposal Co. Inc	3070 M[illegible] 186

MUNICIPALITY	COUNTY
Douglas Twp	Montgomery

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER)
Mr. Wolson Estate Fitz

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
	Yes	5/2

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2
26	75.21(m)(3)	Suitable barrier blocks access to site when attendant is not present.	X	
27	75.21(s)	25' setback line buffer zone present	X	
28	75.21(l)(1), (2), (3)	Adequate fire equipment or procedure for minimizing fire hazard	X	
29	75.21(q)	Approved operational safety program being utilized	X	
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly		
31	75.21(m)(2)	Hours of operation prominently posted	X	
32	75.21(k)	Telephone or other communications available	X	
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X	
34	75.21(r)(1), (2), (3), (4), 75.24(e)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X	
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift	X	
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X	
37	75.24(c)(2)(ii), (iii), & 75.37(d)(1), (2)	Final slopes within 1 to 15 percent or as approved by Department		X
38	75.24(c)(2)(xi) & 75.38 II(8)(viii)	Adequate source and type of cover material being utilized	X	
39	75.24(c)(2)(v) & 75.38 II(8)(ii)(iv)(vi)	Site access roads are negotiable by loaded collection vehicles	X	
40	75.24(c)(2)(ii)(iii), 75.37(d)(1)(2) & 75.38 II(8)(viii)	Slopes, benching and terracing in accord with regulations		X
41	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(ii)	Fire breaks	X	

RECEIVED JAN 17 1983 DIV. OF [illegible] WASTE

ER-SWM-1A:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

1 — Compliance, 2 — Non-Compliance, 3 — Not applicable

	CHAPTER CITATION		1	2
42	75.24(c)(2)(xxiv), 75.37(k) & 75.38 II(6)	Gas management	X	
43	75.24(b)(4)(i), 75.37(k)(6), & 75.38 II(8)(i)	Ground water monitoring requirements being met	X	
44	75.24(c)(2)(xi), 75.37(k) & 75.38 II(8)(ii)	Approved cover material being utilized	X	
45	75.24(c)(2)(x)	Approved subbase being utilized	X	
46	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X	
	75.25(h)	Lined site, under drains operable	X	
48	75.25(i)	Are liners in place and covered with protective earth	X	
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained	X	
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly	X	
51	75.26(o), 75.37(g), 75.38 II(8)(viii)	Erosion controlled on site, diversion ditches as required	X	
52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X	
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X	
54	75.26(f)	Regulation ban on open burning adhered to	X	
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X	
	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day		
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X	
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X	
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X	
60	75.26(i)	Working face area confined to size suitable for daily cover/compaction	X	
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans	X	
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X	
63	75.26(j), (k)	Blowing litter controlled	X	
64	75.26(c)	Provision for standby equipment available when needed	X	
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X
66	Chapter 101(9)(e)(2)	Is bonding status correct	X	

JAN 17 1983

ER -SWM-1B,2B,3B

Time 10:00 AM

Weather - overcast cold.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

DISPOSAL FACILITY Boyertown Landfill

DATE 1/7/82

Leachate line from last pad has been hooked to the new pad lines. The valve is still in place. The leachate is being pumped out from the downgradient end of the new pad where another valve has been placed. All the leachate lines are finished except for an interface area with the old landfill. An extended PVC still needs to be laid and to PVC lines and tarred to asphalt lines in the area. Trash can be placed on the finished area. The last pad remained and the leachate (from last pad remained and the leachate (which was still running down) is [illegible]

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JAN 17 1983
DIV. OF HAZARDOUS WASTE

Thomas Weber 1/7/82

Department of Environmental Resources Representative

Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

AZARDOUS WASTE INSPECTION REP
TSD Facilities - Part A

RECEIVED
NOV 13 1981
Div. of Hazardous Waste

18464

Date of inspection 11/6/81 Time start 7:15 AM Time finish 8:00

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL CO., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. BOX 360, R.D.1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed Mr. Michael Miller

Title Manager

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA

Area code and phone no. (215) 367-7524

1. Site characterization:

a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biologica

b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste piles

c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal treatment

d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

Non-Compliance: 9 ~
Still some violations
some important

1- NON-COMPLIANCE, 2- COMPLIANCE, 3- NOT APPLICABLE, 4- NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION 75.265
X			Part A permit application submitted	(a) (2), (z
X			Identification number	(b)
X			Wastes accepted at facility transported by haulers licensed to transport hazardous waste by the Department	(b) (1)
X			Waste streams not covered by permit approved by the Department before acceptance	(c)
X			Chemical and physical analyses repeated as required	(c) (1)
	X		All waste shipments inspected and sampled	(c) (2)
			Waste analysis plan on-site	(c) (3)
X			24 hr. surveillance at active portion	(d) (2)
X			Artificial barrier at active portion	(d) (2)
	X		Proper signs posted and legible at a distance of at least 25 ft.	(d) (3)
			Inspection schedule on-site	(e) (2)
			Maintenance schedule on-site for equipment or structures which reveal deterioration or malfunction	(e) (4)
X			Immediate remedial action taken where a hazard is imminent or has already occurred	(e) (4)
			On the job or classroom personnel training program	(f)
			Records retained for each employee at facility of training, job title, and job description	(f) (6)
X			Ignitable or reactive wastes separated from source of ignition or reaction	(g) (1)
	X		No smoking signs displayed where there are hazards from ignitable or reactive wastes	(g) (1)
X			Treatment, storage, disposal of ignitable or reactive wastes or mixing of incompatible wastes or materials conducted according to requirements	(g) (2)
	X		Facility equipped with internal alarm system capable of providing immediate emergency instruction to personnel	(h) (2)
X			Facility equipped with a device for summoning outside emergency assistance	(h) (2)
X			Facility equipped with fire control, spill control, and decontamination equipment	(h) (2)
X			Facility equipped with water at adequate volume and pressure to supply fire control equipment	(h) (2)
X			Facility communications or alarm systems, fire control, spill control, and decontamination equipment tested and maintained.	(h) (3)
	X		Adequate aisle space maintained to allow unobstructed movement of personnel and equipment during emergencies	(h) (6)
			Contingency plan on-site and implemented	(i) (1)
			Contingency plan describes action taken by personnel in the event of an emergency	(i) (3)

RECEIVED NOV 13 1981 Div. of Hazardous Waste

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION 75.265
			Contingency plan contains an up-to-date list of names, addresses and phone numbers of all persons qualified to act as emergency coordinator.	(i) (6)
			Contingency plan contains list of emergency equipment including location, physical description and capabilities of each item	(i) (7)
			Contingency plan contains an evacuation plan if there is a possibility that evacuation could be necessary	(i) (8)
			One employee designated as the primary emergency coordinator either on the premises or on call.	(i) (11)
X			Facility accepting only PA manifests	(j)
X			Manifests properly completed and routed within time limits (24 hrs.)	(j) (2) (
X			Manifest discrepancies resolved or reported within time limits	(j) (10)
			Written operating record maintained on the premises	(k)
			Written operating record contains description and quantity of wastes and method of treatment, storage or disposal	(k) (2) (
			Written operating record contains location and quantity of each hazardous waste	(k) (2) (
			Written operating record contains results of waste analyses and treatability tests	(k) (2) (
			Written operating record contains reports and details of all incidents	(k) (2) (
			Written operating record contains records and results of all inspections	(k) (2) (
			Written operating record contains required monitoring, testing, and analytical data	(k) (2) (
			Written operating record contains closure and post-closure cost estimates	(k) (2) (
X			All records retained on premises and available for inspection	(l)
X			Quarterly reports submitted to the Department	(m)
X			Emissions, discharges, fires, explosions, and groundwater contamination reported as required	(m) (2)
X			Groundwater monitoring wells located at approved sites	(n) (2)
X			Adequate protection of groundwater monitoring wells	(n) (7)
			Groundwater sampling and analysis plan on the premises	(n) (8)
			Groundwater quality assessment and abatement outline on the premises	(n) (14
			Closure plan on the premises and up-to-date	(o) (2)
			Post-closure plan on the premises and up-to-date	(o) (10
			Annual closure cost estimate on the premises and up-to-date	(p) (2)
			Annual post-closure cost estimate on the premises and up-to-date	(p) (5)

RECEIVED NOV 13 1981 Div. of Hazardous Waste

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 1	2	3	4	REQUIREMENT	CHAPTER CITATION
X				Run-on diverted away from the facility	(v) (2)
	X			Run-off collected from the active portions	(v) (3)
	X			Run-off collected from the active portions and managed as a hazardous waste if it is a hazardous waste.	(v) (3)
	X			Facility is managed to prevent wind dispersal of hazardous waste.	(v) (5)
		X		The exact location and dimension, including depth of each cell with respect to permanently surveyed benchmarks kept on a map in the operating record	(v) (6)
		X		The contents of each cell and the approximate location of each hazardous waste type within each cell kept in the operating record.	(v) (6)
X				Closure and post-closure requirements are complied with.	(v) (7) (10
		X		Ignitable and reactive wastes disposed of with Department approval.	(v) (11
	X			Precautions taken for the disposal of incompatible wastes and materials	(v) (12
	X			Hazardous wastes disposed contains greater than 20% solids content by dry weight and are non-flowable and do not contain free liquid.	(v) (13
		X		Written approval from the Department to dispose of hazardous wastes containing less than 20% solids content by dry weight and are flowable until November 18, 1981	(v) (13
	X			Hazardous waste co-disposed with municipal waste with Department approval	(v) (1
	X			Empty containers crushed flat, shredded, or similarly reduced in volume before disposal	(v) (1

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Div. of Hazardous Waste

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 1	2	3	4	REQUIREMENT	CHAPTER CITATION
	X			Surface impoundment managed to maintain at least 60 cm (2 ft) of freeboard and to prevent overtopping of the dike by overfilling, wave action, or a storm.	(s)(2)
	X			Protective cover on earthen dikes, such as suitable vegetation, rock rip-rap, or non-erodible material to minimize wind and water erosion.	(s)(3)
	X			Waste analyses and/or trial tests conducted on hazardous wastes substantially different from wastes previously treated or stored; or chemically treat hazardous waste with a substantially different process than any previously used in that tank.	(s)(4)
		X		Precautions taken for surface impoundments holding ignitable, reactive, or incompatible wastes.	(s)(5)
X				Freeboard level inspected once each operating day.	(s)(6)(i)
X				Surface impoundment, including dikes and vegetation surrounding the dike, inspected once a week.	(s)(6)(ii)
X				Closure and post closure requirements are complied with.	(s)(7)(8)(9)
		X		Placement of ignitable or reactive waste only with Department's approval.	(s)(10)
		X		Precautions taken for handling ignitable, reactive, or incompatible material	(s)(11)

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Div. of Hazardous Waste

Part C - Comments

of inspection 11/6/81 Identification number PAD048603005

ny, Installation name BOYERTOWN SANITARY Disposal Co, Inc.

y Montgomery Municipality Douglass Twp.

Sheets used: Cover, General p1 + p2, Landfill, Surface impound and regular sanitary landfill report

Contingency plan, Closure + post closure criteria, Waste Analysis plan and groundwater monitoring plan are being worked on by the consultant (AGES) - A schedule for completion of these has been submitted to the Dept. Consultants schedule states that inspection schedule & maintainance schedule will be implemented by Dec. 31, 1981.

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Div. of Hazardous Waste

: inspection report is official notification that a representative of the Department of ironmental Resources, Bureau of Solid Waste Management, inspected the above installation findings of this inspection are shown in this report. Any violations which were uncove ing the inspection are indicated. Violations may also be discovered upon examination of ults of laboratory analyses and review of Department records. Notification will be fort ing, confirming any violations indicated herein and listing any additional violations.

son Interviewed (signature) Michael P Miller Date 11/6/81

pector (signature) Thomas Shelar Date 11/6/81

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANI
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
100550	11/6/81	

NAME OF DISPOSAL FACILITY: BOYERTOWN SANITARY DISPOSAL CO INC.
FACILITY ADDRESS: 300 MERKEL RD

MUNICIPALITY: DOUGLASS TWP.
COUNTY: MONTGOMERY

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER)
MR. WARREN FRAME 300 MERKEL RD.

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
		5½

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
26	75.21(m)(3)	Suitable barrier blocks access to site when attendant is not present.	X		
27	75.21(s)	25' setback line buffer zone present	X		
28	75.21(l)(1), (2), (3)	Adequate fire equipment or procedure for minimizing fire hazard	X		
29	75.21(q)	Approved operational safety program being utilized	X		
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly	X		
31	75.21(m)(2)	Hours of operation prominently posted	X		
32	75.21(k)	Telephone or other communications available	X		
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X		
34	75.21(r)(1), (2), (3), (4), 75.24(c)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X		
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift	X		
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X		
37	75.24(c)(2)(ii), (iii), & 75.37(d)(1), (2)	Final slopes within 1 to 15 percent or as approved by Department		X	
38	75.24(c)(2)(xi) & 75.38 II(8)(viii)	Adequate source and type of cover material being utilized	X		
39	75.24(c)(2)(v) & 75.38 II(8)(ii)(iv)(vi)	Site access roads are negotiable by loaded collection vehicles	X		
40	75.24(c)(2)(ii)(iii), 75.37(d)(1)(2) & 75.38 II(8)(viii)	Slopes, benching and terracing in accord with regulations		X	
41	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(ii)	Fire breaks	X		

RECEIVED NOV 13 1981 Div. of Hazardous Waste

ER-SWM-1A:5/79

OMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

RECEIVED
NOV 13 1981
Div. of Hazardous Waste

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	
42	75.24(c)(2)(xxiv), 75.37(k) & 75.38 II(6)	Gas management	X		
43	75.24(b)(4)(i), 75.37(k)(6), & 75.38 II(8)(i)	Ground water monitoring requirements being met		X	
44	75.24(c)(2)(xi), 75.37(k) & 75.38 II(8)(ii)	Approved cover material being utilized	X		
45	75.24(c)(2)(x)	Approved subbase being utilized	X		
	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X		
..	75.25(h)	Lined site, under drains operable	X		
48	75.25(i)	Are liners in place and covered with protective earth	X		
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained	X		
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly not checked			
51	75.26(o), 75.37(g), 75.38 II(8)(viii)	Erosion controlled on site, diversion ditches as required	X		
52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X		
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X		
54	75.26(f)	Regulation ban on open burning adhered to	X		
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X		
	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day		X	
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X		
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X		
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X		
60	75.26(i)	Working face area confined to size suitable for daily cover/compaction	X		
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans		X	
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X		
63	75.26(j), (k)	Blowing litter controlled	X		
64	75.26(c)	Provision for standby equipment available when needed	X		
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X	
66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

ER -SWM-1B,2B,3B

Time: 7:15

Weather: Clear - Rained night before

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

RECEIVED
NOV 13 1981
Div. of Hazardous Waste

DISPOSAL FACILITY Boyertown Landfill

DATE 11/6/81

(37) + (40) + (61) The slope on the northwest side of the landfill is too steep ~ 60%. This slope is on the ~~perimeter~~ end of the permitted area according to the presently approved plans. The slope along this side should be reworked and stabilized according to this Departments regulations. Please submit to this Department a formal written response as to how and when this violation will be abated.

(43) A monitoring well is still needed on the southwest side of landfill. The installation of this well has been agreed upon by this Dept. + AGES. Construction would be done this month to meet the Hazardous Waste Monitoring Criteria.

- Protective covering still being placed on liner - full description of liner installation will be in single report. Landfilling is being done on part of the new pad that has been completed.

(56) Daily cover on yesterdays working face + adjacent areas is better but still inadequate. (65) Grass is coming up on recently seeded areas.

Thomas Rehan 11/6/81

Department of Environmental Resources Representative

Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

HW 5 18465

RECEIVED SEP 1 1981

HAZARDOUS WASTE INSPECTION REPORT
Transporters - Part A

Date of inspection 8/26/81 Time start 8:00 Time finish 11:30

Name of inspector THOMAS SHEEHAN

Company name BOYERTOWN SANITARY DISPOSAL, CO., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. BOX 360, R.D. 1, GLENMORE, PA

Area code and phone no. (215) 458-5274

Name of person interviewed Mr. Michael Miller

Title Manager

Mailing address (if different from above) 300 MERKEL RD., GILBERTSVILLE, P

Area code and phone no. (215) 367-7524

1. a. PA hazardous waste transporter (HWT) license number _____

   b. Expiration date _____

2. Hazardous waste handling: ☐ N/A

   a. ☐ Blending, ☐ mixing

   b. ☐ Storage, ☐ treatment, ☒ disposal

   c. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

3. Does the transporter generate hazardous wastes? ☐ Yes ☒ No

4. Types of hazardous waste produced by Hazardous Waste Number:

5. Are hazardous wastes transported into the Commonwealth from abroad? ☐ Yes ☒ No

Inadequate copy of insp. Rep.
Contingency agreement w/ PaDOT

HAZARDOUS WASTE INSPECTION REPORT
Transporters - Part B

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 3	4	REQUIREMENT	CHAPTER CITATION 75.263
		Identification number	(b)
		Company licensed by PA DER	(c)
X		Copy of license kept on vehicles transporting hazardous wastes	(c) (8) (i
		Licensee transporting only wastes conditioned on the license	(c) (8) (i
		Manifest accompanies all shipments	(d)
		Required number of copies of the manifest accompanies shipment	(d) (9) (i
		Shipments comply with U.S. and PA DOT requirements	(d) (9) (i
		Entire quantity as stated on the manifest delivered	(d) (9) (i
		Undeliverable shipment procedures followed	(d) (10)
		Normal in-transit storage of waste (only if specified on the manifest)	(e) (2)
		Records retained at designated location	(f)
		Contingency plan approved and implemented	(g) (6)
		Appropriate and adequate safety equipment carried on transport vehicle	(h) (2)
		Equipment decontamination procedures followed	(h) (3)
		Contaminated washwater, waste solutions, residues disposed of in accordance with regulations	(h) (3)
X		Sufficient absorbent material in vehicle when transporting liquids in containers of 100 gallons or less.	(h) (4)

Part C - Comments

of inspection 8/26/81 Identification number PAD048603005

ny, Installation name Boyertown Sanitary Disposal Co, Inc.

y Montgomery Municipality Douglass Twp.

5.263(c) Currently working out consent agreement with dept. Boyertown Disposal applied too late to get automatic interim status as hauler.

5.263 h(2) Contingency plan needs to be developed and implemented.

5.263 h(3) Eye wash is needed on vehicles

263(d)(9)(ii) Trucks need to be covered and placarded.

SEP 1 1981

s inspection report is official notification that a representative of the Department of ironmental Resources, Bureau of Solid Waste Management, inspected the above installation. findings of this inspection are shown in this report. Any violations which were uncover ing the inspection are indicated. Violations may also be discovered upon examination of ults of laboratory analyses and review of Department records. Notification will be forth ing, confirming any violations indicated herein and listing any additional violations.

son Interviewed (signature) [illegible] Date 8/26/81

pector (signature) Thomas Shuhon Date 8/26/81

HAZARDOUS WASTE INSPECTION REPORT
TSD Facilities - Part A

RECEIVED SEP 1 1981 Div. of Hazardous Waste

01 18466

Date of inspection 8/26/81 Time start 8:00 Time finish 11:30

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL CO., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. BOX 360, R.D.1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed Mr. Michael Miller

Title Manager

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA.

Area code and phone no. (215) 367-7524

1. Site characterization:

a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biological

b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste piles

c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal treatment

d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

ILLEGIBLE COPIES

35 VIOLATIONS

TSD FACILITIES - PART B GENERAL PRO

1-NON-COMPLIANCE, 2-CO...ANCE, 3-NOT APPLICABLE, 4-NOT DE...MINED

ANCE US 3	4	REQUIREMENT	CHAPTER CITATION 75.265
		Part A permit application submitted	(a) (2),(z)
		Identification number	(b)
		Wastes accepted at facility transported by haulers licensed to transport hazardous waste by the Department	(b) (1)
		Waste streams not covered by permit approved by the Department before acceptance	(c)
		Chemical and physical analyses repeated as required	(c) (1)
		All waste shipments inspected and sampled	(c) (2)
		Waste analysis plan on-site	(c) (3)
		24 hr. surveillance at active portion	(d) (2) (
		Artificial barrier at active portion	(d) (2) (
		Proper signs posted and legible at a distance of at least 25 ft.	(d) (3)
		Inspection schedule on-site	(e) (2)
		Maintenance schedule on-site for equipment or structures which reveal deterioration or malfunction	(e) (4)
		Immediate remedial action taken where a hazard is imminent or has already occurred	(e) (4)
		On the job or classroom personnel training program	(f)
		Records retained for each employee at facility of training, job title, and job description	(f) (6),
X		Ignitable or reactive wastes separated from source of ignition or reaction	(g) (1)
X		No smoking signs displayed where there are hazards from ignitable or reactive wastes	(g) (1)
X		Treatment, storage, disposal of ignitable or reactive wastes or mixing of incompatible wastes or materials conducted according to requirements	(g) (2)
		Facility equipped with internal alarm system capable of providing immediate emergency instruction to personnel	(h) (2)
		Facility equipped with a device for summoning outside emergency assistance	(h) (2)
		Facility equipped with fire control, spill control, and decontamination equipment	(h) (2)
		Facility equipped with water at adequate volume and pressure to supply fire control equipment	(h) (2)
		Facility communications or alarm systems, fire control, spill control, and decontamination equipment tested and maintained.	(h) (3)
X		Adequate aisle space maintained to allow unobstructed movement of personnel and equipment during emergencies	(h) (6)
		Contingency plan on-site and implemented	(i) (1)
		Contingency plan describes action taken by personnel in the event of an emergency	(i) (3)

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED 1981

ANCE US 3	4	REQUIREMENT	CHAPTER CITATION 75.265
		Contingency plan contains an up-to-date list of names, addresses and phone numbers of all persons qualified to act as emergency coordinator.	(i) (6)
		Contingency plan contains list of emergency equipment including location, physical description and capabilities of each item	(i) (7)
		Contingency plan contains an evacuation plan if there is a possibility that evacuation could be necessary	(i) (8)
		One employee designated as the primary emergency coordinator either on the premises or on call.	(i) (11)
		Facility accepting only PA manifests	(j)
		Manifests properly completed and routed within time limits (24 hrs.)	(j) (2) (3)
		Manifest discrepancies resolved or reported within time limits	(j) (10) (1
		Written operating record maintained on the premises	(k)
		Written operating record contains description and quantity of wastes and method of treatment, storage or disposal	(k) (2) (i)
		Written operating record contains location and quantity of each hazardous waste	(k) (2) (i
		Written operating record contains results of waste analyses and treatability tests	(k) (2) (i
		Written operating record contains reports and details of all incidents	(k) (2) (i
		Written operating record contains records and results of all inspections	(k) (2) (v
		Written operating record contains required monitoring, testing, and analytical data	(k) (2) (v
		Written operating record contains closure and post-closure cost estimates	(k) (2) (v
		All records retained on premises and available for inspection	(l)
		Quarterly reports submitted to the Department	(m)
		Emissions, discharges, fires, explosions, and groundwater contamination reported as required	(m) (2)
		Groundwater monitoring wells located at approved sites	(n) (2)
		Adequate protection of groundwater monitoring wells	(n) (7)
		Groundwater sampling and analysis plan on the premises	(n) (8)
		Groundwater quality assessment and abatement outline on the premises	(n) (14)
		Closure plan on the premises and up-to-date	(o) (2)-
		Post-closure plan on the premises and up-to-date	(o) (10)
		Annual closure cost estimate on the premises and up-to-date	(p) (2)-
		Annual post-closure cost estimate on the premises	(p) (5)

1- NON-COMPLIANCE, 2- COMPLIANCE, 3- NOT APPLICABLE, 4- NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION
X			Surface impoundment managed to maintain at least 60 cm (2 ft) of freeboard and to prevent overtopping of the dike by overfilling, wave action, or a storm.	(s)(2)
X			Protective cover on earthen dikes, such as suitable vegetation, rock rip-rap, or non-erodible material to minimize wind and water erosion.	(s)(3)
X			Waste analyses and/or trial tests conducted on hazardous wastes substantially different from wastes previously treated or stored; or chemically treat hazardous waste with a substantially different process than any previously used in that tank.	(s)(4)
	X		Precautions taken for surface impoundments holding ignitable, reactive, or incompatible wastes.	(s)(5)
X			Freeboard level inspected once each operating day.	(s)(6)
X			Surface impoundment, including dikes and vegetation surrounding the dike, inspected once a week.	(s)(6)
X			Closure and post closure requirements are complied with.	(s)(7) (9)
	X		Placement of ignitable or reactive waste only with Department's approval.	(s)(10)
	X		Precautions taken for handling ignitable, reactive, or incompatible material	(s)(11)

1- NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION
X			Run-on diverted away from the facility	(v) (2)
X			Run-off collected from the active portions	(v) (3)
X			Run-off collected from the active portions and managed as a hazardous waste if it is a hazardous waste.	(v) (3)
X			Facility is managed to prevent wind dispersal of hazardous waste.	(v) (5)
	X		The exact location and dimension, including depth of each cell with respect to permanently surveyed benchmarks kept on a map in the operating record	(v) (6) (i)
	X		The contents of each cell and the approximate location of each hazardous waste type within each cell kept in the operating record.	(v) (6) (ii
			Closure and post-closure requirements are complied with.	(v) (7) - (10)
	X		Ignitable and reactive wastes disposed of with Department approval.	(v) (11)
X			Precautions taken for the disposal of incompatible wastes and materials	(v) (12)
X			Hazardous wastes disposed contains greater than 20% solids content by dry weight and are non-flowable and do not contain free liquid.	(v) (13)
X			Written approval from the Department to dispose of hazardous wastes containing less than 20% solids content by dry weight and are flowable until November 18, 1981	(v) (13)
X			Hazardous waste co-disposed with municipal waste with Department approval	(v) (14)
X			Empty containers crushed flat, shredded, or similarly reduced in volume before disposal	(v) (15)

Part C - Comments

of inspection 8/26/81 Identification num PAD048603005

ny, Installation name BOYERTOWN SANITARY DISPOSAL CO. INC.

y MONTGOMERY Municipality DOUGLASS TWP.

Did not use Incinerator, Waste Pile, Land treatment, Thermal treatment Forms. Did not use Phys, Chem, Bio treatment form — not in operation at time of insp — has not been used in past two months.

5.265(c)(1) The Department requests that a new Module be submitted for the Waste Conversion Sludge — due to the apparent change in chemical composition of the sludge.

5.265(e) Inspection schedule must be kept on site for landfill, lagoon and aeration tank

5.265(i)(1) A contingency plan (PPC) must be drafted and implemented

5.265(k) A written operation record must be kept on site - included should be the inspections, closure + post closure plans + cost estimates (ee(p))

25.265(b)(1) Paperwork is being worked on — Currently Boyertown Disposal does not have interim status as hauler - applied too late.

This inspection report is official notification that a representative of the Department of Environmental Resources, Bureau of Solid Waste Management, inspected the above installation. Findings of this inspection are shown in this report. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of results of laboratory analyses and review of Department records. Notification will be forthcoming, confirming any violations indicated herein and listing any additional violations.

Person Interviewed (signature) [illegible] Date 8/26/81

Inspector (signature) Thomas A Nolan Date 8/26/81

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANI
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

SEP 1 1981

Industrial Haz Waste Fac.

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES, DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

PAD048600 3005

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
100550	8/14/81	—

NAME OF DISPOSAL FACILITY: BOYERTOWN SANITARY DISPOSAL Co

FACILITY ADDRESS: 300 Merkel Rd.

MUNICIPALITY: Douglass Twp.

COUNTY: Montgomery

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER): MR. WARREN FRAME BOYERTOWN DISPOSAL

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
	YES	5½

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
26	75.21(m)(3)	Suitable barrier blocks access to site when attendant is not present.	X		
27	75.21(s)	25' setback line buffer zone present	X		
28	75.21(l)(1), (2), (3)	Adequate fire equipment or procedure for minimizing fire hazard	X		
29	75.21(q)	Approved operational safety program being utilized	X		
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly	X		
31	75.21(m)(2)	Hours of operation prominently posted	X		
32	75.21(k)	Telephone or other communications available	X		
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X		
34	75.21(r)(1), (2), (3), (4), 75.24(e)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X		
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift	X		
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X		
37	75.24(c)(2)(ii), (iii), & 75.37(d)(1), (2)	Final slopes within 1 to 15 percent or as approved by Department	X		
38	75.24(c)(2)(xi) & 75.38 II(8)(viii)	Adequate source and type of cover material being utilized	X		
39	75.24(c)(2)(v) & 75.38 II(8)(ii)(iv)(vi)	Site access roads are negotiable by loaded collection vehicles	X		
40	75.24(c)(2)(ii)(iii), 75.37(d)(1)(2) & 75.38 II(8)(viii)	Slopes, benching and terracing in accord with regulations		X	
41	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(ii)	Fire breaks	X		

ER-SWM-1A:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

RECEIVED
SEP 1 1981
Div. of Hazardous Waste

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

1 — Compliance, 2 — Non-Compliance, 3 — Not applicable

	CHAPTER CITATION		1	2	3
42	75.24(c)(2)(xxiv), 75.37(k) & 75.38 II(6)	Gas management			X
43	75.24(b)(4)(i), 75.37(k)(6), & 75.38 II(8)(i)	Ground water monitoring requirements being met	X		
44	75.24(c)(2)(xi), 75.37(k) & 75.38 II(8)(ii)	Approved cover material being utilized	X		
45	75.24(c)(2)(x)	Approved subbase being utilized	X		
	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X		
47	75.25(h)	Lined site, under drains operable	X		
48	75.25(i)	Are liners in place and covered with protective earth	X		
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained	X		
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly not checked	—	—	—
51	75.26(o), 75.37(g), 75.38 II(8)(viii)	Erosion controlled on site, diversion ditches as required	X		
52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X		
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X		
54	75.26(f)	Regulation ban on open burning adhered to	X		
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X		
56	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day		X	
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X		
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X		
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X		
60	75.26(i)	Working face area confined to size suitable for daily cover/compaction	X		
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans	X		
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X		
63	75.26(j), (k)	Blowing litter controlled	X		
64	75.26(c)	Provision for standby equipment available when needed	X		
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X	
66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

R -SWM-1B,2B,3B

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

RECEIVED
SEP 1 1981
Div. of Hazardous Waste

DISPOSAL FACILITY Boyertown Disposal

DATE 2/14/81

Arr. 6:10 A.M.
Weather: Clear

Final cover has been put on the top of landfill. Looks good.
Has been shaped on sides of the old landfill. These areas are being prepared for seeding (65).
Leachate seps on the southeast side appears to be dried.

(6) Many areas of the active work area have inadequate daily cover. The odors from the landfill was noticeable from Mt Bethel Rd.

The active work area is on the new pad - approximately ½ of the pad is covered by one lift, the other half is not used yet.

The Waste Conversion sludge was on odors like rotted insect killer and appears to have a high oil and grease content. I took a sample from residual residue the dump truck used for hauling. The Department requests the landfill and Waste Conversion to do a qualitative analysis of the sludge, due to the apparent change in composition.

Thomas Sheahan 2/14/81
Department of Environmental Resources Representative

Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

RECEIVED SEP 1 1981 Div. of Hazardous W...

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
100550	8/26/81	

NAME OF DISPOSAL FACILITY: Boyertown Sanitary Disposal Co. Inc.
FACILITY ADDRESS: 300 Merkel Rd.
MUNICIPALITY: Douglass Twp.
COUNTY: Montgomery
FACILITY PROPRIETOR (NAME, ADDRESS AND TELEPHONE NUMBER): Mr. Warren Frame, President 300 Merkel Rd Gilbertsville

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED	DAYS PER WEEK OPERATED
	YES	5½

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
26	75.21(m)(3)	Suitable barrier blocks access to site when attendant is not present.	X		
27	75.21(s)	25' setback line buffer zone present	X		
28	75.21(l)(1), (2), (3)	Adequate fire equipment or procedure for minimizing fire hazard	X		
29	75.21(q)	Approved operational safety program being utilized	X		
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly	X		
31	75.21(m)(2)	Hours of operation prominently posted	X		
32	75.21(k)	Telephone or other communications available	X		
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X		
34	75.21(r)(1), (2), (3), (4), 75.24(e)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X		
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift	X		
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X		
37	75.24(c)(2)(ii), (iii), & 75.37(d)(1), (2)	Final slopes within 1 to 15 percent or as approved by Department	X		
38	75.24(c)(2)(xi) & 75.38 II(8)(viii)	Adequate source and type of cover material being utilized	X		
39	75.24(c)(2)(v) & 75.38 II(8)(ii)(iv)(vi)	Site access roads are negotiable by loaded collection vehicles	X		
40	75.24(c)(2)(ii)(iii), 75.37(d)(1)(2) & 75.38 II(8)(viii)	Slopes, benching and terracing in accord with regulations		X	
41	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(ii)	Fire breaks	X		

ER-SWM-1A:5/79

OMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

RECEIVED
SEP 1 1981
Bureau of Solid Waste

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

1 — Compliance, 2 — Non-Compliance, 3 — Not applicable

	CHAPTER CITATION		1	2	3
42	75.24(c)(2)(xxiv), 75.37(k) & 75.38 II(6)	Gas management			X
43	75.24(b)(4)(i), 75.37(k)(6), & 75.38 II(8)(i)	Ground water monitoring requirements being met		X	
44	75.24(c)(2)(xi), 75.37(k). & 75.38 II(8)(ii)	Approved cover material being utilized	X		
45	75.24(c)(2)(x)	Approved subbase being utilized	X		
	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X		
47	75.25(h)	Lined site, under drains operable	X		
48	75.25(i)	Are liners in place and covered with protective earth	X		
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained	X		
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly not checked	—	—	—
51	75.26(o), 75.37(g), 75.38 II(8)(viii)	Erosion controlled on site, diversion ditches as required	X		
52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X		
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X		
54	75.26(f)	Regulation ban on open burning adhered to	X		
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X		
56	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day		X	
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X		
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X		
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X		
60	75.26(i)	Working face area confined to size suitable for daily cover/compaction	X		
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans	X		
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X		
63	75.26(j), (k)	Blowing litter controlled	X		
64	75.26(c)	Provision for standby equipment available when needed	X		
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X	
66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

SWM-1B,2B,3B

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

RECEIVED
SEP 1 1981
Div. of Hazardous Waste

Time: 8:00 AM
Weather: overcast

DISPOSAL FACILITY Boyertown Landfill

DATE 8/26/81

3) Analysis of TCE and oil + grease should be included in the quarterly monitoring well reports

4) Still behind on using inadequate amount of daily cover material.

5) Area on old landfill and on northeast side above lagoon are presently being prepared for seeding — limed and disced.

The Department is requesting that a new Module 1 be submitted for the sludge that comes from Waste Conversion — due to the apparent change in composition. Analysis of oil + grease should be included in the Module 1.

Thomas Sheehan 8/26/81
Department of Environmental Resources Representative

Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

UNITED S... ES ENVIRONMENTAL PROTECTI AGENCY
Region III – 6th & Walnut Sts.
Philadelphia, Pa. 19106

18461

SUBJECT: RCRA INSPECTION– Boyertown Sanitary Disposal Co. Inc. (Generator) DATE: JAN 26 82
PAD # 048603005 DATE: 7.31.81

FROM: Yener A. Söylemez, Environmental Engineer
Superfund/RCRA Compliance Section (3AW23)

TO: File

THRU: Walter F. Lee, Acting Chief
Superfund/RCRA Compliance Section (3AW23)

Robert Collings, Chief
Water & RCRA Enforcement Section (3RC12)

BASED UPON A REVIEW OF THE ENCLOSED RCRA INSPECTION REPORT FOR THE FACILITY REFERENCED ABOVE, I HAVE DETERMINED THAT NO FURTHER ACTION IS REQUIRED AT THIS TIME.

ENCLOSURE

01 Harrisburg

HAZARDOUS WASTE INSPECTION REPORT
Generators - Part A

Date of inspection 7/31/81 Time start 1:00 PM Time finish 2:00 PM

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL CO, INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP.

Identification number PA D048603005

Name of responsible official MR WARREN FRAME

tle OWNER

Mailing address P.O. BOX 360, R D 1, GLENMORE, PA.

Area code and phone no. (215) 458 - 5274

Name of person interviewed Mailed to Michael Miller

Title Manager

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA

Area code and phone no. (215) 367 - 7524

Current waste handling method:

a. ☒ On-site ☒ treatment, ☒ storage, ☐ disposal

b. ☐ On-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

c. ☒ Off-site ☒ treatment, ☐ storage, ☐ disposal

d. ☐ Off-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Amount of hazardous waste produced:

a. _____ kg./mo.

b. _____ kg./yr.

3. Types of hazardous waste produced by Hazardous Waste Number:
LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED.

4. Are hazardous wastes transported off-site by the generator? ☐ Yes ☒ No

HAZARDOUS WASTE INSPECTION
Generators - Part

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION 75.262
X			Identification number	(c) (1)
	X		Hazardous waste shipments offered only to licensed transporters	(c) (4)
X			Authorization received from TSD facility for wastes shipped off-site	(d)
	X		PA manifest used for intrastate shipments	(e) (1)
	X		Disposer state manifest or EPA format manifest used for out-of-state shipments	(e) (1) (
	X		Manifests filled out properly and completely	(e) (1)
	X		Manifests routed properly and within time limits (24 hours)	(e) (2)
			Proper U.S. DOT shipping containers or packages	(f) (1)
	X		Shipping containers marked and labeled according to U.S. DOT	(f) (1) (
	X		Containers of 100 gal. or less marked with required PA label	(f) (1) (
	X		Placards offered to transporter	(f) (2)
	X		Wastes accumulated on-site for less than 90 days	(g) (1)
	X		Wastes stored in proper containers and properly marked and labeled	(g) (1)
	X		Containers managed in accordance with 75.265(g)	(g) (1)
	X		Containers clearly marked with accumulation date and visible for inspection	(g) (1)
	X		Records retained at designated location for 20 years	(h)
	X		Quarterly reports submitted to the Department	(i)
	X		Exception reporting procedures followed	(j)
	X		Hazardous waste disposal plan, if required	(l)
X			Spill reporting procedures followed	(m) (1
			Preparedness, Prevention and Contingency Plan approved and implemented	(m) (5
	X		Special requirements followed for international shipments	(o)

Part C 4 Comments

of inspection 7/31/81 Identification number PAD048603005

ny, Installation name Boyertown Sanitary Disposal

y Montgomery Municipality Douglass Twp.

Generator is a landfill which accepts hazardous waste and co-disposes of it with municipal waste. Landfill is considered a generator because of leachate generated.

At the time of inspection there were two leachate seeps on the south west side of the landfill that were bypassing the collection system.

Contingency plan (PPC) needs to be developed and on file.

This inspection report is official notification that a representative of the Department of Environmental Resources, Bureau of Solid Waste Management, inspected the above installation. Findings of this inspection are shown in this report. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of results of laboratory analyses and review of Department records. Notification will be forthcoming, confirming any violations indicated herein and listing any additional violations.

Person Interviewed (signature) Mailed to Michael Miller Date 7/10/81

Inspector (signature) Thomas Whelan Date 7/10/81

Harrisburg

RECEIVED AUG 13 1981

HAZARDOUS WASTE INSPECTION REPORT
Transporters - Part A

Date of inspection 7/31/81 Time start 1:00 PM Time finish 2:00 PM

Name of inspector THOMAS SHEEHAN

Company name BOYERTOWN SANITARY DISPOSAL, CO., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. BOX 360, R.D. 1, GLENMORE, PA

Area code and phone no. (215) 458-5274

Name of person interviewed Mailed to Michael Miller

Title Manager

Mailing address (if different from above) 300 MERKEL RD., GILBERTSVILLE,

Area code and phone no. (215) 367-7524

1. a. PA hazardous waste transporter (HWT) license number —

   b. Expiration date —

2. Hazardous waste handling: ☐ N/A

   a. ☐ Blending, ☐ mixing

   b. ☐ Storage, ☐ treatment, ☒ disposal

   c. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

3. Does the transporter generate hazardous wastes? ☐ Yes ☒ No

4. Types of hazardous waste produced by Hazardous Waste Number:

5. Are hazardous wastes transported into the Commonwealth from abroad? ☐ Yes ☒ No

8 violations
No Interim Status

HAZARDOUS WASTE INSPECTION REPORT
Transporters - Part B

1- NON-COMPLIANCE, 2- COMPLIANCE, 3- NOT APPLICABLE, 4- NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION 75.263
X			Identification number	(b)
X			Company licensed by PA DER	(c)
	X		Copy of license kept on vehicles transporting hazardous wastes	(c) (8) (iv
	X		Licensee transporting only wastes conditioned on the license	(c) (8) (iv
X			Manifest accompanies all shipments	(d)
X			Required number of copies of the manifest accompanies shipment	(d) (9) (i)
			Shipments comply with U.S. and PA DOT requirements	(d) (9) (ii
X			Entire quantity as stated on the manifest delivered	(d) (9) (ii
X			Undeliverable shipment procedures followed	(d) (10)
	X		Normal in-transit storage of waste (only if specified on the manifest)	(e) (2)
X			Records retained at designated location	(f)
			Contingency plan approved and implemented	(g) (6)
			Appropriate and adequate safety equipment carried on transport vehicle	(h) (2)
X			Equipment decontamination procedures followed	(h) (3)
			Contaminated washwater, waste solutions, residues disposed of in accordance with regulations	(h) (3)
	X		Sufficient absorbent material in vehicle when transporting liquids in containers of 100 gallons or less.	(h) (4)

Part C - Comments

of inspection 7/31/81 Identification number PAD048603005

ny. Installation name BOYERTOWN SANITARY DISPOSAL CO., INC.

y MONTGOMERY Municipality DOUGLASS TWP.

25.263(a) Facility does not have interim status as a hazardous waste transporter. The license application was submitted after the Feb. 28, 1981 deadline, therefore interim status was not obtained. You are hereby notified that Boyertown Sanitary Disposal Co. Inc. cannot legally haul hazardous waste until a consent order agreement between Boyertown Disposal and this Department has been signed. For the details of this agreement contact Mr. Lenard Tritt in Harrisburg at (717) 787-7381.

25.263(d)(9)(ii) Containers are not covered during transportation.

25.263(g)(6) Contingency plan (PPC) needs to be developed, implemented, and on file.

25.263(h)(2) Eye wash is needed on vehicles.

This inspection report is official notification that a representative of the Department of Environmental Resources, Bureau of Solid Waste Management, inspected the above installation. Findings of this inspection are shown in this report. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of results of laboratory analyses and review of Department records. Notification will be forthcoming, confirming any violations indicated herein and listing any additional violations.

Person Interviewed (signature) Michael Miller Date 8/10/81

Inspector (signature) Thomas Sheehan Date 8/10/81

ZARDOUS WASTE INSPECTION REP
TSD Facilities - Part A

Hazardous 01
18469

RECEIVED
AUG 13 1981
Hazardous Waste

Date of inspection 7/31/81 Time start 1:00 Time finish 2:00 PM

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL Co., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. Box 360, R.D.1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed Mailed to Mr. Michael Milly

Title Manager

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA.

Area code and phone no. (215) 367-7524

1. Site characterization:

   a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biological

   b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste piles

   c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal treatment

   d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
   LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

34+ VIOLATION

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

ANCE US 3	4	REQUIREMENT	CHAPTER CITATION 75.265
		Part A permit application submitted	(a) (2),(z)
		Identification number	(b)
		Wastes accepted at facility transported by haulers licensed to transport hazardous waste by the Department	(b) (1)
		Waste streams not covered by permit approved by the Department before acceptance	(c) (
		Chemical and physical analyses repeated as required	(c) (1)
X		All waste shipments inspected and sampled	(c) (2)
		Waste analysis plan on-site	(c) (3)
		24 hr. surveillance at active portion	(d) (2) (i
		Artificial barrier at active portion	(d) (2) (i
		Proper signs posted and legible at a distance of at least 25 ft.	(d) (3)
		Inspection schedule on-site	(e) (2)
		Maintenance schedule on-site for equipment or structures which reveal deterioration or malfunction	(e) (4)
		Immediate remedial action taken where a hazard is imminent or has already occurred	(e) (4)
		On the job or classroom personnel training program	(f)
		Records retained for each employee at facility of training, job title, and job description	(f) (6), (
X		Ignitable or reactive wastes separated from source of ignition or reaction	(g) (1)
		No smoking signs displayed where there are hazards from ignitable or reactive wastes	(g) (1)
		Treatment, storage, disposal of ignitable or reactive wastes or mixing of incompatible wastes or materials conducted according to requirements	(g) (2)
		Facility equipped with internal alarm system capable of providing immediate emergency instruction to personnel	(h) (2) (
		Facility equipped with a device for summoning outside emergency assistance	(h) (2) (
		Facility equipped with fire control, spill control, and decontamination equipment	(h) (2) (
		Facility equipped with water at adequate volume and pressure to supply fire control equipment	(h) (2) (
		Facility communications or alarm systems, fire control, spill control, and decontamination equipment tested and maintained.	(h) (3)
X		Adequate aisle space maintained to allow unobstructed movement of personnel and equipment during emergencies	(h) (6)
		Contingency plan on-site and implemented	(i) (1)
		Contingency plan describes action taken by personnel in the event of an	(i) (2)

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATIO
X			Surface impoundment managed to maintain at least 60 cm (2 ft) of freeboard and to prevent overtopping of the dike by overfilling, wave action, or a storm.	(s) (2)
X			Protective cover on earthen dikes, such as suitable vegetation, rock rip-rap, or non-erodible material to minimize wind and water erosion.	(s) (3)
X			Waste analyses and/or trial tests conducted on hazardous wastes substantially different from wastes previously treated or stored; or chemically treat nazarcous waste with a substantially different process than any previously used in that tank.	(s) (4)
	X		Precautions taken for surface impoundments holding ignitable, reactive, or incompatible wastes.	(s) (5)
X			Freeboard level inspected once each operating day.	(s) (6) (
X			Surface impoundment, including dikes and vegetation surrounding the dike, inspected once a week.	(s) (6) (
X			Closure and post closure requirements are complied with.	(s) (7) ((9)
	X		Placement of ignitable or reactive waste only with Department's approval.	(s) (10
	X		Precautions taken for handling ignitable, reactive, or incompatible material	(s) (11

TREA NT, STORAGE, DISPOSAL FACILI S -
CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT
75.265

1- NON-COMPLIANCE, 2- COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION
	X		Precautions taken for treating ignitable, reactive, or incompatible waste or material.	(y)(2)
		X	Treatment process or equipment managed to prevent leaks, rupture, corrosion, or otherwise failing.	(y)(3)
	X		Continuously fed treatment process or equipment equipped with a means to stop inflow.	(y)(4)
X			Waste analysis and/or trial tests conducted on hazardous wastes substantially different from wastes previously treated in that process or equipment; or chemically treat hazardous waste with a substantially different process than any previously used in that process or equipment.	(y)(5)
			Discharge control and safety equipment inspected once each operating day.	y)(6)(i)
			Monitoring equipment data inspected once each operating day.	y)(6)(ii
			Construction materials of treatment process or equipment inspected weekly.	y)(6)(i
			Construction materials or discharge confinement structure and area immediately surrounding inspected weekly.	(y)(6)(
			Closure requirements are complied with.	(y)(7)
	X		Precautions taken for handling ignitable, reactive, or incompatible waste or material.	y)(8),((1

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

ANCE US 3	4	REQUIREMENT	CHAPTER CITATION 75.265
		Contingency plan contains an up-to-date list of names, addresses and phone numbers of all persons qualified to act as emergency coordinator.	(i) (6)
		Contingency plan contains list of emergency equipment including location, physical description and capabilities of each item	(i) (7)
		Contingency plan contains an evacuation plan if there is a possibility that evacuation could be necessary	(i) (8)
		One employee designated as the primary emergency coordinator either on the premises or on call.	(i) (11)
		Facility accepting only PA manifests	(j)
		Manifests properly completed and routed within time limits (24 hrs.)	(j) (2) (3)
		Manifest discrepancies resolved or reported within time limits	(j) (10) (1
		Written operating record maintained on the premises	(k)
		Written operating record contains description and quantity of wastes and method of treatment, storage or disposal	(k) (2) (i)
		Written operating record contains location and quantity of each hazardous waste	(k) (2) (ii
		Written operating record contains results of waste analyses and treatability tests	(k) (2) (ii
		Written operating record contains reports and details of all incidents	(k) (2) (iv
		Written operating record contains records and results of all inspections	(k) (2) (v)
		Written operating record contains required monitoring, testing, and analytical data	(k) (2) (vi
		Written operating record contains closure and post-closure cost estimates	(k) (2) (vi
X		All records retained on premises and available for inspection	(l)
		Quarterly reports submitted to the Department	(m)
X		Emissions, discharges, fires, explosions, and groundwater contamination reported as required	(m) (2)
		Groundwater monitoring wells located at approved sites	(n) (2)
		Adequate protection of groundwater monitoring wells	(n) (7)
X		Groundwater sampling and analysis plan on the premises	(n) (8)
X		Groundwater quality assessment and abatement outline on the premises	(n) (14)
		Closure plan on the premises and up-to-date	(o) (2) - (
		Post-closure plan on the premises and up-to-date	(o) (10) -
		Annual closure cost estimate on the premises and up-to-date	(p) (2) - (
		Annual post-closure cost estimate on the premises and up-to-date	(p) (5) - (

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION
X			Run-on diverted away from the facility	(v) (2)
X			Run-off collected from the active portions	(v) (3)
			Run-off collected from the active portions and managed as a hazardous waste if it is a hazardous waste.	(v) (3)
	X		Facility is managed to prevent wind dispersal of hazardous waste.	(v) (5)
	X		The exact location and dimension, including depth of each cell with respect to permanently surveyed benchmarks kept on a map in the operating record	(v) (6) (i)
	X		The contents of each cell and the approximate location of each hazardous waste type within each cell kept in the operating record.	(v) (6) (ii
			Closure and post-closure requirements are complied with.	(v) (7) - (10)
	X		Ignitable and reactive wastes disposed of with Department approval.	(v) (11)
	X		Precautions taken for the disposal of incompatible wastes and materials	(v) (12)
X			Hazardous wastes disposed contains greater than 20% solids content by dry weight and are non-flowable and do not contain free liquid.	(v) (13)
X			Written approval from the Department to dispose of hazardous wastes containing less than 20% solids content by dry weight and are flowable until November 18, 1981	(v) (13)
X			Hazardous waste co-disposed with municipal waste with Department approval	(v) (14)
X			Empty containers crushed flat, shredded, or similarly reduced in volume before disposal	(v) (15)

Part C - Comments

of inspection 7/31/81 Identification number PAD048603005

y, Installation name Boyertown Sanitary Disposal

Montgomery Municipality Douglass Twp

Waste Analysis Plan Needed

Inspection Schedule must be kept on site also a maintenance schedule.

A Contingency Plan (PPC) needs to be developed and kept on file at the site.

A written operating record must be kept on premises including inspection of landfill, lagoon, treatment facility and equipment.

Closure and Post closure plans and cost estimates must be developed and kept on site.

This Department did not received the proper quarterly report for the first quarter of 1981 (Jan-Mar)

There are two uncontrolled seeps coming out of the southeast side of the landfill

Treatment facility was not in operation at the time of inspection.

This inspection report is official notification that a representative of the Department of Environmental Resources, Bureau of Solid Waste Management, inspected the above installation. Findings of this inspection are shown in this report. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of results of laboratory analyses and review of Department records. Notification will be forthcoming, confirming any violations indicated herein and listing any additional violations.

Person Interviewed (signature) Marlette Michael Miller Date 8/10/81

Inspector (signature) Thomas J Meehan Date 8/10/81

ER-SWM-1:5/79

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

IDENTIFICATION NUMBER (1–7)	INSPECTION DATE (9–14)	INSPECTORS SOC. SEC. NO. (16–24)
100550 PDO48603005	7/31/81	211-36-1410

NAME OF DISPOSAL FACILITY: BOYERTOWN SANITARY DISPOSAL CO. INC.

FACILITY ADDRESS: 300 MERKEL RD.

MUNICIPALITY: DOUGLASS TWP.

COUNTY: MONTGOMERY

FACILITY PROPRIETOR (NAME, ADDRESS, AND TELEPHONE NUMBER): M. WARREN FRAME PRESIDENT BOYERTOWN DISPOSAL CO.

DAILY VOLUME RECEIVED	ANNUAL REPORT RECEIVED*	DAYS PER WEEK OPERATED
	YES	5½

1 – Compliance, 2 – Non-Compliance, 3 – Not applicable

	CHAPTER CITATION		1	2	3
26	75.21(m)(3)	Suitable barrier blocks access to site when attendant is not present.	X		
27	75.21(s)	25' setback line buffer zone present	X		
28	75.21(l)(1), (2), (3)	Adequate fire equipment or procedure for minimizing fire hazard	X		
29	75.21(q)	Approved operational safety program being utilized	X		
30	75.21(p)	Effective vector control program utilized at site where needed. Circle vector program required: bird, mosquito, rodent, fly		X	
31	75.21(m)(2)	Hours of operation prominently posted	X		
32	75.21(k)	Telephone or other communications available	X		
33	75.21(o)(1)	Salvaging occurs in accordance with regulations	X		
34	75.21(r)(1), (2), (3), (4), 75.24(e)(2)(vii)(viii)	Operational records maintained and method of measurement provided	X		
35	75.24(c)(2)(xxi), 75.37(j) & 75.38 II(8)(viii)	Final minimum uniform two foot layer of compacted cover material placed on surface of final lift		X	
36	75.24(c)(2)(i), 75.37(e) & 75.38 II(8)(viii)	Surface water management administered at the site	X		
37	75.24(c)(2)(ii), (iii), & 75.37(d)(1), (2)	Final slopes within 1 to 15 percent or as approved by Department	X		
38	75.24(c)(2)(xi) & 75.38 II(8)(viii)	Adequate source and type of cover material being utilized	X		
39	75.24(c)(2)(v) & 75.38 II(8)(ii)(iv)(vi)	Site access roads are negotiable by loaded collection vehicles	X		
40	75.24(c)(2)(ii)(iii), 75.37(d)(1)(2) & 75.38 II(8)(viii)	Slopes, benching and terracing in accord with regulations	X		
41	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(ii)	Fire breaks	X		

ER-SWM-1A:5/79

Boyertown 7/31/81

MMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES,
DEMOLITION SITES, FLYASH SITES, SLAG SITES
FORM NO. 10

1 — Compliance, 2 — Non-Compliance, 3 — Not applicable

	CHAPTER CITATION		1	2	3
42	75.24(c)(2)(xxiv), 75.37(k) & 75.38 II(6)	Gas management			X
43	75.24(b)(4)(i), 75.37(k)(6), & 75.38 II(8)(i)	Ground water monitoring requirements being met	X		
44	75.24(c)(2)(xi), 75.37(k). & 75.38 II(8)(ii)	Approved cover material being utilized	X		
45	75.24(c)(2)(x)	Approved subbase being utilized	X		
	75.24(c)(2)(xvi), 75.37(k) & 75.38 II(8)(iv)	Proper barriers being maintained	X		
47	75.25(h)	Lined site, under drains operable	X		
48	75.25(i)	Are liners in place and covered with protective earth	X		
49	75.25(o)(3)	Lined site, daily record of leachate flow maintained	X		
50	75.26(a) & 75.37(g)	Leachate treatment facilities being operated properly not checked	~~X~~		
51	75.26(o), 75.37(g), 75.38 II(8)(viii)	Erosion controlled on site, diversion ditches as required	X		
52	75.26(b), 75.37(k)(2), (3), 75.38 II(8)(ii)	Solid waste spread and compacted in layers not exceeding two feet deep	X		
53	75.26(q)	At lined sites, is all waste deposited on lined areas	X		
54	75.26(f)	Regulation ban on open burning adhered to	X		
55	75.26(d) & 75.38 II(8)(vi)	Bulky waste properly controlled	X		
56	75.26(l) & 75.38 II(8)(vii)	Uniform minimum six inch layer of compacted material placed on all exposed solid waste at the end of each working day		X	
57	75.26(s)	Hazardous wastes & sludges stored and/or disposed with written Departmental approval	X		
58	75.26(n)	Intermediate uniform minimum one-foot layer of compacted cover material placed on completed lifts	X		
59	75.26(d) & 75.38 II(8)(iv)	Unloading area restricted to proximity of the working face	X		
60	75.26(i)	Working face area confined to size suitable for daily cover/compaction	X		
61	75.26(q), 75.37(k), (s) & 75.38 II(8)(x)	Operation in accordance with approved plans			
62	75.26(g), (h) & 75.38 II(8)(vi)	Dust controlled at site	X		
63	75.26(j), (k)	Blowing litter controlled	X		
64	75.26(c)	Provision for standby equipment available when needed	X		
65	75.26(o), (p), 75.37(j), 75.38 II(8)(ix)	Has vegetative growth been established to prevent soil erosion on disturbed areas		X	
66	Chapter 101(9)(e)(2)	Is bonding status correct	X		

R -SWM-1B,2B,3B

Weather: Sunny
Time: 13:00

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOLID WASTE MANAGEMENT

INSPECTION REPORT
SANITARY LANDFILL, INDUSTRIAL SITES
DEMOLITION SITES, FLYASH SITES, SLAG SITES

COMMENTS:
FORM NO. 10, 11, & 12

DISPOSAL FACILITY Boyertown Landfill

DATE 7/31/81

5) Thicker vegitation is needed on areas of the old landfill and northeast side of the landfill

5) More areas up top need final cover.

10 # 5(6) Daily cover on the active area and adjacent to this area is inadequate. All areas of the landfill should be properly covered at the end of each working day.

The work area has moved down to the new pad this afternoon.

There are two uncontained seeps coming out of the southeast side of the landfill.

Thomas Shehan 7/31/81
Department of Environmental Resources Representative

MAILED TO MICHAEL MILLER 8/10/81
Operator

CENTRAL OFFICE, APPLICANT, INSPECTOR, REGIONAL OFFICE

I ARDOUS WASTE INSPECTION REPOR
TSD Facilities - Part A

JUN 04 1981 14470

Date of inspection 5/28/80 Time start 12:00 Time finish 14:30

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL Co., INC

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP

Identification number PAD048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. BOX 360, R.D.1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed MR MICHAEL MILLER

Title MANAGER

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, P

Area code and phone no. (215) 367-7524

1. Site characterization:

a. ☐ Treatment - ☐ surface impoundments, ☐ chemical, ☐ physical, ☐ biologic

b. ☒ Storage - ☐ containers, ☐ tanks, ☒ surface impoundments, ☐ waste piles

c. ☒ Disposal - ☐ land treatment, ☒ landfill, ☐ incineration, ☐ thermal tre men

d. ☐ Use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Does the facility generate hazardous wastes? ☒ Yes ☐ No

3. Types of hazardous waste produced by Hazardous Waste Number:
LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED

4. Are hazardous wastes transported off-site by the facility? ☒ Yes ☐ No

Part C - Comments

TSD Page 1

JUN 04 1981

e of inspection 5/28/81 Identification number PAD048603005

pany, Installation name BOYERTOWN SANITARY DISPOSAL Co, INC

nty MONTGOMERY Municipality DOUGLASS TWP

Behind on daily cover on active portions of the landfill

Surface runoff from active portion of the landfill must be collected — there are three leachate seeps on the lagoon side near the top; there are getting past the collection.

Landfill has a contingency plan in design but was not available at time of inspection official plan should be on site by June 1, 1981.

A written operating record needs to be kept on site for inspection of equipment + facilities which are inspected at a frequency designated in Chapter 7

Leachate treatment facility was not in operation at the time of inspection.

is inspection report is official notification that a representative of the Department of vironmental Resources, Bureau of Solid Waste Management, inspected the above installation. e findings of this inspection are shown in this report. Any violations which were uncover ring the inspection are indicated. Violations may also be discovered upon examination of sults of laboratory analyses and review of Department records. Notification will be forth ming, confirming any violations indicated herein and listing any additional violations.

rson Interviewed (signature) Michael A Miller Date 5/28/81

spector (signature) Thomas S Kuhar Date 5/28/81

Gen

Part C - Comments

of inspection 5/28/81 Identification number PAD048603005

any, Installation name BOYERTOWN SANITARY DISPOSAL Co., INC.

ty MONTGOMERY Municipality DOUGLASS TWP.

Leachate from landfill that codisposes sludge from Waste Conversion.
Leachate is held in lined lagoon - treated in aeration tank and discharged to sewer (Berks-Montco).

s inspection report is official notification that a representative of the Department of
ironmental Resources, Bureau of Solid Waste Management, inspected the above installation
findings of this inspection are shown in this report. Any violations which were uncove
ing the inspection are indicated. Violations may also be discovered upon examination of
sults of laboratory analyses and review of Department records. Notification will be forth
ing, confirming any violations indicated herein and listing any additional violations.

son Interviewed (signature) Michael P. Mullen Date

spector (signature) Thomas Shelton Date 5/28/81

TREA[illegible]T, STORAGE, DISPOSAL FACILIT[illegible] -
CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT
75.265

JUN 04 1981

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 1	2	3	4	REQUIREMENT	CHAPTE CITATI
		X		Precautions taken for treating ignitable, reactive, or incompatible waste or material.	(y)(2)
	X			Treatment process or equipment managed to prevent leaks, rupture, corrosion, or otherwise failing.	(y)(3)
X				Continuously fed treatment process or equipment equipped with a means to stop inflow.	(y)(4)
	X			Waste analysis and/or trial tests conducted on hazardous wastes substantially different from wastes previously treated in that process or equipment; or chemically treat hazardous waste with a substantially different process than any previously used in that process or equipment.	(y)(5)
X				Discharge control and safety equipment inspected once each operating day.	y)(6)
X				Monitoring equipment data inspected once each operating day.	y)(6)
X				Construction materials of treatment process or equipment inspected weekly.	y)(6)
X				Construction materials or discharge confinement structure and area immediate surrounding inspected weekly.	y (y)(6
X				Closure requirements are complied with.	(y)(7
		X		Precautions taken for handling ignitable, reactive, or incompatible waste or material.	y)(8)

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 1	2	3	4	REQUIREMENT	CHAPTER CITAT
	X			Run-on diverted away from the facility	(v) (2)
X				Run-off collected from the active portions.	(v) (3)
X				Run-off collected from the active portions and managed as a hazardous waste if it is a hazardous waste.	(v) (3)
	X			Facility is managed to prevent wind dispersal of hazardous waste.	(v) (5)
		X		The exact location and dimension, including depth of each cell with respect to permanently surveyed benchmarks kept on a map in the operating record	(v) (6)
		X		The contents of each cell and the approximate location of each hazardous waste type within each cell kept in the operating record.	(v) (6)
X				Closure and post-closure requirements are complied with.	(v) (7) (10
		X		Ignitable and reactive wastes disposed of with Department approval.	(v) (11
		X		Precautions taken for the disposal of incompatible wastes and materials	(v) (12
	X			Hazardous wastes disposed contains greater than 20% solids content by dry weight and are non-flowable and do not contain free liquid.	(v) (13
	X			Written approval from the Department to dispose of hazardous wastes containing less than 20% solids content by dry weight and are flowable until November 18, 1981	(v) (13
	X			Hazardous waste co-disposed with municipal waste with Department approval	(v) (1
		X		Empty containers crushed flat, shredded, or similarly reduced in volume before disposal	(v) (3

TREATMENT, STORAGE, DISPOSAL FACILITIES - SURFACE IMPOUNDMENTS

75.265

JUN 0 4 1981

1- NON-COMPLIANCE, 2- COMPLIANCE, 3- NOT APPLICABLE, 4- NOT DETERMINED

COMPLIANCE STATUS 1	2	3	4	REQUIREMENT	CHAP CITA
	X			Surface impoundment managed to maintain at least 60 cm (2 ft) of freeboard and to prevent overtopping of the dike by overfilling, wave action, or a storm.	(s)
	X			Protective cover on earthen dikes, such as suitable vegetation, rock rip-rap, or non-erodible material to minimize wind and water erosion.	(s)
	X			Waste analyses and/or trial tests conducted on hazardous wastes substantially different from wastes previously treated or stored; or chemically treat hazardous waste with a substantially different process than any previously used in that tank.	(s)
		X		Precautions taken for surface impoundments holding ignitable, reactive, or incompatible wastes.	(s)
X				Freeboard level inspected once each operating day.	(s) (6
X				Surface impoundment, including dikes and vegetation surrounding the dike, inspected once a week.	(s) (6
X				Closure and post closure requirements are complied with.	(s) (7 (9
		X		Placement of ignitable or reactive waste only with Department's approval.	(s) (
		X		Precautions taken for handling ignitable, reactive, or incompatible material	(s) (

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERM.....D

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION 75.265
			Contingency plan contains an up-to-date list of names, addresses and phone numbers of all persons qualified to act as emergency coordinator.	(i) (6)
			Contingency plan contains list of emergency equipment including location, physical description and capabilities of each item	(i) (7)
			Contingency plan contains an evacuation plan if there is a possibility that evacuation could be necessary	(i) (8)
			One employee designated as the primary emergency coordinator either on the premises or on call.	(i) (11)
X			Facility accepting only PA manifests	(j)
		X	Manifests properly completed and routed within time limits (24 hrs.)	(j) (2)
		X	Manifest discrepancies resolved or reported within time limits	(j) (10)
			Written operating record maintained on the premises	(k)
			Written operating record contains description and quantity of wastes and method of treatment, storage or disposal	(k) (2)
	X		Written operating record contains location and quantity of each hazardous waste	(k) (2)
			Written operating record contains results of waste analyses and treatability tests	(k) (2)
			Written operating record contains reports and details of all incidents	(k) (2)
			Written operating record contains records and results of all inspections	(k) (2)
			Written operating record contains required monitoring, testing, and analytical data	(k) (2)
			Written operating record contains closure and post-closure cost estimates	(k) (2)
			All records retained on premises and available for inspection	(l)
			Quarterly reports submitted to the Department	(m)
		X	Emissions, discharges, fires, explosions, and groundwater contamination reported as required	(m) (2)
	X		Groundwater monitoring wells located at approved sites	(n) (2)
	X		Adequate protection of groundwater monitoring wells	(n) (7)
	X		Groundwater sampling and analysis plan on the premises	(n) (8)
	X		Groundwater quality assessment and abatement outline on the premises	(n) (14)
			Closure plan on the premises and up-to-date	(o) (2)
			Post-closure plan on the premises and up-to-date	(o) (10)
X			Annual closure cost estimate on the premises and up-to-date	(p) (2)
X			Annual post-closure cost estimate on the premises and up-to-date	(p) (5)

JUN 04 1981

1- NON-COMPLIANCE, 2- COMPLIANCE, 3- NOT APPLICABLE, 4- NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITATION 75.26
X			Part A permit application submitted	(a) (2)
X			Identification number	(b)
X			Wastes accepted at facility transported by haulers licensed to transport hazardous waste by the Department	(b) (1
X			Waste streams not covered by permit approved by the Department before acceptance	(
X			Chemical and physical analyses repeated as required	(c) (1
	X		All waste shipments inspected and sampled	(c) (2
			Waste analysis plan on-site	(c) (3
X			24 hr. surveillance at active portion	(d) (2
			Artificial barrier at active portion	(d) (2
X			Proper signs posted and legible at a distance of at least 25 ft.	(d) (3
			Inspection schedule on-site	(e) (2
			Maintenance schedule on-site for equipment or structures which reveal deterioration or malfunction	(e) (1
		X	Immediate remedial action taken where a hazard is imminent or has already occurred	(e) (4
			On the job or classroom personnel training program	(f)
			Records retained for each employee at facility of training, job title, and job description	(f) (6
			Ignitable or reactive wastes separated from source of ignition or reaction	(g) (1
	X		No smoking signs displayed where there are hazards from ignitable or reactive wastes	(g) (1
	X		Treatment, storage, disposal of ignitable or reactive wastes or mixing of incompatible wastes or materials conducted according to requirements	(g) (2
			Facility equipped with internal alarm system capable of providing immediate emergency instruction to personnel	(h) (2
X			Facility equipped with a device for summoning outside emergency assistance	(h) (2
X			Facility equipped with fire control, spill control, and decontamination equipment	(h) (2
	X		Facility equipped with water at adequate volume and pressure to supply fire control equipment	(h) (2
			Facility communications or alarm systems, fire control, spill control, and decontamination equipment tested and maintained.	(h) (3
	X		Adequate aisle space maintained to allow unobstructed movement of personnel and equipment during emergencies	(h) (6
			Contingency plan on-site and implemented	(i) (1
			Contingency plan describes action taken by personnel in the event of an emergency	(i) (3
			Contingency plan describes	

HAZARDOUS WASTE INSPECTION REPORT
Generators - Part

JUN 0 1 1988

1-NON-COMPLIANCE, 2-COMPLIANCE, 3-NOT APPLICABLE, 4-NOT DETERMINED

COMPLIANCE STATUS 2	3	4	REQUIREMENT	CHAPTER CITAT 75.26
X			Identification number	(c) (1
	X		Hazardous waste shipments offered only to licensed transporters	(c) (4
	X		Authorization received from TSD facility for wastes shipped off-site	(d)
	X		PA manifest used for intrastate shipments	(e) (1
	X		Disposer state manifest or EPA format manifest used for out-of-state shipments	(e) (1)
	X		Manifests filled out properly and completely	(e) (1
	X		Manifests routed properly and within time limits (24 hours)	(e) (1
			Proper U.S. DOT shipping containers or packages	(f) (1
	X		Shipping containers marked and labeled according to U.S. DOT	(f) (1)
	X		Containers of 100 gal. or less marked with required PA label	(f) (1)
	X		Placards offered to transporter	(f) (1
X			Wastes accumulated on-site for less than 90 days	(g) (1
	X		Wastes stored in proper containers and properly marked and labeled	(g) (1
	X		Containers managed in accordance with 75.265(g)	(g) (1
	X		Containers clearly marked with accumulation date and visible for inspection	(g) (1
X			Records retained at designated location for 20 years	(h)
X			Quarterly reports submitted to the Department	(i)
		X	Exception reporting procedures followed	(j)
	X		Hazardous waste disposal plan, if required	(l)
		X	Spill reporting procedures followed	(m) (
X			Preparedness, Prevention and Contingency Plan approved and implemented	(m) (
	X		Special requirements followed for international shipments	(o)

HAZARDOUS WASTE INSPECTION REPORT
Generators - Part A

Date of inspection 5/28/81 Time start 12:00 Time finish 14:00

Name of inspector THOMAS SHEEHAN

Company, installation name BOYERTOWN SANITARY DISPOSAL CO., INC.

Location 300 MERKEL RD, GILBERTSVILLE, PA

County MONTGOMERY Municipality DOUGLASS TWP.

Identification number PA D048603005

Name of responsible official MR. WARREN FRAME

Title OWNER

Mailing address P.O. BOX 360, R D 1, GLENMORE, PA.

Area code and phone no. (215) 458-5274

Name of person interviewed MR. MICHAEL MILLER

Title MANAGER

Mailing address (if different from above) 300 MERKEL RD, GILBERTSVILLE, PA

Area code and phone no. (215) 367-7524

1. Current waste handling method:

   a. ☒ On-site ☒ treatment, ☒ storage, ☐ disposal

   b. ☐ On-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

   c. ☒ Off-site ☒ treatment, ☐ storage, ☐ disposal

   d. ☐ Off-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Amount of hazardous waste produced:

   a. 90,000 ~~kg.~~ gal./mo.

   b. _____ kg./yr.

3. Types of hazardous waste produced by Hazardous Waste Number:
   LEACHATE FROM LANDFILL WHERE HAZARDOUS SLUDGE IS LANDFILLED.

4. Are hazardous wastes transported off-site by the generator? ☐ Yes ☒ No

SUMMARY OF CONCLUSIONS

1) The geologic formation underlying the site area is the Brunswick formation.

2) The bedrock typically is a dense fine grained shale with a minor percentage of sandstone and siltstone beds. The first 20 feet of rock has been identified as shale.

3) The soils, geologic and hydrogeologic environments identified are typical of both the existing landfill and the proposed expansion area.

4) The weathered bedrock zone is limited to a shallow depth.

5) No fractures, lineaments or fault scarps exist within the limits of the proposed 25 acre expansion area.

6) Minor ground water zones were intercepted from 25 feet to 78 feet.

7) The depth of the ground water table (piezometric surface) was identified between 15 and 30 feet below the ground surface.

8) The secondary porosity of the Brunswick Formation underlying the site, is low resulting in a limited groundwater storage capacity.

9) Site soils are acceptable for cover material.

10) The existing hydrogeologic site conditions and the proposed site modifications will function to prevent the migration of any discharge which could be associated with the proposed facilities operation.

AGES

GEOLOGY

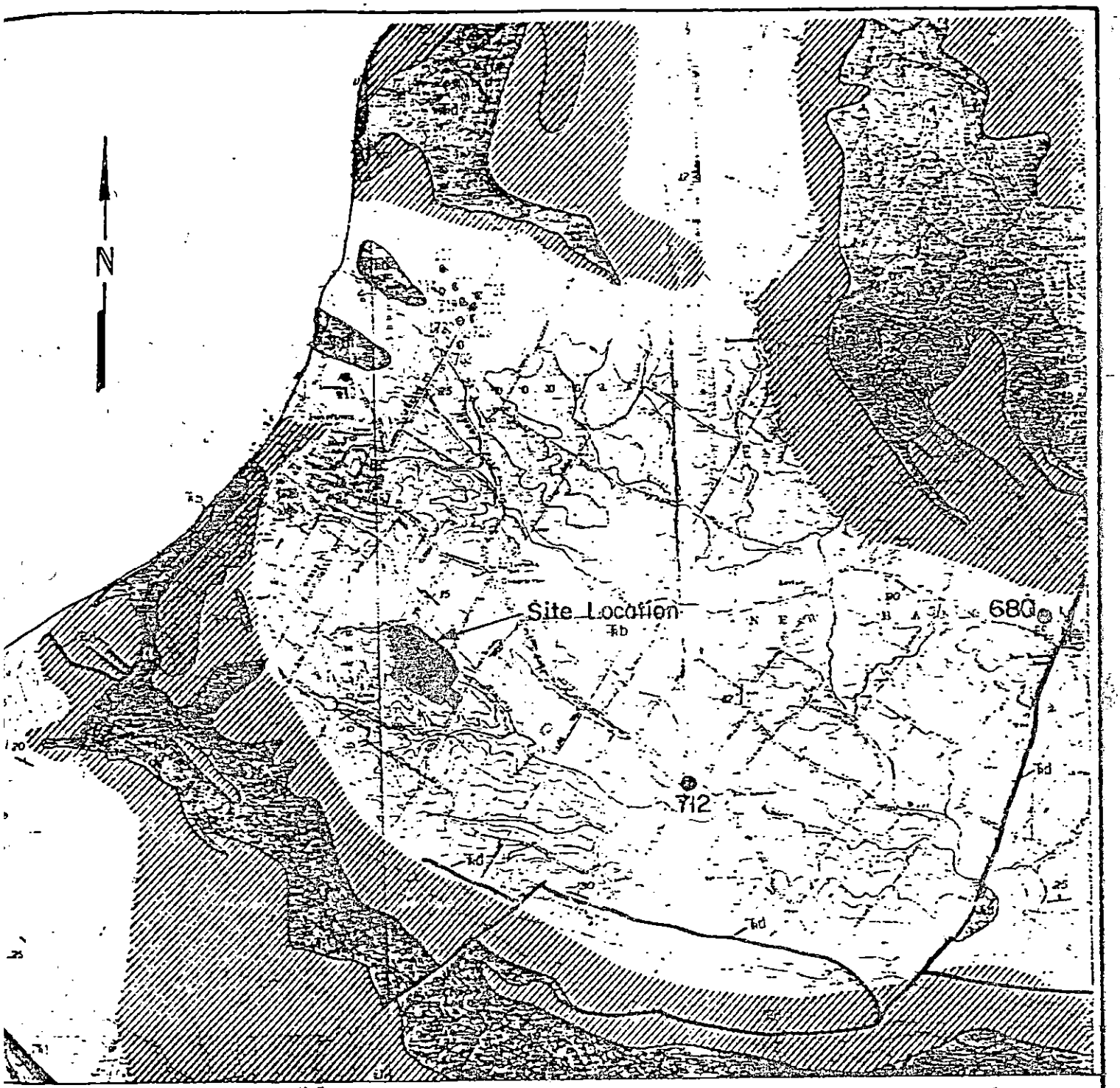
General Geology

Bedrock exposed, during installation of the new liner at the existing facility, along with other rock outcrops (see Figure 2, and Sheets 1 & 2); field mapping, drilling logs and soil test pits show that the Brunswick Formation underlies the proposed expansion area. (Figure 2).

The rocks are fine grained, massive reddish to maroon shales. The measured strike of the beds is N20-30° W and dip is northeast 18-24° NE. The rocks contain vertical joints with the dominant set striking N50° W and N40° E. Other less developed vertical joints were observed striking NS-EW. Joint spacing ranged from 6 inches to greater than 2 feet. A rock coring program (standard NX-Cores) was conducted at eight (8) locations (Sheets 3 & 4). The purpose of the rock coring program was to identify site specific rock characteristics.

Rock coring operations were supervised by AGES Corporation. The drilling equipment utilized to install the eight (8) borings was a B-61 mobile mud rotary rig. The NX cores recovered were typically fine grained massive (10 feet) to thin (1/4 inches) bedded grey, black, green, red to maroon shale with an occasional medium grained red to maroon sandstone bed.

FIGURE NO. 2



ef. GROUND WATER RESOURCES OF THE BRUNSWICK FORMATION IN MONTGOMERY AND BERKS COUNTIES, PENNSYLVANIA. USGS BULLETIN W22 (1965)

Trbf
Trb
Brunswick Formation

Diabase

GEOLOGICAL MAP

BOYERTOWN LANDFILL

BOYERTOWN SANITARY DISPOSAL CO. INC.

DOUGLASS TWP., MONTGOMERY CO., PA.

AGES® Applied Geotechnical and Environmental Service Corp.

SCALE	DRAWN BY	DATE	DRAWING NO.
1: 62,500		11-1-82	
PROJECT NO. 42281	APPROVED BY	SHEET NO. ___ of ___	

Minor amounts of siltstone were also observed. The range of color for the formation is a result of the varying states of oxidation and reduction which occurred during deposition and lithification. Because of the conditions under which the rocks of the Brunswick Formation were deposited, lateral changes in lithlogy take place within the formation. The rocks are a series of overlapping lens-shaped beds that are discontinuous in all directions along bedding. Examination of the rock core information substantiates this information (Table 1). Based on the split spoon and core drilling operation, depth to bedrock ranged from approximately 2.5 to 11 feet below ground surface. Refusal of the split spoon was utilized to identify the bedrock surface. A highly weathered bedrock zone exists between 4' to 10' measured from the top of the bedrock surface. Core recovery in the highly weathered zone of bedrock was poor. The rock below the weathered zone was dense massive shale that intercepted minor water zones. Where minor water zones were intercepted core recovery decreased. Evaluation of the core recovery shows the rock is competent at depth. Fractures encountered were filled with weathering products of calcite, and minor amounts of pyrite.

TABLE 1

TEST BORING RECORD

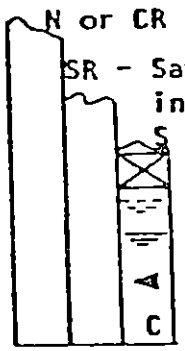
BOYERTOWN LANDFILL

DOUGLASS TOWNSHIP, MONTGOMERY COUNTY

TEST BORING RECORD

ELEV. (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
352		Red Brown	0	6"		25	0' to 6"
347	5	Sandy, Clayey Silt w/decomposed shale fragments		1' 6"		59 100	5' to 6' 10' to 10.5' (refusal) TOP Of Rock Start Core
342	10	Red/Grey Shale	11				
337	15	Highly Fractured	17			5.04	Recovery Fair RUN 1 (11 to 19)
332	20	Red Shale Minor Fractures	23			7.58	Recovery Good RUN 2 (19 to 29)
327	25	Red Shale					
322	30	Fractures filled with weathering products of calcite				5.17	Lost water at 38' to 39' Recovery fair
317	35		39				RUN 3 (29 to 39)
3[illegible]	40	Dark Maroon Shale	41				
307	45	Red Shale				9.50	Recovery Excellent Material Competent RUN 4 (39 to 49) Average penetration Rate 6 min/foot
302	50		49				
297	55	Red Shale with					Roller Bit From 49' to 70' 9/1/82
292	60	Minor Calcite					
287	65						
282	70		70				Bottom of Hole 70'
							Installed Temporary Piezometer 12' of 4" PVC 25' of 2" slotted PUC

- Elevations are approximate.
- Soil Symbols
- Sample Depths
- Penetration in blows/6" (ASTM D-1586)
- % Core Recovery, NX or BX designates bit size (ASTM D-2113)



SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring 14.25 feet

Water Level, 32.79 feet from top of casing 10/14/82

Loss of Water 38' to 39'

Top of Casing Elevation - 354.39 feet

Page 1 of 8

BORING NUMBER: TB-1

DATE DRILLED: 8/26 - 8/27 1983

PROJECT NUMBER: 42281

TEST BORING RECORD

ELEV.[1] (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
350		Red, Sandy Clayey Silt		0			No split spoon soil samples
			4				
345	5	Red, Shale					
340	10	Highly Fractured				2'	Recovery Poor RUN 1 (4.5 to 14.5)
			14.5				
335	15	Red, Shale Minor fractures with Calcite					
			18				
		Black, Shale				4.75	Recovery Poor/Fair RUN 2 (14.5 to 24.5)
			19				
330	20	Red, Shale Minor fractures Fractures filled with weathering products and calcite.					
325	25					8.75	Recovery Good RUN 3 (24.5 to 34.5)
320	30						
			34				
315	35	Red, Shale Highly Fractured with Calcite Veinlets				4.00	Recovery Poor/Fair RUN 4 (34.5 to 44.5) Lost water at 40 feet
310	40						
305	45					4.50	Recovery Excellent RUN 5 (44.5 to 54.5)
300	50						END OF CORE and Hole 54.5 Average Penetration Rate 6 min/foot
			54.5				
295	55						

Page 2 of 8

BORING NUMBER: TB-2

DATE DRILLED: 8/27 - 8/3[illegible] 198[illegible]

PROJECT NUMBER: 42281

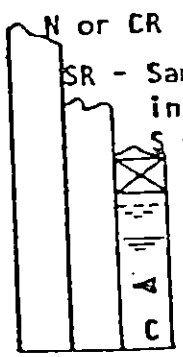
1 - Elevations are approximate.

K - Soil Symbols

D - Sample Depths

N - Penetration in blows/6" (ASTM D-1586)

CR - % Core Recovery, NX or BX designates bit size (ASTM D-2113)



SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring 11 feet

Water Level, 21.50 feet from top of casing 10/14/82

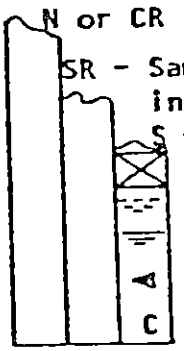
Loss of Water 40 feet

Top of Casing Elevation - 350.48

TEST BORING RECORD

ELEV. (feet)[1]	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
330						8	Blows from 0 to 6"
		Red Brown, Clayey Silty Sand				12	Blows from 6" to 1'
						29	Blows from 1' to 2'
325	5		4			100	Blows at 4' Rock (Refusal)
		Red Shale, Highly Fractured	6				No recovery (RUN 1)
320	10	Red Shale, Highly Fractured				7.67	Good Recovery RUN 2 (6' to 14.5')
315	15		14				
310	20	Red Shale with Calcite Reinlets				9.92	Excellent Recovery RUN 3 (14.5 to 24.5)
305	25		27				
		Red Sandstone Semi Consolidated	29			9.75	Lost water at 30' Excellent Recovery RUN 4 (24.5 to 34.5)
300	30	Red Shale, Minor Fractures Calcite fill material				9.00	RUN 5 (34.5 to 44.5) Minor sandstone lens approximately 4" thick From 35 to 35.4'
295	35						
290	40	Red Shale, Minor Fractures				5	Excellent Recovery RUN 6 (44.5 to 49.5) Average Core Run 6 min/ft.
285	45						
280	50			BOTTOM OF HOLE 49.5			
		Red Shale, some calcite					
275	55						Installed temporary piezometer 5'4" of 4" PVC 20' of 2" PVC
270	60						
[illegible]	65						
260	70						Finished boring as a permanent monitoring well by roller bit
							See Module 2, Phase I
							Well Depth 70'

1 - Elevations are approximate.
[illegible] - Soil Symbols
[illegible] - Sample Depths
[illegible] - Penetration in blows/6" (ASTM D-1586)
R - % Core Recovery, NX or BX designates bit size (ASTM D-2113)



SR - Sample Spoon Recovery in inches
S - Symbols Described Below
Undisturbed Sample (ASTM D-1587)
Water level, time of boring
Water Level, 27.75 feet from top of PVC casing 10/14/82
Loss of Water
Top of Casing Elevation - 329.58 feet

BORING NUMBER: TB-3
DATE DRILLED: 9/2 to 9/1[illegible]
PROJECT NUMBER: 42281

TEST BORING RECORD

ELEV.[1] (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
328		Red silty Clay Percentage of rock fragments increasing with depth		6" 6" 2"		8 28 73	Blows from 0 to 6" Blows from 5 to 5.5' Blows from 7 to 7.5' (Refusal)
323	5		7.5				
318	10	Red Shale Highly Fractured				2.25	Recovery Poor/Fair RUN 1 (7.5 to 11)
313	15		15.5				
		Red, Shale Minor Fractures with Calcite Fill				9.79	Recovery Excellent RUN 2 (11' to 22')
308	20		21				
		Red, Sandstone	22				
		Red, Siltstone	23				
3	25	Red, Shale Minor Fractures with Calcite Fill				8.58	Recovery Good/Excellent RUN 3 (21' to 31')
298	30		33				
		Red, Shale Highly fractured with calcite and barite					Lost water at 35'
293	35		36			5.58	Recovery Fair RUN 4 (31' to 40')
		Red, Shale Fractured grading into maroon shale					
288	40		42				
		Maroon, Shale with calcite	43				
		Black, Shale	44			8.17	Recovery Good RUN 5 (40' to 50') Average Penetration Rate 7 min/foot Bottom of Core Roller Bit to 70 feet Temporary Piezometer Installed with 8'6" of 4" PVC 20' of 2" PVC Completed as a permanent monitoring well (see module 2)
3	45	Red and Black alternating Shale with Calcite					
278	50		50				
273	55	Red, Shale					
268	65						
263	70						

1 - Elevations are approximate.

K - Soil Symbols

D - Sample Depths

N - Penetration in blows/6" (ASTM D-1586)

R - % Core Recovery, NX or BX designates bit size (ASTM D-2113)

N or CR

SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring

Water Level, 27.50 feet from top of PVC casing, 10/14/82

Loss of Water 35 feet

C Top of Casing Elevation, 329.27 feet

BORING NUMBER: TB-4

DATE DRILLED: 8/30-9/20 1982

PROJECT NUMBER: 4228

TEST BORING RECORD

LEV.[1] (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
352		Red Brown, silty Sand Rock at 2.5 feet	2.5				No soil split spoons taken, shallow rock
347	5	Red, Decomposed Shale	6				Roller bit shale to 6'
342	10	Red, Shale Highly Fractured				3.75	Recovery Poor RUN 1 (6 to 15.5')
337	15		15.5				
332	20	Red, Shale with Minor Calcite Reinlets	27.5			4.67	Recovery Fair RUN 2 (15.5' to 22.5')
		Red, Siltstone	23.5				
327	25	Red, Shale Minor Fractures	28			7.92	Recovery Excellent RUN 3 (22.5' to 30.5')
322	30	Red, Siltstone	29				
317	35	Red, Shale Minor Fractures Some Calcite				9.92	Recovery Excellent RUN 4 (30.5 to 40.5) New Bit
312	40						
307	45		46				Lost water from 46 to 50.5
		Decomposed Red, Shale	47			10.0	Recovery Excellent RUN 5 (40.5 to 50) END CORE at 50.5 Average Penetration rate 5 min/foot
302	50	Red, Shale Minor amounts of pyrite	50.5				
297	55	Grey Shale					
292	60						
287	65						Roller Bit (2-5/16") to final depth of 70' rock hard 10 min/foot Installed temporary piezometer 3.67' of 4" PVC 20' of 2" PVC
282	70						

[1] - Elevations are approximate.

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BORING NUMBER: TB-5

DATE DRILLED: 8/31/82

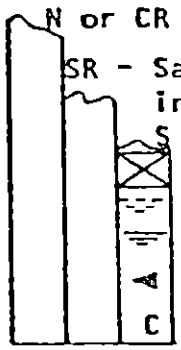
PROJECT NUMBER: 42281

Soil Symbols

Sample Depths

Penetration in blows/6" (ASTM D-1586)

% Core Recovery, NX or BX designates bit size (ASTM D-2113)



SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring

Water Level, 21.17 feet from top of PVC pipe 10/14/82

Loss of Water 50.5 feet

Top of Casing Elevation - 353.01 feet

TEST BORING RECORD

ELEV.[1] (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
340		Brown sandy clayey silt Rock fragments to coarse at 2.5'			6' 6' 6'	5 14 20	Blows from 0 to 6" Blows from 6" to 1' Blows from 1' to 1.5'
			3				Refusal at 3'
335	5	Brown grey to green shale Highly decomposed	6			6.92	Recovery Excellent RUN 1 (6 to 13)
330	10		13				
325	15	Red, Shale Minor calcite veinlets				7.50	Recovery Excellent RUN 2 (13 to 20.5)
320	20		20.5			5.00	Recovery Excellent RUN 3 (20.5 to 25.5) Lost Water 25'
		Red, Shale Highly fractured with calcite					
315	25		25.5			5.00	Recovery Excellent RUN 4 (25.5 to 30.5)
		Grey to Black, Shale Minor Pyrite	28			10.00	Recovery Excellent RUN 5 (30.5 to 40.5)
310	30						
305	35	Red Shale with Calcite veinlets				9.92	Recovery Excellent RUN 6 (40.5 to 50.5)
300	40						
295	45						END CORE 50.5
290	50		50.5				Average Penetration Rate 6 min/foot
	65						Installed temporary piezometer 4" of 4" PVC 30' of 2" PVC Slotted bottom 8 feet
	70						
	75						
	80						

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BORING NUMBER: TB-6

DATE DRILLED: 9/1/82

PROJECT NUMBER: 42281

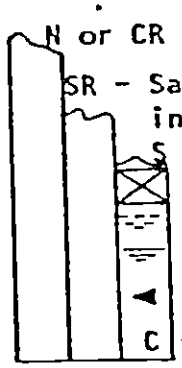
1 - Elevations are approximate.

- Soil Symbols

- Sample Depths

- Penetration in blows/6" (ASTM D-1586)

- % Core Recovery, NX or BX designates bit size (ASTM D-2113)



SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring

Water Level, 26.33 feet from top of PVC casing 10/14/82

Loss of Water 25 feet

Top of Casing Elevation - 340.59 feet

1151 S Trooper Road, Norristown, PA 19403

TEST BORING RECORD

ELEV.[1] (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
355		Red Brown Sandy Clayey Silt		16"		49	Blows from 0 to 1.5
				0		100	Blows from 5 to 5.17 (Refusal)
350	5		6				
345	10	Red Shale, Minor Fractured with Calcite				5.25	Recovery Fair RUN 1 (6' to 15') 14' decomposed layer
340	15		15				
335	20	Red to Maroon Shale, Minor Fractures with Calcite				9.38	Recovery Excellent RUN 2 (15' to 25')
330	25		26				
		Red, Shale Minor Fractures	30			5.17	Recovery Excellent RUN 3 (25 to 30.5)
325	30	Red Shale interbedded with Siltstone	33				
315	40	Red, Shale Highly Fractured at 39' Calcite reinlets	39 43			9.33	Recovery Excellent RUN 4 (30.5' to 40')
310	45	Maroon, Shale				4.17 48	Recovery Fair RUN 5 (40' to 50') Lost water 48'
305	50		50				END CORE 50' Average Penetration Rate 7 min/foot Completed hole as permanent monitoring well (see Module 2).
300	55	Red, Shale					
5	60						
290	65						
285	70		70				

1 - Elevations are approximate.

K - Soil Symbols

D - Sample Depths

N - Penetration in blows/6" (ASTM D-1586)

CR - % Core Recovery, NX or BX designates bit size (ASTM D-2113)

N or CR

SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring

Water Level, 22.83 feet from top of PVC pipe 10/14/82

Loss of Water 48 feet

C Top of Casing Elevation 356.63 feet

Page 7 of 8

BORING NUMBER: TB-7

DATE DRILLED: 9/4 - 9/7 1982

PROJECT NUMBER: 42281

TEST BORING RECORD

ELEV. (feet)	STRATUM DEPTH (feet)	VISUAL SOIL & GEOLOGIC DESCRIPTION	D	SR	K	N or CR	REMARKS
325		Brown Silty Clayey Sand				14	Blows from 0 to 1.5'
		Rock Fragments				19	Blows from 5 to 6.5'
320	5	Increasing with Depth				100	Blows from 10 to 10.33'
							Refusal at 10.33'
			10				
315	10	Red, Shale					
		Decomposed	16.5			.92	Recovery Very Poor RUN 1 (11' to 16.5')
310	15	Red Shale Minor Fractures					
			18				
		Grey, Shale	19				
305	20	Dark Green to Black Shale					
		Minor Fractures	25			4.83	Recovery Fair to Poor RUN 2 (16.5' to 25.5')
300	25	Grey Green Shale	27				
		Maroon, Grey interbedded Shale				9.17	Recovery Excellent RUN 3 (25.5 to 35.5')
		Minor Fractures	35				
295	35	Red, Shale				5.00	Recovery Fair to Good RUN 4 (35.5 to 43.5)
		Dense	43.5				
		Red, Shale, Minor				6.58	Recovery Excellent RUN 5 (43 to 50) END CORE 50'
		Fractured	50				
290	50						Roller Bit (2-5/16") to 80 feet
[illegible]	55	Red Shale					Lost water at 65 and 78'
280	60						Penetration Rate
275	65	With Minor					7 min/foot
270	70	einlets of Calcite					
265	75		76				
			80				Bottom of Hole 80' Completed hole as permanent monitoring well (see Module 2)
260	80						

1 - Elevations are approximate.
2 - Soil Symbols
3 - Sample Depths
4 - Penetration in blows/6" (ASTM D-1586)
5 - % Core Recovery, NX or BX designates bit size (ASTM D-2113)

Page 8 of 8

BORING NUMBER: TB-8
DATE DRILLED: 9/7 - 9/10 1983
PROJECT NUMBER: 42281

N or CR

SR - Sample Spoon Recovery in inches

S - Symbols Described Below

Undisturbed Sample (ASTM D-1587)

Water level, time of boring

Water Level, 14.96 feet from top of casing

Loss of Water 65 feet and 78 feet.

C Top of Casing Elevation 326.92 feet

FRACTURE TRACE ANALYSIS

Fracture traces are natural linear features that are visible on aerial photographs and are probably surface manifestations of underlying zones of fracture concentrations in the bedrock. Fracture zones are usually more highly weathered and of greater permeability than the surrounding rock.

Fracture traces consist of natural linear alignments such as linear drainage patterns, soil tonal changes, natural vegetation patterns and topographic alignments. Fracture traces are linear features less than one mile long. Alignments that are continuously traced for more than one mile or traced continuously for several miles are defined as lineaments. Care should be taken not to include linear features that are not fracture traces such as striation, foliation, and stratiographic contacts.

Aerial photographs at a scale of 1:24,000 were analyzed. The photographs were taken 2/8/80 (photo #22647, #22698) by the Montgomery County Planning Commission. The photographs were examined first with the naked eye and then with a stereoscopic lens. Only the most conspicious alignments were identified and care was taken not to include man-made features. Man-made alignments were eliminated by field checking. Location of fractures south of the site was limited by heavily wooded areas.

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Results of an aerial photo analysis indicate that there are no well developed fractures within a one mile radius of the proposed expansion area (Figure 3). No lineaments or fault scarps were observed within a mile radius of the site.

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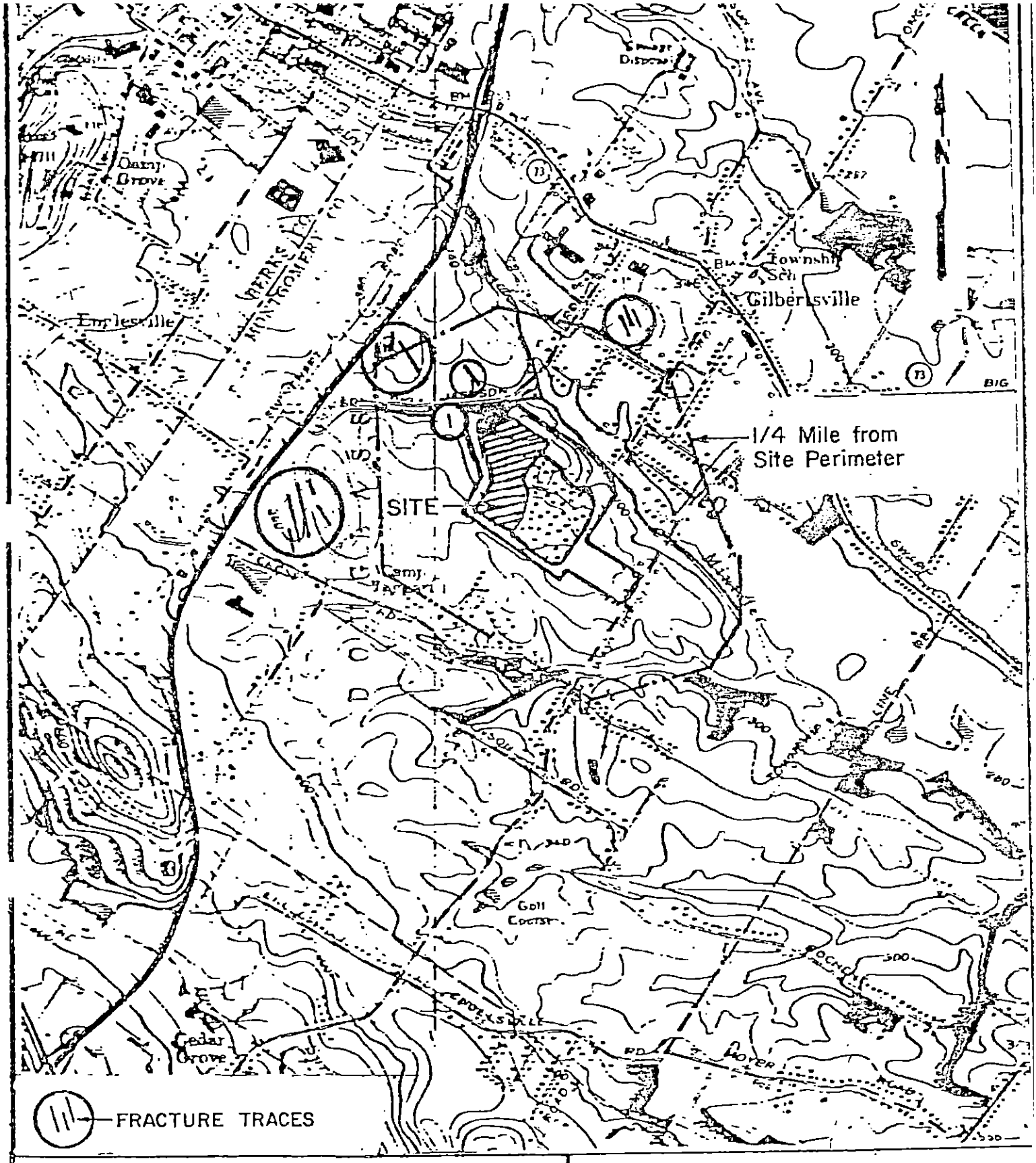

Ref. U.S. GEOLOGICAL SURVEY'S 7.5 MINUTE SERIES QUADS, BOYERTOWN, PA., AND SASSAMANSVILLE, PA. : 1957 (PHOTOREV. 1968, 1973)

FRACTURE TRACE ANALYSIS
BOYERTOWN LANDFILL
DOUGLASS TWP., MONTGOMERY CO., PA.

AGES® Applied Geotechnical and Environmental Service Corp

SCALE	DRAWN BY	DATE	DF
1" = 2000'	D.W.E.	11-1-82	
PROJECT NO 42281	APPROVED BY	SHEET NO	

HYDROGEOLOGY

The occurrance of groundwater in the Brunswick Formation is primarily controlled by secondary openings (ie. fractures & joints) in the rock. Minor amounts of groundwater can also occur between interstitial sand grains of an occasional sand stone lens.

The number and thickness of the shale, siltstone, and sandstone beds, and the presences of fractures, vary from bed to bed. The sedimentary sequences range in thickness from a few inches to several feet. The percentage of rock and the thickness of the sedimentary rock beds intercepted during the coring operation are listed in Table 2.

TABLE 2
ROCK CORING INFORMATION

Rock Type	Bedding Thickness	Percentage of Total Core
Red Sandstone	1 inch to 2 feet	2%
Black Shale	1 inch to 4 feet	11%
Red Shale	1 inch to 10 feet	85%
Red Siltstone	1/4" to 1 foot	1%

The number and size of the fractures on site influence the Formation's permeability. Eight (8) borings were installed on site, with minor fractures being intercepted. Four borings were utilized as temporary piezometers (TB-1, TB-2, TB-5, TB-6)

AGES

while four (4) borings were completed as proposed monitoring wells (TB-3, TB-4, TB-7, & TB-8). The proposed monitoring wells were selected downgradient from the proposed site where zones of weakness in the rock were suspected and representative water quality representative water quality samples could be obtained. Short term pump tests were performed on the proposed monitoring points to insure the water table was intercepted and to obtain information on the specific capacity of the wells. Developing wells insures accurate water level measurements.

Short term yields for the 1 hour duration test ranged from 1 gallon per minute to 8 gallons per minute. Well performance for the permanent monitoring wells was analyzed based on specific capacity. Specific capacity units of gallons per minute per foot of drawdown (gpm/ft drawdown) are useful in determining the permeability and performance of wells (Table 2).

TABLE 3
SPECIFIC CAPACITY VALUES

Well #	Specific Capacity gpm/ft drawdown	Short Term Yield (gpm)
TB-3	0.21	2.0
TB-4	0.21	1.5
TB-7	0.05	1.5
TB-8	0.14	8.0

The long term well yields for TB-3, TB-4, TB-7, and TB-8 will only be a fraction of the short term well yields listed in Table

AGES

2. In Douglass Township, as reported in the PA DER well inventory, specific capacity values range from 0.001 gpm/ft drawdown to 0.76 gpm/ft of drawdown. Well bore storage of groundwater is an important factor for sustaining adequate well yields in the area.

The survey of domestic well depths in Douglass Township range from 30 feet to in excess of 200 feet.

Groundwater in the Brunswick Formation may exist under both water table (free, unconfined) and semi-artesian (confined, under pressure) conditions. The water table zone is reported to extend to a maximum depth of 300 feet (Herpes and Barksdale) while semi-artesian zones can be intercepted to a depth of 600 feet. Intercepting groundwater at depths exceeding 600 feet are Groundwater, in the underlying fractures, does not remain at a fixed elevation but fluctuates in response to changes both in groundwater withdrawals, and in the amount of water that is recharged to the groundwater system. As seasonal variation is not great, the major factor controlling water table fluctuation is the seasonal variation in the rate of evapotranspiration. The water table generally declines through the growing season (April thru October). Highest groundwater levels in Southeastern, Pennsylvania, occurs during early spring, after a period of low evapotranspiration and high rainfall. Lowest groundwater levels usually occur in late summer and early fall when there is no

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recharge, high evapotranspiration, and groundwater use is the greatest. Drought conditions being an exception. Well data from existing Boyertown wells were examined for a period from February 1982 to October 1982. The observed seasonal groundwater fluctuation ranged from 3 feet in valleys to 6.5 feet on topographic highs.

The water level contour elevations in the landfill area generally mirrors natural surface topography (see sheets 3 and 4). The water level contour, map is based on the analysis of 15 water level monitoring points in the landfill area. Screening of the water level data indicated anomolous water level readings were being obtained from MW-4 and the point was not utilized. The water table (piezometric surface) is close to or at the land surface in valleys or topographic lows and is generally found at depth under hills on topographic highs. The slope of the water table while generally reflecting the surface topography, is generally a subdued replica of the land surface. In the site area groundwater levels have been observed to range from 27 feet below grade (AMW-5) on topographic highs and 8 feet below grade on topographic lows. Water level data indicates that local groundwater circulation occurs in the site area. Groundwater originating on topographic highs moves downward and laterally and discharges to area streams via springs and seeps.

The dominant groundwater direction on site is north-northeast except at the southern end of the site where ground water movement is to the south-southeast (see Sheets 3 & 4).

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Precipitation is the major source of recharge in the area. Precipitation data is included in the Phase II appendix. The amount of recharge is dependent on such factors as amount of rainfall, rainfall duration and intensity, soil permeability, capacity of the rocks to store and transmit water, evaporatranspiration, temperature, and land use. Recharge rates for the Brunswick (COWAMP 1975) are:

Physiographic Section	Average Annual Recharge Rate gpd/sq.mi.	Low Flow Recharge Rate gpd/sq.mi.
Triassic Lowland Section (Brunswick Formation)	300,000-400,000	20,000

Based on the recharge rates and other data, the groundwater availability in the proposed expansion area can range from 0 to 10 gpm.

The local precipitation directly enters the water table aquifer which leaks to underlying semi-artesian zones.

Large volumes of runoff occur in areas underlain by the Brunswick Formation due to low storage capacity in the natural zone of water table fluctuation.

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WATER QUALITY

The chemicals dissolved in groundwater are obtained from many sources. Gases in the atmosphere are picked up during precipitation. Percolating water reaches mineral matter from organic residue of plants, from agricultural fertilizers, animal and human waste, refuse, soil and rock. Water quality data for two wells in the New Hanover area of Montgomery County, were reviewed (Longwill and Wood 1965). Wells identified as 680 and 712 from the above referenced report were chosen because they were in close proximity to the landfill and water quality data were available (Figure 2, Table 4).

Data indicates that water from the Brunswick Formation is moderately mineralized and generally ranges from moderately hard to very hard. Much of the water requires softening or treatment to remove iron before it is used for some domestic and industrial processes. It is noted that several wells in Montgomery County have high nitrate and total dissolved solids concentrations in the groundwater.

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TABLE 4 -

CHEMICAL ANALYSIS OF GROUNDWATER IN SELECTED WELLS IN THE BRUNSWICK FORMATION, MONTGOMERY COUNTY

Chemical Constituent	Well Mg-680	Well Mg-712
Silica	28	21
Total Iron	0.70	1.6
Total Manganese	0.38	0.00
Calcium	59	54
Magnesium	17	36
Sodium	15	17
Potassium	1.0	1.5
Bicarbonate	252	268
Sulfate	37	83
Chloride	4.2	6.4
Fluoride	0.1	0.1
Nitrate	0.2	3.1
Dissolved Solids (residue at 180 C)	283	360
Calcium Magnesium (Hardness)	217	283
Non-Carbonate (Hardness)	11	63
Specific Conductance	447	565
pH	7.5	7.6
Color	6	5

(Results in parts per million unless otherwise indicated)
From: Groundwater Resource of the Brunswick Formation in Montgomery and Berks Counties.

AGS